Table 1.1 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total(b) (trillion Btu)	Net Electricity(c) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(d) (million bbl)	Natural Gas(e) (billion cu ft)	LPG and NGL(f) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(g) (trillion Btu)	Shipments of Energy Sources Produced Onsite(h) (trillion Btu)	RSE Row Factors
	Total United States											
	RSE Column Factors:	0.9	1	1.2	1.8	1	1.6	0.8	0.9	1.2	0.4	
311	Food	1,123	67,521	2	3	567	1	8	*	89	0	6.8
311221	Wet Corn Milling	217	6,851	*	*	59	*	5	0	11	0	1.1
31131	Sugar	112	725	*	*	22	*	2	*	46	0	0.9
311421	Fruit and Vegetable Canning	47	1,960	*	*	35	*	0	0	1	0	11
312	Beverage and Tobacco Products	105	7,639	*	*	45	*	1	0	11	0	4
3121	Beverages	85	6,426	*	*	41	*	*	0	10	0	5.4
3122	Tobacco	20	1,213	*	*	4	*	*	0	1	0	0.9
313	Textile Mills	207	25,271	1	*	73	*	1	0	15	0	14.3
314	Textile Product Mills	60	4,875	*	Q	28	*	*	0	Q	0	20.2
315	Apparel	30	3,588	*	*	16	*	0	0	*	0	21.4
316	Leather and Allied Products	7	716	*	*	4	*	0	0	*	0	7.8
321	Wood Products	377	20,985	*	2	56	1	*	0	228	0	4.1
321113	Sawmills	127	5,845	*	1	10	*	0	0	91	0	4.7
3212	Veneer, Plywood, and Engineered Woods	167	9,619	*	*	32	1	*	0	95	0	4.7
3219	Other Wood Products	73	5,282	*	*	11	*	0	0	40	0	8.2
322	Paper	2,363	65,503	16	2	490	2	11	*	1,276	0	1.8
322110	Pulp Mills	224	1,579	W	1	23	*	W	0	175	0	0.9
322121	Paper Mills, except Newsprint	1,002	22,831	8	1	201	*	6	*	523	0	1.7
322122	Newsprint Mills	94	11,174	W	*	15	*	W	0	27	0	0.9
322130	Paperboard Mills	908	16,369	5	1	183	*	4	0	542	0	2.2
323	Printing and Related Support	98	14,714	*	*	45	*	0	0	1	0	10.6
324	Petroleum and Coal Products	6,799	37,186	4	3	854	6	Q	*	5,520	83	3.5
324110	Petroleum Refineries	6,391	35,478	3	1	799	5	*	0	5,404	0	3
324199	Other Petroleum and Coal Products	Q	-533	*	*	4	*	Q	*	108	81	1.3
325	Chemicals	6,465	153,104	14	2	2,246	839	16	*	687	507	5.4
325110	Petrochemicals	889	W	W	*	204	260	W	0	80	368	1.2
325120	Industrial Gases	204	W	0	*	W	W	0	0	Q	0	3.1
325181	Alkalies and Chlorine	191	12,354	*	*	W	W	1	0	15	W	1.3
325182	Carbon Black	88	605	9	*	19	*	0	0	9	0	0.8
325188	Other Basic Inorganic Chemicals	218	25,904	*	*	75	3	1	*	17	*	1.8
325192	Cyclic Crudes and Intermediates	99	3,443	*	*	42	5	*	0	24	0	0.9
325193	Ethyl Alcohol	60	W	0	*	29	*	1	0	7	W	4.7
325199	Other Basic Organic Chemicals	1,833	22,917	W	*	572	199	W	0	370	98	6.9
325211	Plastics Materials and Resins	1,821	21,495	*	*	404	362	1	*	54	34	4.5
325212	Synthetic Rubber	57	1,878	*	*	28	1	*	0	12	*	4.3
325222	Noncellulosic Organic Fibers	63	W	*	*	31	*	W	0	5	0	1.5
325311	Nitrogenous Fertilizers	497	3,496	0	*	471	*	*	0	1	0	0.9
325312	Phosphatic Fertilizers	38	1,025	*	*	30	*	*	*	1	0	0.9
3254	Pharmaceuticals and Medicines	119	10,715	*	*	60	*	*	0	7	0	4.7
325412	Pharmaceutical Preparation	84	8,312	*	*	39	*	*	0	4	0	5.5
325992	Photographic Film, Paper, Plate, and Chemicals	29	W	*	*	7	*	W	0	*	0	5.8
326	Plastics and Rubber Products	351	53,181	1	*	125	2	Q	0	5	0	9.8
327	Nonmetallic Mineral Products	1,059	41,393	*	6	411	1	14	*	136	0	3.6
3272	Glass and Glass Products	201	12,233	W	W	149	*	*	0	5	0	2.1
327211	Flat Glass	63	1,842	W	W	51	*	*	0	3	0	0.9
327213	Glass Containers	66	3,932	0	*	51	*	0	0	*	0	0.8
327310	Cements	409	12,471	*	1	21	*	11	*	95	0	1.8
327410	Lime	106	1,353	*	*	7	*	3	*	26	0	0.9
327993	Mineral Wool	52	3,750	0	*	35	*	0	*	*	0	2.4
331	Primary Metals	2,120	144,502	*	3	686	1	20	14	178	143	1.8
331111	Iron and Steel Mills	1,308	53,915	*	2	406	*	19	13	23	143	2
331112	Electrometallurgical Ferroalloy Products	27	3,555	0	*	7	*	*	*	2	0	3.4

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3312	Steel Products from Purchased Steel	45	4,611	*	*	23	*	*	*	Q	0	9.5
3313	Alumina and Aluminum	473	56,673	*	*	132	*	*	*	143	0	1.6
331312	Primary Aluminum	325	W	*	*	19	*	*	0	W	0	0.9
3314	Nonferrous Metals, except Aluminum	101	9,855	*	*	42	*	*	*	5	0	3.7
3315	Foundries	165	15,893	*	*	75	*	*	1	1	0	3
331511	Iron Foundries	87	8,211	0	*	27	*	*	1	1	0	3.5
331521	Aluminum Die-Casting Foundries	23	1,897	*	*	16	*	0	0	*	0	2.2
331524	Aluminum Foundries, except Die-Casting	19	1,350	*	*	14	*	0	0	*	0	4.3
332	Fabricated Metal Products	388	47,123	*	1	204	1	*	*	3	0	15.3
333	Machinery	177	24,563	*	*	80	1	*	0	4	0	10.2
334	Computer and Electronic Products	201	38,352	*	*	64	*	*	0	3	0	15.7
334413	Semiconductors and Related Devices	67	13,001	*	*	21	*	0	0	1	0	4.7
335	Electrical Equip., Appliances, and Components	172	13,901	*	*	52	*	*	*	70	0	8.2
336	Transportation Equipment	429	50,508	1	1	198	1	*	*	30	0	5.1
336112	Light Trucks and Utility Vehicles	57	W	*	*	35	*	W	0	3	0	0.9
337	Furniture and Related Products	64	7,062	*	*	24	*	*	0	11	0	9.5
339	Miscellaneous	71	10,374	*	*	31	*	0	0	2	0	8.3
	Total	22,666	832,061	41	26	6,298	857	84	16	8,271	733	2.4
	Northeast Census Region											
	RSE Column Factors:	1.2	1.3	1.1	1.8	1.1	1.8	0.7	0.8	1.1	0.3	
311	Food	92	6,440	1	W	54	W	*	0	W	0	20.1
311221	Wet Corn Milling	*	W	*	*	0	0	0	0	*	0	0.8
31131	Sugar	W	W	*	*	W	*	0	0	*	0	0.8
311421	Fruit and Vegetable Canning	W	342	*	*	3	W	0	0	*	0	9.3
312	Beverage and Tobacco Products	13	1,000	*	*	7	*	0	0	1	0	4.2
3121	Beverages	12	W	*	W	W	W	0	0	1	0	4.6
3122	Tobacco	1	W	*	W	W	W	0	0	*	0	0.8
313	Textile Mills	W	1,337	*	*	13	W	0	0	*	0	21.7
314	Textile Product Mills	W	425	W	W	2	W	W	0	W	0	3.8
315	Apparel	W	567	0	*	W	W	0	0	0	0	23.5
316	Leather and Allied Products	W	111	*	*	1	*	0	0	*	0	9.6
321	Wood Products	22	1,319	*	*	4	W	0	0	11	0	10.9
321113	Sawmills	7	380	*	*	*	*	0	0	4	0	4.8
3212	Veneer, Plywood, and Engineered Woods	5	316	*	*	2	*	0	0	2	0	10
3219	Other Wood Products	10	682	*	*	2	W	0	0	5	0	17.1
322	Paper	284	8,114	6	W	72	W	W	0	127	0	3.3
322110	Pulp Mills	W	37	W	*	W	*	0	0	0	0	4.5
322121	Paper Mills, except Newsprint	218	2,891	4	*	46	*	1	0	118	0	2.8
322122	Newsprint Mills	7	W	W	*	0	0	0	0	0	0	0.8
322130	Paperboard Mills	28	983	W	W	W	W	W	0	W	0	2.4
323	Printing and Related Support	W	3,164	W	*	11	W	0	0	W	0	13.3
324	Petroleum and Coal Products	527	3,103	1	W	43	W	W	*	429	5	3.4
324110	Petroleum Refineries	477	2,585	*	*	35	*	*	0	427	0	1.4
324199	Other Petroleum and Coal Products	W	71	*	*	W	*	W	*	*	5	1
325	Chemicals	182	12,367	W	W	71	W	W	0	W	*	4.5
325110	Petrochemicals	W	19	0	*	*	0	0	0	*	0	1.5
325120	Industrial Gases	W	1,961	0	*	W	0	0	0	W	0	0.8
325181	Alkalies and Chlorine	W	W	*	*	*	W	0	0	W	0	0.8
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	963	W	*	6	W	0	0	W	0	2.5
325192	Cyclic Crudes and Intermediates	6	205	W	W	4	*	0	0	W	0	0.8
325193	Ethyl Alcohol	*	W	0	0	*	0	0	0	*	0	0.9
325199	Other Basic Organic Chemicals	W	764	W	*	7	W	0	0	W	0	5.4

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325211	Plastics Materials and Resins	W	1,010	W	*	6	W	0	0	W	*	6.6
325212	Synthetic Rubber	W	50	0	*	*	W	0	0	W	0	0.7
325222	Noncellulosic Organic Fibers	*	W	W	0	*	W	0	0	*	0	5
325311	Nitrogenous Fertilizers	2	74	0	*	1	W	0	0	*	0	0.7
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	W	2,814	*	*	30	W	0	0	2	0	6.2
325412	Pharmaceutical Preparation	W	2,166	*	*	20	W	0	0	1	0	8.7
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	W	*	3	W	W	0	*	0	3.8
326	Plastics and Rubber Products	46	7,558	*	W	14	W	W	0	W	0	7.4
327	Nonmetallic Mineral Products	151	6,575	W	W	62	W	2	*	18	0	4.5
3272	Glass and Glass Products	40	2,089	W	W	30	W	*	0	W	0	2.7
327211	Flat Glass	11	321	0	W	9	*	*	0	W	0	0.8
327213	Glass Containers	13	751	0	*	10	*	0	0	*	0	0.7
327310	Cements	56	1,648	W	W	*	*	W	*	14	0	0.9
327410	Lime	W	W	0	*	*	W	W	0	1	0	0.8
327993	Mineral Wool	W	346	0	*	3	*	0	*	*	0	2.4
331	Primary Metals	W	15,021	*	W	W	*	W	1	W	114	5.4
331111	Iron and Steel Mills	W	6,071	0	W	W	W	W	*	W	114	3.4
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	W	*	W	0	W	0	0.8
3312	Steel Products from Purchased Steel	W	W	*	W	W	W	*	*	W	0	13.5
3313	Alumina and Aluminum	W	W	*	W	W	*	0	0	W	0	1
331312	Primary Aluminum	W	W	*	*	W	*	0	0	W	0	0.8
3314	Nonferrous Metals, except Aluminum	W	1,634	*	W	W	*	*	*	W	0	3.6
3315	Foundries	W	1,284	*	*	7	*	*	*	*	0	3.7
331511	Iron Foundries	W	607	0	*	3	*	*	*	*	0	4.6
331521	Aluminum Die-Casting Foundries	1	52	0	*	*	*	0	0	*	0	2.9
331524	Aluminum Foundries, except Die-Casting	3	209	*	*	2	*	0	0	*	0	1.3
332	Fabricated Metal Products	55	6,449	W	W	28	W	W	*	W	0	16
333	Machinery	W	3,692	*	*	12	W	0	0	W	0	14.1
334	Computer and Electronic Products	62	11,167	*	*	20	*	*	0	1	0	26.1
334413	Semiconductors and Related Devices	14	2,390	*	*	5	*	0	0	1	0	3.1
335	Electrical Equip., Appliances, and Components	W	2,013	*	*	10	W	0	0	*	0	13.4
336	Transportation Equipment	49	4,026	1	*	20	*	0	0	11	0	4.8
336112	Light Trucks and Utility Vehicles	2	W	0	W	W	*	0	0	W	0	0.7
337	Furniture and Related Products	W	831	0	W	3	W	0	0	W	0	10.5
339	Miscellaneous	W	2,521	*	*	9	W	0	0	W	0	11.4
	Total	1,874	97,798	11	5	526	7	13	1	651	119	3.6
	Midwest Census Region											
	RSE Column Factors:	1.2	1.1	1.1	1.4	1.3	1.8	0.5	0.8	1.2	0.4	
311	Food	538	28,311	1	*	245	*	7	*	23	0	9.6
311221	Wet Corn Milling	191	5,846	*	*	51	*	5	0	6	0	0.9
31131	Sugar	30	379	*	*	5	*	1	*	*	0	0.9
311421	Fruit and Vegetable Canning	7	397	*	*	5	*	0	0	*	0	2.9
312	Beverage and Tobacco Products	23	1,391	*	*	10	*	*	0	1	0	4.1
3121	Beverages	22	W	*	W	W	W	*	0	1	0	4.1
3122	Tobacco	1	W	0	W	W	W	0	0	1	0	0.8
313	Textile Mills	W	310	0	*	1	W	0	0	*	0	6.3
314	Textile Product Mills	W	307	0	0	1	W	0	0	W	0	9.1
315	Apparel	W	193	0	0	1	*	0	0	*	0	12.9
316	Leather and Allied Products	4	428	0	*	3	*	0	0	*	0	12.8
321	Wood Products	47	3,050	W	W	12	*	W	0	20	0	4.8
321113	Sawmills	6	428	*	*	1	*	0	0	3	0	6.6
3212	Veneer, Plywood, and Engineered Woods	23	1,026	W	W	6	*	W	0	11	0	3.2

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3219	Other Wood Products	17	1,558	0	*	5	*	0	0	Q	0	11.4
322	Paper	338	14,825	1	*	97	Q	4	*	93	0	3
322110	Pulp Mills	W	119	0	W	W	*	W	0	W	0	0.9
322121	Paper Mills, except Newsprint	212	8,153	1	*	51	*	3	*	60	0	2.1
322122	Newsprint Mills	4	W	0	*	W	*	W	0	W	0	0.9
322130	Paperboard Mills	62	2,452	W	W	W	W	W	0	W	0	5.6
323	Printing and Related Support	34	5,171	0	*	14	*	0	0	1	0	12.9
324	Petroleum and Coal Products	888	6,758	1	*	100	2	0	0	762	17	4.2
324110	Petroleum Refineries	858	6,047	1	*	82	1	0	0	740	0	2.3
324199	Other Petroleum and Coal Products	W	60	0	*	*	*	0	0	20	15	0.9
325	Chemicals	664	29,236	W	W	241	W	3	*	W	19	4.7
325110	Petrochemicals	W	W	0	*	2	W	0	0	*	W	0.9
325120	Industrial Gases	W	6,276	0	0	W	0	0	0	W	0	1.2
325181	Alkalies and Chlorine	W	W	0	*	1	W	W	0	*	0	4
325182	Carbon Black	W	56	W	0	W	*	0	0	*	0	0.8
325188	Other Basic Inorganic Chemicals	45	2,116	W	*	W	W	W	*	6	*	2
325192	Cyclic Crudes and Intermediates	W	W	W	*	6	*	0	0	*	0	0.8
325193	Ethyl Alcohol	58	1,218	0	*	28	*	1	0	W	W	4.7
325199	Other Basic Organic Chemicals	75	4,042	0	*	20	W	W	0	W	W	2.6
325211	Plastics Materials and Resins	W	4,322	W	*	20	W	W	*	W	W	2.4
325212	Synthetic Rubber	W	233	0	*	1	W	W	0	W	0	1.6
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	88	1,070	0	*	81	0	0	0	1	0	0.8
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	W	4,089	*	*	17	W	*	0	1	0	6.2
325412	Pharmaceutical Preparation	W	3,612	*	*	12	W	*	0	*	0	2.4
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	0	*	W	0	0	0	0	3.3
326	Plastics and Rubber Products	140	19,776	*	*	47	W	W	0	W	0	13.2
327	Nonmetallic Mineral Products	304	10,674	W	2	109	W	4	*	59	0	4.7
3272	Glass and Glass Products	58	3,618	0	W	43	W	0	0	W	0	1.4
327211	Flat Glass	19	469	0	W	16	*	0	0	W	0	0.8
327213	Glass Containers	16	978	0	*	13	*	0	0	*	0	0.8
327310	Cements	117	3,036	0	*	5	*	2	*	45	0	3.3
327410	Lime	48	487	W	*	4	W	1	*	12	0	0.9
327993	Mineral Wool	20	1,427	0	*	13	*	0	*	*	0	1.2
331	Primary Metals	1,085	55,534	*	1	353	*	9	10	58	27	1.9
331111	Iron and Steel Mills	799	22,557	*	W	245	W	9	9	W	27	2
331112	Electrometallurgical Ferroalloy Products	W	2,337	0	W	6	*	*	*	W	0	0.9
3312	Steel Products from Purchased Steel	W	2,160	0	W	14	W	*	0	W	0	9.3
3313	Alumina and Aluminum	W	15,954	0	*	30	*	0	0	W	0	2.9
331312	Primary Aluminum	W	13,892	0	*	W	*	0	0	W	0	0.8
3314	Nonferrous Metals, except Aluminum	W	2,716	*	W	13	*	*	*	W	0	4.2
3315	Foundries	W	9,810	*	*	46	*	*	1	1	0	2.5
331511	Iron Foundries	W	5,634	0	*	16	*	*	1	1	0	3.5
331521	Aluminum Die-Casting Foundries	17	1,510	*	*	12	*	0	0	*	0	2.8
331524	Aluminum Foundries, except Die-Casting	11	828	0	*	8	*	0	0	*	0	2.7
332	Fabricated Metal Products	183	21,313	W	W	98	W	W	*	W	0	14.4
333	Machinery	92	11,445	0	*	46	W	*	0	W	0	11.4
334	Computer and Electronic Products	32	5,270	0	*	13	*	0	0	1	0	7
334413	Semiconductors and Related Devices	3	594	0	*	1	*	0	0	*	0	1.3
335	Electrical Equip., Appliances, and Components	37	4,949	*	*	18	*	*	0	*	0	7
336	Transportation Equipment	241	27,614	*	W	117	1	W	*	15	0	11.5
336112	Light Trucks and Utility Vehicles	36	3,047	*	W	23	*	W	0	W	0	0.9
337	Furniture and Related Products	25	2,242	0	W	11	W	W	0	W	0	13.1
339	Miscellaneous	19	2,786	*	*	9	*	0	0	*	0	6.9
	Total	4,702	251,584	W	W	1,546	46	29	11	1,152	63	3.6

Table 1.1 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total(b) (trillion Btu)	Net Electricity(c) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(d) (million bbl)	Natural Gas(e) (billion cu ft)	LPG and NGL(f) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(g) (trillion Btu)	Shipments of Energy Sources Produced Onsite(h) (trillion Btu)	RSE Row Factors
	South Census Region											
	RSE Column Factors:	1.1	1.3	1.1	1.6	1.2	1.9	0.8	0.6	1.1	0.4	
311	Food	323	22,923	Q	1	165	1	*	0	53	0	7.2
311221	Wet Corn Milling	20	1,070	0	*	5	*	*	0	4	0	0.8
31131	Sugar	57	205	*	*	10	*	*	0	42	0	0.8
311421	Fruit and Vegetable Canning	14	534	*	*	10	*	0	0	*	0	7.3
312	Beverage and Tobacco Products	45	3,457	*	*	18	*	*	0	2	0	3
3121	Beverages	27	2,283	*	*	15	*	*	0	2	0	3.3
3122	Tobacco	18	1,174	*	*	3	*	*	0	*	0	0.8
313	Textile Mills	169	22,688	*	*	51	*	1	0	15	0	16
314	Textile Product Mills	51	3,928	W	W	23	W	W	0	W	0	18.3
315	Apparel	15	1,956	*	*	7	*	0	0	*	0	19.4
316	Leather and Allied Products	1	142	0	*	*	*	0	0	*	0	5.1
321	Wood Products	214	11,501	W	W	25	1	W	0	140	0	6.5
321113	Sawmills	69	3,159	0	*	3	*	0	0	53	0	8.3
3212	Veneer, Plywood, and Engineered Woods	101	5,985	W	W	17	*	W	0	60	0	7
3219	Other Wood Products	38	2,166	0	*	3	*	0	0	27	0	10.8
322	Paper	1,434	30,148	8	2	236	*	6	0	889	0	1.6
322110	Pulp Mills	194	1,155	2	W	W	*	W	0	156	0	0.8
322121	Paper Mills, except Newsprint	473	9,124	2	*	77	*	3	0	284	0	1.4
322122	Newsprint Mills	48	4,866	*	*	W	*	W	0	W	0	0.8
322130	Paperboard Mills	673	9,828	4	W	105	W	W	0	433	0	2.3
323	Printing and Related Support	28	4,527	W	*	11	W	0	0	*	0	6.7
324	Petroleum and Coal Products	4,304	22,236	1	W	548	2	W	*	3,446	59	4.5
324110	Petroleum Refineries	4,012	21,420	1	*	529	2	0	0	3,382	0	1.7
324199	Other Petroleum and Coal Products	Q	16	0	*	W	*	W	*	63	59	2.4
325	Chemicals	5,417	99,875	W	W	1,816	793	W	*	544	488	4
325110	Petrochemicals	W	W	W	*	201	W	W	0	80	W	0.9
325120	Industrial Gases	103	10,880	0	*	W	W	0	0	W	0	4.1
325181	Alkalies and Chlorine	W	8,681	0	*	W	W	W	0	W	W	0.9
325182	Carbon Black	W	549	W	*	W	*	0	0	W	0	0.8
325188	Other Basic Inorganic Chemicals	116	19,919	W	*	37	W	W	0	W	0	2.5
325192	Cyclic Crudes and Intermediates	85	2,980	W	W	31	5	*	0	24	0	0.8
325193	Ethyl Alcohol	*	W	0	*	*	*	0	0	*	0	0.8
325199	Other Basic Organic Chemicals	1,734	17,815	2	*	542	199	W	0	328	W	6.7
325211	Plastics Materials and Resins	1,626	15,824	W	*	377	324	W	0	43	W	2.8
325212	Synthetic Rubber	51	1,577	*	*	26	W	W	0	W	*	4.6
325222	Noncellulosic Organic Fibers	63	4,241	W	*	31	W	W	0	5	0	0.8
325311	Nitrogenous Fertilizers	342	1,889	0	*	326	*	0	0	*	0	0.8
325312	Phosphatic Fertilizers	30	525	*	*	24	*	*	*	*	0	0.9
3254	Pharmaceuticals and Medicines	W	2,740	*	*	8	*	0	0	4	0	7.5
325412	Pharmaceutical Preparation	14	1,868	*	*	4	*	0	0	3	0	10.8
325992	Photographic Film, Paper, Plate, and Chemicals	5	747	W	*	2	W	0	0	*	0	3.7
326	Plastics and Rubber Products	141	21,454	1	W	56	W	0	0	W	0	11.9
327	Nonmetallic Mineral Products	424	17,738	W	2	180	W	5	*	44	0	5.1
3272	Glass and Glass Products	80	5,095	W	W	60	W	*	0	1	0	1.9
327211	Flat Glass	25	840	W	W	21	*	*	0	1	0	0.8
327213	Glass Containers	22	1,233	0	*	18	*	0	0	*	0	0.8
327310	Cements	149	5,005	0	*	10	*	4	*	24	0	3.4
327410	Lime	39	575	0	*	3	*	1	0	11	0	0.8
327993	Mineral Wool	22	1,448	0	*	15	*	0	*	*	0	3.3
331	Primary Metals	668	60,466	*	W	227	*	W	4	81	2	1.8
331111	Iron and Steel Mills	319	21,615	*	W	107	*	W	4	W	2	1.7

Table 1.1 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total(b) (trillion Btu)	Net Electricity(c) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(d) (million bbl)	Natural Gas(e) (billion cu ft)	LPG and NGL(f) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(g) (trillion Btu)	Shipments of Energy Sources Produced Onsite(h) (trillion Btu)	RSE Row Factors
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	W	*	W	*	W	0	11.3
3312	Steel Products from Purchased Steel	11	W	0	W	W	*	*	0	W	0	10.9
3313	Alumina and Aluminum	W	29,063	0	W	83	*	*	*	W	0	2.1
331312	Primary Aluminum	172	24,945	0	*	W	*	*	0	W	0	0.8
3314	Nonferrous Metals, except Aluminum	W	3,205	0	*	14	*	*	*	1	0	4.4
3315	Foundries	40	4,079	0	*	18	*	*	*	*	0	1.3
331511	Iron Foundries	20	1,804	0	*	7	*	*	*	*	0	1.5
331521	Aluminum Die-Casting Foundries	4	274	0	*	3	*	0	0	*	0	1.5
331524	Aluminum Foundries, except Die-Casting	4	244	0	*	3	*	0	0	*	0	3.1
332	Fabricated Metal Products	121	15,240	W	W	64	*	W	0	Q	0	13.1
333	Machinery	43	7,273	0	*	16	W	0	0	Q	0	8.9
334	Computer and Electronic Products	40	9,179	0	*	8	*	0	0	*	0	6.7
334413	Semiconductors and Related Devices	16	3,641	0	*	3	*	0	0	*	0	2.7
335	Electrical Equip., Appliances, and Components	109	6,026	*	*	18	*	*	*	69	0	8.8
336	Transportation Equipment	102	14,135	*	W	43	*	W	0	4	0	4.8
336112	Light Trucks and Utility Vehicles	19	W	0	W	W	*	0	0	W	0	0.8
337	Furniture and Related Products	25	3,181	0	W	8	*	W	0	5	0	16.1
339	Miscellaneous	19	3,041	*	*	8	*	0	0	*	0	13.1
	Total	13,692	381,113	W	W	3,529	800	37	4	5,297	549	2.7
	West Census Region											
	RSE Column Factors:	1.3	1.4	0.7	1.6	1.4	2	0.7	0.5	1.1	0.4	
311	Food	171	9,848	*	W	102	W	1	*	W	0	6.8
311221	Wet Corn Milling	5	W	0	*	4	*	0	0	1	0	3.2
31131	Sugar	W	W	*	*	W	*	1	*	3	0	0.9
311421	Fruit and Vegetable Canning	W	686	*	*	17	W	0	0	*	0	6.3
312	Beverage and Tobacco Products	23	1,791	0	*	9	*	0	0	7	0	3.5
3121	Beverages	23	1,790	0	*	9	*	0	0	7	0	3.5
3122	Tobacco	*	*	0	0	0	0	0	0	0	0	0.7
313	Textile Mills	W	936	0	0	Q	W	0	0	1	0	8.5
314	Textile Product Mills	W	215	0	0	1	W	0	0	0	0	15.5
315	Apparel	W	872	0	*	W	W	0	0	*	0	25.5
316	Leather and Allied Products	W	36	0	*	*	0	0	0	0	0	25.9
321	Wood Products	94	5,116	*	1	15	W	0	0	56	0	5.4
321113	Sawmills	46	1,879	*	*	6	*	0	0	32	0	6
3212	Veneer, Plywood, and Engineered Woods	38	2,293	0	*	7	*	0	0	22	0	4.5
3219	Other Wood Products	8	876	0	*	2	W	0	0	Q	0	10.7
322	Paper	307	12,417	1	W	85	W	W	0	168	0	1.3
322110	Pulp Mills	W	268	W	W	W	*	0	0	W	0	0.8
322121	Paper Mills, except Newsprint	99	2,664	*	*	26	*	0	0	60	0	1.7
322122	Newsprint Mills	34	4,767	W	*	W	*	0	0	W	0	0.8
322130	Paperboard Mills	145	3,106	W	W	42	W	W	0	87	0	0.9
323	Printing and Related Support	W	1,852	0	*	8	W	0	0	W	0	15.3
324	Petroleum and Coal Products	1,080	5,089	1	W	163	W	0	0	882	3	6.3
324110	Petroleum Refineries	1,044	5,425	1	*	153	2	0	0	855	0	5.3
324199	Other Petroleum and Coal Products	23	-680	0	*	2	0	0	0	26	3	0.9
325	Chemicals	202	11,626	W	W	118	W	W	*	W	0	3.3
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	W	W	0	0	W	*	0	0	0	0	1
325181	Alkalies and Chlorine	31	1,785	0	*	W	*	W	0	W	0	0.8
325182	Carbon Black	*	*	W	0	*	*	0	0	W	0	0.8
325188	Other Basic Inorganic Chemicals	W	2,907	W	*	W	W	W	*	W	0	1.4
325192	Cyclic Crudes and Intermediates	W	W	0	*	*	*	0	0	W	0	0.7
325193	Ethyl Alcohol	2	47	0	*	1	*	0	0	W	0	0.7

Table 1.1 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total(b) (trillion Btu)	Net Electricity(c) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(d) (million bbl)	Natural Gas(e) (billion cu ft)	LPG and NGL(f) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(g) (trillion Btu)	Shipments of Energy Sources Produced Onsite(h) (trillion Btu)	RSE Row Factors
325199	Other Basic Organic Chemicals	W	296	W	*	3	*	0	0	W	0	5.3
325211	Plastics Materials and Resins	W	340	0	*	1	W	0	0	*	0	2.6
325212	Synthetic Rubber	*	18	0	0	*	*	0	0	*	0	0.7
325222	Noncellulosic Organic Fibers	*	2	0	0	0	*	0	0	0	0	0.6
325311	Nitrogenous Fertilizers	66	463	0	*	63	W	*	0	*	0	0.8
325312	Phosphatic Fertilizers	8	500	0	*	6	*	0	0	*	0	0.7
3254	Pharmaceuticals and Medicines	9	1,071	0	*	5	W	0	0	*	0	3.6
325412	Pharmaceutical Preparation	5	665	0	*	3	*	0	0	*	0	3.7
325992	Photographic Film, Paper, Plate, and Chemicals	3	W	0	*	2	W	0	0	0	0	0.6
326	Plastics and Rubber Products	24	4,393	0	*	8	W	0	0	W	0	11.8
327	Nonmetallic Mineral Products	180	6,406	W	W	60	W	3	*	15	0	3.2
3272	Glass and Glass Products	24	1,431	W	W	16	*	0	0	W	0	0.9
327211	Flat Glass	8	212	W	W	5	*	0	0	W	0	0.8
327213	Glass Containers	14	970	0	*	10	*	0	0	*	0	0.7
327310	Cements	87	2,782	W	W	5	*	W	*	12	0	1.2
327410	Lime	W	W	W	*	1	*	W	0	2	0	0.8
327993	Mineral Wool	W	528	0	*	3	*	0	*	*	0	1
331	Primary Metals	W	13,481	0	*	W	*	W	*	W	0	1.6
331111	Iron and Steel Mills	W	3,672	0	*	W	*	W	*	W	0	2.6
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	*	*	0	0	W	0	0.7
3312	Steel Products from Purchased Steel	W	W	0	*	W	*	0	0	W	0	2.3
3313	Alumina and Aluminum	W	W	0	*	W	*	0	0	W	0	1.9
331312	Primary Aluminum	W	W	0	*	2	*	0	0	W	0	0.8
3314	Nonferrous Metals, except Aluminum	W	2,299	0	*	W	*	0	*	W	0	3.4
3315	Foundries	W	720	0	*	4	*	*	*	*	0	2
331511	Iron Foundries	W	166	0	*	1	*	*	*	*	0	0.9
331521	Aluminum Die-Casting Foundries	1	61	0	0	*	*	0	0	*	0	10.8
331524	Aluminum Foundries, except Die-Casting	1	69	0	*	1	*	0	0	*	0	1.9
332	Fabricated Metal Products	30	4,121	0	*	15	W	0	0	W	0	10.6
333	Machinery	W	2,153	0	*	6	*	0	0	W	0	10.8
334	Computer and Electronic Products	68	12,736	*	*	23	*	0	0	1	0	7.3
334413	Semiconductors and Related Devices	34	6,376	0	*	12	*	0	0	*	0	6.1
335	Electrical Equip., Appliances, and Components	W	912	0	*	Q	W	0	0	*	0	5
336	Transportation Equipment	36	4,733	0	*	18	*	0	0	1	0	11.3
336112	Light Trucks and Utility Vehicles	*	W	0	*	*	*	0	0	*	0	0.7
337	Furniture and Related Products	W	807	*	*	2	W	0	0	W	0	12.5
339	Miscellaneous	W	2,026	0	*	5	W	0	0	W	0	16.5
	Total	2,398	101,565	2	5	696	4	5	*	1,170	3	2.9

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

(b) 'Total' is the sum of all of the listed energy sources, including 'Other,' minus the shipments of energy sources produced onsite. It is the total amount of first use of energy for all (fuel and nonfuel) purposes.

(c) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

(d) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(e) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(f) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene,

Table 1.1 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total(b) (trillion Btu)	Net Electricity(c) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(d) (million bbl)	Natural Gas(e) (billion cu ft)	LPG and NGL(f) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(g) (trillion Btu)	Shipments of Energy Sources Produced Onsite(h) (trillion Btu)	RSE Row Factors

normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(g) 'Other' includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power or as feedstock/raw material inputs. See also Footnote 'i'.

(h) 'Shipments of Energy Sources Produced Onsite' are those shipments produced or transformed onsite from the nonfuel use of other energy sources. For example, at an establishment that processes coal to make coke for later use, the entire quantity of coal is counted as first use. Any onsite consumption of coke is not counted as first use because it would duplicate the coal use. If some of the coke is then sold to another establishment, then that second establishment will consider this coke to be a shipment of an offsite-produced energy source. Hence, the second establishment will count this coke as its first use, thereby resulting in double counting. In order to eliminate the double counting, the energy equivalent of the coke shipment must be subtracted from first use.

(i) For the petroleum refining industry only, the feedstocks and raw material inputs for the production of nonenergy products (i.e., asphalt, waxes, lubricants, and solvents) and feedstock consumption at adjoining petrochemical plants are included in the 'Other' column, regardless of type of energy. The remaining columns for the petroleum refining industry include only energy that was consumed for the production of heat and power. The 'Other' column also includes net steam and other energy that respondents indicated was used in the production of heat and power. Those inputs and feedstocks that were converted to other energy products (e.g., crude oil converted to residual and distillate fuel oils) are excluded.

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. The derived estimates presented in this table are for the first use (formerly primary consumption) of energy for heat and power and as feedstocks or raw material inputs. First use is defined as the consumption of the energy that was originally produced offsite or was produced onsite from input materials not classified as energy. Examples of the latter are hydrogen produced from the electrolysis of brine; the output of captive (onsite) mines or wells; woodchips, bark, and woodwaste from wood purchased as a raw material input; and waste materials, such as wastepaper and packing materials. First use excludes quantities of energy that are produced from other energy inputs and, therefore, avoids double counting.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002.

Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors
	Total United States											
	RSE Column Factors:	0.9	1	1.2	1.8	1	1.6	0.8	0.9	1.2	0.4	
311	Food	1,123	230	13	19	582	5	184	1	89	0	6.8
311221	Wet Corn Milling	217	23	*	*	61	*	121	0	11	0	1.1
31131	Sugar	112	2	2	1	22	*	37	1	46	0	0.9
311421	Fruit and Vegetable Canning	47	7	1	1	36	Q	0	0	1	0	11
312	Beverage and Tobacco Products	105	26	2	2	46	1	17	0	11	0	4
3121	Beverages	85	22	1	2	42	1	8	0	10	0	5.4
3122	Tobacco	20	4	1	*	4	*	10	0	1	0	0.9
313	Textile Mills	207	86	4	2	75	2	22	0	15	0	14.3
314	Textile Product Mills	60	17	2	Q	29	1	Q	0	Q	0	20.1
315	Apparel	30	12	*	1	16	*	0	0	*	0	21.4
316	Leather and Allied Products	7	2	*	*	4	*	0	0	*	0	7.8
321	Wood Products	377	72	1	13	57	5	1	0	228	0	4.1
321113	Sawmills	127	20	*	6	10	1	0	0	91	0	4.7
3212	Veneer, Plywood, and Engineered Woods	167	33	1	2	33	3	1	0	95	0	4.7
3219	Other Wood Products	73	18	*	2	11	1	0	0	40	0	8.2
322	Paper	2,363	223	100	13	504	6	236	4	1,276	0	1.8
322110	Pulp Mills	224	5	W	5	24	*	W	0	175	0	0.9
322121	Paper Mills, except Newsprint	1,002	78	47	4	206	1	139	4	523	0	1.7
322122	Newsprint Mills	94	38	W	*	16	*	W	0	27	0	0.9
322130	Paperboard Mills	908	56	34	4	188	*	84	0	542	0	2.1
323	Printing and Related Support	98	50	*	*	46	1	0	0	1	0	10.6
324	Petroleum and Coal Products	6,799	127	25	19	878	24	Q	2	5,520	83	3.4
324110	Petroleum Refineries	6,391	121	21	5	821	20	*	0	5,404	0	3
324199	Other Petroleum and Coal Products	Q	-2	*	*	5	*	Q	2	108	81	1.3
325	Chemicals	6,465	522	87	14	2,307	3,001	344	6	687	504	5.3
325110	Petrochemicals	889	W	W	*	209	932	W	0	80	368	1.2
325120	Industrial Gases	204	W	0	*	W	W	0	0	Q	0	3.1
325181	Alkalies and Chlorine	191	42	*	*	W	W	20	0	15	W	1.3
325182	Carbon Black	88	2	57	*	20	*	0	0	9	0	0.8
325188	Other Basic Inorganic Chemicals	218	88	2	2	77	11	19	2	17	*	1.8
325192	Cyclic Crudes and Intermediates	99	12	*	*	43	19	*	0	24	0	0.9
325193	Ethyl Alcohol	60	W	0	*	30	*	19	0	7	W	4.6
325199	Other Basic Organic Chemicals	1,833	78	W	2	587	719	W	0	370	98	6.9
325211	Plastics Materials and Resins	1,821	73	1	1	414	1,284	27	*	54	34	4.5
325212	Synthetic Rubber	57	6	*	*	29	5	5	0	12	*	4.3
325222	Noncellulosic Organic Fibers	63	W	2	*	31	*	W	0	5	0	1.5
325311	Nitrogenous Fertilizers	497	12	0	*	484	*	*	0	1	0	0.9
325312	Phosphatic Fertilizers	38	3	1	1	30	*	1	1	1	0	0.9
3254	Pharmaceuticals and Medicines	119	37	2	3	62	*	9	0	7	0	4.7
325412	Pharmaceutical Preparation	84	28	2	1	40	*	9	0	4	0	5.5
325992	Photographic Film, Paper, Plate, and Chemicals	29	W	1	*	7	*	W	0	*	0	5.8
326	Plastics and Rubber Products	351	181	7	2	128	6	Q	0	5	0	9.8
327	Nonmetallic Mineral Products	1,059	141	3	34	422	3	309	11	136	0	3.6
3272	Glass and Glass Products	201	42	W	W	153	1	*	0	5	0	2.1
327211	Flat Glass	63	6	W	W	52	*	*	0	3	0	0.9
327213	Glass Containers	66	13	0	*	52	*	0	0	*	0	0.8
327310	Cements	409	43	1	6	21	*	236	8	95	0	1.8
327410	Lime	106	5	1	1	8	*	66	*	26	0	0.9

Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors
327993	Mineral Wool	52	13	0	*	35	*	0	3	*	0	2.4
331	Primary Metals	2,120	493	1	15	704	3	515	355	178	143	1.8
331111	Iron and Steel Mills	1,308	184	1	10	417	*	498	319	23	143	2
331112	Electrometallurgical Ferroalloy Products	27	12	0	*	7	*	5	*	2	0	3.4
3312	Steel Products from Purchased Steel	45	16	*	*	24	*	*	*	Q	0	9.5
3313	Alumina and Aluminum	473	193	*	1	135	1	*	*	143	0	1.6
331312	Primary Aluminum	325	W	*	*	20	*	*	0	W	0	0.9
3314	Nonferrous Metals, except Aluminum	101	34	*	2	44	1	9	8	5	0	3.7
3315	Foundries	165	54	*	1	77	1	2	28	1	0	3
331511	Iron Foundries	87	28	0	1	27	*	1	28	1	0	3.5
331521	Aluminum Die-Casting Foundries	23	6	*	*	16	*	0	0	*	0	2.2
331524	Aluminum Foundries, except Die-Casting	19	5	*	*	14	*	0	0	*	0	4.3
332	Fabricated Metal Products	388	161	Q	6	210	3	1	Q	3	0	15.3
333	Machinery	177	84	*	3	82	3	1	0	4	0	10.2
334	Computer and Electronic Products	201	131	1	1	65	*	*	0	3	0	15.7
334413	Semiconductors and Related Devices	67	44	*	*	21	*	0	0	1	0	4.7
335	Electrical Equip., Appliances, and Components	172	47	*	1	53	1	*	*	70	0	8.2
336	Transportation Equipment	429	172	6	4	203	4	8	Q	30	0	5.1
336112	Light Trucks and Utility Vehicles	57	W	*	1	36	*	W	0	3	0	0.9
337	Furniture and Related Products	64	24	*	1	25	1	1	0	11	0	9.5
339	Miscellaneous	71	35	*	1	32	1	0	0	2	0	8.3
	Total	22,666	2,839	255	152	6,468	3,070	1,956	385	8,271	730	2.4
	Northeast Census Region											
	RSE Column Factors:	1.2	1.3	1.1	1.8	1.1	1.8	0.7	0.8	1.1	0.3	
311	Food	92	22	5	W	56	W	2	0	W	0	20.1
311221	Wet Corn Milling	*	W	*	*	0	0	0	0	*	0	0.8
31131	Sugar	W	W	*	*	W	*	0	0	*	0	0.8
311421	Fruit and Vegetable Canning	W	1	Q	*	3	W	0	0	*	0	9.3
312	Beverage and Tobacco Products	13	3	1	*	7	*	0	0	1	0	4.2
3121	Beverages	12	W	1	W	W	W	0	0	1	0	4.6
3122	Tobacco	1	W	*	W	W	W	0	0	*	0	0.8
313	Textile Mills	W	5	3	1	14	W	0	0	*	0	21.7
314	Textile Product Mills	W	1	W	W	2	W	W	0	W	0	3.8
315	Apparel	W	2	0	*	W	W	0	0	0	0	23.5
316	Leather and Allied Products	W	*	*	*	1	*	0	0	*	0	9.6
321	Wood Products	22	4	*	2	4	W	0	0	11	0	10.9
321113	Sawmills	7	1	*	2	*	*	0	0	4	0	4.8
3212	Veneer, Plywood, and Engineered Woods	5	1	*	*	2	*	0	0	2	0	10
3219	Other Wood Products	10	2	*	1	2	W	0	0	5	0	17.1
322	Paper	284	28	37	W	73	W	W	0	127	0	3.3
322110	Pulp Mills	W	*	W	*	W	*	0	0	0	0	4.6
322121	Paper Mills, except Newsprint	218	10	25	1	48	1	15	0	118	0	2.8
322122	Newsprint Mills	7	W	W	*	0	0	0	0	0	0	0.8
322130	Paperboard Mills	28	3	W	W	W	W	W	0	W	0	2.4
323	Printing and Related Support	W	11	W	*	12	W	0	0	W	0	13.3
324	Petroleum and Coal Products	527	11	4	W	44	W	W	1	429	5	3.4
324110	Petroleum Refineries	477	9	3	1	36	1	*	0	427	0	1.4
324199	Other Petroleum and Coal Products	W	*	*	*	W	*	W	1	*	5	1
325	Chemicals	182	42	W	W	73	W	W	0	W	*	4.5

Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors
325110	Petrochemicals	W	*	0	*	*	0	0	0	*	0	1.5
325120	Industrial Gases	W	7	0	*	W	0	0	0	W	0	0.8
325181	Alkalies and Chlorine	W	W	*	*	*	W	0	0	W	0	0.8
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	3	W	1	6	W	0	0	W	0	2.5
325192	Cyclic Crudes and Intermediates	6	1	W	W	4	*	0	0	W	0	0.8
325193	Ethyl Alcohol	*	W	0	0	*	0	0	0	*	0	0.9
325199	Other Basic Organic Chemicals	W	3	W	*	7	W	0	0	W	0	5.4
325211	Plastics Materials and Resins	W	3	W	*	6	W	0	0	W	*	6.6
325212	Synthetic Rubber	W	*	0	*	*	W	0	0	W	0	0.7
325222	Noncellulosic Organic Fibers	*	W	W	0	*	W	0	0	*	0	5
325311	Nitrogenous Fertilizers	2	*	0	*	1	W	0	0	*	0	0.7
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	W	10	1	*	30	W	0	0	2	0	6.2
325412	Pharmaceutical Preparation	W	7	1	*	21	W	0	0	1	0	8.8
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	W	*	3	W	W	0	*	0	3.8
326	Plastics and Rubber Products	46	26	2	W	14	W	W	0	W	0	7.5
327	Nonmetallic Mineral Products	151	22	W	W	63	W	42	1	18	0	4.5
3272	Glass and Glass Products	40	7	W	W	30	W	*	0	W	0	2.7
327211	Flat Glass	11	1	0	W	9	*	*	0	W	0	0.8
327213	Glass Containers	13	3	0	*	10	*	0	0	*	0	0.7
327310	Cements	56	6	W	W	*	*	W	1	14	0	0.9
327410	Lime	W	W	0	*	*	W	W	0	1	0	0.8
327993	Mineral Wool	W	1	0	*	3	*	0	*	*	0	2.4
331	Primary Metals	W	51	*	W	W	1	W	12	W	114	5.4
331111	Iron and Steel Mills	W	21	0	W	W	W	W	*	W	114	3.4
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	W	*	W	0	W	0	0.8
3312	Steel Products from Purchased Steel	W	W	*	W	W	W	*	*	W	0	13.4
3313	Alumina and Aluminum	W	W	*	W	W	*	0	0	W	0	1
331312	Primary Aluminum	W	W	*	*	W	*	0	0	W	0	0.8
3314	Nonferrous Metals, except Aluminum	W	6	*	W	W	*	7	3	W	0	3.6
3315	Foundries	W	4	*	*	7	*	*	Q	*	0	3.7
331511	Iron Foundries	W	2	0	*	3	*	*	Q	*	0	4.6
331521	Aluminum Die-Casting Foundries	1	*	0	*	*	*	0	0	*	0	2.9
331524	Aluminum Foundries, except Die-Casting	3	1	*	*	2	*	0	0	*	0	1.3
332	Fabricated Metal Products	55	22	W	W	29	W	W	*	W	0	16
333	Machinery	W	13	*	*	12	W	0	0	W	0	14.1
334	Computer and Electronic Products	62	38	1	1	21	*	*	0	1	0	26.1
334413	Semiconductors and Related Devices	14	8	*	*	5	*	0	0	1	0	3.1
335	Electrical Equip., Appliances, and Components	W	7	*	*	10	W	0	0	*	0	13.4
336	Transportation Equipment	49	14	4	*	20	*	0	0	11	0	4.8
336112	Light Trucks and Utility Vehicles	2	W	0	W	W	*	0	0	W	0	0.7
337	Furniture and Related Products	W	3	0	W	3	W	0	0	W	0	10.5
339	Miscellaneous	W	9	*	1	10	W	0	0	W	0	11.4
	Total	1,874	334	68	30	541	27	329	14	651	119	3.6
	Midwest Census Region											
	RSE Column Factors:	1.2	1.1	1.1	1.4	1.3	1.8	0.5	0.8	1.2	0.4	
311	Food	538	97	4	2	252	1	159	1	23	0	9.6
311221	Wet Corn Milling	191	20	*	*	52	*	113	0	6	0	0.9

Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
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NAICS Code(a)	Subsector and Industry	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors
31131	Sugar	30	1	1	*	5	*	21	1	*	0	0.9
311421	Fruit and Vegetable Canning	7	1	*	*	5	*	0	0	*	0	2.9
312	Beverage and Tobacco Products	23	5	*	Q	10	*	6	0	1	0	4.1
3121	Beverages	22	W	*	W	W	W	6	0	1	0	4.1
3122	Tobacco	1	W	0	W	W	W	0	0	1	0	0.8
313	Textile Mills	W	1	0	*	1	W	0	0	*	0	6.3
314	Textile Product Mills	W	1	0	0	1	W	0	0	W	0	9.1
315	Apparel	W	1	0	0	1	*	0	0	*	0	12.9
316	Leather and Allied Products	4	1	0	*	3	*	0	0	*	0	12.8
321	Wood Products	47	10	W	W	13	1	W	0	20	0	4.8
321113	Sawmills	6	1	*	*	1	*	0	0	3	0	6.6
3212	Veneer, Plywood, and Engineered Woods	23	4	W	W	6	1	W	0	11	0	3.2
3219	Other Wood Products	17	5	0	*	5	*	0	0	Q	0	11.4
322	Paper	338	51	7	1	100	Q	81	4	93	0	3
322110	Pulp Mills	W	*	0	W	W	*	W	0	W	0	0.9
322121	Paper Mills, except Newsprint	212	28	5	1	52	*	63	4	60	0	2.1
322122	Newsprint Mills	4	W	0	*	W	*	W	0	W	0	0.9
322130	Paperboard Mills	62	8	W	W	W	W	W	0	W	0	5.6
323	Printing and Related Support	34	18	0	*	15	*	0	0	1	0	12.9
324	Petroleum and Coal Products	888	23	9	3	102	6	0	0	762	17	4.2
324110	Petroleum Refineries	858	21	8	1	84	5	0	0	740	0	2.3
324199	Other Petroleum and Coal Products	W	*	0	*	1	*	0	0	20	15	0.9
325	Chemicals	664	100	W	W	247	W	69	Q	W	16	4.8
325110	Petrochemicals	W	W	0	*	2	W	0	0	*	W	0.9
325120	Industrial Gases	W	21	0	0	W	0	0	0	W	0	1.2
325181	Alkalies and Chlorine	W	W	0	*	1	W	W	0	*	0	4
325182	Carbon Black	W	*	W	0	W	*	0	0	*	0	0.8
325188	Other Basic Inorganic Chemicals	45	7	W	*	W	W	W	*	6	*	2
325192	Cyclic Crudes and Intermediates	W	W	W	*	6	*	0	0	*	0	0.8
325193	Ethyl Alcohol	58	4	0	*	28	*	19	0	W	W	4.7
325199	Other Basic Organic Chemicals	75	14	0	*	20	W	W	0	W	W	2.6
325211	Plastics Materials and Resins	W	15	W	*	20	W	W	*	W	W	2.4
325212	Synthetic Rubber	W	1	0	*	1	W	W	0	W	0	1.6
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	88	4	0	*	83	0	0	0	1	0	0.8
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	W	14	*	2	18	W	9	0	1	0	6.2
325412	Pharmaceutical Preparation	W	12	*	*	13	W	9	0	*	0	2.4
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	0	*	W	0	0	0	0	3.3
326	Plastics and Rubber Products	140	67	1	*	48	W	W	0	W	0	13.2
327	Nonmetallic Mineral Products	304	36	W	9	112	W	85	2	59	0	4.7
3272	Glass and Glass Products	58	12	0	W	44	W	0	0	W	0	1.4
327211	Flat Glass	19	2	0	W	16	*	0	0	W	0	0.8
327213	Glass Containers	16	3	0	*	13	*	0	0	*	0	0.8
327310	Cements	117	10	0	1	6	*	55	*	45	0	3.3
327410	Lime	48	2	W	*	4	W	30	*	12	0	0.9
327993	Mineral Wool	20	5	0	*	14	*	0	1	*	0	1.2
331	Primary Metals	1,085	189	*	8	363	1	246	246	58	27	1.9
331111	Iron and Steel Mills	799	77	*	W	251	W	242	230	W	27	2
331112	Electrometallurgical Ferroalloy Products	W	8	0	W	7	*	2	*	W	0	0.9
3312	Steel Products from Purchased Steel	W	7	0	W	14	W	*	0	W	0	9.3
3313	Alumina and Aluminum	W	54	0	*	31	*	0	0	W	0	2.9

Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors
331312	Primary Aluminum	W	47	0	*	W	*	0	0	W	0	0.8
3314	Nonferrous Metals, except Aluminum	W	9	*	W	13	1	*	3	W	0	4.2
3315	Foundries	W	33	*	*	47	*	1	12	1	0	2.5
331511	Iron Foundries	W	19	0	*	16	*	1	12	1	0	3.5
331521	Aluminum Die-Casting Foundries	17	5	*	*	12	*	0	0	*	0	2.8
331524	Aluminum Foundries, except Die-Casting	11	3	0	*	8	*	0	0	*	0	2.7
332	Fabricated Metal Products	183	73	W	W	100	W	W	Q	W	0	14.4
333	Machinery	92	39	0	2	47	W	1	0	W	0	11.4
334	Computer and Electronic Products	32	18	0	*	13	*	0	0	1	0	7
334413	Semiconductors and Related Devices	3	2	0	*	1	*	0	0	*	0	1.3
335	Electrical Equip., Appliances, and Components	37	17	*	*	19	*	*	0	*	0	7
336	Transportation Equipment	241	94	*	W	120	2	W	Q	15	0	11.5
336112	Light Trucks and Utility Vehicles	36	10	*	W	24	*	W	0	W	0	0.9
337	Furniture and Related Products	25	8	0	W	12	W	W	0	W	0	13.1
339	Miscellaneous	19	10	*	*	9	*	0	0	*	0	6.9
	Total	4,702	858	W	W	1,588	164	676	261	1,152	60	3.6
	South Census Region											
	RSE Column Factors:	1.1	1.3	1.1	1.6	1.2	1.9	0.8	0.6	1.1	0.4	
311	Food	323	78	Q	6	169	2	10	0	53	0	7.2
311221	Wet Corn Milling	20	4	0	*	5	*	8	0	4	0	0.8
31131	Sugar	57	1	1	1	10	*	2	0	42	0	0.8
311421	Fruit and Vegetable Canning	14	2	*	Q	11	Q	0	0	*	0	7.3
312	Beverage and Tobacco Products	45	12	1	Q	19	*	11	0	2	0	3
3121	Beverages	27	8	*	Q	15	*	1	0	2	0	3.3
3122	Tobacco	18	4	1	*	3	*	10	0	*	0	0.8
313	Textile Mills	169	77	1	1	53	*	22	0	15	0	16
314	Textile Product Mills	51	13	W	W	24	W	W	0	W	0	18.3
315	Apparel	15	7	*	Q	7	*	0	0	*	0	19.4
316	Leather and Allied Products	1	*	0	*	*	*	0	0	*	0	5.1
321	Wood Products	214	39	W	W	25	2	W	0	140	0	6.5
321113	Sawmills	69	11	0	2	3	*	0	0	53	0	8.3
3212	Veneer, Plywood, and Engineered Woods	101	20	W	W	17	1	W	0	60	0	7
3219	Other Wood Products	38	7	0	1	3	*	0	0	27	0	10.8
322	Paper	1,434	103	51	9	243	2	138	0	889	0	1.6
322110	Pulp Mills	194	4	10	W	W	*	W	0	156	0	0.8
322121	Paper Mills, except Newsprint	473	31	15	2	79	*	61	0	284	0	1.4
322122	Newsprint Mills	48	17	*	*	W	*	W	0	W	0	0.8
322130	Paperboard Mills	673	34	27	W	108	W	W	0	433	0	2.3
323	Printing and Related Support	28	15	W	*	11	W	0	0	*	0	6.7
324	Petroleum and Coal Products	4,304	76	8	W	563	7	W	1	3,446	59	4.5
324110	Petroleum Refineries	4,012	73	5	2	544	6	0	0	3,382	0	1.7
324199	Other Petroleum and Coal Products	Q	*	0	*	W	*	W	1	63	59	2.4
325	Chemicals	5,417	341	W	W	1,865	2,839	W	1	544	488	4
325110	Petrochemicals	W	W	W	*	207	W	W	0	80	W	0.9
325120	Industrial Gases	103	37	0	*	W	W	0	0	W	0	4.1
325181	Alkalies and Chlorine	W	30	0	*	W	W	W	0	W	W	0.9
325182	Carbon Black	W	2	W	*	W	*	0	0	W	0	0.8
325188	Other Basic Inorganic Chemicals	116	68	W	1	38	W	W	0	W	0	2.5
325192	Cyclic Crudes and Intermediates	85	10	W	W	32	19	*	0	24	0	0.8

Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors
325193	Ethyl Alcohol	*	W	0	*	*	*	0	0	*	0	0.8
325199	Other Basic Organic Chemicals	1,734	61	12	1	557	718	W	0	328	W	6.7
325211	Plastics Materials and Resins	1,626	54	W	1	387	1,149	W	0	43	W	2.8
325212	Synthetic Rubber	51	5	*	*	27	W	W	0	W	*	4.6
325222	Noncellulosic Organic Fibers	63	14	W	*	31	W	W	0	5	0	0.8
325311	Nitrogenous Fertilizers	342	6	0	*	335	*	0	0	*	0	0.8
325312	Phosphatic Fertilizers	30	2	1	1	25	*	1	1	*	0	0.9
3254	Pharmaceuticals and Medicines	W	9	1	*	9	*	0	0	4	0	7.5
325412	Pharmaceutical Preparation	14	6	1	*	4	*	0	0	3	0	10.8
325992	Photographic Film, Paper, Plate, and Chemicals	5	3	W	*	2	W	0	0	*	0	3.7
326	Plastics and Rubber Products	141	73	5	W	57	W	0	0	W	0	11.9
327	Nonmetallic Mineral Products	424	61	W	10	185	W	116	8	44	0	5.1
3272	Glass and Glass Products	80	17	W	W	61	W	*	0	1	0	1.9
327211	Flat Glass	25	3	W	W	21	*	*	0	1	0	0.8
327213	Glass Containers	22	4	0	*	18	*	0	0	*	0	0.8
327310	Cements	149	17	0	2	10	*	89	7	24	0	3.4
327410	Lime	39	2	0	*	3	*	23	0	11	0	0.8
327993	Mineral Wool	22	5	0	*	16	*	0	1	*	0	3.3
331	Primary Metals	668	206	*	W	234	1	W	96	81	2	1.8
331111	Iron and Steel Mills	319	74	*	W	110	*	W	89	W	2	1.7
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	W	*	W	*	W	0	11.3
3312	Steel Products from Purchased Steel	11	W	0	W	W	*	*	0	W	0	10.9
3313	Alumina and Aluminum	W	99	0	W	85	*	*	*	W	0	2.1
331312	Primary Aluminum	172	85	0	*	W	*	*	0	W	0	0.8
3314	Nonferrous Metals, except Aluminum	W	11	0	*	14	*	1	Q	1	0	4.4
3315	Foundries	40	14	0	*	18	*	1	6	*	0	1.3
331511	Iron Foundries	20	6	0	*	8	*	*	6	*	0	1.5
331521	Aluminum Die-Casting Foundries	4	1	0	*	3	*	0	0	*	0	1.5
331524	Aluminum Foundries, except Die-Casting	4	1	0	*	3	*	0	0	*	0	3.1
332	Fabricated Metal Products	121	52	W	W	66	2	W	0	Q	0	13.1
333	Machinery	43	25	0	*	17	W	0	0	Q	0	8.9
334	Computer and Electronic Products	40	31	0	*	8	*	0	0	*	0	6.7
334413	Semiconductors and Related Devices	16	12	0	*	3	*	0	0	*	0	2.7
335	Electrical Equip., Appliances, and Components	109	21	*	*	18	1	*	*	69	0	8.8
336	Transportation Equipment	102	48	2	W	44	1	W	0	4	0	4.8
336112	Light Trucks and Utility Vehicles	19	W	0	W	W	*	0	0	W	0	0.8
337	Furniture and Related Products	25	11	0	W	8	1	W	0	5	0	16.1
339	Miscellaneous	19	10	*	*	8	*	0	0	*	0	13.1
	Total	13,692	1,300	W	W	3,625	2,862	845	105	5,297	549	2.7
	West Census Region											
	RSE Column Factors:	1.3	1.4	0.7	1.6	1.4	2	0.7	0.5	1.1	0.4	
311	Food	171	34	*	W	105	W	13	*	W	0	6.8
311221	Wet Corn Milling	5	W	0	*	4	*	0	0	1	0	3.2
31131	Sugar	W	W	*	*	W	*	13	*	3	0	0.9
311421	Fruit and Vegetable Canning	W	2	*	*	17	W	0	0	*	0	6.3
312	Beverage and Tobacco Products	23	6	0	*	10	*	0	0	7	0	3.5
3121	Beverages	23	6	0	*	10	*	0	0	7	0	3.5
3122	Tobacco	*	*	0	0	0	0	0	0	0	0	0.7
313	Textile Mills	W	3	0	0	Q	W	0	0	1	0	8.5

Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors
314	Textile Product Mills	W	1	0	0	1	W	0	0	0	0	15.6
315	Apparel	W	3	0	*	W	W	0	0	*	0	25.6
316	Leather and Allied Products	W	*	0	*	*	0	0	0	0	0	25.9
321	Wood Products	94	17	1	3	15	W	0	0	56	0	5.4
321113	Sawmills	46	6	*	2	6	*	0	0	32	0	6
3212	Veneer, Plywood, and Engineered Woods	38	8	0	*	7	*	0	0	22	0	4.5
3219	Other Wood Products	8	3	0	*	2	W	0	0	Q	0	10.7
322	Paper	307	42	5	W	88	W	W	0	168	0	1.3
322110	Pulp Mills	W	1	W	W	W	*	0	0	W	0	0.8
322121	Paper Mills, except Newsprint	99	9	3	*	27	*	0	0	60	0	1.7
322122	Newsprint Mills	34	16	W	*	W	*	0	0	W	0	0.8
322130	Paperboard Mills	145	11	W	W	43	W	W	0	87	0	0.9
323	Printing and Related Support	W	6	0	*	8	W	0	0	W	0	15.3
324	Petroleum and Coal Products	1,080	17	5	W	168	W	0	0	882	3	6.2
324110	Petroleum Refineries	1,044	19	5	1	157	8	0	0	855	0	5.3
324199	Other Petroleum and Coal Products	23	-2	0	*	2	0	0	0	26	3	0.9
325	Chemicals	202	40	W	W	122	W	W	2	W	0	3.3
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	W	W	0	0	W	*	0	0	0	0	1
325181	Alkalies and Chlorine	31	6	0	*	W	*	W	0	W	0	0.8
325182	Carbon Black	*	*	W	0	*	*	0	0	W	0	0.8
325188	Other Basic Inorganic Chemicals	W	10	W	*	W	W	W	2	W	0	1.4
325192	Cyclic Crudes and Intermediates	W	W	0	*	*	*	0	0	W	0	0.7
325193	Ethyl Alcohol	2	*	0	*	1	*	0	0	W	0	0.7
325199	Other Basic Organic Chemicals	W	1	W	*	3	*	0	0	W	0	5.3
325211	Plastics Materials and Resins	W	1	0	*	1	W	0	0	*	0	2.6
325212	Synthetic Rubber	*	*	0	0	*	*	0	0	*	0	0.7
325222	Noncellulosic Organic Fibers	*	*	0	0	0	*	0	0	0	0	0.6
325311	Nitrogenous Fertilizers	66	2	0	*	65	W	*	0	*	0	0.8
325312	Phosphatic Fertilizers	8	2	0	*	6	*	0	0	*	0	0.7
3254	Pharmaceuticals and Medicines	9	4	0	*	5	W	0	0	*	0	3.6
325412	Pharmaceutical Preparation	5	2	0	*	3	*	0	0	*	0	3.7
325992	Photographic Film, Paper, Plate, and Chemicals	3	W	0	*	2	W	0	0	0	0	0.6
326	Plastics and Rubber Products	24	15	0	*	9	W	0	0	W	0	11.8
327	Nonmetallic Mineral Products	180	22	W	W	62	W	67	*	15	0	3.2
3272	Glass and Glass Products	24	5	W	W	17	*	0	0	W	0	0.9
327211	Flat Glass	8	1	W	W	5	*	0	0	W	0	0.8
327213	Glass Containers	14	3	0	*	11	*	0	0	*	0	0.7
327310	Cements	87	9	W	W	5	*	W	*	12	0	1.2
327410	Lime	W	W	W	*	1	*	W	0	2	0	0.8
327993	Mineral Wool	W	2	0	*	3	*	0	*	*	0	1
331	Primary Metals	W	46	0	2	W	*	W	1	W	0	1.6
331111	Iron and Steel Mills	W	13	0	*	W	*	W	*	W	0	2.6
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	*	*	0	0	W	0	0.7
3312	Steel Products from Purchased Steel	W	W	0	*	W	*	0	0	W	0	2.3
3313	Alumina and Aluminum	W	W	0	*	W	*	0	0	W	0	1.9
331312	Primary Aluminum	W	W	0	*	2	*	0	0	W	0	0.8
3314	Nonferrous Metals, except Aluminum	W	8	0	2	W	*	0	*	W	0	3.4
3315	Foundries	W	2	0	*	4	*	*	1	*	0	2
331511	Iron Foundries	W	1	0	*	1	*	*	1	*	0	0.9
331521	Aluminum Die-Casting Foundries	1	*	0	0	*	*	0	0	*	0	10.8
331524	Aluminum Foundries, except Die-Casting	1	*	0	*	1	*	0	0	*	0	1.9

Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors
332	Fabricated Metal Products	30	14	0	*	15	W	0	0	W	0	10.6
333	Machinery	W	7	0	*	6	*	0	0	W	0	10.8
334	Computer and Electronic Products	68	43	*	*	24	*	0	0	1	0	7.3
334413	Semiconductors and Related Devices	34	22	0	*	12	*	0	0	*	0	6.1
335	Electrical Equip., Appliances, and Components	W	3	0	*	Q	W	0	0	*	0	5
336	Transportation Equipment	36	16	0	*	18	*	0	0	1	0	11.3
336112	Light Trucks and Utility Vehicles	*	W	0	*	*	*	0	0	*	0	0.7
337	Furniture and Related Products	W	3	*	*	2	W	0	0	W	0	12.5
339	Miscellaneous	W	7	0	*	5	W	0	0	W	0	16.5
	Total	2,398	347	13	30	715	17	106	4	1,170	3	2.9

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

(b) 'Total' is the sum of all of the listed energy sources, including 'Other,' minus the shipments of energy sources produced onsite. It is the total amount of first use of energy for all (fuel and nonfuel) purposes.

(c) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

(d) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(e) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(f) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(g) 'Other' includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power or as feedstock/raw material inputs. See also Footnote 'i'.

(h) 'Shipments of Energy Sources Produced Onsite' are those shipments produced or transformed onsite from the nonfuel use of other energy sources. For example, at an establishment that processes coal to make coke for later use, the entire quantity of coal is counted as first use. Any onsite consumption of coke is not counted as first use because it would duplicate the coal use. If some of the coke is then sold to another establishment, then that second establishment will consider this coke to be a shipment of an offsite-produced energy source. Hence, the second establishment will count this coke as its first use, thereby resulting in double counting. In order to eliminate the double counting, the energy equivalent of the coke shipment must be subtracted from first use.

(i) For the petroleum refining industry only, the feedstocks and raw material inputs for the production of nonenergy products (i.e., asphalt, waxes, lubricants, and solvents) and feedstock consumption at adjoining petrochemical plants are included in the 'Other' column, regardless of type of energy. The remaining columns for the petroleum refining industry include only energy that was consumed for the production of heat and power. The 'Other' column also includes net steam and other energy that respondents indicated was used in the production of heat and power. Those inputs and feedstocks that were converted

Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors

to other energy products (e.g., crude oil converted to residual and distillate fuel oils) are excluded.

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. The derived estimates presented in this table are for the first use (formerly primary consumption) of energy for heat and power and as feedstocks or raw material inputs. First use is defined as the consumption of the energy that was originally produced offsite or was produced onsite from input materials not classified as energy. Examples of the latter are hydrogen produced from the electrolysis of brine; the output of captive (onsite) mines or wells; woodchips, bark, and woodwaste from wood purchased as a raw material input; and waste materials, such as wastepaper and packing materials. First use excludes quantities of energy that are produced from other energy inputs and, therefore, avoids double counting.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002.

Table 1.3 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources and Shipments;
Unit: Trillion Btu.

Economic Characteristic(a)	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors
Total United States											
RSE Column Factors:	0.8	0.9	1.4	2.7	0.8	0.6	2	1.4	1.1	0.3	
Value of Shipments and Receipts (million dollars)											
Under 20	1,370	436	15	55	617	32	W	W	167	W	10.1
20-49	1,503	407	47	25	598	13	W	W	281	10	4.9
50-99	1,832	394	35	15	839	40	W	W	310	61	4.3
100-249	3,060	561	53	17	1,194	473	W	W	545	W	3.1
250-499	3,562	458	57	18	952	627	W	W	968	55	4.6
500 and Over	8,031	584	47	21	2,267	1,885	730	322	2,692	518	1.4
Not Ascertained (i)	3,307	0	0	0	0	0	0	0	3,307	0	0
Total	22,669	2,840	255	151	6,468	3,070	1,959	385	8,271	730	2.4
Employment Size											
Under 50	972	247	W	45	437	105	W	W	183	91	7
50-99	1,601	248	W	W	669	157	W	W	180	22	8.5
100-249	3,517	617	W	29	1,203	781	W	W	605	127	4.1
250-499	3,975	619	43	15	1,350	866	W	W	924	159	4
500-999	4,455	546	64	19	1,245	524	W	W	1,926	158	3
1000 and Over	4,839	564	W	W	1,564	637	713	323	1,147	173	1.5
Not Ascertained (i)	3,307	0	0	0	0	0	0	0	3,307	0	0
Total	22,669	2,840	255	151	6,468	3,070	1,959	385	8,271	730	2.4
Northeast Census Region											
RSE Column Factors:	0.8	1.4	1.4	2.3	1.2	1.3	0.8	0.9	0.8	0.3	
Value of Shipments and Receipts (million dollars)											
Under 20	264	89	W	W	105	W	W	W	15	5	10.9
20-49	223	58	11	6	80	W	W	W	21	*	6.3
50-99	205	52	11	3	95	W	11	W	29	0	4
100-249	265	59	17	2	80	17	W	W	66	*	2.5
250-499	165	26	W	W	72	W	W	0	52	0	2.5
500 and Over	476	49	16	2	108	1	220	0	193	114	1.1
Not Ascertained (i)	276	0	0	0	0	0	0	0	276	0	0
Total	1,877	334	68	30	541	27	332	14	651	119	3.6
Employment Size											
Under 50	132	39	3	10	53	3	W	W	17	0	13
50-99	164	53	8	W	67	W	W	W	11	0	16.1
100-249	326	74	14	8	110	19	W	W	37	W	4
250-499	267	67	15	3	106	1	W	W	69	0	3.2
500-999	338	52	18	2	99	W	W	W	150	0	2.5

Table 1.3 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources and Shipments;
Unit: Trillion Btu.

Economic Characteristic(a)	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors
1000 and Over	372	48	10	W	105	W	228	0	92	W	1.5
Not Ascertained (i)	276	0	0	0	0	0	0	0	276	0	0
Total	1,877	334	68	30	541	27	332	14	651	119	3.6
Midwest Census Region											
RSE Column Factors:	0.8	0.9	1.8	3.4	0.9	1.2	1.1	0.9	1.2	0.2	
Value of Shipments and Receipts (million dollars)											
Under 20	525	146	W	W	247	W	W	W	91	17	13.5
20-49	390	119	8	3	180	W	23	W	59	8	7.1
50-99	574	128	1	4	286	W	W	W	48	2	9.6
100-249	574	140	5	3	236	14	103	6	68	*	3.4
250-499	496	141	W	W	179	W	76	W	90	0	8.6
500 and Over	1,741	185	11	11	460	113	364	234	395	33	1.9
Not Ascertained (i)	401	0	0	0	0	0	0	0	401	0	0
Total	4,701	858	28	32	1,588	164	675	261	1,152	59	3.7
Employment Size											
Under 50	331	78	W	4	160	16	21	W	Q	W	7.5
50-99	347	70	W	W	217	W	21	W	25	W	10.7
100-249	757	169	W	6	297	11	128	W	136	W	9.3
250-499	979	202	3	5	323	123	162	W	159	W	6.5
500-999	649	138	4	2	196	3	55	9	243	0	2.7
1000 and Over	1,237	201	W	W	395	W	289	235	121	W	2.7
Not Ascertained (i)	401	0	0	0	0	0	0	0	401	0	0
Total	4,701	858	28	32	1,588	164	675	261	1,152	59	3.7
South Census Region											
RSE Column Factors:	1	1.1	1.2	2.8	1	0.6	2.7	0.6	1	0.3	
Value of Shipments and Receipts (million dollars)											
Under 20	387	144	Q	16	164	W	W	W	47	W	10.5
20-49	671	170	27	10	261	W	W	W	146	0	7.8
50-99	844	170	21	5	368	23	W	W	190	59	3.7
100-249	1,769	273	28	11	690	441	76	W	297	W	4.2
250-499	2,665	241	46	10	624	625	W	W	730	55	3.3
500 and Over	5,094	302	19	7	1,517	1,763	145	88	1,624	371	1.2
Not Ascertained (i)	2,263	0	0	0	0	0	0	0	2,263	0	0
Total	13,692	1,301	146	59	3,625	2,862	845	105	5,297	549	2.7
Employment Size											
Under 50	356	94	Q	16	159	W	W	W	67	W	7

Table 1.3 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources and Shipments;
Unit: Trillion Btu.

Economic Characteristic(a)	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors
50-99	929	91	26	6	310	W	W	W	130	W	9.3
100-249	1,948	280	38	10	653	747	W	W	242	W	3.8
250-499	2,206	264	20	6	708	739	W	W	503	W	2.4
500-999	3,077	307	41	14	832	519	203	5	1,314	158	3.7
1000 and Over	2,912	264	19	6	963	629	195	87	779	31	1.5
Not Ascertained (i)	2,263	0	0	0	0	0	0	0	2,263	0	0
Total	13,692	1,301	146	59	3,625	2,862	845	105	5,297	549	2.7
West Census Region											
RSE Column Factors:	1.2	1.4	0.6	4	1.7	3.5	0.5	0.3	1.4	0.3	
Value of Shipments and Receipts (million dollars)											
Under 20	194	58	1	14	100	2	W	W	14	0	7.5
20-49	220	60	1	5	77	4	22	*	54	3	3.8
50-99	209	44	2	3	89	1	W	W	44	0	3.9
100-249	452	88	4	2	189	1	52	2	115	0	2.1
250-499	236	51	3	5	77	1	W	W	97	0	4.3
500 and Over	720	46	2	1	183	7	0	0	480	0	3.8
Not Ascertained (i)	367	0	0	0	0	0	0	0	367	0	0
Total	2,398	347	13	30	715	17	106	4	1,170	3	3
Employment Size											
Under 50	152	35	*	15	65	W	W	*	30	3	5.5
50-99	160	33	1	3	74	W	W	*	15	0	6.8
100-249	486	94	5	5	143	3	46	2	190	0	3.4
250-499	523	87	6	1	213	3	18	1	194	0	3.4
500-999	392	48	1	1	118	W	W	*	220	0	1.8
1000 and Over	318	51	*	6	102	4	*	0	155	0	1.8
Not Ascertained (i)	367	0	0	0	0	0	0	0	367	0	0
Total	2,398	347	13	30	715	17	106	4	1,170	3	3

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

(b) 'Total' is the sum of all of the listed energy sources, including 'Other,' minus the shipments of energy sources produced onsite. It is the total amount of first use of energy for all (fuel and nonfuel) purposes.

(c) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

(d) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

Table 1.3 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources and Shipments;
Unit: Trillion Btu.

Economic Characteristic(a)	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors

(e) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(f) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(g) 'Other' includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power or as feedstock/raw material inputs. See also Footnote 'i'.

(h) 'Shipments of Energy Sources Produced Onsite' are those shipments produced or transformed onsite from the nonfuel use of other energy sources. For example, at an establishment that processes coal to make coke for later use, the entire quantity of coal is counted as first use. Any onsite consumption of coke is not counted as first use because it would duplicate the coal use. If some of the coke is then sold to another establishment, then that second establishment will consider this coke to be a shipment of an offsite-produced energy source. Hence, the second establishment will count this coke as its first use, thereby resulting in double counting. In order to eliminate the double counting, the energy equivalent of the coke shipment must be subtracted from first use.

(i) The entry in the 'Not Ascertained' row and the 'Other' column consists of the feedstocks and raw material inputs that were consumed by petroleum refineries for the production of nonenergy products (i.e., asphalt, waxes, lubricants, and solvents), as well as feedstock consumption at adjoining petrochemical plants. That entry includes all of those inputs, regardless of type. Those inputs that were converted to other energy products by petroleum refineries (e.g., crude oil converted to residual and distillate fuel oils) are excluded. The quantities of energy consumed by petroleum refineries for the production of heat and power are included in the appropriate 'Value of Shipments and Receipts' or 'Employment Size' rows.

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. The derived estimates presented in this table are for the first use (formerly primary consumption) of energy for heat and power and as feedstocks or raw material inputs. First use is defined as the consumption of the energy that was originally produced offsite or was produced onsite from input materials not classified as energy. Examples of the latter are hydrogen produced from the electrolysis of brine; the output of captive (onsite) mines or wells; woodchips, bark, and woodwaste from wood purchased as a raw material input; and waste materials, such as wastepaper and packing materials. First use excludes quantities of energy that are produced

Table 1.3 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources and Shipments;
Unit: Trillion Btu.

Economic Characteristic(a)	Total(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)	RSE Row Factors

from other energy inputs and, therefore, avoids double counting.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002, and the Bureau of the Census, data files for the '2002 Economic Census, Manufacturing - Industry Series.'

Table 1.4 Number of Establishments by First Use of Energy for All Purposes (Fuel and Nonfuel), 2002
Level: National Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Energy Source(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)
	Total United States										
	RSE Column Factors:	0.7	0.7	1.4	1.2	0.9	1.3	1.1	1.2	1.3	0.5
311	Food	15,089	15,045	275	2,536	12,106	3,159	91	23	1,911	0
311221	Wet Corn Milling	49	49	3	20	47	14	19	0	15	0
31131	Sugar	77	77	18	41	63	31	24	23	45	0
311421	Fruit and Vegetable Canning	468	468	40	128	416	229	0	0	153	0
312	Beverage and Tobacco Products	1,595	1,595	49	254	1,132	630	17	0	188	0
3121	Beverages	1,517	1,517	38	224	1,075	586	9	0	166	0
3122	Tobacco	78	78	11	30	57	44	8	0	22	0
313	Textile Mills	2,247	2,247	145	365	1,388	865	48	0	209	0
314	Textile Product Mills	3,457	3,456	16	82	2,245	592	27	0	162	0
315	Apparel	5,500	5,500	26	311	3,014	608	0	0	182	0
316	Leather and Allied Products	685	699	W	31	568	71	0	0	Q	0
321	Wood Products	10,486	10,460	73	2,959	4,600	4,273	W	0	2,826	0
321113	Sawmills	2,235	2,209	4	1,151	476	581	0	0	930	0
3212	Veneer, Plywood, and Engineered Woods	1,478	1,478	8	476	774	771	W	0	511	0
3219	Other Wood Products	6,461	6,461	55	1,148	3,153	2,794	0	0	1,303	0
322	Paper	4,257	4,257	242	556	3,481	2,197	103	W	503	0
322110	Pulp Mills	34	34	15	25	26	18	W	0	24	0
322121	Paper Mills, except Newsprint	323	323	111	158	267	215	55	W	172	0
322122	Newsprint Mills	21	21	4	15	16	12	4	0	16	0
322130	Paperboard Mills	210	210	57	96	185	148	39	0	103	0
323	Printing and Related Support	20,220	20,220	136	195	13,304	1,879	0	0	605	0
324	Petroleum and Coal Products	1,916	1,916	121	915	1,409	526	44	W	429	15
324110	Petroleum Refineries	215	215	40	91	198	94	9	0	173	0
324199	Other Petroleum and Coal Products	47	47	W	26	30	10	14	W	32	14
325	Chemicals	8,909	8,909	277	1,789	6,767	3,372	163	17	2,055	47
325110	Petrochemicals	37	37	W	11	33	26	W	0	21	16
325120	Industrial Gases	527	527	0	5	179	9	0	0	103	0
325181	Alkalies and Chlorine	33	33	W	13	29	7	7	0	17	W
325182	Carbon Black	22	22	11	11	22	4	0	0	14	0
325188	Other Basic Inorganic Chemicals	515	515	16	106	317	222	5	3	136	W
325192	Cyclic Crudes and Intermediates	37	37	4	17	36	16	W	0	21	0
325193	Ethyl Alcohol	48	48	0	11	46	12	18	0	29	W
325199	Other Basic Organic Chemicals	578	578	30	267	483	365	47	0	359	13
325211	Plastics Materials and Resins	709	709	62	169	588	415	16	W	255	13
325212	Synthetic Rubber	125	125	24	32	103	60	W	0	46	W
325222	Noncellulosic Organic Fibers	64	64	19	24	50	31	W	0	27	0
325311	Nitrogenous Fertilizers	56	56	0	23	44	11	W	0	23	0
325312	Phosphatic Fertilizers	27	27	5	19	21	10	W	W	12	0
3254	Pharmaceuticals and Medicines	1,143	1,143	56	328	917	308	6	0	169	0
325412	Pharmaceutical Preparation	606	606	11	131	507	126	6	0	77	0
325992	Photographic Film, Paper, Plate, and Chemicals	171	171	4	51	162	69	W	0	48	0
326	Plastics and Rubber Products	10,538	10,538	81	728	8,022	3,991	7	0	1,383	0
327	Nonmetallic Mineral Products	11,593	11,516	27	4,209	7,328	3,127	195	22	2,206	0
3272	Glass and Glass Products	1,047	1,047	3	161	979	329	W	0	215	0
327211	Flat Glass	38	38	W	22	38	28	W	0	23	0
327213	Glass Containers	61	61	0	44	61	51	0	0	46	0
327310	Cements	195	195	3	129	136	64	109	W	119	0
327410	Lime	65	65	7	51	44	29	45	W	54	0
327993	Mineral Wool	207	207	0	39	183	68	0	14	39	0
331	Primary Metals	4,166	4,166	44	1,059	3,600	1,885	75	165	1,466	9
331111	Iron and Steel Mills	771	771	5	279	448	168	37	28	180	9
331112	Electrometallurgical Ferroalloy Products	15	15	0	10	15	6	4	W	8	0

Table 1.4 Number of Establishments by First Use of Energy for All Purposes (Fuel and Nonfuel), 2002
Level: National Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Energy Source(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)
3312	Steel Products from Purchased Steel	548	548	13	167	504	303	8	W	223	0
3313	Alumina and Aluminum	446	446	W	119	423	194	W	W	168	0
331312	Primary Aluminum	41	41	W	26	41	22	W	0	27	0
3314	Nonferrous Metals, except Aluminum	671	671	W	111	629	317	W	21	250	0
3315	Foundries	1,715	1,715	13	374	1,582	897	18	111	639	0
331511	Iron Foundries	453	453	0	223	396	253	16	111	198	0
331521	Aluminum Die-Casting Foundries	227	227	W	12	215	126	0	0	84	0
331524	Aluminum Foundries, except Die-Casting	341	341	W	38	304	152	0	0	118	0
332	Fabricated Metal Products	35,349	35,349	201	3,016	26,976	13,621	73	66	8,461	0
333	Machinery	17,381	17,381	14	1,158	14,123	5,965	W	0	3,358	0
334	Computer and Electronic Products	9,238	9,292	23	661	6,629	987	W	0	750	0
334413	Semiconductors and Related Devices	578	632	W	93	434	63	0	0	86	0
335	Electrical Equip., Appliances, and Components	3,886	3,886	18	339	3,349	1,451	W	W	765	0
336	Transportation Equipment	7,653	7,653	33	1,185	5,994	3,253	20	W	2,059	0
336112	Light Trucks and Utility Vehicles	42	42	3	25	41	19	W	0	32	0
337	Furniture and Related Products	10,941	10,941	62	658	6,144	2,833	99	0	940	0
339	Miscellaneous	15,605	15,605	W	346	11,171	3,715	0	0	1,741	0
	Total	200,710	200,630	1,877	23,352	143,350	59,000	971	304	32,238	72

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

(b) 'Any Energy Source' represents the non-duplicative total of establishments identified with any of the listed energy sources. This count includes only those establishments that reported this activity in 2002.

(c) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal)

(d) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(e) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers and any marketing subsidiaries of utilities.

(f) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(g) 'Other' includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power or as feedstock/raw material inputs. See also Footnote 'i'.

(h) 'Shipments of Energy Sources Produced Onsite' are those shipments produced or transformed onsite from the nonfuel use of other energy sources. For example, at an establishment that processes coal to make coke for later use, the entire quantity of coal is counted as first use Any onsite consumption of coke is not counted as first use because it would duplicate the coal use. If some of the coke is then sold to another establishment, then that second establishment will consider this coke to be a shipment of an offsite-produced energy source Hence, the second establishment will count this coke as its first use, thereby resulting in double counting. In order to eliminate the double counting, the energy equivalent of the coke shipment must be subtracted from first use.

(i) For the petroleum refining industry only, the feedstocks and raw material inputs for the production of nonenergy products (i.e., asphalt, waxes lubricants, and solvents) and feedstock consumption at adjoining petrochemical plants are included in the 'Other' column, regardless of type of energy. The

Table 1.4 Number of Establishments by First Use of Energy for All Purposes (Fuel and Nonfuel), 2002
Level: National Data;
Row: NAICS Codes; Column: Energy Sources and Shipments;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Energy Source(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)

remaining columns for the petroleum refining industry include only energy tha
was consumed for the production of heat and power. The 'Other' column alsc
includes net steam and other energy that respondents indicated was used in the
production of heat and power. Those inputs and feedstocks that were convertec
to other energy products (e.g., crude oil converted to residual and distillate
fuel oils) are excluded.

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. The derived estimates presentec
in this table are for the first use (formerly primary consumption) of energy for heat anc
power and as feedstocks or raw material inputs. First use is defined as the
consumption of the energy that was originally produced offsite or was producec
onsite from input materials not classified as energy. Examples of the latter
are hydrogen produced from the electrolysis of brine; the output of captive
(onsite) mines or wells; woodchips, bark, and woodwaste from wood purchased as
a raw material input; and waste materials, such as wastepaper and packing
materials. First use excludes quantities of energy that are producec
from other energy inputs and, therefore, avoids double counting

Source: Energy Information Administration, Office of Energy Markets
and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing
Energy Consumption Survey,' and Office of Oil and Gas, Petroleum
Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002

RSE Row Factors
4.7
0.9
0.9
7
10.3
12
0.9
4.9
9.8
9.3
5.8
1.6
2.5
3
1.9
1.7
0.9
3.4
0.9
1.6
4.7
5.6
1.3
1
2
1
7.4
1.1
0.9
4.6
0.9
1.1
1.9
2
2.9
0.9
1
0.9
3.1
5.8
4
1.7
5.4
4.3
0.9
1
2.8
0.9
12.6
2.9
3.6
1

RSE Row Factors
3.6
2.5
1.6
2.4
4.6
5.2
1.2
4.3
4.6
2.1
2
3.4
4.7
1.6
0.9
6.2
1.9
1.9

RSE Row Factors

Table 1.5 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National Data;
Row: Energy Sources and Shipments, including Further Classification of 'Other' Energy Sources;
Column: First Use per Energy Sources and Shipments;
Unit: Trillion Btu.

Energy Source	Total First Use	RSE Row Factors
	Total United States	
RSE Column Factor:	1.0	
Coal	1,959	10.0
Natural Gas	6,468	1.3
Net Electricity	2,840	1.4
Purchases	2,882	1.4
Transfers In	35	2.6
Onsite Generation from Noncombustible Renewable Energy	8	1.5
Sales and Transfers Offsite	86	0.7
Coke and Breeze	385	1.7
Residual Fuel Oil	255	2.3
Distillate Fuel Oil	151	5.6
Liquefied Petroleum Gases and Natural Gas Liquids	3,070	0.6
Other	8,269	1.4
Asphalt and Road Oil (a)	1,216	-
Lubricants (a)	409	-
Naphtha < 401 Degrees (a)	717	-
Other Oils ≥ 401 Degrees (a)	674	-
Special Naphthas (a)	123	-
Waxes (a)	46	-
Miscellaneous Nonfuel Products (a)	121	-
Kerosene	38	1.3
Motor Gasoline	8	11.9
Crude Oil for Fuel	0	0
Petroleum Coke	974	3.2
Still Gas/Waste Gas	1,484	2.5
Pulping Liquor or Black Liquor	820	0
Biomass Total	601	1.5
Agricultural Waste	40	3.7
Wood Harvested Directly from Trees	35	5.3
Wood Residues and Byproducts from Mill Processing	510	1.7
Wood-Related and Paper-Related Refuse	16	9.4
Net Steam/Hot Water	824	5.6
Miscellaneous	214	3.1
Shipments of Energy Sources Produced Onsite (b)	733	0
Total (c)	22,665	1.4

(a) These nonenergy products are produced from feedstocks and raw material inputs used by the petroleum refining industry. The energy content of these products is included in 'Other' to account for their production.

Table 1.5 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;
Level: National Data;
Row: Energy Sources and Shipments, including Further Classification of 'Other' Energy Sources;
Column: First Use per Energy Sources and Shipments;
Unit: Trillion Btu.

Energy Source	Total First Use	RSE Row Factors

(b) 'Shipments of Energy Sources Produced Onsite' are those shipments produced or transformed onsite from the nonfuel use of other energy sources. For example, at an establishment that processes coal to make coke for later use, the entire quantity of coal is counted as first use. Any onsite consumption of coke is not counted as first use because it would duplicate the coal use. If some of the coke is then sold to another establishment, then that second establishment will consider this coke to be a shipment of an offsite-produced energy source. Hence, the second establishment will count this coke as its first use, thereby resulting in double counting. In order to eliminate the double counting, the energy equivalent of the coke shipment must be subtracted from first use.

(c) 'Total' is the sum of all of the listed energy sources, including 'Other,' minus the shipments of energy sources produced onsite. It is the total amount of first use of energy for all (fuel and nonfuel) purposes.

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.

-- Estimation is not applicable. Energy source is not included in series.

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.'

Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)
	Total United States								
	RSE Column Factors:	1.4	0.4	1.6	1.2	1.2	1.1	0.7	1.2
311	Food	8	*	*	7	0	0	*	*
311221	Wet Corn Milling	*	0	*	0	0	0	0	*
31131	Sugar	*	0	*	*	0	0	*	*
311421	Fruit and Vegetable Canning	*	*	*	0	0	0	0	*
312	Beverage and Tobacco Products	1	*	*	*	0	0	0	1
3121	Beverages	*	*	*	0	0	0	0	*
3122	Tobacco	1	0	0	*	0	0	0	1
313	Textile Mills	1	0	*	1	0	0	0	*
314	Textile Product Mills	*	0	0	*	0	*	0	*
315	Apparel	0	0	0	0	0	0	0	0
316	Leather and Allied Products	*	0	0	0	0	0	0	*
321	Wood Products	4	*	*	0	0	0	0	*
321113	Sawmills	1	*	*	0	0	0	0	*
3212	Veneer, Plywood, and Engineered Woods	*	*	*	0	0	0	0	*
3219	Other Wood Products	*	0	*	0	0	0	0	*
322	Paper	1	*	*	0	*	*	0	*
322110	Pulp Mills	*	0	*	0	0	0	0	*
322121	Paper Mills, except Newsprint	*	0	*	0	*	0	0	*
322122	Newsprint Mills	*	0	*	0	0	0	0	*
322130	Paperboard Mills	1	*	*	0	0	*	0	*
323	Printing and Related Support	*	0	*	0	0	0	0	*
324	Petroleum and Coal Products	3,689	*	*	*	0	Q	*	3,407
324110	Petroleum Refineries	3,307	0	0	0	0	0	0	3,307
324199	Other Petroleum and Coal Products	370	*	*	*	0	Q	*	96
325	Chemicals	3,750	7	*	612	830	1	*	79
325110	Petrochemicals	939	0	0	36	252	0	0	2
325120	Industrial Gases	26	0	0	W	W	0	0	Q
325181	Alkalies and Chlorine	W	0	*	W	W	0	0	1
325182	Carbon Black	59	7	*	10	0	0	0	6
325188	Other Basic Inorganic Chemicals	27	0	*	8	3	0	*	6
325192	Cyclic Crudes and Intermediates	29	0	*	6	5	*	0	4
325193	Ethyl Alcohol	*	0	*	0	0	0	0	*
325199	Other Basic Organic Chemicals	937	0	*	158	198	1	0	45
325211	Plastics Materials and Resins	1,355	0	*	65	362	0	0	5
325212	Synthetic Rubber	6	0	*	*	1	0	0	*
325222	Noncellulosic Organic Fibers	3	0	*	1	0	0	0	1
325311	Nitrogenous Fertilizers	295	0	0	287	0	*	0	*
325312	Phosphatic Fertilizers	12	0	0	11	0	0	0	0
3254	Pharmaceuticals and Medicines	*	0	*	*	*	0	0	*

Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)
325412	Pharmaceutical Preparation	*	0	*	0	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	0	0	*	0	0	*
326	Plastics and Rubber Products	Q	0	*	0	Q	0	0	W
327	Nonmetallic Mineral Products	7	0	*	1	0	*	0	3
3272	Glass and Glass Products	1	0	*	*	0	*	0	1
327211	Flat Glass	1	0	0	0	0	*	0	1
327213	Glass Containers	0	0	0	0	0	0	0	0
327310	Cements	*	0	*	0	0	0	0	*
327410	Lime	*	0	*	0	0	*	0	*
327993	Mineral Wool	1	0	*	1	0	0	0	*
331	Primary Metals	646	0	*	34	*	17	1	129
331111	Iron and Steel Mills	502	0	*	29	*	17	*	5
331112	Electrometallurgical Ferroalloy Products	3	0	*	*	0	*	*	*
3312	Steel Products from Purchased Steel	Q	0	*	0	0	*	*	Q
3313	Alumina and Aluminum	122	0	*	5	0	*	0	117
331312	Primary Aluminum	117	0	0	0	0	*	0	117
3314	Nonferrous Metals, except Aluminum	7	0	*	*	0	*	*	2
3315	Foundries	7	0	*	*	*	*	*	1
331511	Iron Foundries	6	0	*	*	0	*	*	1
331521	Aluminum Die-Casting Foundries	*	0	*	*	0	0	0	*
331524	Aluminum Foundries, except Die-Casting	*	0	*	*	0	0	0	*
332	Fabricated Metal Products	1	0	*	Q	*	0	0	*
333	Machinery	2	0	*	*	*	0	0	Q
334	Computer and Electronic Products	1	0	*	*	0	0	0	1
334413	Semiconductors and Related Devices	1	0	0	*	0	0	0	1
335	Electrical Equip., Appliances, and Components	69	*	*	Q	*	*	*	68
336	Transportation Equipment	5	0	*	*	0	0	*	2
336112	Light Trucks and Utility Vehicles	1	0	*	0	0	0	0	*
337	Furniture and Related Products	*	0	*	0	0	0	0	*
339	Miscellaneous	*	0	*	*	*	0	0	*
	Total	8,189	7	2	657	831	31	1	3,693
	Northeast Census Region								
	RSE Column Factors:	1.7	0.3	1.3	3.3	0.9	0.6	0.6	1.4
311	Food	W	*	0	W	0	0	0	*
311221	Wet Corn Milling	0	0	0	0	0	0	0	0
31131	Sugar	*	0	0	*	0	0	0	0
311421	Fruit and Vegetable Canning	*	*	0	0	0	0	0	*
312	Beverage and Tobacco Products	0	0	0	0	0	0	0	0
3121	Beverages	0	0	0	0	0	0	0	0
3122	Tobacco	0	0	0	0	0	0	0	0

Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)
313	Textile Mills	0	0	0	0	0	0	0	0
314	Textile Product Mills	*	0	0	*	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0
321	Wood Products	W	*	W	0	0	0	0	*
321113	Sawmills	W	0	W	0	0	0	0	*
3212	Veneer, Plywood, and Engineered Woods	*	*	0	0	0	0	0	0
3219	Other Wood Products	W	0	W	0	0	0	0	*
322	Paper	W	0	W	0	0	0	0	*
322110	Pulp Mills	W	0	W	0	0	0	0	0
322121	Paper Mills, except Newsprint	W	0	W	0	0	0	0	*
322122	Newsprint Mills	0	0	0	0	0	0	0	0
322130	Paperboard Mills	W	0	W	0	0	0	0	*
323	Printing and Related Support	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	W	*	W	0	0	W	W	W
324110	Petroleum Refineries	276	0	0	0	0	0	0	276
324199	Other Petroleum and Coal Products	W	*	W	0	0	W	W	0
325	Chemicals	W	0	W	1	W	0	0	W
325110	Petrochemicals	W	0	0	0	0	0	0	W
325120	Industrial Gases	W	0	0	W	0	0	0	W
325181	Alkalies and Chlorine	W	0	0	0	0	0	0	W
325182	Carbon Black	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	0	0	W	W	0	0	W
325192	Cyclic Crudes and Intermediates	*	0	0	0	0	0	0	*
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	W	0	W	W	W	0	0	W
325211	Plastics Materials and Resins	W	0	0	0	W	0	0	W
325212	Synthetic Rubber	W	0	0	0	W	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	W	0	W	*	W	0	0	W
325412	Pharmaceutical Preparation	W	0	W	0	W	0	0	W
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	0	0	W	0	0	0
326	Plastics and Rubber Products	W	0	0	0	*	0	0	W
327	Nonmetallic Mineral Products	W	0	W	*	0	*	0	W
3272	Glass and Glass Products	W	0	W	*	0	*	0	*
327211	Flat Glass	*	0	0	0	0	*	0	*
327213	Glass Containers	0	0	0	0	0	0	0	0
327310	Cements	W	0	W	0	0	0	0	*
327410	Lime	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0
331	Primary Metals	222	0	W	0	W	W	W	W

Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)
331111	Iron and Steel Mills	W	0	0	0	0	W	W	W
331112	Electrometallurgical Ferroalloy Products	W	0	0	0	0	W	0	W
3312	Steel Products from Purchased Steel	W	0	0	0	0	*	*	W
3313	Alumina and Aluminum	W	0	0	0	0	0	0	W
331312	Primary Aluminum	W	0	0	0	0	0	0	W
3314	Nonferrous Metals, except Aluminum	W	0	0	0	0	0	W	W
3315	Foundries	W	0	W	0	W	0	W	W
331511	Iron Foundries	W	0	W	0	0	0	W	*
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	W	0	W	W	0	0	0	W
333	Machinery	W	0	W	0	*	0	0	W
334	Computer and Electronic Products	W	0	W	*	0	0	0	W
334413	Semiconductors and Related Devices	W	0	0	*	0	0	0	W
335	Electrical Equip., Appliances, and Components	W	0	W	*	0	0	0	*
336	Transportation Equipment	*	0	0	0	0	0	0	*
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0
339	Miscellaneous	W	0	W	*	W	0	0	W
	Total	556	*	W	3	W	9	*	292
	Midwest Census Region								
	RSE Column Factors:	1.2	0.6	1.4	0.9	1.2	0.8	1	1.1
311	Food	W	0	W	W	0	0	*	*
311221	Wet Corn Milling	*	0	*	0	0	0	0	*
31131	Sugar	*	0	*	0	0	0	*	*
311421	Fruit and Vegetable Canning	*	0	*	0	0	0	0	*
312	Beverage and Tobacco Products	1	*	0	0	0	0	0	1
3121	Beverages	*	*	0	0	0	0	0	0
3122	Tobacco	1	0	0	0	0	0	0	1
313	Textile Mills	*	0	*	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0
321	Wood Products	W	*	W	0	0	0	0	*
321113	Sawmills	*	*	*	0	0	0	0	*
3212	Veneer, Plywood, and Engineered Woods	*	0	*	0	0	0	0	*
3219	Other Wood Products	W	0	W	0	0	0	0	*
322	Paper	1	0	*	0	*	*	0	*
322110	Pulp Mills	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	*	0	*	0	*	0	0	*

Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)
322122	Newsprint Mills	0	0	0	0	0	0	0	0
322130	Paperboard Mills	1	0	*	0	0	*	0	*
323	Printing and Related Support	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	W	*	W	0	0	0	0	W
324110	Petroleum Refineries	401	0	0	0	0	0	0	401
324199	Other Petroleum and Coal Products	19	0	0	0	0	0	0	19
325	Chemicals	W	W	W	58	W	W	*	W
325110	Petrochemicals	W	0	0	*	W	0	0	0
325120	Industrial Gases	W	0	0	W	0	0	0	0
325181	Alkalies and Chlorine	*	0	0	0	0	0	0	*
325182	Carbon Black	W	W	0	W	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	0	*	W	W	0	0	W
325192	Cyclic Crudes and Intermediates	*	0	*	0	0	0	0	*
325193	Ethyl Alcohol	*	0	*	0	0	0	0	*
325199	Other Basic Organic Chemicals	W	0	W	W	W	0	0	W
325211	Plastics Materials and Resins	W	0	0	*	W	0	0	W
325212	Synthetic Rubber	W	0	0	*	W	0	0	*
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	52	0	0	50	0	0	0	*
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	W	0	W	0	0	0	0	*
325412	Pharmaceutical Preparation	W	0	W	0	0	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	W	0	W	0	Q	0	0	W
327	Nonmetallic Mineral Products	W	0	W	0	0	0	0	*
3272	Glass and Glass Products	W	0	W	0	0	0	0	*
327211	Flat Glass	*	0	0	0	0	0	0	*
327213	Glass Containers	0	0	0	0	0	0	0	0
327310	Cements	*	0	0	0	0	0	0	*
327410	Lime	*	0	*	0	0	0	0	*
327993	Mineral Wool	W	0	W	0	0	0	0	*
331	Primary Metals	287	0	W	W	W	8	*	W
331111	Iron and Steel Mills	250	0	W	W	W	8	W	W
331112	Electrometallurgical Ferroalloy Products	W	0	0	0	0	0	0	W
3312	Steel Products from Purchased Steel	W	0	W	0	0	*	0	W
3313	Alumina and Aluminum	W	0	W	0	0	0	0	W
331312	Primary Aluminum	W	0	0	0	0	0	0	W
3314	Nonferrous Metals, except Aluminum	W	0	*	*	0	*	W	W
3315	Foundries	W	0	W	0	0	0	W	W
331511	Iron Foundries	W	0	W	0	0	0	W	W
331521	Aluminum Die-Casting Foundries	*	0	0	0	0	0	0	*
331524	Aluminum Foundries, except Die-Casting	*	0	0	0	0	0	0	*
332	Fabricated Metal Products	W	0	W	W	W	0	0	W

Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
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NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)
333	Machinery	W	0	W	0	0	0	0	W
334	Computer and Electronic Products	*	0	*	0	0	0	0	*
334413	Semiconductors and Related Devices	*	0	0	0	0	0	0	*
335	Electrical Equip., Appliances, and Components	W	*	W	*	0	0	0	W
336	Transportation Equipment	3	0	*	*	0	0	*	1
336112	Light Trucks and Utility Vehicles	*	0	*	0	0	0	0	*
337	Furniture and Related Products	W	0	*	0	0	0	0	W
339	Miscellaneous	W	0	W	0	W	0	0	W
	Total	951	W	1	91	41	W	*	467
	South Census Region								
	RSE Column Factors:	1.3	0.7	1.3	1	0.8	1.1	0.9	1.1
311	Food	W	0	*	W	0	0	0	0
311221	Wet Corn Milling	*	0	*	0	0	0	0	0
31131	Sugar	0	0	0	0	0	0	0	0
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	*	0	*	*	0	0	0	*
3121	Beverages	*	0	*	0	0	0	0	*
3122	Tobacco	*	0	0	*	0	0	0	*
313	Textile Mills	1	0	*	1	0	0	0	*
314	Textile Product Mills	*	0	0	0	0	*	0	*
315	Apparel	0	0	0	0	0	0	0	0
316	Leather and Allied Products	*	0	0	0	0	0	0	*
321	Wood Products	W	0	W	0	0	0	0	*
321113	Sawmills	W	0	W	0	0	0	0	*
3212	Veneer, Plywood, and Engineered Woods	*	0	*	0	0	0	0	*
3219	Other Wood Products	W	0	W	0	0	0	0	*
322	Paper	W	*	W	0	0	0	0	*
322110	Pulp Mills	W	0	W	0	0	0	0	*
322121	Paper Mills, except Newsprint	W	0	W	0	0	0	0	*
322122	Newsprint Mills	*	0	*	0	0	0	0	*
322130	Paperboard Mills	*	*	*	0	0	0	0	*
323	Printing and Related Support	*	0	*	0	0	0	0	*
324	Petroleum and Coal Products	W	0	W	0	0	W	W	W
324110	Petroleum Refineries	2,263	0	0	0	0	0	0	2,263
324199	Other Petroleum and Coal Products	W	0	W	0	0	W	W	58
325	Chemicals	3,457	W	*	515	785	W	0	W
325110	Petrochemicals	W	0	0	36	W	0	0	W
325120	Industrial Gases	W	0	0	W	W	0	0	W
325181	Alkalies and Chlorine	W	0	W	W	W	0	0	W
325182	Carbon Black	W	W	*	W	0	0	0	6

Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
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NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)
325188	Other Basic Inorganic Chemicals	W	0	*	W	W	0	0	W
325192	Cyclic Crudes and Intermediates	W	0	0	6	W	*	0	W
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	933	0	*	157	198	1	0	43
325211	Plastics Materials and Resins	W	0	*	65	W	0	0	W
325212	Synthetic Rubber	W	0	*	0	W	0	0	*
325222	Noncellulosic Organic Fibers	3	0	*	1	0	0	0	1
325311	Nitrogenous Fertilizers	207	0	0	201	0	0	0	0
325312	Phosphatic Fertilizers	12	0	0	11	0	0	0	0
3254	Pharmaceuticals and Medicines	W	0	W	*	0	0	0	W
325412	Pharmaceutical Preparation	W	0	W	0	0	0	0	W
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	0	0	0	0	0	*
326	Plastics and Rubber Products	W	0	W	0	0	0	0	W
327	Nonmetallic Mineral Products	W	0	W	1	0	W	0	W
3272	Glass and Glass Products	W	0	W	0	0	*	0	*
327211	Flat Glass	*	0	0	0	0	*	0	*
327213	Glass Containers	0	0	0	0	0	0	0	0
327310	Cements	0	0	0	0	0	0	0	0
327410	Lime	*	0	*	0	0	*	0	*
327993	Mineral Wool	1	0	*	1	0	0	0	*
331	Primary Metals	W	0	W	W	W	W	W	W
331111	Iron and Steel Mills	W	0	W	W	W	W	W	W
331112	Electrometallurgical Ferroalloy Products	W	0	W	*	0	W	*	*
3312	Steel Products from Purchased Steel	W	0	W	0	0	*	0	*
3313	Alumina and Aluminum	W	0	W	5	0	*	0	W
331312	Primary Aluminum	62	0	0	0	0	*	0	62
3314	Nonferrous Metals, except Aluminum	W	0	0	0	0	*	W	W
3315	Foundries	W	0	W	*	0	*	W	W
331511	Iron Foundries	W	0	W	0	0	*	W	W
331521	Aluminum Die-Casting Foundries	*	0	W	*	0	0	0	W
331524	Aluminum Foundries, except Die-Casting	*	0	W	0	0	0	0	W
332	Fabricated Metal Products	W	0	W	W	W	0	0	W
333	Machinery	W	0	W	0	0	0	0	W
334	Computer and Electronic Products	W	0	0	*	0	0	0	W
334413	Semiconductors and Related Devices	W	0	0	*	0	0	0	W
335	Electrical Equip., Appliances, and Components	68	0	W	0	W	*	*	68
336	Transportation Equipment	2	0	*	*	0	0	0	1
336112	Light Trucks and Utility Vehicles	1	0	*	0	0	0	0	*
337	Furniture and Related Products	W	0	*	0	0	0	0	W
339	Miscellaneous	W	0	0	0	0	0	0	W
	Total	6,224	W	1	524	785	W	*	2,523

West Census Region

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Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
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NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)
	RSE Column Factors:	1.6	0.7	1	1.5	1.5	0.6	0.5	1.4
311	Food	W	0	W	0	0	0	0	*
311221	Wet Corn Milling	0	0	0	0	0	0	0	0
31131	Sugar	0	0	0	0	0	0	0	0
311421	Fruit and Vegetable Canning	*	0	0	0	0	0	0	*
312	Beverage and Tobacco Products	*	0	0	0	0	0	0	*
3121	Beverages	*	0	0	0	0	0	0	*
3122	Tobacco	0	0	0	0	0	0	0	0
313	Textile Mills	*	0	0	*	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0
321	Wood Products	W	*	W	0	0	0	0	*
321113	Sawmills	W	0	W	0	0	0	0	*
3212	Veneer, Plywood, and Engineered Woods	*	0	0	0	0	0	0	*
3219	Other Wood Products	*	0	*	0	0	0	0	*
322	Paper	W	0	W	0	0	0	0	*
322110	Pulp Mills	*	0	*	0	0	0	0	0
322121	Paper Mills, except Newsprint	*	0	0	0	0	0	0	*
322122	Newsprint Mills	*	0	0	0	0	0	0	*
322130	Paperboard Mills	W	0	W	0	0	0	0	*
323	Printing and Related Support	*	0	0	0	0	0	0	*
324	Petroleum and Coal Products	W	0	*	*	0	0	0	W
324110	Petroleum Refineries	367	0	0	0	0	0	0	367
324199	Other Petroleum and Coal Products	20	0	0	*	0	0	0	20
325	Chemicals	W	*	W	38	W	W	*	W
325110	Petrochemicals	0	0	0	0	0	0	0	0
325120	Industrial Gases	W	0	0	W	W	0	0	0
325181	Alkalies and Chlorine	*	0	*	0	0	0	0	0
325182	Carbon Black	*	*	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	0	0	W	0	0	*	W
325192	Cyclic Crudes and Intermediates	W	0	0	0	W	0	0	W
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	W	0	W	0	0	0	0	W
325211	Plastics Materials and Resins	W	0	0	0	W	0	0	W
325212	Synthetic Rubber	0	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	36	0	0	35	0	*	0	*
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	*	0	0	0	0	0	0	*
325412	Pharmaceutical Preparation	*	0	0	0	0	0	0	*

Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	W	0	0	0	0	0	0	W
327	Nonmetallic Mineral Products	W	0	W	0	0	W	0	W
3272	Glass and Glass Products	1	0	0	0	0	0	0	1
327211	Flat Glass	1	0	0	0	0	0	0	1
327213	Glass Containers	0	0	0	0	0	0	0	0
327310	Cements	W	0	W	0	0	0	0	*
327410	Lime	0	0	0	0	0	0	0	0
327993	Mineral Wool	W	0	W	0	0	0	0	0
331	Primary Metals	W	0	W	*	0	W	*	W
331111	Iron and Steel Mills	W	0	0	0	0	W	W	W
331112	Electrometallurgical Ferroalloy Products	W	0	W	0	0	0	0	0
3312	Steel Products from Purchased Steel	W	0	W	0	0	0	0	W
3313	Alumina and Aluminum	W	0	W	0	0	0	0	W
331312	Primary Aluminum	W	0	0	0	0	0	0	W
3314	Nonferrous Metals, except Aluminum	W	0	0	0	0	0	W	W
3315	Foundries	W	0	W	*	0	0	W	*
331511	Iron Foundries	W	0	W	*	0	0	W	*
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	0	0	*	0	0	0	0
332	Fabricated Metal Products	W	0	0	*	0	0	0	W
333	Machinery	W	0	W	*	0	0	0	W
334	Computer and Electronic Products	W	0	W	*	0	0	0	W
334413	Semiconductors and Related Devices	W	0	0	*	0	0	0	W
335	Electrical Equip., Appliances, and Components	W	0	0	*	0	0	0	W
336	Transportation Equipment	*	0	0	0	0	0	0	*
336112	Light Trucks and Utility Vehicles	*	0	0	0	0	0	0	*
337	Furniture and Related Products	*	0	0	0	0	0	0	*
339	Miscellaneous	W	0	W	0	0	0	0	W
	Total	459	*	W	38	W	*	*	412

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

(b) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(c) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)

(e) 'Other' includes energy that respondents indicated was used as feedstock/raw material inputs. See also Footnote 'f'.

(f) For the petroleum refining industry only (NAICS 324110), the feedstocks and raw material inputs for the production of nonenergy products (i.e., asphalt, waxes, lubricants, and solvents) and feedstock consumption at adjoining petrochemical plants are included in the 'Other' column, regardless of type of energy. Those inputs and feedstocks that were converted to other energy products (e.g., crude oil converted to residual and distillate fuel oils) are excluded.

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. The derived estimates presented in this table are for the first use (formerly primary consumption) of energy as feedstocks or raw material inputs. First use is defined as the consumption of the energy that was originally produced offsite or was produced onsite from input materials not classified as energy. Examples of the latter are hydrogen produced from the electrolysis of brine; the output of captive (onsite) mines or wells; woodchips, bark, and woodwaste from wood purchased as a raw material input; and waste materials, such as wastepaper and packing materials. First use excludes quantities of energy that are produced from other energy inputs and, therefore, avoids double counting.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002.

RSE Row Factors
10.2
0.7
0.9
1.7
2.3
28.9
0.8
0.8
2
0
0.8
15.5
10.1
10.2
20
1.6
0.7
1.7
0.7
1
0
4.4
0
2
3.3
0.8
1.3
0.8
1
0.9
0.8
0.8
1.3
1.3
0.8
0.8
0.8
0.8
1.2

RSE Row Factors
5
0.8
35.6
10.7
2.2
0.8
0
0.8
0.8
0.8
2
2.2
2.8
7.3
1.2
0.8
2.1
2.1
2.2
1.3
2.3
33.4
19.3
3.7
4.3
17.5
15.9
0.7
0
35.4
5.4
9.8
0
0.4
1.1
0
0
0

RSE Row Factors
0
0.4
0
0
7.7
4.8
1.4
30.3
5.9
0.7
2.9
0
1.1
0
7.4
0
1.3
0.6
0
0.5
0.6
0
0.6
0.6
0
0.6
0.8
0.8
0
0
0
0.6
0.8
0.8
26.2
9.4
2.6
0.9
0
0.7
0
0
3.3

RSE Row Factors
1
0.9
9.9
0.6
0.6
1.4
4.8
7.1
0
0
2.4
18.8
2.7
4.4
3.9
26.8
0
0
1.1
4.4
14.6
0.8
0.8
2
1.2
0
0.9
16.3
0
0
0
5.8
1
36.6
31.8
2.1
0
3.6

RSE Row Factors
0
1.3
0
5.8
0
0.9
2.2
0.9
1
0.9
1.2
0.9
0.8
0.9
2
0.9
0.9
0
1
0
14.2
7
0
0
4.4
0.8
0.9
0
0.9
0.8
0.8
1.8
1.9
0.9
3.8
0.8
0.9
4
5.5
5.5
18.3
0.9
0

RSE Row Factors
26.9
0.8
0.9
44
30.1
0.8
0
2.9
5.1
0
0.8
0
0
11
35.9
0.9
0.9
3.4
0
0.8
30.3
12.4
19
0
0.9
0.8
0.8
0.8
0.9
2.9
1.4
0
0.9
2
1
1.7
0.9
1

RSE Row Factors
0.9
1
0
1.5
1.6
0.9
0.9
0.9
0.9
0.9
0.8
0.8
21.8
5.8
0.8
0.8
0
0
0.8
0.9
1.7
0.9
4.1
3.8
1.4
0.8
2.4
1.6
1.6
0.9
0.8
0
39
1.6
0.9
12.4
3.7
0.8
0
0
3.4

RSE Row Factors
0
0
0
15
0
0
0
0.7
0
0
0
9.7
0.7
19.8
4.8
1.2
0.8
0.7
0.7
1.6
0
0.7
0
0.7
2.2
0
0.7
0.8
0.9
0.9
0.7
0
0.8
0.7
0
0
0.9
0
0
0

RSE Row Factors
0
18.4
2.2
0.7
0.7
0
0.7
0
0.8
2
5.3
0.8
0.8
0.8
0.7
3
2.4
0.9
0
0
31.3
0
5.6
2.1
4.3
0
0.7
0
0
2.1

RSE Row Factors

Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
	Total United States									
	RSE Column Factors:	1.4	0.4	1.6	1.2	1.2	1.1	0.7	1.2	
311	Food	8	*	Q	7	0	0	*	*	10.2
311221	Wet Corn Milling	*	0	*	0	0	0	0	*	0.7
31131	Sugar	*	0	*	*	0	0	*	*	0.9
311421	Fruit and Vegetable Canning	*	*	*	0	0	0	0	*	1.7
312	Beverage and Tobacco Products	1	*	*	*	0	0	0	1	2.3
3121	Beverages	*	*	*	0	0	0	0	*	28.9
3122	Tobacco	1	0	0	*	0	0	0	1	0.8
313	Textile Mills	1	0	*	1	0	0	0	*	0.8
314	Textile Product Mills	*	0	0	*	0	*	0	*	2
315	Apparel	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	*	0	0	0	0	0	0	*	0.8
321	Wood Products	4	*	3	0	0	0	0	*	15.5
321113	Sawmills	1	*	1	0	0	0	0	*	10.1
3212	Veneer, Plywood, and Engineered Woods	*	*	*	0	0	0	0	*	10.2
3219	Other Wood Products	*	0	*	0	0	0	0	*	20
322	Paper	1	*	*	0	*	1	0	*	1.6
322110	Pulp Mills	*	0	*	0	0	0	0	*	0.7
322121	Paper Mills, except Newsprint	*	0	*	0	*	0	0	*	1.6
322122	Newsprint Mills	*	0	*	0	0	0	0	*	0.7
322130	Paperboard Mills	1	*	*	0	0	1	0	*	1
323	Printing and Related Support	*	0	*	0	0	0	0	*	0
324	Petroleum and Coal Products	3,689	*	2	*	0	Q	2	3,407	4.4
324110	Petroleum Refineries	3,307	0	0	0	0	0	0	3,307	0
324199	Other Petroleum and Coal Products	370	*	*	*	0	Q	2	96	2
325	Chemicals	3,750	43	*	629	2,964	30	Q	79	3.3
325110	Petrochemicals	939	0	0	37	899	0	0	2	0.8
325120	Industrial Gases	26	0	0	W	W	0	0	Q	1.3
325181	Alkalies and Chlorine	W	0	*	W	W	0	0	1	0.8
325182	Carbon Black	59	43	*	10	0	0	0	6	1
325188	Other Basic Inorganic Chemicals	27	0	*	8	11	0	2	6	0.9
325192	Cyclic Crudes and Intermediates	29	0	*	6	19	*	0	4	0.8
325193	Ethyl Alcohol	*	0	*	0	0	0	0	*	0.8
325199	Other Basic Organic Chemicals	937	0	*	162	717	13	0	45	1.3
325211	Plastics Materials and Resins	1,355	0	*	66	1,283	0	0	5	1.3
325212	Synthetic Rubber	6	0	*	1	5	0	0	*	0.8
325222	Noncellulosic Organic Fibers	3	0	*	1	0	0	0	1	0.8
325311	Nitrogenous Fertilizers	295	0	0	295	0	*	0	*	0.8
325312	Phosphatic Fertilizers	12	0	0	12	0	0	0	0	0.8

Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
3254	Pharmaceuticals and Medicines	*	0	*	*	*	0	0	*	1.2
325412	Pharmaceutical Preparation	*	0	*	0	*	0	0	*	5
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	0	0	*	0	0	*	0.8
326	Plastics and Rubber Products	Q	0	*	0	Q	0	0	W	35.6
327	Nonmetallic Mineral Products	7	0	Q	1	0	*	0	3	10.7
3272	Glass and Glass Products	1	0	*	*	0	*	0	1	2.2
327211	Flat Glass	1	0	0	0	0	*	0	1	0.8
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327310	Cements	*	0	*	0	0	0	0	*	0.8
327410	Lime	*	0	*	0	0	*	0	*	0.8
327993	Mineral Wool	1	0	*	1	0	0	0	*	0.8
331	Primary Metals	646	0	*	35	*	467	15	129	2
331111	Iron and Steel Mills	502	0	*	30	*	462	5	5	2.2
331112	Electrometallurgical Ferroalloy Products	3	0	*	*	0	3	*	*	2.8
3312	Steel Products from Purchased Steel	Q	0	*	0	0	*	*	Q	7.4
3313	Alumina and Aluminum	122	0	*	5	0	*	0	117	1.2
331312	Primary Aluminum	117	0	0	0	0	*	0	117	0.8
3314	Nonferrous Metals, except Aluminum	7	0	*	*	0	1	4	2	2.1
3315	Foundries	7	0	*	*	*	1	5	1	2.2
331511	Iron Foundries	6	0	*	*	0	*	5	1	2.2
331521	Aluminum Die-Casting Foundries	*	0	*	*	0	0	0	*	1.3
331524	Aluminum Foundries, except Die-Casting	*	0	*	*	0	0	0	*	2.3
332	Fabricated Metal Products	1	0	*	Q	*	0	0	*	33.4
333	Machinery	2	0	1	*	*	0	0	Q	19.3
334	Computer and Electronic Products	1	0	*	*	0	0	0	1	3.7
334413	Semiconductors and Related Devices	1	0	0	*	0	0	0	1	4.3
335	Electrical Equip., Appliances, and Components	69	*	*	Q	*	*	*	68	17.5
336	Transportation Equipment	5	0	1	*	0	0	Q	2	15.9
336112	Light Trucks and Utility Vehicles	1	0	*	0	0	0	0	*	0.7
337	Furniture and Related Products	*	0	*	0	0	0	0	*	0
339	Miscellaneous	*	0	*	*	*	0	0	*	35.4
	Total	8,189	44	11	674	2,967	776	23	3,693	5.2
	Northeast Census Region									
	RSE Column Factors:	1.7	0.3	1.3	3.3	0.9	0.6	0.6	1.4	
311	Food	W	*	0	W	0	0	0	*	9.7
311221	Wet Corn Milling	0	0	0	0	0	0	0	0	0
31131	Sugar	*	0	0	*	0	0	0	0	0.4
311421	Fruit and Vegetable Canning	*	*	0	0	0	0	0	*	1.1
312	Beverage and Tobacco Products	0	0	0	0	0	0	0	0	0

Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
3121	Beverages	0	0	0	0	0	0	0	0	0
3122	Tobacco	0	0	0	0	0	0	0	0	0
313	Textile Mills	0	0	0	0	0	0	0	0	0
314	Textile Product Mills	*	0	0	*	0	0	0	0	0.4
315	Apparel	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0	0
321	Wood Products	W	*	W	0	0	0	0	*	7.7
321113	Sawmills	W	0	W	0	0	0	0	*	4.8
3212	Veneer, Plywood, and Engineered Woods	*	*	0	0	0	0	0	0	1.4
3219	Other Wood Products	W	0	W	0	0	0	0	*	30.2
322	Paper	W	0	W	0	0	0	0	*	5.9
322110	Pulp Mills	W	0	W	0	0	0	0	0	0.7
322121	Paper Mills, except Newsprint	W	0	W	0	0	0	0	*	2.9
322122	Newsprint Mills	0	0	0	0	0	0	0	0	0
322130	Paperboard Mills	W	0	W	0	0	0	0	*	1.1
323	Printing and Related Support	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	W	*	W	0	0	W	W	W	7.2
324110	Petroleum Refineries	276	0	0	0	0	0	0	276	0
324199	Other Petroleum and Coal Products	W	*	W	0	0	W	W	0	1.3
325	Chemicals	W	0	W	1	W	0	0	W	0.6
325110	Petrochemicals	W	0	0	0	0	0	0	W	0
325120	Industrial Gases	W	0	0	W	0	0	0	W	0.5
325181	Alkalies and Chlorine	W	0	0	0	0	0	0	W	0.6
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	0	0	W	W	0	0	W	0.6
325192	Cyclic Crudes and Intermediates	*	0	0	0	0	0	0	*	0.6
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	W	0	W	W	W	0	0	W	0.6
325211	Plastics Materials and Resins	W	0	0	0	W	0	0	W	0.8
325212	Synthetic Rubber	W	0	0	0	W	0	0	0	0.8
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	W	0	W	*	W	0	0	W	0.6
325412	Pharmaceutical Preparation	W	0	W	0	W	0	0	W	0.8
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	0	0	W	0	0	0	0.8
326	Plastics and Rubber Products	W	0	0	0	*	0	0	W	26.1
327	Nonmetallic Mineral Products	W	0	W	*	0	*	0	W	9.4
3272	Glass and Glass Products	W	0	W	*	0	*	0	*	2.6
327211	Flat Glass	*	0	0	0	0	*	0	*	0.9
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327310	Cements	W	0	W	0	0	0	0	*	0.7

Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
327410	Lime	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0
331	Primary Metals	222	0	W	0	W	W	W	W	3.3
331111	Iron and Steel Mills	W	0	0	0	0	W	W	W	1
331112	Electrometallurgical Ferroalloy Products	W	0	0	0	0	W	0	W	0.9
3312	Steel Products from Purchased Steel	W	0	0	0	0	*	*	W	9.9
3313	Alumina and Aluminum	W	0	0	0	0	0	0	W	0.6
331312	Primary Aluminum	W	0	0	0	0	0	0	W	0.6
3314	Nonferrous Metals, except Aluminum	W	0	0	0	0	0	W	W	1.4
3315	Foundries	W	0	W	0	W	0	W	W	4.8
331511	Iron Foundries	W	0	W	0	0	0	W	*	7.1
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	W	0	W	W	0	0	0	W	2.4
333	Machinery	W	0	W	0	*	0	0	W	18.8
334	Computer and Electronic Products	W	0	W	*	0	0	0	W	2.7
334413	Semiconductors and Related Devices	W	0	0	*	0	0	0	W	4.4
335	Electrical Equip., Appliances, and Components	W	0	W	*	0	0	0	*	3.9
336	Transportation Equipment	*	0	0	0	0	0	0	*	26.8
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0	0
339	Miscellaneous	W	0	W	*	W	0	0	W	1.1
	Total	556	*	W	3	W	240	4	292	4.4
	Midwest Census Region									
	RSE Column Factors:	1.2	0.6	1.4	0.9	1.2	0.8	1	1.1	
311	Food	W	0	W	W	0	0	*	*	14.6
311221	Wet Corn Milling	*	0	*	0	0	0	0	*	0.8
31131	Sugar	*	0	*	0	0	0	*	*	0.8
311421	Fruit and Vegetable Canning	*	0	*	0	0	0	0	*	2
312	Beverage and Tobacco Products	1	*	0	0	0	0	0	1	1.2
3121	Beverages	*	*	0	0	0	0	0	0	0
3122	Tobacco	1	0	0	0	0	0	0	1	0.9
313	Textile Mills	*	0	*	0	0	0	0	0	16.4
314	Textile Product Mills	0	0	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0	0
321	Wood Products	W	*	W	0	0	0	0	*	5.8
321113	Sawmills	*	*	*	0	0	0	0	*	1
3212	Veneer, Plywood, and Engineered Woods	*	0	*	0	0	0	0	*	36.6

Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
3219	Other Wood Products	W	0	W	0	0	0	0	*	31.8
322	Paper	1	0	*	0	*	1	0	*	2.1
322110	Pulp Mills	0	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	*	0	*	0	*	0	0	*	3.6
322122	Newsprint Mills	0	0	0	0	0	0	0	0	0
322130	Paperboard Mills	1	0	*	0	0	1	0	*	1.3
323	Printing and Related Support	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	W	*	W	0	0	0	0	W	5.8
324110	Petroleum Refineries	401	0	0	0	0	0	0	401	0
324199	Other Petroleum and Coal Products	19	0	0	0	0	0	0	19	0.9
325	Chemicals	W	W	W	60	W	W	Q	W	2.2
325110	Petrochemicals	W	0	0	*	W	0	0	0	0.9
325120	Industrial Gases	W	0	0	W	0	0	0	0	1
325181	Alkalies and Chlorine	*	0	0	0	0	0	0	*	0.9
325182	Carbon Black	W	W	0	W	0	0	0	0	1.2
325188	Other Basic Inorganic Chemicals	W	0	*	W	W	0	0	W	0.9
325192	Cyclic Crudes and Intermediates	*	0	*	0	0	0	0	*	0.8
325193	Ethyl Alcohol	*	0	*	0	0	0	0	*	0.9
325199	Other Basic Organic Chemicals	W	0	W	W	W	0	0	W	2
325211	Plastics Materials and Resins	W	0	0	*	W	0	0	W	0.9
325212	Synthetic Rubber	W	0	0	1	W	0	0	*	0.9
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	52	0	0	52	0	0	0	*	1
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	W	0	W	0	0	0	0	*	14.2
325412	Pharmaceutical Preparation	W	0	W	0	0	0	0	*	7
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	W	0	W	0	Q	0	0	W	0
327	Nonmetallic Mineral Products	W	0	W	0	0	0	0	*	4.4
3272	Glass and Glass Products	W	0	W	0	0	0	0	*	0.8
327211	Flat Glass	*	0	0	0	0	0	0	*	0.9
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327310	Cements	*	0	0	0	0	0	0	*	0.9
327410	Lime	*	0	*	0	0	0	0	*	0.8
327993	Mineral Wool	W	0	W	0	0	0	0	*	0.8
331	Primary Metals	287	0	W	W	W	218	3	W	1.8
331111	Iron and Steel Mills	250	0	W	W	W	218	W	W	1.9
331112	Electrometallurgical Ferroalloy Products	W	0	0	0	0	0	0	W	0.9
3312	Steel Products from Purchased Steel	W	0	W	0	0	*	0	W	3.8
3313	Alumina and Aluminum	W	0	W	0	0	0	0	W	0.8
331312	Primary Aluminum	W	0	0	0	0	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	W	0	*	*	0	*	W	W	4

Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
3315	Foundries	W	0	W	0	0	0	W	W	5.5
331511	Iron Foundries	W	0	W	0	0	0	W	W	5.5
331521	Aluminum Die-Casting Foundries	*	0	0	0	0	0	0	*	18.3
331524	Aluminum Foundries, except Die-Casting	*	0	0	0	0	0	0	*	0.9
332	Fabricated Metal Products	W	0	W	W	W	0	0	W	0
333	Machinery	W	0	W	0	0	0	0	W	26.9
334	Computer and Electronic Products	*	0	*	0	0	0	0	*	0.8
334413	Semiconductors and Related Devices	*	0	0	0	0	0	0	*	0.9
335	Electrical Equip., Appliances, and Components	W	*	W	*	0	0	0	W	43.9
336	Transportation Equipment	3	0	*	*	0	0	Q	1	30.1
336112	Light Trucks and Utility Vehicles	*	0	*	0	0	0	0	*	0.8
337	Furniture and Related Products	W	0	*	0	0	0	0	W	0
339	Miscellaneous	W	0	W	0	W	0	0	W	2.9
	Total	951	W	3	94	145	W	9	467	5.1
	South Census Region									
	RSE Column Factors:	1.3	0.7	1.3	1	0.8	1.1	0.9	1.1	
311	Food	W	0	*	W	0	0	0	0	0
311221	Wet Corn Milling	*	0	*	0	0	0	0	0	0.8
31131	Sugar	0	0	0	0	0	0	0	0	0
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	*	0	*	*	0	0	0	*	11
3121	Beverages	*	0	*	0	0	0	0	*	35.9
3122	Tobacco	*	0	0	*	0	0	0	*	0.9
313	Textile Mills	1	0	*	1	0	0	0	*	0.9
314	Textile Product Mills	*	0	0	0	0	*	0	*	3.4
315	Apparel	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	*	0	0	0	0	0	0	*	0.8
321	Wood Products	W	0	W	0	0	0	0	*	30.3
321113	Sawmills	W	0	W	0	0	0	0	*	12.4
3212	Veneer, Plywood, and Engineered Woods	*	0	*	0	0	0	0	*	19
3219	Other Wood Products	W	0	W	0	0	0	0	*	0
322	Paper	W	*	W	0	0	0	0	*	0.9
322110	Pulp Mills	W	0	W	0	0	0	0	*	0.8
322121	Paper Mills, except Newsprint	W	0	W	0	0	0	0	*	0.8
322122	Newsprint Mills	*	0	*	0	0	0	0	*	0.8
322130	Paperboard Mills	*	*	*	0	0	0	0	*	0.9
323	Printing and Related Support	*	0	*	0	0	0	0	*	2.9
324	Petroleum and Coal Products	W	0	W	0	0	W	W	W	1.4
324110	Petroleum Refineries	2,263	0	0	0	0	0	0	2,263	0

Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
324199	Other Petroleum and Coal Products	W	0	W	0	0	W	W	58	0.9
325	Chemicals	3,457	W	*	529	2,804	W	0	W	2
325110	Petrochemicals	W	0	0	37	W	0	0	W	1
325120	Industrial Gases	W	0	0	W	W	0	0	W	1.7
325181	Alkalies and Chlorine	W	0	W	W	W	0	0	W	0.9
325182	Carbon Black	W	W	*	W	0	0	0	6	1
325188	Other Basic Inorganic Chemicals	W	0	*	W	W	0	0	W	0.9
325192	Cyclic Crudes and Intermediates	W	0	0	6	W	*	0	W	1
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	933	0	*	161	717	13	0	43	1.5
325211	Plastics Materials and Resins	W	0	*	66	W	0	0	W	1.6
325212	Synthetic Rubber	W	0	*	0	W	0	0	*	0.9
325222	Noncellulosic Organic Fibers	3	0	*	1	0	0	0	1	0.9
325311	Nitrogenous Fertilizers	207	0	0	207	0	0	0	0	0.9
325312	Phosphatic Fertilizers	12	0	0	12	0	0	0	0	0.9
3254	Pharmaceuticals and Medicines	W	0	W	*	0	0	0	W	0.9
325412	Pharmaceutical Preparation	W	0	W	0	0	0	0	W	0.8
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	0	0	0	0	0	*	0.8
326	Plastics and Rubber Products	W	0	W	0	0	0	0	W	21.8
327	Nonmetallic Mineral Products	W	0	W	1	0	W	0	W	5.8
3272	Glass and Glass Products	W	0	W	0	0	*	0	*	0.8
327211	Flat Glass	*	0	0	0	0	*	0	*	0.8
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327310	Cements	0	0	0	0	0	0	0	0	0
327410	Lime	*	0	*	0	0	*	0	*	0.8
327993	Mineral Wool	1	0	*	1	0	0	0	*	0.9
331	Primary Metals	W	0	W	W	W	W	W	W	1.7
331111	Iron and Steel Mills	W	0	W	W	W	W	W	W	0.9
331112	Electrometallurgical Ferroalloy Products	W	0	W	*	0	W	*	*	4.1
3312	Steel Products from Purchased Steel	W	0	W	0	0	*	0	*	3.8
3313	Alumina and Aluminum	W	0	W	5	0	*	0	W	1.4
331312	Primary Aluminum	62	0	0	0	0	*	0	62	0.8
3314	Nonferrous Metals, except Aluminum	W	0	0	0	0	1	W	W	2.4
3315	Foundries	W	0	W	*	0	1	W	W	1.6
331511	Iron Foundries	W	0	W	0	0	*	W	W	1.6
331521	Aluminum Die-Casting Foundries	*	0	W	*	0	0	0	W	0.9
331524	Aluminum Foundries, except Die-Casting	*	0	W	0	0	0	0	W	0.8
332	Fabricated Metal Products	W	0	W	W	W	0	0	W	0
333	Machinery	W	0	W	0	0	0	0	W	39
334	Computer and Electronic Products	W	0	0	*	0	0	0	W	1.6
334413	Semiconductors and Related Devices	W	0	0	*	0	0	0	W	0.9
335	Electrical Equip., Appliances, and Components	68	0	W	0	W	*	*	68	12.4

Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
336	Transportation Equipment	2	0	1	*	0	0	0	1	3.7
336112	Light Trucks and Utility Vehicles	1	0	*	0	0	0	0	*	0.8
337	Furniture and Related Products	W	0	*	0	0	0	0	W	0
339	Miscellaneous	W	0	0	0	0	0	0	W	0
	Total	6,224	W	5	539	2,804	W	8	2,523	3.4
	West Census Region									
	RSE Column Factors:	1.6	0.7	1	1.5	1.5	0.6	0.5	1.4	
311	Food	W	0	W	0	0	0	0	*	0
311221	Wet Corn Milling	0	0	0	0	0	0	0	0	0
31131	Sugar	0	0	0	0	0	0	0	0	0
311421	Fruit and Vegetable Canning	*	0	0	0	0	0	0	*	15
312	Beverage and Tobacco Products	*	0	0	0	0	0	0	*	0
3121	Beverages	*	0	0	0	0	0	0	*	0
3122	Tobacco	0	0	0	0	0	0	0	0	0
313	Textile Mills	*	0	0	*	0	0	0	0	0.7
314	Textile Product Mills	0	0	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0	0
321	Wood Products	W	*	W	0	0	0	0	*	9.7
321113	Sawmills	W	0	W	0	0	0	0	*	0.7
3212	Veneer, Plywood, and Engineered Woods	*	0	0	0	0	0	0	*	19.8
3219	Other Wood Products	*	0	*	0	0	0	0	*	4.8
322	Paper	W	0	W	0	0	0	0	*	1.2
322110	Pulp Mills	*	0	*	0	0	0	0	0	0.8
322121	Paper Mills, except Newsprint	*	0	0	0	0	0	0	*	0.7
322122	Newsprint Mills	*	0	0	0	0	0	0	*	0.7
322130	Paperboard Mills	W	0	W	0	0	0	0	*	1.6
323	Printing and Related Support	*	0	0	0	0	0	0	*	0
324	Petroleum and Coal Products	W	0	*	*	0	0	0	W	0.7
324110	Petroleum Refineries	367	0	0	0	0	0	0	367	0
324199	Other Petroleum and Coal Products	20	0	0	*	0	0	0	20	0.7
325	Chemicals	W	*	W	39	W	W	2	W	2.2
325110	Petrochemicals	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	W	0	0	W	W	0	0	0	0.7
325181	Alkalies and Chlorine	*	0	*	0	0	0	0	0	0.8
325182	Carbon Black	*	*	0	0	0	0	0	0	0.9
325188	Other Basic Inorganic Chemicals	W	0	0	W	0	0	2	W	0.9
325192	Cyclic Crudes and Intermediates	W	0	0	0	W	0	0	W	0.7
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0

Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
325199	Other Basic Organic Chemicals	W	0	W	0	0	0	0	W	0.8
325211	Plastics Materials and Resins	W	0	0	0	W	0	0	W	0.7
325212	Synthetic Rubber	0	0	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	36	0	0	36	0	*	0	*	0.9
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	*	0	0	0	0	0	0	*	0
325412	Pharmaceutical Preparation	*	0	0	0	0	0	0	*	0
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	W	0	0	0	0	0	0	W	18.4
327	Nonmetallic Mineral Products	W	0	W	0	0	W	0	W	2.2
3272	Glass and Glass Products	1	0	0	0	0	0	0	1	0.7
327211	Flat Glass	1	0	0	0	0	0	0	1	0.7
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327310	Cements	W	0	W	0	0	0	0	*	0.7
327410	Lime	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	W	0	W	0	0	0	0	0	0.8
331	Primary Metals	W	0	W	*	0	W	1	W	2
331111	Iron and Steel Mills	W	0	0	0	0	W	W	W	5.3
331112	Electrometallurgical Ferroalloy Products	W	0	W	0	0	0	0	0	0.8
3312	Steel Products from Purchased Steel	W	0	W	0	0	0	0	W	0.8
3313	Alumina and Aluminum	W	0	W	0	0	0	0	W	0.8
331312	Primary Aluminum	W	0	0	0	0	0	0	W	0.7
3314	Nonferrous Metals, except Aluminum	W	0	0	0	0	0	W	W	3
3315	Foundries	W	0	W	*	0	0	W	*	2.4
331511	Iron Foundries	W	0	W	*	0	0	W	*	0.9
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	0	0	*	0	0	0	0	0
332	Fabricated Metal Products	W	0	0	*	0	0	0	W	31.3
333	Machinery	W	0	W	*	0	0	0	W	0
334	Computer and Electronic Products	W	0	W	*	0	0	0	W	5.6
334413	Semiconductors and Related Devices	W	0	0	*	0	0	0	W	2.1
335	Electrical Equip., Appliances, and Components	W	0	0	*	0	0	0	W	4.3
336	Transportation Equipment	*	0	0	0	0	0	0	*	0
336112	Light Trucks and Utility Vehicles	*	0	0	0	0	0	0	*	0.7
337	Furniture and Related Products	*	0	0	0	0	0	0	*	0
339	Miscellaneous	W	0	W	0	0	0	0	W	0
	Total	459	1	W	39	W	1	3	412	2.1

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

Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors

(b) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(c) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(e) 'Other' includes energy that respondents indicated was used as feedstock/raw material inputs. See also Footnote 'f'.

(f) For the petroleum refining industry only (NAICS 324110), the feedstocks and raw material inputs for the production of nonenergy products (i.e., asphalt, waxes, lubricants, and solvents) and feedstock consumption at adjoining petrochemical plants are included in the 'Other' column, regardless of type of energy. Those inputs and feedstocks that were converted to other energy products (e.g., crude oil converted to residual and distillate fuel oils) are excluded.

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. The derived estimates presented in this table are for the first use (formerly primary consumption) of energy as feedstocks or raw material inputs. First use is defined as the consumption of the energy that was originally produced offsite or was produced onsite from input materials not classified as energy. Examples of the latter are hydrogen produced from the electrolysis of brine; the output of captive (onsite) mines or wells; woodchips, bark, and woodwaste from wood purchased as a raw material input; and waste materials, such as wastepaper and packing materials. First use excludes quantities of energy that are produced from other energy inputs and, therefore, avoids double counting.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002.

Table 2.3 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
Total United States									
RSE Column Factors:	1	0.4	6.4	0.6	0.5	1.1	1.7	0.8	
Value of Shipments and Receipts (million dollars)									
Under 20	94	*	6	19	W	W	W	W	9
20-49	135	19	3	8	W	W	W	78	9.3
50-99	307	18	W	108	33	W	W	84	5.3
100-249	755	10	1	222	466	W	W	48	2
250-499	1,083	*	W	127	W	W	W	W	5.5
500 and Over	2,511	0	W	191	1,830	470	W	W	1.3
Not Ascertained (f)	3,307	0	0	0	0	0	0	3,307	0
Total	8,192	47	11	674	2,967	775	23	3,693	5.3
Employment Size									
Under 50	190	W	6	18	W	W	*	71	8.3
50-99	581	W	W	123	W	W	W	77	5.7
100-249	1,048	28	W	154	768	W	W	50	6.3
250-499	1,111	*	W	121	W	W	W	86	2
500-999	717	*	W	156	480	W	9	70	2.2
1000 and Over	1,238	0	W	104	W	470	W	32	2.1
Not Ascertained (f)	3,307	0	0	0	0	0	0	3,307	0
Total	8,192	47	11	674	2,967	775	23	3,693	5.3
Northeast Census Region									
RSE Column Factors:	1.9	0.3	5	1.7	0.5	0.6	0.6	1.3	
Value of Shipments and Receipts (million dollars)									
Under 20	W	*	*	*	*	W	W	Q	8.2
20-49	27	*	*	1	*	W	W	W	7.8
50-99	W	0	*	Q	*	0	W	*	2.4
100-249	28	*	*	*	17	W	W	W	1.3

Table 2.3 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
250-499	*	0	*	*	0	0	0	*	2.9
500 and Over	W	0	*	1	*	W	0	W	0.7
Not Ascertained (f)	276	0	0	0	0	0	0	276	0
Total	557	*	*	3	17	240	4	292	4.4
Employment Size									
Under 50	W	0	*	*	1	W	*	Q	7.1
50-99	W	0	W	*	*	W	W	W	1.9
100-249	W	*	W	*	17	W	W	W	3.4
250-499	W	*	*	Q	*	*	W	W	2.7
500-999	3	0	*	*	*	*	3	*	1.6
1000 and Over	W	0	W	1	*	W	0	W	0.9
Not Ascertained (f)	276	0	0	0	0	0	0	276	0
Total	557	*	*	3	17	240	4	292	4.4
Midwest Census Region									
RSE Column Factors:	0.8	0.5	7.2	0.8	0.8	0.7	1.4	0.5	
Value of Shipments and Receipts (million dollars)									
Under 20	W	*	Q	6	13	W	1	W	3.1
20-49	20	7	W	1	*	*	W	W	9.3
50-99	W	*	W	50	12	W	W	W	13.6
100-249	23	0	*	5	W	0	W	4	6.1
250-499	41	0	W	6	*	0	W	W	7.8
500 and Over	W	0	W	25	W	218	W	W	1.8
Not Ascertained (f)	401	0	0	0	0	0	0	401	0
Total	953	7	3	94	145	230	9	467	4.8
Employment Size									
Under 50	W	W	Q	10	W	0	0	10	6.4
50-99	W	W	W	41	W	*	W	W	2.7
100-249	W	0	W	11	8	W	W	W	18.6
250-499	W	*	W	3	W	0	W	W	4.6

Table 2.3 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
500-999	18	0	W	*	*	0	1	W	1.6
1000 and Over	W	0	W	28	W	W	2	W	4.2
Not Ascertained (f)	401	0	0	0	0	0	0	401	0
Total	953	7	3	94	145	230	9	467	4.8
South Census Region									
RSE Column Factors:	1.4	0.3	7.1	0.8	0.7	0.7	0.9	0.9	
Value of Shipments and Receipts (million dollars)									
Under 20	W	0	2	8	W	W	0	W	4.8
20-49	65	12	W	6	W	W	W	Q	7.5
50-99	W	18	W	57	20	W	W	W	2
100-249	652	10	*	184	437	2	W	W	2.2
250-499	1,041	*	W	121	W	W	W	W	2.6
500 and Over	1,950	0	W	164	W	W	W	W	1.3
Not Ascertained (f)	2,263	0	0	0	0	0	0	2,263	0
Total	6,224	40	5	539	2,804	Q	8	2,523	3.2
Employment Size									
Under 50	126	0	3	5	W	W	0	W	3.2
50-99	503	12	W	78	142	W	W	W	6.6
100-249	949	28	W	142	742	W	*	W	6
250-499	928	0	*	82	734	W	W	W	1.1
500-999	692	*	*	155	480	2	5	50	1.9
1000 and Over	762	0	W	75	W	47	W	W	1.3
Not Ascertained (f)	2,263	0	0	0	0	0	0	2,263	0
Total	6,224	40	5	539	2,804	Q	8	2,523	3.2
West Census Region									
RSE Column Factors:	1.4	0.9	6.4	0.8	0.5	0.6	0.4	1.3	
Value of Shipments and Receipts									

Table 2.3 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
(million dollars)									
Under 20	9	*	Q	5	0	W	0	W	8.6
20-49	23	*	*	1	W	0	W	21	2.9
50-99	6	0	*	*	0	W	*	W	1.6
100-249	52	0	*	33	W	0	W	17	1.3
250-499	1	0	0	*	0	*	*	1	6.5
500 and Over	*	0	*	0	0	0	0	*	0.4
Not Ascertained (f)	367	0	0	0	0	0	0	367	0
Total	459	1	Q	39	Q	1	3	412	2.4
Employment Size									
Under 50	W	*	Q	2	W	W	0	W	2
50-99	W	*	W	3	W	W	0	3	3.4
100-249	W	0	W	*	Q	0	2	W	4.4
250-499	46	0	*	33	0	0	*	12	0.8
500-999	4	0	W	*	0	W	*	W	3.3
1000 and Over	*	0	*	0	0	0	0	*	0.2
Not Ascertained (f)	367	0	0	0	0	0	0	367	0
Total	459	1	Q	39	Q	1	3	412	2.4

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

(b) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(c) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(e) 'Other' includes all other energy that respondents indicated was used for nonfuel purposes, i.e., as petrochemical feedstocks or raw material inputs. See also Footnote 'f'.

(f) The entry in the 'Not Ascertained' row and the 'Other' column consists

Table 2.3 Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors

of the feedstocks and raw material inputs that were consumed by petroleum refineries for the production of nonenergy products (i.e., asphalt, waxes, lubricants, and solvents), as well as feedstock consumption at adjoining petrochemical plants. That entry includes all of those inputs, regardless of type. Those inputs that were converted to other energy products by petroleum refineries (e.g., crude oil converted to residual and distillate fuel oils) are excluded.

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. The derived estimates presented in this table are for the first use (formerly primary consumption) of energy as feedstocks or raw material inputs. First use is defined as the consumption of the energy that was originally produced offsite or was produced onsite from input materials not classified as energy. Examples of the latter are hydrogen produced from the electrolysis of brine; the output of captive (onsite) mines or wells; woodchips, bark, and woodwaste from wood purchased as a raw material input; and waste materials, such as wastepaper and packing materials. First use excludes quantities of energy that are produced from other energy inputs and, therefore, avoids double counting.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002, and the Bureau of the Census, data files for the '2002 Economic Census, Manufacturing - Industry Series.'

Table 2.4 Number of Establishments by Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National Data;
Row: NAICS Codes (3-Digit Only); Column: Energy Sources;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Combustible Energy Source(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
		Total United States								
	RSE Column Factors:	1.5	0.6	1.1	1	1.1	0.7	1	1.4	
311	Food	406	W	152	185	0	0	4	83	9.6
311221	Wet Corn Milling	W	0	W	0	0	0	0	W	0.8
31131	Sugar	6	0	W	W	0	0	4	W	0.9
311421	Fruit and Vegetable Canning	14	W	6	0	0	0	0	9	5.6
312	Beverage and Tobacco Products	31	W	5	W	0	0	0	15	12.4
3121	Beverages	Q	W	5	0	0	0	0	12	31.9
3122	Tobacco	W	0	0	W	0	0	0	W	0.8
313	Textile Mills	15	0	12	3	0	0	0	W	6.8
314	Textile Product Mills	W	0	0	W	0	W	0	W	3.1
315	Apparel	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	W	0	0	0	0	0	0	W	0.7
321	Wood Products	326	7	189	0	0	0	0	208	3.3
321113	Sawmills	104	W	87	0	0	0	0	21	3.8
3212	Veneer, Plywood, and Engineered Woods	70	W	56	0	0	0	0	68	5.7
3219	Other Wood Products	119	0	24	0	0	0	0	113	5.3
322	Paper	84	W	25	0	3	W	0	64	4.1
322110	Pulp Mills	5	0	5	0	0	0	0	W	0.8
322121	Paper Mills, except Newsprint	36	0	5	0	3	0	0	30	9.7
322122	Newsprint Mills	4	0	W	0	0	0	0	4	0.8
322130	Paperboard Mills	30	W	10	0	0	W	0	22	1.7
323	Printing and Related Support	101	0	W	0	0	0	0	98	17.1
324	Petroleum and Coal Products	350	W	243	W	0	34	W	85	11.9
324110	Petroleum Refineries	0	0	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	31	W	W	W	0	14	W	16	1
325	Chemicals	834	9	82	190	278	30	13	445	4
325110	Petrochemicals	29	0	0	4	24	0	0	7	1
325120	Industrial Gases	Q	0	0	13	W	0	0	Q	0.9
325181	Alkalies and Chlorine	11	0	3	3	W	0	0	6	0.8
325182	Carbon Black	19	9	W	11	0	0	0	6	1
325188	Other Basic Inorganic Chemicals	50	0	7	15	5	0	W	34	2
325192	Cyclic Crudes and Intermediates	17	0	W	5	6	W	0	11	0.9
325193	Ethyl Alcohol	5	0	W	0	0	W	0	W	0.9
325199	Other Basic Organic Chemicals	198	0	12	77	80	W	0	90	1.4
325211	Plastics Materials and Resins	129	0	7	19	109	0	0	31	1.7
325212	Synthetic Rubber	13	0	W	W	9	0	0	6	0.8
325222	Noncellulosic Organic Fibers	6	0	W	W	0	0	0	4	0.8
325311	Nitrogenous Fertilizers	26	0	0	24	0	W	0	3	0.9
325312	Phosphatic Fertilizers	W	0	0	W	0	0	0	0	0.8
3254	Pharmaceuticals and Medicines	47	0	6	W	W	0	0	44	2.6
325412	Pharmaceutical Preparation	28	0	3	0	W	0	0	26	3.6
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	0	0	W	0	0	W	0.8
326	Plastics and Rubber Products	198	0	25	0	51	0	0	137	4.7

Table 2.4 Number of Establishments by Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National Data;
Row: NAICS Codes (3-Digit Only); Column: Energy Sources;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Combustible Energy Source(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
327	Nonmetallic Mineral Products	349	0	232	W	0	W	0	120	13.5
3272	Glass and Glass Products	48	0	11	W	0	W	0	35	4.5
327211	Flat Glass	13	0	0	0	0	W	0	11	0.9
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327310	Cements	29	0	25	0	0	0	0	6	7.7
327410	Lime	6	0	W	0	0	W	0	W	0.9
327993	Mineral Wool	6	0	3	W	0	0	0	W	0.8
331	Primary Metals	469	0	86	22	12	38	58	353	4.8
331111	Iron and Steel Mills	78	0	7	10	W	19	12	57	3.1
331112	Electrometallurgical Ferroalloy Products	6	0	W	W	0	3	W	3	0.9
3312	Steel Products from Purchased Steel	112	0	29	0	0	8	W	79	2.8
3313	Alumina and Aluminum	44	0	W	W	0	W	0	39	2.1
331312	Primary Aluminum	23	0	0	0	0	W	0	23	0.9
3314	Nonferrous Metals, except Aluminum	83	0	W	W	0	W	W	76	3
3315	Foundries	146	0	42	7	W	W	33	99	4.8
331511	Iron Foundries	78	0	37	W	0	W	33	37	5.4
331521	Aluminum Die-Casting Foundries	10	0	W	W	0	0	0	10	1.2
331524	Aluminum Foundries, except Die-Casting	9	0	W	W	0	0	0	5	2.8
332	Fabricated Metal Products	843	0	60	85	182	0	0	576	13.1
333	Machinery	469	0	113	W	20	0	0	273	5.7
334	Computer and Electronic Products	313	0	5	114	0	0	0	199	4.1
334413	Semiconductors and Related Devices	115	0	0	43	0	0	0	76	13.5
335	Electrical Equip., Appliances, and Components	127	W	19	30	Q	W	W	75	9.3
336	Transportation Equipment	244	0	68	8	0	0	W	173	3.2
336112	Light Trucks and Utility Vehicles	7	0	W	0	0	0	0	6	0.8
337	Furniture and Related Products	46	0	W	0	0	0	0	42	8.9
339	Miscellaneous	89	0	51	W	6	0	0	52	8
	Total	5,299	36	1,381	733	558	120	84	3,007	8.5

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

(b) 'Any Combustible Energy Source' represents the non-duplicative total of establishments identified with any of the listed energy sources. This count includes only those establishments that reported this activity in 2002.

(c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(d) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(e) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(f) 'Other' includes energy that respondents indicated was used as feedstock/raw material inputs. See also Footnote 'g'.

Table 2.4 Number of Establishments by Nonfuel (Feedstock) Use of Combustible Energy, 2002;
Level: National Data;
Row: NAICS Codes (3-Digit Only); Column: Energy Sources;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Combustible Energy Source(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors

(g) For the petroleum refining industry only, the feedstocks and raw material inputs for the production of nonenergy products (i.e., asphalt, waxes, lubricants, and solvents) and feedstock consumption at adjoining petrochemical plants are included in the 'Other' column, regardless of type of energy. Those inputs and feedstocks that were converted to other energy products (e.g., crude oil converted to residual and distillate fuel oils) are excluded.

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. The derived estimates presented in this table are for the first use (formerly primary consumption) of energy as feedstocks or raw material inputs. First use is defined as the consumption of the energy that was originally produced offsite or was produced onsite from input materials not classified as energy. Examples of the latter are hydrogen produced from the electrolysis of brine; the output of captive (onsite) mines or wells; woodchips, bark, and woodwaste from wood purchased as a raw material input; and waste materials, such as wastepaper and packing materials. First use excludes quantities of energy that are produced from other energy inputs and, therefore, avoids double counting.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002.

Table 3.1 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Total United States										
	RSE Column Factors:	0.8	0.8	1.1	1.6	0.9	1.8	0.7	0.7	1.1	
311	Food	1,116	67,521	2	3	560	1	8	*	90	7.6
311221	Wet Corn Milling	217	6,851	*	*	59	*	5	0	11	1.2
31131	Sugar	111	725	*	*	22	*	2	*	46	1
311421	Fruit and Vegetable Canning	47	1,960	*	*	35	*	0	0	1	12.5
312	Beverage and Tobacco Products	104	7,639	*	*	45	*	1	0	10	4.4
3121	Beverages	85	6,426	*	*	41	*	*	0	10	5.9
3122	Tobacco	19	1,213	*	*	4	*	*	0	*	1
313	Textile Mills	205	25,271	1	*	72	*	1	0	15	15.7
314	Textile Product Mills	60	4,875	*	Q	28	*	*	0	Q	21.7
315	Apparel	30	3,588	*	*	16	*	0	0	*	23.2
316	Leather and Allied Products	7	716	*	*	4	*	0	0	*	8.5
321	Wood Products	375	20,985	*	2	56	1	*	0	229	4.5
321113	Sawmills	128	5,845	*	1	10	*	0	0	92	5.4
3212	Veneer, Plywood, and Engineered Woods	167	9,619	*	*	32	1	*	0	95	5.2
3219	Other Wood Products	73	5,282	*	*	11	*	0	0	40	9
322	Paper	2,361	65,503	16	2	490	2	11	*	1,276	2
322110	Pulp Mills	224	1,579	W	1	23	*	W	0	175	1
322121	Paper Mills, except Newsprint	1,002	22,831	8	1	201	*	6	*	522	1.9
322122	Newsprint Mills	94	11,174	W	*	15	*	W	0	27	1
322130	Paperboard Mills	907	16,369	5	1	183	*	4	0	542	2.4
323	Printing and Related Support	98	14,714	*	*	45	*	0	0	1	11.6
324	Petroleum and Coal Products	3,202	37,186	4	3	854	6	1	*	2,119	3.6
324110	Petroleum Refineries	3,086	35,478	3	1	799	5	*	0	2,097	3.3
324199	Other Petroleum and Coal Products	34	-533	*	*	4	*	1	*	19	1.4
325	Chemicals	3,769	153,104	7	2	1,634	9	14	*	1,158	5.1
325110	Petrochemicals	474	W	W	*	167	W	W	0	233	1
325120	Industrial Gases	177	W	0	*	51	*	0	0	W	6.2
325181	Alkalies and Chlorine	173	12,354	*	*	92	*	1	0	16	1.4
325182	Carbon Black	42	605	2	*	9	*	0	0	16	0.9
325188	Other Basic Inorganic Chemicals	210	25,904	*	*	67	*	1	*	30	3
325192	Cyclic Crudes and Intermediates	72	3,443	*	*	36	*	0	0	23	0.9
325193	Ethyl Alcohol	60	W	0	*	29	*	1	0	W	5.7
325199	Other Basic Organic Chemicals	1,184	22,917	2	*	414	W	W	0	514	13
325211	Plastics Materials and Resins	665	21,495	*	*	339	*	1	*	214	6.7
325212	Synthetic Rubber	52	1,878	*	*	27	*	*	0	12	7.4
325222	Noncellulosic Organic Fibers	61	W	W	*	29	*	W	0	3	1.6
325311	Nitrogenous Fertilizers	205	3,496	0	*	184	*	0	0	4	0.9
325312	Phosphatic Fertilizers	27	1,025	*	*	18	*	*	*	1	1
3254	Pharmaceuticals and Medicines	121	10,715	*	*	60	*	*	0	9	5.1
325412	Pharmaceutical Preparation	84	8,312	*	*	39	*	*	0	4	6
325992	Photographic Film, Paper, Plate, and Chemicals	29	W	*	*	7	*	W	0	*	6.3
326	Plastics and Rubber Products	348	53,181	1	*	125	1	Q	0	5	9.5
327	Nonmetallic Mineral Products	1,052	41,393	*	5	410	1	14	*	133	4
3272	Glass and Glass Products	200	12,233	W	W	148	*	0	0	4	2.4
327211	Flat Glass	62	1,842	W	W	51	*	0	0	2	0.9
327213	Glass Containers	66	3,932	0	*	51	*	0	0	*	0.9
327310	Cements	409	12,471	*	1	21	*	11	*	95	2.1
327410	Lime	106	1,353	*	*	7	*	3	*	26	1
327993	Mineral Wool	51	3,750	0	*	34	*	0	*	*	2.9
331	Primary Metals	2,123	144,502	*	3	652	1	2	22	342	2.1
331111	Iron and Steel Mills	1,455	53,915	*	2	377	*	2	21	311	2.5
331112	Electrometallurgical Ferroalloy Products	24	3,555	0	*	7	*	*	*	2	2.6
3312	Steel Products from Purchased Steel	41	4,611	*	*	23	*	0	0	1	12.3
3313	Alumina and Aluminum	351	56,673	*	*	127	*	0	*	26	1.9
331312	Primary Aluminum	208	W	*	*	19	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	95	9,855	*	*	42	*	*	*	3	4.6
3315	Foundries	157	15,893	*	*	75	*	*	1	*	3.8
331511	Iron Foundries	81	8,211	0	*	27	*	*	1	*	4.7
331521	Aluminum Die-Casting Foundries	23	1,897	*	*	16	*	0	0	*	2.4
331524	Aluminum Foundries, except Die-Casting	19	1,350	*	*	14	*	0	0	*	4.8
332	Fabricated Metal Products	387	47,123	*	1	204	1	*	*	2	17.1
333	Machinery	175	24,563	*	*	80	1	*	0	4	11.5

Table 3.1 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
334	Computer and Electronic Products	200	38,352	*	*	63	*	*	0	2	17.7
334413	Semiconductors and Related Devices	66	13,001	*	*	21	*	0	0	Q	3.9
335	Electrical Equip., Appliances, and Components	103	13,901	*	*	51	*	*	0	1	6.7
336	Transportation Equipment	424	50,508	1	1	197	1	*	0	28	5.9
336112	Light Trucks and Utility Vehicles	57	W	*	*	35	*	W	0	3	1
337	Furniture and Related Products	63	7,062	*	*	24	*	*	0	11	10.1
339	Miscellaneous	71	10,374	*	*	31	*	0	0	2	9.3
	Total	16,276	832,061	34	24	5,641	26	53	23	5,431	3
	Northeast Census Region										
	RSE Column Factors:	1	1.1	1	1.5	1	1.8	0.8	0.6	0.8	
311	Food	90	6,440	1	1	53	*	*	0	Q	23
311221	Wet Corn Milling	*	W	W	W	0	0	0	0	W	1
31131	Sugar	W	W	*	*	W	*	0	0	*	0.9
311421	Fruit and Vegetable Canning	5	342	*	*	3	*	0	0	*	10.9
312	Beverage and Tobacco Products	13	1,000	*	*	7	*	0	0	1	4.9
3121	Beverages	12	W	*	W	W	W	0	0	1	5.4
3122	Tobacco	1	W	*	W	W	W	0	0	*	0.9
313	Textile Mills	24	1,337	*	*	13	*	0	0	*	25.4
314	Textile Product Mills	4	425	*	*	2	*	*	0	*	4.3
315	Apparel	6	567	0	*	4	*	0	0	0	27.6
316	Leather and Allied Products	W	111	*	*	W	*	0	0	*	11
321	Wood Products	22	1,319	*	*	4	*	0	0	11	12.7
321113	Sawmills	7	380	*	*	*	*	0	0	4	5.7
3212	Veneer, Plywood, and Engineered Woods	5	316	*	*	2	*	0	0	2	11.8
3219	Other Wood Products	10	682	*	*	2	*	0	0	5	20.3
322	Paper	284	8,114	6	*	W	*	W	0	127	3.8
322110	Pulp Mills	W	37	W	0	W	*	0	0	0	8.4
322121	Paper Mills, except Newsprint	218	2,891	4	*	46	*	1	0	118	3.2
322122	Newsprint Mills	7	W	W	*	0	0	0	0	0	0.9
322130	Paperboard Mills	28	983	1	*	W	W	W	0	W	2.7
323	Printing and Related Support	23	3,164	W	*	W	*	0	0	*	15
324	Petroleum and Coal Products	223	3,103	1	1	43	*	*	*	153	3.2
324110	Petroleum Refineries	202	2,585	*	*	35	*	*	0	151	1.5
324199	Other Petroleum and Coal Products	4	71	*	*	*	*	*	*	1	1
325	Chemicals	163	12,367	W	1	W	*	W	0	21	7.4
325110	Petrochemicals	W	19	0	*	W	0	0	0	0	1.8
325120	Industrial Gases	9	1,961	0	W	W	0	0	0	2	1
325181	Alkalies and Chlorine	W	W	*	*	*	*	0	0	W	1
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	13	963	W	*	W	*	0	0	Q	2.8
325192	Cyclic Crudes and Intermediates	6	205	W	*	W	*	0	0	W	0.9
325193	Ethyl Alcohol	*	W	0	0	*	0	0	0	W	1
325199	Other Basic Organic Chemicals	17	764	W	*	W	*	0	0	6	8.2
325211	Plastics Materials and Resins	14	1,010	W	*	W	*	0	0	3	12.9
325212	Synthetic Rubber	1	50	0	*	*	*	0	0	*	0.9
325222	Noncellulosic Organic Fibers	*	W	W	0	W	*	0	0	*	5.8
325311	Nitrogenous Fertilizers	2	74	0	*	1	*	0	0	*	0.9
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	43	2,814	W	*	W	*	0	0	2	7.6
325412	Pharmaceutical Preparation	31	2,166	*	*	20	*	0	0	1	10.2
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	W	*	W	*	W	0	*	4.3
326	Plastics and Rubber Products	46	7,558	*	*	14	*	*	0	1	8.4
327	Nonmetallic Mineral Products	151	6,575	W	1	W	*	2	*	18	5.2
3272	Glass and Glass Products	40	2,089	W	W	W	*	0	0	2	3.6
327211	Flat Glass	11	321	0	W	W	W	0	0	W	0.9
327213	Glass Containers	13	751	0	W	W	*	0	0	*	0.9
327310	Cements	56	1,648	W	W	*	*	W	*	14	1
327410	Lime	6	W	0	W	*	W	W	0	1	0.9
327993	Mineral Wool	5	346	0	*	3	*	0	*	*	3.3
331	Primary Metals	241	15,021	*	*	W	*	W	1	71	5.8
331111	Iron and Steel Mills	152	6,071	0	*	W	*	W	1	W	2.9
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	W	*	0	0	W	0.9
3312	Steel Products from Purchased Steel	W	W	*	*	W	*	0	0	W	15.3

Table 3.1 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
3313	Alumina and Aluminum	37	W	*	*	W	*	0	0	W	1.2
331312	Primary Aluminum	W	W	*	*	W	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	24	1,634	*	*	W	*	*	*	W	4.1
3315	Foundries	W	1,284	*	*	W	*	*	*	*	4.3
331511	Iron Foundries	13	607	0	*	3	*	*	*	*	5.3
331521	Aluminum Die-Casting Foundries	1	52	0	*	*	*	0	0	*	3.4
331524	Aluminum Foundries, except Die-Casting	3	209	*	*	2	*	0	0	*	1.4
332	Fabricated Metal Products	55	6,449	W	*	W	*	*	*	1	19
333	Machinery	27	3,692	*	*	12	*	0	0	Q	14.8
334	Computer and Electronic Products	61	11,167	*	*	20	*	*	0	1	30.4
334413	Semiconductors and Related Devices	14	2,390	*	*	5	*	0	0	Q	2.3
335	Electrical Equip., Appliances, and Components	17	2,013	*	*	9	*	0	0	*	15.9
336	Transportation Equipment	49	4,026	1	*	20	*	0	0	11	4.8
336112	Light Trucks and Utility Vehicles	2	W	0	W	W	*	0	0	W	0.9
337	Furniture and Related Products	W	831	0	*	W	*	0	0	1	12.3
339	Miscellaneous	21	2,521	W	*	W	*	0	0	2	13.5
	Total	1,530	97,798	11	5	523	2	4	2	422	4.2
	Midwest Census Region										
	RSE Column Factors:	1.1	1.1	0.9	1.3	1.2	2	0.5	0.6	1.1	
311	Food	533	28,311	1	*	240	*	7	*	24	10.7
311221	Wet Corn Milling	191	5,846	W	*	51	W	5	0	6	0.9
31131	Sugar	29	379	*	*	5	*	1	*	*	1
311421	Fruit and Vegetable Canning	7	397	*	*	5	*	0	0	*	3.1
312	Beverage and Tobacco Products	22	1,391	*	*	10	*	*	0	1	3.4
3121	Beverages	22	W	*	W	W	W	*	0	1	3.4
3122	Tobacco	*	W	0	W	W	W	0	0	*	0.8
313	Textile Mills	3	310	0	*	W	W	0	0	*	6.5
314	Textile Product Mills	2	307	0	0	W	W	0	0	W	9.4
315	Apparel	1	193	0	0	W	W	0	0	W	13.9
316	Leather and Allied Products	4	428	0	*	3	*	0	0	*	13.3
321	Wood Products	47	3,050	*	*	W	*	W	0	20	5.2
321113	Sawmills	5	428	0	*	1	*	0	0	3	9.5
3212	Veneer, Plywood, and Engineered Woods	23	1,026	*	*	W	*	W	0	11	3.4
3219	Other Wood Products	17	1,558	0	*	5	*	0	0	Q	11.7
322	Paper	337	14,825	1	*	97	Q	4	*	93	3.4
322110	Pulp Mills	W	119	0	*	W	*	W	0	W	0.9
322121	Paper Mills, except Newsprint	212	8,153	1	*	51	*	3	*	60	2.3
322122	Newsprint Mills	4	W	0	*	W	*	W	0	W	0.9
322130	Paperboard Mills	60	2,452	W	*	W	W	W	0	W	6.1
323	Printing and Related Support	34	5,171	0	*	14	*	0	0	1	13.4
324	Petroleum and Coal Products	485	6,758	1	*	100	2	0	0	344	4.4
324110	Petroleum Refineries	457	6,047	1	*	82	1	0	0	339	2.5
324199	Other Petroleum and Coal Products	4	60	0	*	*	*	0	0	4	0.8
325	Chemicals	493	29,236	W	*	183	W	3	*	141	7.3
325110	Petrochemicals	W	W	0	*	W	W	0	0	*	0.8
325120	Industrial Gases	Q	6,276	0	0	W	0	0	0	W	1.3
325181	Alkalies and Chlorine	W	W	0	*	W	*	W	0	*	4.2
325182	Carbon Black	W	56	W	0	1	*	0	0	1	0.9
325188	Other Basic Inorganic Chemicals	42	2,116	W	*	W	*	W	*	14	2.8
325192	Cyclic Crudes and Intermediates	9	W	W	W	W	*	0	0	W	0.8
325193	Ethyl Alcohol	57	1,218	0	*	28	*	1	0	6	5.6
325199	Other Basic Organic Chemicals	74	4,042	0	W	19	*	W	0	Q	2.9
325211	Plastics Materials and Resins	75	4,322	W	*	W	*	*	*	33	3.6
325212	Synthetic Rubber	4	233	0	*	W	*	W	0	*	3.4
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	36	1,070	0	*	30	0	0	0	1	0.9
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	44	4,089	W	*	W	*	*	0	1	6.7
325412	Pharmaceutical Preparation	34	3,612	*	*	12	*	*	0	*	2.6
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	0	W	*	0	0	0	3.6
326	Plastics and Rubber Products	137	19,776	*	*	47	*	Q	0	1	12.3
327	Nonmetallic Mineral Products	303	10,674	W	Q	W	*	4	*	59	5.2
3272	Glass and Glass Products	58	3,618	0	*	43	*	0	0	1	1.5

Table 3.1 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
327211	Flat Glass	19	469	0	*	16	*	0	0	1	0.8
327213	Glass Containers	16	978	0	W	W	*	0	0	*	0.8
327310	Cements	117	3,036	0	W	W	*	2	*	45	3.6
327410	Lime	48	487	W	*	4	W	1	*	12	1
327993	Mineral Wool	20	1,427	0	*	13	*	0	*	*	1.3
331	Primary Metals	1,186	55,534	*	1	326	*	1	17	215	2
331111	Iron and Steel Mills	937	22,557	*	1	217	*	1	16	209	2.3
331112	Electrometallurgical Ferroalloy Products	19	2,337	0	*	W	*	*	*	W	1
3312	Steel Products from Purchased Steel	22	2,160	0	*	W	*	0	0	W	7.8
3313	Alumina and Aluminum	89	15,954	0	*	W	*	0	0	W	3
331312	Primary Aluminum	53	13,892	0	*	W	*	0	0	W	0.8
3314	Nonferrous Metals, except Aluminum	26	2,716	*	*	W	*	0	*	W	5.7
3315	Foundries	93	9,810	*	*	46	*	*	*	*	3
331511	Iron Foundries	47	5,634	0	*	16	*	*	*	*	4.3
331521	Aluminum Die-Casting Foundries	17	1,510	*	*	12	*	0	0	*	3.1
331524	Aluminum Foundries, except Die-Casting	11	828	0	*	8	*	0	0	*	2.8
332	Fabricated Metal Products	182	21,313	W	*	W	*	*	*	1	15.5
333	Machinery	92	11,445	0	*	46	*	*	0	2	12.3
334	Computer and Electronic Products	32	5,270	0	*	W	W	0	0	1	7.2
334413	Semiconductors and Related Devices	3	594	0	*	1	*	0	0	0	1.5
335	Electrical Equip., Appliances, and Components	36	4,949	0	*	18	*	*	0	*	4.7
336	Transportation Equipment	238	27,614	*	*	W	1	W	0	14	12.4
336112	Light Trucks and Utility Vehicles	36	3,047	*	*	W	*	W	0	W	0.9
337	Furniture and Related Products	25	2,242	0	*	W	*	W	0	5	13.8
339	Miscellaneous	19	2,786	W	*	W	*	0	0	*	8.9
	Total	4,213	251,584	4	5	1,455	5	20	17	921	4.6
	South Census Region										
	RSE Column Factors:	0.9	1.1	0.9	1.3	1	1.8	0.7	0.7	1	
311	Food	322	22,923	Q	1	165	1	*	0	53	8.3
311221	Wet Corn Milling	20	1,070	0	*	5	*	*	0	4	0.9
31131	Sugar	57	205	*	*	10	*	*	0	42	0.9
311421	Fruit and Vegetable Canning	14	534	*	*	10	*	0	0	*	8.5
312	Beverage and Tobacco Products	45	3,457	*	*	18	*	*	0	2	3.4
3121	Beverages	27	2,283	*	*	15	*	*	0	2	3.8
3122	Tobacco	18	1,174	*	*	3	*	*	0	*	0.9
313	Textile Mills	168	22,688	*	*	50	*	1	0	15	18.4
314	Textile Product Mills	51	3,928	*	*	23	W	*	0	W	21.6
315	Apparel	15	1,956	*	*	W	*	0	0	W	22.8
316	Leather and Allied Products	1	142	0	*	*	*	0	0	*	9.2
321	Wood Products	213	11,501	*	1	W	1	W	0	142	7
321113	Sawmills	70	3,159	0	*	3	*	0	0	54	9.8
3212	Veneer, Plywood, and Engineered Woods	101	5,985	*	*	W	*	W	0	60	8
3219	Other Wood Products	38	2,166	0	*	3	*	0	0	27	12.4
322	Paper	1,434	30,148	8	2	236	*	6	0	888	2.1
322110	Pulp Mills	194	1,155	2	1	W	*	W	0	156	0.9
322121	Paper Mills, except Newsprint	473	9,124	2	*	77	*	3	0	284	1.6
322122	Newsprint Mills	48	4,866	*	*	W	*	W	0	W	0.9
322130	Paperboard Mills	673	9,828	4	*	105	W	W	0	433	2.6
323	Printing and Related Support	28	4,527	W	*	W	*	0	0	*	7.7
324	Petroleum and Coal Products	1,798	22,236	1	1	548	2	*	0	1,128	4.4
324110	Petroleum Refineries	1,749	21,420	1	*	529	2	0	0	1,119	1.9
324199	Other Petroleum and Coal Products	20	16	0	*	2	*	*	0	8	2.4
325	Chemicals	2,958	99,875	W	1	1,301	W	10	*	988	5.8
325110	Petrochemicals	470	W	W	*	W	W	W	0	233	0.9
325120	Industrial Gases	85	10,880	0	W	46	*	0	0	W	4.3
325181	Alkalies and Chlorine	131	8,681	0	*	W	*	W	0	W	0.9
325182	Carbon Black	W	549	W	*	9	*	0	0	16	0.9
325188	Other Basic Inorganic Chemicals	114	19,919	W	*	W	*	W	0	11	2
325192	Cyclic Crudes and Intermediates	57	2,980	W	W	25	*	0	0	21	0.9
325193	Ethyl Alcohol	*	W	0	*	*	*	0	0	W	0.9
325199	Other Basic Organic Chemicals	1,087	17,815	2	W	385	W	W	0	474	14.9
325211	Plastics Materials and Resins	573	15,824	W	W	312	*	Q	0	177	4
325212	Synthetic Rubber	47	1,577	*	*	W	*	W	0	12	8.5

Table 3.1 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
325222	Noncellulosic Organic Fibers	60	4,241	W	*	W	*	W	0	3	0.9
325311	Nitrogenous Fertilizers	137	1,889	0	*	125	*	0	0	2	0.9
325312	Phosphatic Fertilizers	19	525	*	*	13	*	*	*	*	1
3254	Pharmaceuticals and Medicines	25	2,740	*	*	8	*	0	0	6	8
325412	Pharmaceutical Preparation	14	1,868	*	*	4	*	0	0	3	12.4
325992	Photographic Film, Paper, Plate, and Chemicals	5	747	W	*	W	*	0	0	*	5.4
326	Plastics and Rubber Products	141	21,454	1	*	56	*	0	0	2	13.6
327	Nonmetallic Mineral Products	421	17,738	W	2	179	W	5	*	42	5.7
3272	Glass and Glass Products	80	5,095	W	W	W	*	0	0	1	2.3
327211	Flat Glass	25	840	W	W	W	W	0	0	1	0.9
327213	Glass Containers	22	1,233	0	*	18	*	0	0	*	0.9
327310	Cements	149	5,005	0	*	10	*	4	*	24	3.8
327410	Lime	39	575	0	*	3	*	1	0	11	0.9
327993	Mineral Wool	21	1,448	0	*	14	*	0	*	*	3.7
331	Primary Metals	606	60,466	*	*	221	*	*	4	55	1.6
331111	Iron and Steel Mills	333	21,615	*	*	W	*	*	4	W	1.8
331112	Electrometallurgical Ferroalloy Products	4	W	0	*	W	*	0	0	W	11.1
3312	Steel Products from Purchased Steel	11	W	0	*	W	*	0	0	W	19.7
3313	Alumina and Aluminum	195	29,063	0	*	W	*	0	*	W	2.7
331312	Primary Aluminum	110	24,945	0	*	W	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	27	3,205	0	*	W	*	0	*	W	10.9
3315	Foundries	37	4,079	0	*	18	*	*	*	*	1.5
331511	Iron Foundries	18	1,804	0	*	7	*	0	*	*	1.7
331521	Aluminum Die-Casting Foundries	4	274	0	*	3	*	0	0	*	1.7
331524	Aluminum Foundries, except Die-Casting	4	244	0	*	3	*	0	0	*	3.7
332	Fabricated Metal Products	120	15,240	W	*	W	*	*	0	Q	15.2
333	Machinery	43	7,273	0	*	16	*	0	0	*	10
334	Computer and Electronic Products	40	9,179	0	*	8	*	0	0	*	6.6
334413	Semiconductors and Related Devices	16	3,641	0	*	3	*	0	0	*	3.1
335	Electrical Equip., Appliances, and Components	40	6,026	*	*	18	*	0	0	1	10.1
336	Transportation Equipment	101	14,135	*	*	W	*	W	0	3	5.9
336112	Light Trucks and Utility Vehicles	19	W	0	*	W	*	0	0	1	0.9
337	Furniture and Related Products	25	3,181	0	*	W	*	W	0	5	18.3
339	Miscellaneous	19	3,041	W	*	W	*	0	0	*	15.2
	Total	8,589	381,113	17	9	3,005	15	24	5	3,327	3.5
	West Census Region										
	RSE Column Factors:	1.2	1.2	0.7	1.4	1.3	1.9	0.6	0.5	1	
311	Food	170	9,848	*	1	102	*	1	*	9	7.5
311221	Wet Corn Milling	5	W	0	W	4	W	0	0	W	3.6
31131	Sugar	W	W	*	*	W	*	1	*	3	1
311421	Fruit and Vegetable Canning	20	686	*	*	17	*	0	0	*	7.1
312	Beverage and Tobacco Products	23	1,791	0	*	9	*	0	0	7	3.9
3121	Beverages	23	1,790	0	*	9	*	0	0	7	3.9
3122	Tobacco	*	*	0	0	0	0	0	0	0	0.8
313	Textile Mills	11	936	0	0	W	W	0	0	1	9.4
314	Textile Product Mills	2	215	0	0	W	W	0	0	0	17.2
315	Apparel	8	872	0	*	W	W	0	0	*	28.7
316	Leather and Allied Products	W	36	0	*	W	0	0	0	0	29.1
321	Wood Products	93	5,116	*	*	15	*	0	0	56	6.8
321113	Sawmills	46	1,879	*	*	6	*	0	0	32	6.5
3212	Veneer, Plywood, and Engineered Woods	38	2,293	0	*	7	*	0	0	22	5.1
3219	Other Wood Products	8	876	0	*	2	*	0	0	Q	12
322	Paper	307	12,417	1	*	W	*	W	0	168	1.4
322110	Pulp Mills	W	268	W	*	W	*	0	0	W	0.8
322121	Paper Mills, except Newsprint	99	2,664	*	*	26	*	0	0	60	1.8
322122	Newsprint Mills	34	4,767	W	*	W	*	0	0	W	0.8
322130	Paperboard Mills	145	3,106	W	*	W	*	W	0	87	1
323	Printing and Related Support	14	1,852	0	*	8	*	0	0	*	17.1
324	Petroleum and Coal Products	696	5,089	1	*	163	2	0	0	495	8.1
324110	Petroleum Refineries	677	5,425	1	*	153	2	0	0	488	5.8
324199	Other Petroleum and Coal Products	6	-680	0	*	2	0	0	0	6	0.8
325	Chemicals	155	11,626	W	*	W	W	W	0	9	4.6
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0

Table 3.1 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
325120	Industrial Gases	15	W	0	0	W	0	0	0	0	1.5
325181	Alkalies and Chlorine	31	1,785	0	*	W	*	W	0	W	0.9
325182	Carbon Black	*	*	0	0	*	*	0	0	0	0.7
325188	Other Basic Inorganic Chemicals	41	2,907	W	*	W	*	W	0	3	1.5
325192	Cyclic Crudes and Intermediates	*	W	0	*	W	*	0	0	W	0.8
325193	Ethyl Alcohol	2	47	0	*	1	*	0	0	1	0.8
325199	Other Basic Organic Chemicals	5	296	W	W	W	*	0	0	1	7.6
325211	Plastics Materials and Resins	4	340	0	W	W	*	0	0	1	4.7
325212	Synthetic Rubber	*	18	0	0	*	*	0	0	*	0.8
325222	Noncellulosic Organic Fibers	*	2	0	0	0	*	0	0	0	0.7
325311	Nitrogenous Fertilizers	30	463	0	*	28	*	0	0	*	0.8
325312	Phosphatic Fertilizers	8	500	0	*	6	*	0	0	*	0.8
3254	Pharmaceuticals and Medicines	9	1,071	0	*	5	*	0	0	*	4.1
325412	Pharmaceutical Preparation	5	665	0	*	3	*	0	0	*	5.7
325992	Photographic Film, Paper, Plate, and Chemicals	3	W	0	*	W	*	0	0	0	0.7
326	Plastics and Rubber Products	24	4,393	0	*	8	*	0	0	*	13.2
327	Nonmetallic Mineral Products	178	6,406	W	2	W	W	3	*	14	3.6
3272	Glass and Glass Products	23	1,431	W	W	W	*	0	0	*	1
327211	Flat Glass	7	212	W	W	W	W	0	0	W	0.8
327213	Glass Containers	14	970	0	W	W	*	0	0	*	0.8
327310	Cements	87	2,782	W	*	W	*	W	*	12	1.3
327410	Lime	14	W	W	W	1	*	W	0	2	0.9
327993	Mineral Wool	5	528	0	*	3	*	0	*	*	1.1
331	Primary Metals	91	13,481	0	*	W	*	W	*	1	2
331111	Iron and Steel Mills	32	3,672	0	*	W	*	W	*	W	2.1
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	W	*	0	0	W	0.8
3312	Steel Products from Purchased Steel	W	W	0	*	W	*	0	0	*	2.6
3313	Alumina and Aluminum	31	W	0	*	W	*	0	0	W	2.9
331312	Primary Aluminum	W	W	0	*	W	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	18	2,299	0	*	8	*	0	0	*	4.4
3315	Foundries	W	720	0	*	W	*	*	*	*	2.4
331511	Iron Foundries	2	166	0	*	1	*	*	*	*	1.2
331521	Aluminum Die-Casting Foundries	1	61	0	0	*	*	0	0	*	12.1
331524	Aluminum Foundries, except Die-Casting	1	69	0	*	1	*	0	0	*	2.2
332	Fabricated Metal Products	30	4,121	0	*	15	*	0	0	*	11.9
333	Machinery	13	2,153	0	*	6	*	0	0	*	10.2
334	Computer and Electronic Products	67	12,736	*	*	W	W	0	0	*	6.5
334413	Semiconductors and Related Devices	34	6,376	0	*	12	*	0	0	*	6
335	Electrical Equip., Appliances, and Components	10	912	0	*	Q	*	0	0	*	5.6
336	Transportation Equipment	36	4,733	0	*	18	*	0	0	1	12.8
336112	Light Trucks and Utility Vehicles	*	W	0	W	*	*	0	0	*	0.8
337	Furniture and Related Products	W	807	*	*	W	*	0	0	*	13.4
339	Miscellaneous	12	2,026	0	*	5	*	0	0	*	15.2
	Total	1,945	101,565	2	5	658	4	5	*	761	3.3

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

(b) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

(c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(d) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(e) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(f) 'Other' includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power.

NF=No applicable RSE row/column factor.

Table 3.1 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors

* 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. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.
During manufacturing processes, it is possible that the thermal energy content of an energy input is not completely consumed for the production of heat, power, or electricity generation. Hence, residuals of that input may remain. Those residual leftovers may be subsequently consumed for fuel purposes, whether onsite or offsite at another manufacturing establishment (for example, blast furnace gas as a byproduct recovered from coke and other inputs that were not completely consumed). In such cases, double counting of inputs cannot be avoided, and the "Fuel Consumption" estimates will be inflated.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002.

Table 3.2 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
	Total United States										
	RSE Column Factors:	0.8	0.8	1.1	1.6	0.9	1.8	0.7	0.7	1.1	
311	Food	1,116	230	13	19	575	5	184	1	90	7.6
311221	Wet Corn Milling	217	23	*	*	61	*	121	0	11	1.2
31131	Sugar	111	2	2	1	22	*	37	1	46	1
311421	Fruit and Vegetable Canning	47	7	1	1	36	Q	0	0	1	12.5
312	Beverage and Tobacco Products	104	26	2	2	46	1	17	0	10	4.4
3121	Beverages	85	22	1	2	42	1	8	0	10	5.9
3122	Tobacco	19	4	1	*	4	*	10	0	*	1
313	Textile Mills	205	86	4	2	74	2	22	0	15	15.7
314	Textile Product Mills	60	17	2	Q	29	1	Q	0	Q	21.7
315	Apparel	30	12	*	1	16	*	0	0	*	23.2
316	Leather and Allied Products	7	2	*	*	4	*	0	0	*	8.5
321	Wood Products	375	72	1	10	57	5	1	0	229	4.5
321113	Sawmills	128	20	*	5	10	1	0	0	92	5.4
3212	Veneer, Plywood, and Engineered Woods	167	33	1	2	33	3	1	0	95	5.2
3219	Other Wood Products	73	18	*	2	11	1	0	0	40	9
322	Paper	2,361	223	100	13	504	6	234	4	1,276	2
322110	Pulp Mills	224	5	W	5	24	*	W	0	175	1
322121	Paper Mills, except Newsprint	1,002	78	47	4	206	1	139	4	522	1.9
322122	Newsprint Mills	94	38	W	*	16	*	W	0	27	1
322130	Paperboard Mills	907	56	34	4	188	*	83	0	542	2.3
323	Printing and Related Support	98	50	*	*	46	1	0	0	1	11.7
324	Petroleum and Coal Products	3,202	127	25	16	878	24	13	*	2,119	3.6
324110	Petroleum Refineries	3,086	121	21	5	821	20	1	0	2,097	3.3
324199	Other Petroleum and Coal Products	34	-2	*	*	5	*	11	*	19	1.4
325	Chemicals	3,769	522	43	14	1,678	37	314	1	1,158	4.7
325110	Petrochemicals	474	W	W	*	172	W	W	0	233	1
325120	Industrial Gases	177	W	0	*	52	*	0	0	W	6.2
325181	Alkalies and Chlorine	173	42	*	*	94	*	20	0	16	1.4
325182	Carbon Black	42	2	14	*	10	*	0	0	16	0.9
325188	Other Basic Inorganic Chemicals	210	88	2	2	68	*	19	*	30	3
325192	Cyclic Crudes and Intermediates	72	12	*	*	37	*	0	0	23	0.9
325193	Ethyl Alcohol	60	W	0	*	30	*	19	0	W	5.7
325199	Other Basic Organic Chemicals	1,184	78	13	2	425	W	W	0	514	13.3
325211	Plastics Materials and Resins	665	73	1	1	348	*	27	*	214	6.7
325212	Synthetic Rubber	52	6	*	*	28	*	5	0	12	7.4
325222	Noncellulosic Organic Fibers	61	W	W	*	30	*	W	0	3	1.6
325311	Nitrogenous Fertilizers	205	12	0	*	189	*	0	0	4	0.9
325312	Phosphatic Fertilizers	27	3	1	1	19	*	1	1	1	1
3254	Pharmaceuticals and Medicines	121	37	2	3	62	*	9	0	9	5.1
325412	Pharmaceutical Preparation	84	28	2	1	40	*	9	0	4	6
325992	Photographic Film, Paper, Plate, and Chemicals	29	W	1	*	7	*	W	0	*	6.3
326	Plastics and Rubber Products	348	181	7	2	128	3	Q	0	5	9.5
327	Nonmetallic Mineral Products	1,052	141	3	31	421	3	309	11	133	4
3272	Glass and Glass Products	200	42	W	W	152	1	0	0	4	2.4
327211	Flat Glass	62	6	W	W	52	*	0	0	2	0.9
327213	Glass Containers	66	13	0	*	52	*	0	0	*	0.9
327310	Cements	409	43	1	6	21	*	236	8	95	2.1
327410	Lime	106	5	1	1	8	*	66	*	26	1
327993	Mineral Wool	51	13	0	*	35	*	0	3	*	2.9
331	Primary Metals	2,123	493	1	15	669	3	47	553	342	2.1
331111	Iron and Steel Mills	1,455	184	1	10	388	*	36	526	311	2.6
331112	Electrometallurgical Ferroalloy Products	24	12	0	*	7	*	2	*	2	2.6
3312	Steel Products from Purchased Steel	41	16	*	*	24	*	0	0	1	12.3
3313	Alumina and Aluminum	351	193	*	1	130	1	0	*	26	1.9
331312	Primary Aluminum	208	W	*	*	20	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	95	34	*	2	44	1	8	4	3	4.6
3315	Foundries	157	54	*	1	77	1	1	23	*	3.8
331511	Iron Foundries	81	28	0	1	27	*	1	23	*	4.7
331521	Aluminum Die-Casting Foundries	23	6	*	*	16	*	0	0	*	2.4
331524	Aluminum Foundries, except Die-Casting	19	5	*	*	14	*	0	0	*	4.8
332	Fabricated Metal Products	387	161	Q	6	209	3	1	Q	2	17.2
333	Machinery	175	84	*	2	82	2	1	0	4	11.5
334	Computer and Electronic Products	200	131	1	1	65	*	*	0	2	17.7
334413	Semiconductors and Related Devices	66	44	*	*	21	*	0	0	Q	3.9
335	Electrical Equip., Appliances, and Components	103	47	*	1	53	1	*	0	1	6.8

Table 3.2 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
336	Transportation Equipment	424	172	6	3	203	4	8	0	28	5.8
336112	Light Trucks and Utility Vehicles	57	W	*	*	36	*	W	0	3	1
337	Furniture and Related Products	63	24	*	1	25	1	1	0	11	10.1
339	Miscellaneous	71	35	*	*	32	1	0	0	2	9.3
	Total	16,276	2,839	211	142	5,794	103	1,182	574	5,431	2.9
	Northeast Census Region										
	RSE Column Factors:	1	1.1	1	1.6	1	1.8	0.8	0.6	0.8	
311	Food	90	22	5	3	55	*	2	0	Q	23
311221	Wet Corn Milling	*	W	W	W	0	0	0	0	W	1
31131	Sugar	W	W	*	*	W	*	0	0	*	0.9
311421	Fruit and Vegetable Canning	5	1	Q	*	3	*	0	0	*	10.9
312	Beverage and Tobacco Products	13	3	1	*	7	*	0	0	1	4.9
3121	Beverages	12	W	1	W	W	W	0	0	1	5.4
3122	Tobacco	1	W	*	W	W	W	0	0	*	0.9
313	Textile Mills	24	5	3	1	14	1	0	0	*	25.4
314	Textile Product Mills	4	1	*	*	2	*	*	0	*	4.3
315	Apparel	6	2	0	*	4	*	0	0	0	27.6
316	Leather and Allied Products	W	*	*	*	W	*	0	0	*	11
321	Wood Products	22	4	*	2	4	1	0	0	11	12.7
321113	Sawmills	7	1	*	2	*	*	0	0	4	5.7
3212	Veneer, Plywood, and Engineered Woods	5	1	*	*	2	*	0	0	2	11.8
3219	Other Wood Products	10	2	*	1	2	*	0	0	5	20.3
322	Paper	284	28	37	2	W	1	W	0	127	3.7
322110	Pulp Mills	W	*	W	0	W	*	0	0	0	8.7
322121	Paper Mills, except Newsprint	218	10	25	1	48	1	15	0	118	3.2
322122	Newsprint Mills	7	W	W	*	0	0	0	0	0	0.9
322130	Paperboard Mills	28	3	5	*	W	W	W	0	W	2.7
323	Printing and Related Support	23	11	W	*	W	*	0	0	*	15
324	Petroleum and Coal Products	223	11	4	7	44	1	3	*	153	3.2
324110	Petroleum Refineries	202	9	3	1	36	1	1	0	151	1.5
324199	Other Petroleum and Coal Products	4	*	*	*	*	*	1	*	1	1
325	Chemicals	163	42	W	4	W	1	W	0	21	7.4
325110	Petrochemicals	W	*	0	*	W	0	0	0	0	1.8
325120	Industrial Gases	9	7	0	W	W	0	0	0	2	1
325181	Alkalies and Chlorine	W	W	*	*	*	*	0	0	W	1
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	13	3	W	1	W	*	0	0	Q	2.8
325192	Cyclic Crudes and Intermediates	6	1	W	*	W	*	0	0	W	0.9
325193	Ethyl Alcohol	*	W	0	0	*	0	0	0	W	1.1
325199	Other Basic Organic Chemicals	17	3	W	*	W	*	0	0	6	8.2
325211	Plastics Materials and Resins	14	3	W	1	W	*	0	0	3	12.9
325212	Synthetic Rubber	1	*	0	*	*	*	0	0	*	0.9
325222	Noncellulosic Organic Fibers	*	W	W	0	W	*	0	0	*	5.8
325311	Nitrogenous Fertilizers	2	*	0	*	1	*	0	0	*	0.9
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	43	10	W	*	W	*	0	0	2	7.6
325412	Pharmaceutical Preparation	31	7	1	*	21	*	0	0	1	10.2
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	W	*	W	*	W	0	*	4.3
326	Plastics and Rubber Products	46	26	2	*	14	1	2	0	1	8.4
327	Nonmetallic Mineral Products	151	22	W	3	W	1	42	1	18	5.2
3272	Glass and Glass Products	40	7	W	W	W	*	0	0	2	3.6
327211	Flat Glass	11	1	0	W	W	W	0	0	W	0.9
327213	Glass Containers	13	3	0	W	W	*	0	0	*	0.9
327310	Cements	56	6	W	W	*	*	W	1	14	1
327410	Lime	6	W	0	W	*	W	W	0	1	0.9
327993	Mineral Wool	5	1	0	*	3	*	0	*	*	3.3
331	Primary Metals	241	51	*	2	W	1	W	36	71	5.8
331111	Iron and Steel Mills	152	21	0	1	W	*	W	27	W	2.9
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	W	*	0	0	W	0.9
3312	Steel Products from Purchased Steel	W	W	*	*	W	*	0	0	W	15.2
3313	Alumina and Aluminum	37	W	*	*	W	*	0	0	W	1.2
331312	Primary Aluminum	W	W	*	*	W	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	24	6	*	*	W	*	7	1	W	4.1
3315	Foundries	W	4	*	*	W	*	*	Q	*	4.3
331511	Iron Foundries	13	2	0	*	3	*	*	Q	*	5.3
331521	Aluminum Die-Casting Foundries	1	*	0	*	*	*	0	0	*	3.4

Table 3.2 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
331524	Aluminum Foundries, except Die-Casting	3	1	*	*	2	*	0	0	*	1.4
332	Fabricated Metal Products	55	22	W	2	W	*	*	*	1	19
333	Machinery	27	13	*	*	12	*	0	0	Q	14.8
334	Computer and Electronic Products	61	38	1	1	21	*	*	0	1	30.4
334413	Semiconductors and Related Devices	14	8	*	*	5	*	0	0	Q	2.3
335	Electrical Equip., Appliances, and Components	17	7	*	*	10	*	0	0	*	15.9
336	Transportation Equipment	49	14	4	*	20	*	0	0	11	5.6
336112	Light Trucks and Utility Vehicles	2	W	0	W	W	*	0	0	W	0.9
337	Furniture and Related Products	W	3	0	*	W	*	0	0	1	12.3
339	Miscellaneous	21	9	W	*	W	*	0	0	2	13.5
	Total	1,530	334	68	30	538	9	92	38	422	4.2
	Midwest Census Region										
	RSE Column Factors:	1.1	1.1	0.9	1.3	1.2	2	0.5	0.6	1.1	
311	Food	533	97	4	2	246	1	159	1	24	10.6
311221	Wet Corn Milling	191	20	W	*	52	W	113	0	6	0.9
31131	Sugar	29	1	1	*	5	*	21	1	*	1
311421	Fruit and Vegetable Canning	7	1	*	*	5	*	0	0	*	3.1
312	Beverage and Tobacco Products	22	5	*	Q	10	*	6	0	1	3.4
3121	Beverages	22	W	*	W	W	W	6	0	1	3.4
3122	Tobacco	*	W	0	W	W	W	0	0	*	0.8
313	Textile Mills	3	1	0	*	W	W	0	0	*	6.5
314	Textile Product Mills	2	1	0	0	W	W	0	0	W	9.4
315	Apparel	1	1	0	0	W	W	0	0	W	13.9
316	Leather and Allied Products	4	1	0	*	3	*	0	0	*	13.3
321	Wood Products	47	10	*	1	W	1	W	0	20	5.2
321113	Sawmills	5	1	0	*	1	*	0	0	3	9.5
3212	Veneer, Plywood, and Engineered Woods	23	4	*	*	W	1	W	0	11	3.4
3219	Other Wood Products	17	5	0	*	5	*	0	0	Q	11.7
322	Paper	337	51	7	1	100	Q	80	4	93	3.4
322110	Pulp Mills	W	*	0	*	W	*	W	0	W	0.9
322121	Paper Mills, except Newsprint	212	28	5	1	52	*	63	4	60	2.3
322122	Newsprint Mills	4	W	0	*	W	*	W	0	W	0.9
322130	Paperboard Mills	60	8	W	*	W	W	W	0	W	6.1
323	Printing and Related Support	34	18	0	*	15	*	0	0	1	13.4
324	Petroleum and Coal Products	485	23	8	2	102	6	0	0	344	4.4
324110	Petroleum Refineries	457	21	8	1	84	5	0	0	339	2.5
324199	Other Petroleum and Coal Products	4	*	0	*	1	*	0	0	4	0.8
325	Chemicals	493	100	W	3	188	W	58	*	141	7.3
325110	Petrochemicals	W	W	0	*	W	W	0	0	*	0.8
325120	Industrial Gases	Q	21	0	0	W	0	0	0	W	1.3
325181	Alkalies and Chlorine	W	W	0	*	W	*	W	0	*	4.2
325182	Carbon Black	W	*	W	0	1	*	0	0	1	0.9
325188	Other Basic Inorganic Chemicals	42	7	W	*	W	*	W	*	14	2.8
325192	Cyclic Crudes and Intermediates	9	W	W	W	W	*	0	0	W	0.8
325193	Ethyl Alcohol	57	4	0	*	28	*	19	0	6	5.6
325199	Other Basic Organic Chemicals	74	14	0	W	20	*	W	0	Q	2.9
325211	Plastics Materials and Resins	75	15	W	*	W	*	6	*	33	3.6
325212	Synthetic Rubber	4	1	0	*	W	*	W	0	*	3.4
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	36	4	0	*	31	0	0	0	1	0.9
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	44	14	W	2	W	*	9	0	1	6.7
325412	Pharmaceutical Preparation	34	12	*	*	13	*	9	0	*	2.6
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	0	W	*	0	0	0	3.6
326	Plastics and Rubber Products	137	67	1	*	48	1	Q	0	1	12.3
327	Nonmetallic Mineral Products	303	36	W	Q	W	1	85	2	59	5.2
3272	Glass and Glass Products	58	12	0	*	44	*	0	0	1	1.5
327211	Flat Glass	19	2	0	*	16	*	0	0	1	0.8
327213	Glass Containers	16	3	0	W	W	*	0	0	*	0.8
327310	Cements	117	10	0	W	W	*	55	*	45	3.6
327410	Lime	48	2	W	*	4	W	30	*	12	1
327993	Mineral Wool	20	5	0	*	14	*	0	1	*	1.3
331	Primary Metals	1,186	189	*	8	334	1	28	409	215	2
331111	Iron and Steel Mills	937	77	*	8	223	*	24	396	209	2.3
331112	Electrometallurgical Ferroalloy Products	19	8	0	*	W	*	2	*	W	1
3312	Steel Products from Purchased Steel	22	7	0	*	W	*	0	0	W	7.8

Table 3.2 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
3313	Alumina and Aluminum	89	54	0	*	W	*	0	0	W	3
331312	Primary Aluminum	53	47	0	*	W	*	0	0	W	0.8
3314	Nonferrous Metals, except Aluminum	26	9	*	*	W	1	0	2	W	5.7
3315	Foundries	93	33	*	*	47	*	1	10	*	3
331511	Iron Foundries	47	19	0	*	16	*	1	10	*	4.3
331521	Aluminum Die-Casting Foundries	17	5	*	*	12	*	0	0	*	3.1
331524	Aluminum Foundries, except Die-Casting	11	3	0	*	8	*	0	0	*	2.8
332	Fabricated Metal Products	182	73	W	Q	W	1	1	Q	1	15.5
333	Machinery	92	39	0	1	47	1	1	0	2	12.3
334	Computer and Electronic Products	32	18	0	*	W	W	0	0	1	7.2
334413	Semiconductors and Related Devices	3	2	0	*	1	*	0	0	0	1.5
335	Electrical Equip., Appliances, and Components	36	17	0	*	19	*	*	0	*	4.7
336	Transportation Equipment	238	94	*	1	W	2	W	0	14	12.4
336112	Light Trucks and Utility Vehicles	36	10	*	*	W	*	W	0	W	0.9
337	Furniture and Related Products	25	8	0	*	W	*	W	0	5	13.8
339	Miscellaneous	19	10	W	*	W	*	0	0	*	8.9
	Total	4,213	858	24	30	1,494	20	445	419	921	4.6
	South Census Region										
	RSE Column Factors:	0.9	1.1	0.9	1.3	1.1	1.8	0.7	0.7	1	
311	Food	322	78	Q	6	169	2	10	0	53	8.3
311221	Wet Corn Milling	20	4	0	*	5	*	8	0	4	0.9
31131	Sugar	57	1	1	1	10	*	2	0	42	0.9
311421	Fruit and Vegetable Canning	14	2	*	Q	11	Q	0	0	*	8.4
312	Beverage and Tobacco Products	45	12	1	Q	19	*	11	0	2	3.4
3121	Beverages	27	8	*	Q	15	*	1	0	2	3.8
3122	Tobacco	18	4	1	*	3	*	10	0	*	0.9
313	Textile Mills	168	77	1	1	52	*	22	0	15	18.4
314	Textile Product Mills	51	13	2	Q	24	W	Q	0	W	21.5
315	Apparel	15	7	*	Q	W	*	0	0	W	22.7
316	Leather and Allied Products	1	*	0	*	*	*	0	0	*	9.1
321	Wood Products	213	39	*	4	W	2	W	0	142	7
321113	Sawmills	70	11	0	2	3	*	0	0	54	9.7
3212	Veneer, Plywood, and Engineered Woods	101	20	*	1	W	1	W	0	60	8
3219	Other Wood Products	38	7	0	1	3	*	0	0	27	12.3
322	Paper	1,434	103	51	9	243	2	137	0	888	2.1
322110	Pulp Mills	194	4	10	5	W	*	W	0	156	0.9
322121	Paper Mills, except Newsprint	473	31	15	2	79	*	61	0	284	1.6
322122	Newsprint Mills	48	17	*	*	W	*	W	0	W	0.9
322130	Paperboard Mills	673	34	27	2	108	W	W	0	433	2.6
323	Printing and Related Support	28	15	W	*	W	*	0	0	*	7.6
324	Petroleum and Coal Products	1,798	76	8	6	563	7	10	0	1,128	4.4
324110	Petroleum Refineries	1,749	73	5	2	544	6	0	0	1,119	1.9
324199	Other Petroleum and Coal Products	20	*	0	*	2	*	10	0	8	2.4
325	Chemicals	2,958	341	W	6	1,336	W	218	1	988	5.8
325110	Petrochemicals	470	W	W	*	W	W	W	0	233	0.9
325120	Industrial Gases	85	37	0	W	47	*	0	0	W	4.3
325181	Alkalies and Chlorine	131	30	0	*	W	*	W	0	W	0.9
325182	Carbon Black	W	2	W	*	9	*	0	0	16	0.9
325188	Other Basic Inorganic Chemicals	114	68	W	1	W	*	W	0	11	2
325192	Cyclic Crudes and Intermediates	57	10	W	W	26	*	0	0	21	0.9
325193	Ethyl Alcohol	*	W	0	*	*	*	0	0	W	0.9
325199	Other Basic Organic Chemicals	1,087	61	12	W	395	W	W	0	474	14.8
325211	Plastics Materials and Resins	573	54	W	W	321	*	Q	0	177	3.9
325212	Synthetic Rubber	47	5	*	*	W	*	W	0	12	8.5
325222	Noncellulosic Organic Fibers	60	14	W	*	W	*	W	0	3	0.9
325311	Nitrogenous Fertilizers	137	6	0	*	128	*	0	0	2	0.9
325312	Phosphatic Fertilizers	19	2	1	1	13	*	1	1	*	1
3254	Pharmaceuticals and Medicines	25	9	1	*	8	*	0	0	6	7.9
325412	Pharmaceutical Preparation	14	6	1	*	4	*	0	0	3	12.3
325992	Photographic Film, Paper, Plate, and Chemicals	5	3	W	*	W	*	0	0	*	5.4
326	Plastics and Rubber Products	141	73	5	1	57	1	0	0	2	13.5
327	Nonmetallic Mineral Products	421	61	W	10	184	W	116	8	42	5.7
3272	Glass and Glass Products	80	17	W	W	W	*	0	0	1	2.2
327211	Flat Glass	25	3	W	W	W	W	0	0	1	0.9
327213	Glass Containers	22	4	0	*	18	*	0	0	*	0.9
327310	Cements	149	17	0	2	10	*	89	7	24	3.8

Table 3.2 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
327410	Lime	39	2	0	*	3	*	23	0	11	0.9
327993	Mineral Wool	21	5	0	*	15	*	0	1	*	3.7
331	Primary Metals	606	206	*	3	227	1	7	107	55	1.6
331111	Iron and Steel Mills	333	74	*	1	W	*	7	103	W	1.8
331112	Electrometallurgical Ferroalloy Products	4	W	0	*	W	*	0	0	W	11
3312	Steel Products from Purchased Steel	11	W	0	*	W	*	0	0	W	19.6
3313	Alumina and Aluminum	195	99	0	*	W	*	0	*	W	2.6
331312	Primary Aluminum	110	85	0	*	W	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	27	11	0	*	W	*	1	Q	W	8.1
3315	Foundries	37	14	0	*	18	*	*	4	*	1.5
331511	Iron Foundries	18	6	0	*	8	*	0	4	*	1.7
331521	Aluminum Die-Casting Foundries	4	1	0	*	3	*	0	0	*	1.7
331524	Aluminum Foundries, except Die-Casting	4	1	0	*	3	*	0	0	*	3.6
332	Fabricated Metal Products	120	52	W	1	W	2	*	0	Q	15.1
333	Machinery	43	25	0	*	17	1	0	0	*	9.9
334	Computer and Electronic Products	40	31	0	*	8	*	0	0	*	6.6
334413	Semiconductors and Related Devices	16	12	0	*	3	*	0	0	*	3.1
335	Electrical Equip., Appliances, and Components	40	21	*	*	18	1	0	0	1	10.1
336	Transportation Equipment	101	48	2	1	W	1	W	0	3	5.9
336112	Light Trucks and Utility Vehicles	19	W	0	*	W	*	0	0	1	0.9
337	Furniture and Related Products	25	11	0	*	W	1	W	0	5	18.3
339	Miscellaneous	19	10	W	*	W	*	0	0	*	15.1
	Total	8,589	1,300	107	54	3,086	58	540	116	3,327	3.4
	West Census Region										
	RSE Column Factors:	1.2	1.2	0.7	1.4	1.3	1.9	0.6	0.5	1	
311	Food	170	34	*	7	105	Q	13	*	9	7.5
311221	Wet Corn Milling	5	W	0	W	4	W	0	0	W	3.6
31131	Sugar	W	W	*	*	W	*	13	*	3	1
311421	Fruit and Vegetable Canning	20	2	*	*	17	*	0	0	*	7.1
312	Beverage and Tobacco Products	23	6	0	*	10	*	0	0	7	3.9
3121	Beverages	23	6	0	*	10	*	0	0	7	3.9
3122	Tobacco	*	*	0	0	0	0	0	0	0	0.8
313	Textile Mills	11	3	0	0	W	W	0	0	1	9.4
314	Textile Product Mills	2	1	0	0	W	W	0	0	0	17.2
315	Apparel	8	3	0	*	W	W	0	0	*	28.7
316	Leather and Allied Products	W	*	0	*	W	0	0	0	0	29.1
321	Wood Products	93	17	*	3	15	1	0	0	56	6.8
321113	Sawmills	46	6	*	2	6	*	0	0	32	6.5
3212	Veneer, Plywood, and Engineered Woods	38	8	0	*	7	*	0	0	22	5.1
3219	Other Wood Products	8	3	0	*	2	*	0	0	Q	12
322	Paper	307	42	5	1	W	1	W	0	168	1.4
322110	Pulp Mills	W	1	W	*	W	*	0	0	W	0.8
322121	Paper Mills, except Newsprint	99	9	3	*	27	*	0	0	60	1.8
322122	Newsprint Mills	34	16	W	*	W	*	0	0	W	0.8
322130	Paperboard Mills	145	11	W	1	W	*	W	0	87	1
323	Printing and Related Support	14	6	0	*	8	*	0	0	*	17.1
324	Petroleum and Coal Products	696	17	5	2	168	9	0	0	495	8
324110	Petroleum Refineries	677	19	5	1	157	8	0	0	488	5.8
324199	Other Petroleum and Coal Products	6	-2	0	*	2	0	0	0	6	0.8
325	Chemicals	155	40	W	1	W	W	W	0	9	4.6
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	15	W	0	0	W	0	0	0	0	1.5
325181	Alkalies and Chlorine	31	6	0	*	W	*	W	0	W	0.9
325182	Carbon Black	*	*	0	0	*	*	0	0	0	0.7
325188	Other Basic Inorganic Chemicals	41	10	W	*	W	*	W	0	3	1.5
325192	Cyclic Crudes and Intermediates	*	W	0	*	W	*	0	0	W	0.8
325193	Ethyl Alcohol	2	*	0	*	1	*	0	0	1	0.8
325199	Other Basic Organic Chemicals	5	1	W	W	W	*	0	0	1	7.6
325211	Plastics Materials and Resins	4	1	0	W	W	*	0	0	1	4.7
325212	Synthetic Rubber	*	*	0	0	*	*	0	0	*	0.8
325222	Noncellulosic Organic Fibers	*	*	0	0	0	*	0	0	0	0.7
325311	Nitrogenous Fertilizers	30	2	0	*	28	*	0	0	*	0.8
325312	Phosphatic Fertilizers	8	2	0	*	6	*	0	0	*	0.8
3254	Pharmaceuticals and Medicines	9	4	0	*	5	*	0	0	*	4.1
325412	Pharmaceutical Preparation	5	2	0	*	3	*	0	0	*	5.7
325992	Photographic Film, Paper, Plate, and Chemicals	3	W	0	*	W	*	0	0	0	0.7

Table 3.2 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
326	Plastics and Rubber Products	24	15	0	*	9	*	0	0	*	13.1
327	Nonmetallic Mineral Products	178	22	W	10	W	W	67	*	14	3.6
3272	Glass and Glass Products	23	5	W	W	W	*	0	0	*	1
327211	Flat Glass	7	1	W	W	W	W	0	0	W	0.8
327213	Glass Containers	14	3	0	W	W	*	0	0	*	0.8
327310	Cements	87	9	W	2	W	*	W	*	12	1.3
327410	Lime	14	W	W	W	1	*	W	0	2	0.9
327993	Mineral Wool	5	2	0	*	3	*	0	*	*	1.1
331	Primary Metals	91	46	0	2	W	*	W	1	1	2
331111	Iron and Steel Mills	32	13	0	*	W	*	W	*	W	2.1
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	W	*	0	0	W	0.8
3312	Steel Products from Purchased Steel	W	W	0	*	W	*	0	0	*	2.6
3313	Alumina and Aluminum	31	W	0	*	W	*	0	0	W	2.9
331312	Primary Aluminum	W	W	0	*	W	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	18	8	0	2	8	*	0	0	*	4.4
3315	Foundries	W	2	0	*	W	*	*	1	*	2.4
331511	Iron Foundries	2	1	0	*	1	*	*	1	*	1.2
331521	Aluminum Die-Casting Foundries	1	*	0	0	*	*	0	0	*	12.1
331524	Aluminum Foundries, except Die-Casting	1	*	0	*	1	*	0	0	*	2.2
332	Fabricated Metal Products	30	14	0	*	15	*	0	0	*	11.9
333	Machinery	13	7	0	*	6	*	0	0	*	10.2
334	Computer and Electronic Products	67	43	*	*	W	W	0	0	*	6.5
334413	Semiconductors and Related Devices	34	22	0	*	12	*	0	0	*	6
335	Electrical Equip., Appliances, and Components	10	3	0	*	Q	*	0	0	*	5.6
336	Transportation Equipment	36	16	0	*	18	*	0	0	1	12.8
336112	Light Trucks and Utility Vehicles	*	W	0	W	*	*	0	0	*	0.8
337	Furniture and Related Products	W	3	*	*	W	*	0	0	*	13.4
339	Miscellaneous	12	7	0	*	5	*	0	0	*	15.2
	Total	1,945	347	12	28	676	16	105	1	761	3.3

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

(b) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

(c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(d) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(e) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(f) 'Other' includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power.

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. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.

During manufacturing processes, it is possible that the thermal energy content of an energy input is not completely consumed for the production of heat, power, or electricity generation. Hence, residuals of that input may remain. Those residual leftovers may be subsequently consumed for fuel

Table 3.2 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors

purposes, whether onsite or offsite at another manufacturing establishment (for example, blast furnace gas as a byproduct recovered from coke and other inputs that were not completely consumed). In such cases, double counting of inputs cannot be avoided, and the "Fuel Consumption" estimates will be inflated.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002.

Table 3.3 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
Total United States										
RSE Column Factors:	0.6	0.7	1.3	2.1	0.7	1.4	1.5	0.7	0.9	
Value of Shipments and Receipts (million dollars)										
Under 20	1,312	436	15	50	598	W	47	W	132	13.9
20-49	1,465	407	28	22	590	W	112	W	289	6.9
50-99	1,598	394	17	W	731	7	185	W	237	4.5
100-249	2,385	561	43	17	972	8	253	7	525	4.2
250-499	2,598	458	57	W	826	W	326	W	906	5.4
500 and Over	6,914	584	47	21	2,077	55	259	530	3,342	1.5
Total	16,273	2,840	208	141	5,794	103	1,182	574	5,431	2.9
Employment Size										
Under 50	884	247	W	39	419	14	37	W	W	11
50-99	1,091	248	W	17	546	8	88	W	151	11.6
100-249	2,706	617	33	28	1,049	13	292	W	W	5
250-499	3,131	619	43	15	1,229	13	253	13	945	6
500-999	4,001	546	64	18	1,089	44	269	9	1,961	3.6
1000 and Over	4,460	564	39	24	1,461	10	242	531	1,589	2.2
Total	16,273	2,840	208	141	5,794	103	1,182	574	5,431	2.9
Northeast Census Region										
RSE Column Factors:	0.7	1.2	1.2	2	1.1	1.9	0.7	0.6	0.6	
Value of Shipments and Receipts (million dollars)										
Under 20	254	89	9	W	105	4	W	W	W	14.8
20-49	196	58	11	6	80	2	22	W	W	7.7
50-99	203	52	11	W	94	1	11	W	W	4.9
100-249	239	59	16	2	80	1	23	*	58	3.6
250-499	166	26	5	W	72	1	W	0	W	2.7
500 and Over	472	49	16	W	107	1	W	W	W	1.2
Total	1,530	334	68	30	538	9	92	38	422	4.2

Table 3.3 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
Employment Size										
Under 50	127	39	3	10	53	2	W	0	W	11.5
50-99	160	53	8	W	67	W	9	W	W	12.1
100-249	283	74	14	W	110	3	W	W	W	5.7
250-499	257	67	15	3	105	W	6	1	W	4.3
500-999	336	52	18	W	99	W	W	1	W	3.2
1000 and Over	368	48	10	W	104	W	W	W	W	1.5
Total	1,530	334	68	30	538	9	92	38	422	4.2
Midwest Census Region										
RSE Column Factors:	0.7	0.8	1.7	3	0.8	2.3	1	0.2	0.9	
Value of Shipments and Receipts (million dollars)										
Under 20	509	146	Q	W	241	W	22	W	W	15.3
20-49	390	119	2	2	179	W	23	2	W	10.2
50-99	496	128	1	4	236	3	75	4	46	7.9
100-249	552	140	5	2	231	W	103	W	W	4.9
250-499	458	141	Q	W	173	W	76	W	W	7.8
500 and Over	1,804	185	11	11	434	6	146	400	611	2.6
Total	4,209	858	22	29	1,494	20	445	419	921	5
Employment Size										
Under 50	318	78	W	3	150	W	21	W	W	9.6
50-99	298	70	W	W	176	W	21	W	W	13.1
100-249	723	169	4	W	286	3	W	5	W	9.9
250-499	884	202	3	4	319	5	162	Q	183	6.7
500-999	631	138	4	1	196	3	55	8	226	3.2
1000 and Over	1,355	201	9	W	367	W	W	399	W	2.8
Total	4,209	858	22	29	1,494	20	445	419	921	4.9
South Census Region										
RSE Column Factors:	0.7	0.7	1.3	1.9	0.7	1.7	1.9	0.4	0.8	
Value of Shipments and Receipts										

Table 3.3 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
(million dollars)										
Under 20	364	144	Q	14	156	6	W	W	W	14.6
20-49	680	170	15	9	256	W	45	4	W	10.9
50-99	696	170	3	W	312	3	74	W	W	6.4
100-249	1,192	273	18	11	507	4	74	2	302	6.4
250-499	1,740	241	46	W	504	W	238	W	W	5.1
500 and Over	3,919	302	19	W	1,352	40	W	W	W	1.1
Total	8,589	1,301	107	54	3,086	58	540	116	3,327	3.5
Employment Size										
Under 50	310	94	Q	14	154	W	4	W	W	13.8
50-99	480	91	14	5	232	3	27	W	W	16
100-249	1,221	280	10	10	511	5	93	W	W	7.8
250-499	1,512	264	20	6	625	W	68	6	W	3.6
500-999	2,647	307	41	14	676	39	201	*	1,369	4.4
1000 and Over	2,419	264	19	5	888	W	148	W	W	2.2
Total	8,589	1,301	107	54	3,086	58	540	116	3,327	3.5
West Census Region										
RSE Column Factors:	1.1	1.2	0.5	3.5	1.5	2.8	0.4	0.2	1.3	
Value of Shipments and Receipts (million dollars)										
Under 20	184	58	1	11	95	W	W	W	W	9.1
20-49	200	60	*	5	76	W	22	W	W	4.8
50-99	203	44	2	3	89	1	25	W	W	4.5
100-249	402	88	4	2	155	W	52	W	W	2.6
250-499	235	51	3	5	77	W	W	0	96	5
500 and Over	720	46	2	1	183	7	0	0	480	4.3
Total	1,945	347	12	28	676	16	105	1	761	3.5
Employment Size										
Under 50	129	35	*	12	62	2	W	*	W	7.9
50-99	153	33	1	3	71	2	32	*	12	8.4
100-249	479	94	5	5	143	2	46	*	186	3.6
250-499	478	87	6	1	180	3	18	1	182	4.1

Table 3.3 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
500-999	388	48	1	W	118	W	W	0	W	1.8
1000 and Over	318	51	*	W	102	W	*	0	155	2
Total	1,945	347	12	28	676	16	105	1	761	3.5

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

(b) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

(c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(d) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(e) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(f) 'Other' includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power.

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. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced

Table 3.3 Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors

onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.
During manufacturing processes, it is possible that the thermal energy content of an energy input is not completely consumed for the production of heat, power, or electricity generation. Hence, residuals of that input may remain. Those residual leftovers may be subsequently consumed for fuel purposes, whether onsite or offsite at another manufacturing establishment (for example, blast furnace gas as a byproduct recovered from coke and other inputs that were not completely consumed). In such cases, double counting of inputs cannot be avoided, and the "Fuel Consumption" estimates will be inflated.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002, and the Bureau of the Census, data files for the '2002 Economic Census, Manufacturing - Industry Series.'

Table 3.4 Number of Establishments by Fuel Consumption, 2002
Level: National Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Energy Source(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	RSE Row Factors
		Total United States									
	RSE Column Factors:	0.7	0.7	1.3	1.1	0.9	1.2	1.2	1	1.2	
311	Food	15,089	15,045	274	2,418	12,018	3,159	91	19	1,858	5.1
311221	Wet Corn Milling	49	49	3	20	47	14	19	0	15	1
31131	Sugar	77	77	18	40	62	31	24	19	44	1
311421	Fruit and Vegetable Canning	468	468	38	123	416	229	0	0	146	7.8
312	Beverage and Tobacco Products	1,595	1,595	35	251	1,132	630	17	0	184	11
3121	Beverages	1,517	1,517	24	221	1,075	586	9	0	164	13
3122	Tobacco	78	78	11	30	57	44	8	0	19	1
313	Textile Mills	2,247	2,247	145	360	1,388	865	48	0	209	5.3
314	Textile Product Mills	3,457	3,456	16	82	2,245	592	26	0	162	10.6
315	Apparel	5,500	5,500	26	311	3,014	608	0	0	182	10.2
316	Leather and Allied Products	685	699	W	31	568	71	0	0	Q	6.3
321	Wood Products	10,486	10,460	69	2,831	4,600	4,274	W	0	2,737	1.7
321113	Sawmills	2,235	2,209	W	1,097	476	581	0	0	923	2.7
3212	Veneer, Plywood, and Engineered Woods	1,478	1,478	7	419	774	771	W	0	510	3.3
3219	Other Wood Products	6,461	6,461	55	1,137	3,153	2,794	0	0	1,226	2.1
322	Paper	4,257	4,257	242	541	3,481	2,197	102	W	474	1.8
322110	Pulp Mills	34	34	15	21	26	18	W	0	24	1
322121	Paper Mills, except Newsprint	323	323	111	156	267	215	55	W	155	3.7
322122	Newsprint Mills	21	21	4	14	16	12	4	0	14	1
322130	Paperboard Mills	210	210	57	91	185	148	38	0	98	1.8
323	Printing and Related Support	20,220	20,220	136	192	13,304	1,879	0	0	511	5.2
324	Petroleum and Coal Products	1,916	1,916	118	709	1,409	526	12	W	356	5.9
324110	Petroleum Refineries	215	215	40	91	198	94	9	0	173	1.4
324199	Other Petroleum and Coal Products	47	47	W	26	30	10	3	W	23	1
325	Chemicals	8,909	8,909	270	1,742	6,757	3,205	137	W	1,865	2.2
325110	Petrochemicals	37	37	W	12	33	8	W	0	23	1
325120	Industrial Gases	527	527	0	5	174	Q	0	0	46	4.2
325181	Alkalies and Chlorine	33	33	W	10	29	6	7	0	19	1.1
325182	Carbon Black	22	22	4	11	22	4	0	0	15	1
325188	Other Basic Inorganic Chemicals	515	515	16	102	315	219	5	W	126	5.8
325192	Cyclic Crudes and Intermediates	37	37	4	17	36	12	0	0	20	1
325193	Ethyl Alcohol	48	48	0	10	46	12	18	0	26	1
325199	Other Basic Organic Chemicals	578	578	30	261	480	315	47	0	363	2.1
325211	Plastics Materials and Resins	709	709	62	166	588	341	16	W	251	2.1
325212	Synthetic Rubber	125	125	24	30	103	54	W	0	46	3.3
325222	Noncellulosic Organic Fibers	64	64	19	23	50	31	W	0	27	1
325311	Nitrogenous Fertilizers	56	56	0	23	44	12	0	0	23	1.1
325312	Phosphatic Fertilizers	27	27	5	21	21	10	W	W	12	1
3254	Pharmaceuticals and Medicines	1,143	1,143	56	324	917	308	6	0	162	3.3
325412	Pharmaceutical Preparation	606	606	11	128	507	126	6	0	75	6.2
325992	Photographic Film, Paper, Plate, and Chemicals	171	171	4	51	162	69	W	0	47	4.4
326	Plastics and Rubber Products	10,538	10,538	81	705	8,022	3,960	7	0	1,382	1.8
327	Nonmetallic Mineral Products	11,593	11,516	27	3,999	7,328	3,127	181	22	2,163	5.8
3272	Glass and Glass Products	1,047	1,047	W	155	979	329	0	0	203	5.9
327211	Flat Glass	38	38	W	22	38	28	0	0	22	1
327213	Glass Containers	61	61	0	44	61	51	0	0	46	1.1
327310	Cements	195	195	3	106	136	64	109	7	118	2.4
327410	Lime	65	65	7	48	44	29	45	W	53	1
327993	Mineral Wool	207	207	0	37	183	68	0	14	44	14.5
331	Primary Metals	4,166	4,166	44	986	3,599	1,873	39	118	1,341	3.6
331111	Iron and Steel Mills	771	771	5	274	448	157	21	19	159	4.2
331112	Electrometallurgical Ferroalloy Products	15	15	0	10	14	6	W	W	6	1

Table 3.4 Number of Establishments by Fuel Consumption, 2002
Level: National Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Energy Source(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	RSE Row Factors
3312	Steel Products from Purchased Steel	548	548	13	138	504	303	0	0	169	4.6
3313	Alumina and Aluminum	446	446	W	114	423	194	0	W	156	3.2
331312	Primary Aluminum	41	41	W	26	41	22	0	0	26	1.9
3314	Nonferrous Metals, except Aluminum	671	671	W	110	629	317	W	W	222	2.7
3315	Foundries	1,715	1,715	13	341	1,582	895	14	80	630	5.1
331511	Iron Foundries	453	453	0	194	396	253	13	80	190	5.4
331521	Aluminum Die-Casting Foundries	227	227	W	11	215	126	0	0	84	1.4
331524	Aluminum Foundries, except Die-Casting	341	341	W	37	304	152	0	0	117	4.7
332	Fabricated Metal Products	35,349	35,349	201	2,955	26,976	13,506	73	66	8,331	5.2
333	Machinery	17,381	17,381	14	1,097	14,123	5,965	W	0	3,169	2.3
334	Computer and Electronic Products	9,238	9,292	23	657	6,629	987	W	0	614	2.3
334413	Semiconductors and Related Devices	578	632	W	93	434	63	0	0	52	4
335	Electrical Equip., Appliances, and Components	3,886	3,886	17	321	3,349	1,446	W	0	726	5.2
336	Transportation Equipment	7,653	7,653	33	1,119	5,993	3,253	20	0	2,051	1.6
336112	Light Trucks and Utility Vehicles	42	42	3	21	41	19	W	0	30	1
337	Furniture and Related Products	10,941	10,941	W	649	6,144	2,833	99	0	940	6.7
339	Miscellaneous	15,605	15,605	12	295	11,171	3,711	0	0	1,724	2.1
	Total	200,710	200,630	1,846	22,249	143,250	58,667	860	231	31,018	2.2

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

(b) 'Any Energy Source' represents the non-duplicative total of establishments identified with any of the listed energy sources. This count includes only those establishments that reported this activity in 2002.

(c) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal)

(d) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(e) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers and any marketing subsidiaries of utilities.

(f) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(g) 'Other' includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power.

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. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy for the production of heat, power, and electricity generation regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were

Table 3.4 Number of Establishments by Fuel Consumption, 2002
Level: National Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Energy Source(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	RSE Row Factors

extracted from captive (onsite) mines or wells.
During manufacturing processes, it is possible that the thermal energy content of an energy input is not completely consumed for the production of heat power, or electricity generation. Hence, residuals of that input may remain. Those residual leftovers may be subsequently consumed for fuel purposes, whether onsite or offsite at another manufacturing establishment (for example, blast furnace gas as a byproduct recovered from coke and other inputs that were not completely consumed). In such cases, double counting of inputs cannot be avoided, and the "Fuel Consumption" estimates will be inflated.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002

Table 3.5 Selected Byproducts in Fuel Consumption, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Blast Furnace/Coke Oven Gases	Waste Gas	Petroleum Coke	Pulping Liquor or Black Liquor	Wood Chips, Bark	Waste Oils/Tars and Waste Materials	RSE Row Factors
	Total United States								
	RSE Column Factors:	1.1	0.6	1.1	1.2	0.9	1.0	1.3	
311	Food	6	0	3	0	0	2	1	5.3
311221	Wet Corn Milling	3	0	*	0	0	2	*	0.9
31131	Sugar	*	0	*	0	0	0	0	0.9
311421	Fruit and Vegetable Canning	1	0	*	0	0	0	*	0.9
312	Beverage and Tobacco Products	2	0	1	0	0	1	*	1.9
3121	Beverages	2	0	1	0	0	1	*	1.9
3122	Tobacco	0	0	0	0	0	0	0	0.0
313	Textile Mills	*	0	0	0	0	*	0	0.0
314	Textile Product Mills	Q	0	0	0	0	Q	0	0.0
315	Apparel	0	0	0	0	0	0	0	0.0
316	Leather and Allied Products	0	0	0	0	0	0	0	0.0
321	Wood Products	210	0	0	0	0	205	6	5.1
321113	Sawmills	85	0	0	0	0	83	2	10.6
3212	Veneer, Plywood, and Engineered Woods	90	0	0	0	0	89	*	2.6
3219	Other Wood Products	34	0	0	0	0	30	4	5.0
322	Paper	1,158	0	1	W	820	316	W	1.0
322110	Pulp Mills	175	0	1	*	140	33	0	1.0
322121	Paper Mills, except Newsprint	464	0	*	W	336	114	W	0.9
322122	Newsprint Mills	W	0	0	0	W	13	1	0.9
322130	Paperboard Mills	496	0	0	1	335	155	5	1.1
323	Printing and Related Support	0	0	0	0	0	0	0	0.0
324	Petroleum and Coal Products	1,966	4	1,396	565	*	0	2	3.7
324110	Petroleum Refineries	1,946	0	1,388	558	0	0	*	1.8
324199	Other Petroleum and Coal Products	18	4	7	6	0	0	0	1.0
325	Chemicals	503	0	483	W	*	0	W	1.5
325110	Petrochemicals	167	0	160	0	0	0	7	0.9
325120	Industrial Gases	*	0	*	0	0	0	0	0.9
325181	Alkalies and Chlorine	*	0	0	0	0	0	*	0.8
325182	Carbon Black	16	0	16	0	*	0	0	1.0
325188	Other Basic Inorganic Chemicals	8	0	8	0	0	0	0	0.9
325192	Cyclic Crudes and Intermediates	4	0	2	0	0	0	2	0.9
325193	Ethyl Alcohol	*	0	*	0	0	0	0	0.9
325199	Other Basic Organic Chemicals	153	0	151	0	0	0	3	5.1
325211	Plastics Materials and Resins	144	0	143	0	0	0	2	2.2
325212	Synthetic Rubber	*	0	0	0	0	0	*	0.8
325222	Noncellulosic Organic Fibers	2	0	1	0	0	0	*	0.9
325311	Nitrogenous Fertilizers	2	0	2	0	0	0	*	0.9
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0.0
3254	Pharmaceuticals and Medicines	*	0	*	0	0	0	*	0.9
325412	Pharmaceutical Preparation	*	0	*	0	0	0	0	0.9
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0	0.0
326	Plastics and Rubber Products	*	0	*	0	0	0	*	21.1
327	Nonmetallic Mineral Products	96	0	*	85	0	Q	5	1.9
3272	Glass and Glass Products	0	0	0	0	0	0	0	0.0
327211	Flat Glass	0	0	0	0	0	0	0	0.0
327213	Glass Containers	0	0	0	0	0	0	0	0.0
327310	Cements	64	0	*	58	0	*	5	1.6
327410	Lime	26	0	*	26	0	0	*	0.9
327993	Mineral Wool	*	0	0	0	0	0	*	0.0
331	Primary Metals	306	293	1	10	0	1	2	1.0
331111	Iron and Steel Mills	296	293	0	W	0	0	W	1.7
331112	Electrometallurgical Ferroalloy Products	1	0	0	0	0	1	0	1.0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0.0
3313	Alumina and Aluminum	W	0	*	W	0	0	*	1.0
331312	Primary Aluminum	W	0	0	W	0	0	0	0.9
3314	Nonferrous Metals, except Aluminum	W	0	*	W	0	0	W	0.9
3315	Foundries	*	0	*	0	0	0	*	0.9
331511	Iron Foundries	*	0	*	0	0	0	0	0.9
331521	Aluminum Die-Casting Foundries	*	0	0	0	0	0	*	0.9
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0.0
332	Fabricated Metal Products	Q	0	0	0	0	Q	0	0.0
333	Machinery	Q	0	Q	0	0	0	*	0.0
334	Computer and Electronic Products	0	0	0	0	0	0	0	0.0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0.0

Table 3.5 Selected Byproducts in Fuel Consumption, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Blast Furnace/Coke Oven Gases	Waste Gas	Petroleum Coke	Pulping Liquor or Black Liquor	Wood Chips, Bark	Waste Oils/Tars and Waste Materials	RSE Row Factors
335	Electrical Equip., Appliances, and Components	*	0	*	0	0	0	*	1.3
336	Transportation Equipment	3	0	1	2	0	0	*	13.7
336112	Light Trucks and Utility Vehicles	*	0	*	0	0	0	*	0.9
337	Furniture and Related Products	10	0	0	0	0	8	Q	15.2
339	Miscellaneous	Q	0	0	0	0	Q	*	12.1
	Total	4,267	297	1,887	679	820	542	41	1.7
	Northeast Census Region								
	RSE Column Factors:	1.0	0.8	1.2	0.9	0.8	1.2	1.2	
	Total	325	62	91	75	54	40	3	2.1
	Midwest Census Region								
	RSE Column Factors:	1.1	0.7	1.6	1.2	0.7	1.1	0.9	
	Total	684	195	244	145	50	41	10	2.6
	South Census Region								
	RSE Column Factors:	1.1	0.8	0.9	1.2	0.9	1.1	1.1	
	Total	2,559	41	1,179	343	608	364	24	1.8
	West Census Region								
	RSE Column Factors:	1.1	0.0	1.2	0.8	0.8	1.0	1.3	
	Total	699	0	373	117	107	97	4	3.9

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
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. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.
During manufacturing processes, it is possible that the thermal energy content of an energy input is not completely consumed for the production of heat, power, or electricity generation. Hence, residuals of that input may remain. Those residual leftovers may be subsequently consumed for fuel purposes, whether onsite or offsite at another manufacturing establishment (for example, blast furnace gas as a byproduct recovered from coke and other inputs that were not completely consumed). In such cases, double counting of inputs cannot be avoided, and the "Fuel Consumption" estimates will be inflated.
Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'

Table 3.6 Selected Wood and Wood-Related Products in Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Selected NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

		Selected Wood and Wood-Related Products						
			Biomass					
NAICS Code(a)	Subsector and Industry	Pulping Liquor or Black Liquor	Biomass Total(b)	Agricultural Waste(c)	Wood Harvested Directly from Trees(d)	Wood Residues and Byproducts from Mill Processing(e)	Wood-Related and Paper-Related Refuse(f)	RSE Row Factors
	Total United States							
	RSE Column Factors:	0.9	1.5	3.7	5.3	1.7	11.2	
311	Food	0	Q	Q	2	*	*	3.5
311221	Wet Corn Milling	0	2	*	2	*	*	0.0
312	Beverage and Tobacco Products	0	1	0	0	1	0	0.0
321	Wood Products	0	209	*	9	196	4	3.3
321113	Sawmills	0	83	*	4	80	*	5.1
3212	Veneer, Plywood, and Engineered Woods	0	90	0	2	87	*	4.0
3219	Other Wood Products	0	34	0	Q	28	4	12.0
322	Paper	820	322	1	23	293	5	3.6
322110	Pulp Mills	140	33	0	3	31	0	0.0
322121	Paper Mills, except Newsprint	336	114	*	13	101	*	0.1
322122	Newsprint Mills	W	14	*	1	12	1	0.0
322130	Paperboard Mills	335	158	*	7	148	3	0.8
337	Furniture and Related Products	0	10	Q	Q	8	Q	17.6
	Other Manufacturing	0	10	*	1	9	*	34.5
	Total	820	594	40	35	507	12	0.6
	Northeast Census Region							
	RSE Column Factors:							
311	Food							
311221	Wet Corn Milling							
312	Beverage and Tobacco Products							
321	Wood Products							
321113	Sawmills							
3212	Veneer, Plywood, and Engineered Woods							
3219	Other Wood Products							
322	Paper							
322110	Pulp Mills							
322121	Paper Mills, except Newsprint							
322122	Newsprint Mills							

Table 3.6 Selected Wood and Wood-Related Products in Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Selected NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

		Selected Wood and Wood-Related Products						
			Biomass					
NAICS Code(a)	Subsector and Industry	Pulping Liquor or Black Liquor	Biomass Total(b)	Agricultural Waste(c)	Wood Harvested Directly from Trees(d)	Wood Residues and Byproducts from Mill Processing(e)	Wood-Related and Paper-Related Refuse(f)	RSE Row Factors
322130	Paperboard Mills							
337	Furniture and Related Products							
	Other Manufacturing							
	Total							
	Midwest Census Region							
	RSE Column Factors:							
311	Food							
311221	Wet Corn Milling							
312	Beverage and Tobacco Products							
321	Wood Products							
321113	Sawmills							
3212	Veneer, Plywood, and Engineered Woods							
3219	Other Wood Products							
322	Paper							
322110	Pulp Mills							
322121	Paper Mills, except Newsprint							
322122	Newsprint Mills							
322130	Paperboard Mills							
337	Furniture and Related Products							
	Other Manufacturing							
	Total							
	South Census Region							
	RSE Column Factors:							
311	Food							
311221	Wet Corn Milling							
312	Beverage and Tobacco Products							
321	Wood Products							
321113	Sawmills							
3212	Veneer, Plywood, and Engineered Woods							

Table 3.6 Selected Wood and Wood-Related Products in Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Selected NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

		Selected Wood and Wood-Related Products						
			Biomass					
NAICS Code(a)	**Subsector and Industry**	**Pulping Liquor or Black Liquor**	**Biomass Total(b)**	**Agricultural Waste(c)**	**Wood Harvested Directly from Trees(d)**	**Wood Residues and Byproducts from Mill Processing(e)**	**Wood-Related and Paper-Related Refuse(f)**	**RSE Row Factors**
3219	Other Wood Products							
322	Paper							
322110	Pulp Mills							
322121	Paper Mills, except Newsprint							
322122	Newsprint Mills							
322130	Paperboard Mills							
337	Furniture and Related Products							
	Other Manufacturing							
	Total							
	West Census Region							
	RSE Column Factors:							
311	Food							
311221	Wet Corn Milling							
312	Beverage and Tobacco Products							
321	Wood Products							
321113	Sawmills							
3212	Veneer, Plywood, and Engineered Woods							
3219	Other Wood Products							
322	Paper							
322110	Pulp Mills							
322121	Paper Mills, except Newsprint							
322122	Newsprint Mills							
322130	Paperboard Mills							
337	Furniture and Related Products							
	Other Manufacturing							
	Total							

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) Four components of 'Biomass' are collected: agricultural waste, wood harvested directly from trees, wood residues and byproducts from mill

Table 3.6 Selected Wood and Wood-Related Products in Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Selected NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

		Selected Wood and Wood-Related Products						
			Biomass					
NAICS Code(a)	Subsector and Industry	Pulping Liquor or Black Liquor	Biomass Total(b)	Agricultural Waste(c)	Wood Harvested Directly from Trees(d)	Wood Residues and Byproducts from Mill Processing(e)	Wood-Related and Paper-Related Refuse(f)	RSE Row Factors

processing, and wood-related and paper-related refuse.
The 'Biomass Total' does not include pulping liquor or black liquor.
(c) 'Agricultural Waste' includes bagasse, rice hulls, nut shells, and orchard prunings.
(d) 'Wood Harvested Directly from Trees' includes roundwood, wood chips, and tree bark.
(e) 'Wood Residues and Byproducts from Mill Processing' include sawdust, shavings, and slabs.
(f) 'Wood-Related and Paper-Related Refuse' includes scrap, wastepaper, wood pallets, and packing materials.
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.'

Table 4.1 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Total United States										
	RSE Column Factors:	0.8	0.8	1.1	1.6	0.9	1.8	0.7	0.7	1.2	
311	Food	1,079	68,230	2	3	560	1	8	*	50	8
311221	Wet Corn Milling	217	7,098	*	*	59	*	5	0	11	1.1
31131	Sugar	74	733	*	*	22	*	2	*	8	1
311421	Fruit and Vegetable Canning	47	1,987	*	*	35	*	0	0	1	12.4
312	Beverage and Tobacco Products	104	7,917	*	*	45	*	1	0	9	4.3
3121	Beverages	84	6,523	*	*	41	*	*	0	9	5.9
3122	Tobacco	19	1,394	*	*	4	*	*	0	*	0.9
313	Textile Mills	206	25,387	1	*	72	*	1	0	15	15.6
314	Textile Product Mills	60	4,869	*	Q	28	*	*	0	Q	22
315	Apparel	30	3,579	*	*	16	*	0	0	*	23.5
316	Leather and Allied Products	7	716	*	*	4	*	0	0	*	8.6
321	Wood Products	198	21,623	*	2	56	1	*	0	50	4.8
321113	Sawmills	57	6,333	*	1	10	*	0	0	19	5.3
3212	Veneer, Plywood, and Engineered Woods	93	9,696	*	*	32	1	*	0	21	5.8
3219	Other Wood Products	41	5,284	*	*	11	*	0	0	9	10.3
322	Paper	1,413	71,890	16	2	490	2	11	*	306	2.3
322110	Pulp Mills	W	2,628	W	1	23	*	W	0	20	0.9
322121	Paper Mills, except Newsprint	605	25,258	8	1	201	*	6	*	117	2.1
322122	Newsprint Mills	83	10,827	W	*	15	*	W	0	W	0.9
322130	Paperboard Mills	524	19,626	5	1	183	*	4	0	148	2.7
323	Printing and Related Support	98	14,735	*	*	45	*	0	0	Q	9.5
324	Petroleum and Coal Products	1,290	41,308	2	2	854	3	1	*	222	4.4
324110	Petroleum Refineries	1,184	38,625	2	*	799	2	*	0	213	3.5
324199	Other Petroleum and Coal Products	24	436	*	*	4	*	1	*	6	1.4
325	Chemicals	3,154	161,381	7	2	1,630	9	14	*	525	5.5
325110	Petrochemicals	273	W	W	*	167	W	W	0	38	1.2
325120	Industrial Gases	181	24,600	0	*	47	*	0	0	Q	6.1
325181	Alkalies and Chlorine	W	13,274	W	*	92	*	1	0	9	1.4
325182	Carbon Black	25	609	2	*	9	*	0	0	*	0.9
325188	Other Basic Inorganic Chemicals	191	26,179	*	*	67	*	1	*	11	3.4
325192	Cyclic Crudes and Intermediates	67	3,443	*	*	36	*	0	0	18	0.9
325193	Ethyl Alcohol	60	1,309	0	*	29	*	1	0	7	5.6
325199	Other Basic Organic Chemicals	976	25,136	W	*	414	1	W	0	300	12
325211	Plastics Materials and Resins	501	22,388	*	*	339	*	1	*	48	8.4
325212	Synthetic Rubber	52	1,916	*	*	27	*	*	0	12	7.4
325222	Noncellulosic Organic Fibers	61	4,377	W	*	29	*	W	0	3	1.6
325311	Nitrogenous Fertilizers	202	3,502	0	*	184	*	0	0	1	0.9
325312	Phosphatic Fertilizers	30	2,006	*	*	18	*	*	*	1	1
3254	Pharmaceuticals and Medicines	119	10,964	*	*	60	*	*	0	6	5.4
325412	Pharmaceutical Preparation	85	8,498	*	*	39	*	*	0	4	6
325992	Photographic Film, Paper, Plate, and Chemicals	29	W	W	W	7	*	W	0	*	5.9
326	Plastics and Rubber Products	347	53,196	1	*	125	1	Q	0	4	9.5
327	Nonmetallic Mineral Products	960	41,441	*	5	410	1	14	*	40	4.4
3272	Glass and Glass Products	200	12,233	W	W	148	*	0	0	4	2.4
327211	Flat Glass	62	1,842	W	W	51	*	0	0	W	0.9
327213	Glass Containers	66	3,932	0	*	51	*	0	0	*	0.9
327310	Cements	344	12,487	*	1	21	*	11	*	30	2.1

Table 4.1 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
327410	Lime	81	1,353	*	*	7	*	3	*	1	1
327993	Mineral Wool	51	3,750	0	*	34	*	0	*	*	2.9
331	Primary Metals	1,614	146,578	*	3	652	1	2	14	39	2.4
331111	Iron and Steel Mills	950	54,356	*	2	377	*	2	13	17	2.5
331112	Electrometallurgical Ferroalloy Products	24	3,555	0	*	7	*	*	*	2	2.6
3312	Steel Products from Purchased Steel	41	4,611	*	W	23	W	0	0	W	12.7
3313	Alumina and Aluminum	349	58,191	*	W	127	W	0	*	W	1.9
331312	Primary Aluminum	W	50,327	*	*	19	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	93	9,968	*	W	42	W	*	*	W	5.1
3315	Foundries	157	15,896	*	*	75	*	*	1	*	3.8
331511	Iron Foundries	81	8,214	0	*	27	*	*	1	*	4.7
331521	Aluminum Die-Casting Foundries	23	1,897	*	*	16	*	0	0	*	2.3
331524	Aluminum Foundries, except Die-Casting	19	1,350	*	*	14	*	0	0	*	4.7
332	Fabricated Metal Products	387	47,118	*	1	204	1	*	*	2	16.9
333	Machinery	175	24,609	*	*	80	1	*	0	4	11.5
334	Computer and Electronic Products	200	38,427	*	*	63	*	*	0	2	17.7
334413	Semiconductors and Related Devices	67	13,025	*	*	21	*	0	0	Q	3.9
335	Electrical Equip., Appliances, and Components	103	13,901	*	*	51	*	*	0	1	6.8
336	Transportation Equipment	422	50,576	1	1	197	1	*	0	27	5.8
336112	Light Trucks and Utility Vehicles	56	4,889	*	W	35	*	W	0	W	0.9
337	Furniture and Related Products	55	7,113	*	*	24	*	*	0	2	10.6
339	Miscellaneous	71	10,371	*	*	31	*	0	0	2	9.3
	Total	11,973	854,965	32	24	5,637	23	53	15	1,302	3.3
	Northeast Census Region										
	RSE Column Factors:	1.1	1.1	0.9	1.6	0.9	1.8	0.7	0.6	0.8	
311	Food	91	6,570	1	1	53	*	*	0	Q	23
311221	Wet Corn Milling	W	W	*	*	0	0	0	0	*	0.9
31131	Sugar	W	W	*	*	W	*	0	0	*	0.9
311421	Fruit and Vegetable Canning	5	343	*	*	3	*	0	0	*	10.7
312	Beverage and Tobacco Products	13	1,000	*	*	7	*	0	0	1	4.9
3121	Beverages	12	W	*	W	W	W	0	0	1	5.4
3122	Tobacco	1	W	*	W	W	W	0	0	*	0.9
313	Textile Mills	24	1,340	*	*	13	*	0	0	*	25.1
314	Textile Product Mills	W	425	*	*	W	*	*	0	*	4.3
315	Apparel	W	567	0	*	W	*	0	0	0	27.2
316	Leather and Allied Products	2	111	*	*	1	*	0	0	*	10.9
321	Wood Products	15	1,390	*	*	4	*	0	0	4	15
321113	Sawmills	4	380	*	*	*	*	0	0	*	5.7
3212	Veneer, Plywood, and Engineered Woods	4	316	*	*	2	*	0	0	1	10
3219	Other Wood Products	8	682	*	*	2	*	0	0	Q	17.5
322	Paper	207	9,538	W	W	72	W	W	0	45	3.9
322110	Pulp Mills	W	W	W	0	*	*	0	0	0	8.4
322121	Paper Mills, except Newsprint	148	4,649	4	*	46	W	1	0	W	3
322122	Newsprint Mills	W	W	W	W	0	0	0	0	0	0.9
322130	Paperboard Mills	W	985	W	W	14	W	W	0	W	3
323	Printing and Related Support	23	3,164	W	W	11	*	0	0	*	14.9
324	Petroleum and Coal Products	83	3,326	*	1	43	*	*	*	16	5.2
324110	Petroleum Refineries	64	2,808	*	*	35	*	*	0	15	1.5

Table 4.1 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
324199	Other Petroleum and Coal Products	2	71	*	*	*	*	*	*	*	1
325	Chemicals	162	12,721	W	W	70	*	W	0	W	7.4
325110	Petrochemicals	W	19	0	*	W	0	0	0	0	1.8
325120	Industrial Gases	9	1,961	0	*	W	0	0	0	W	0.9
325181	Alkalies and Chlorine	W	W	W	*	*	*	0	0	W	1
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	1,034	W	W	6	*	0	0	W	2.8
325192	Cyclic Crudes and Intermediates	W	205	W	*	4	*	0	0	W	0.9
325193	Ethyl Alcohol	*	*	0	0	*	0	0	0	*	1
325199	Other Basic Organic Chemicals	17	772	W	*	7	*	0	0	W	8.1
325211	Plastics Materials and Resins	W	W	W	*	6	*	0	0	W	15.2
325212	Synthetic Rubber	1	50	0	*	*	*	0	0	*	0.9
325222	Noncellulosic Organic Fibers	*	W	W	0	*	*	0	0	*	5.9
325311	Nitrogenous Fertilizers	2	74	0	*	1	*	0	0	*	0.9
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	44	3,038	*	*	30	*	0	0	1	7.6
325412	Pharmaceutical Preparation	31	2,328	*	*	20	*	0	0	1	9.9
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	W	W	3	*	W	0	*	4.4
326	Plastics and Rubber Products	46	7,560	W	W	14	W	W	0	1	8.5
327	Nonmetallic Mineral Products	138	6,608	W	W	61	*	2	*	6	5.8
3272	Glass and Glass Products	40	W	W	W	29	*	0	0	W	3.6
327211	Flat Glass	11	W	0	W	9	*	0	0	W	0.9
327213	Glass Containers	13	W	0	W	10	*	0	0	*	0.9
327310	Cements	45	W	W	W	*	*	W	*	4	1
327410	Lime	5	W	0	W	*	*	W	0	*	0.9
327993	Mineral Wool	5	346	0	*	3	*	0	*	*	2.8
331	Primary Metals	144	15,135	*	W	67	W	W	*	W	6.2
331111	Iron and Steel Mills	W	6,072	0	W	37	W	W	0	W	3.5
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	W	W	0	0	W	0.9
3312	Steel Products from Purchased Steel	W	W	*	W	W	*	0	0	W	15.2
3313	Alumina and Aluminum	W	W	*	W	11	*	0	0	W	1.3
331312	Primary Aluminum	W	W	*	*	W	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	23	W	*	W	8	W	*	*	W	4.1
3315	Foundries	W	W	*	*	7	*	*	*	*	4.2
331511	Iron Foundries	13	607	0	*	3	*	*	*	*	3.8
331521	Aluminum Die-Casting Foundries	1	52	0	*	*	*	0	0	*	3.4
331524	Aluminum Foundries, except Die-Casting	3	209	*	*	2	*	0	0	*	1.4
332	Fabricated Metal Products	54	6,449	W	W	28	W	W	*	*	16.1
333	Machinery	27	3,692	*	*	12	*	0	0	Q	14.7
334	Computer and Electronic Products	62	11,184	*	*	20	*	*	0	1	30.3
334413	Semiconductors and Related Devices	14	2,390	*	*	5	*	0	0	Q	2.3
335	Electrical Equip., Appliances, and Components	17	2,013	*	*	9	*	0	0	*	15.7
336	Transportation Equipment	49	4,049	1	*	20	*	0	0	11	5.6
336112	Light Trucks and Utility Vehicles	W	W	0	*	W	*	0	0	W	0.9
337	Furniture and Related Products	7	831	0	*	3	*	0	0	*	17.5
339	Miscellaneous	21	2,519	*	*	9	*	0	0	2	13.3
	Total	1,196	100,190	10	5	523	2	4	*	111	5.8
	Midwest Census Region										
	RSE Column Factors:	1.1	1	0.8	1.3	1.2	2	0.4	0.7	1.2	

Table 4.1 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
311	Food	532	28,435	1	*	240	*	7	*	22	10.7
311221	Wet Corn Milling	W	5,955	*	W	51	*	5	0	6	0.9
31131	Sugar	29	379	*	*	5	*	1	*	*	1
311421	Fruit and Vegetable Canning	7	397	*	*	5	*	0	0	*	3
312	Beverage and Tobacco Products	22	1,392	*	*	10	*	*	0	*	5
3121	Beverages	22	W	*	W	W	W	*	0	*	5
3122	Tobacco	*	W	0	W	W	W	0	0	*	0.8
313	Textile Mills	3	313	0	*	1	*	0	0	*	6.5
314	Textile Product Mills	W	307	0	0	W	*	0	0	*	9.3
315	Apparel	W	184	0	0	W	*	0	0	*	13.8
316	Leather and Allied Products	4	428	0	*	3	*	0	0	*	13.2
321	Wood Products	30	3,127	*	W	12	*	W	0	4	4.3
321113	Sawmills	3	428	0	*	1	*	0	0	1	6.4
3212	Veneer, Plywood, and Engineered Woods	15	1,103	*	W	6	*	W	0	3	3.5
3219	Other Wood Products	12	1,558	0	*	5	*	0	0	1	10.8
322	Paper	274	15,186	1	*	97	Q	4	*	29	3.9
322110	Pulp Mills	W	W	0	*	W	*	W	0	W	0.9
322121	Paper Mills, except Newsprint	W	8,187	1	*	51	W	3	*	W	2.3
322122	Newsprint Mills	4	W	0	*	*	*	W	0	W	0.9
322130	Paperboard Mills	W	2,432	*	*	21	W	W	0	W	6.2
323	Printing and Related Support	33	5,171	0	*	14	*	0	0	*	10.7
324	Petroleum and Coal Products	156	6,860	1	*	100	1	0	0	22	5.5
324110	Petroleum Refineries	131	6,149	1	*	82	*	0	0	20	2.4
324199	Other Petroleum and Coal Products	2	60	0	*	*	*	0	0	1	0.8
325	Chemicals	454	29,403	W	W	183	*	W	*	101	7.6
325110	Petrochemicals	W	W	0	*	2	0	0	0	*	0.9
325120	Industrial Gases	W	6,276	0	0	W	0	0	0	W	1.3
325181	Alkalies and Chlorine	W	W	0	W	W	*	W	0	*	4.2
325182	Carbon Black	W	W	W	0	1	*	0	0	*	0.9
325188	Other Basic Inorganic Chemicals	W	2,122	W	W	18	*	W	*	W	3.1
325192	Cyclic Crudes and Intermediates	W	W	W	W	6	*	0	0	*	0.8
325193	Ethyl Alcohol	57	1,251	0	*	28	*	1	0	6	5.6
325199	Other Basic Organic Chemicals	72	4,081	0	W	19	*	W	0	W	2.9
325211	Plastics Materials and Resins	W	4,322	W	*	20	*	W	*	W	3.7
325212	Synthetic Rubber	4	W	0	*	1	*	W	0	*	3.4
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	36	1,071	0	*	30	0	0	0	1	0.9
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	44	4,114	*	*	17	*	*	0	1	7
325412	Pharmaceutical Preparation	34	3,637	*	*	12	*	*	0	*	2.6
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	0	*	*	0	0	0	3.6
326	Plastics and Rubber Products	137	19,789	W	W	47	W	W	0	1	12.3
327	Nonmetallic Mineral Products	261	10,688	W	W	109	*	4	*	17	5.3
3272	Glass and Glass Products	58	3,618	0	*	43	*	0	0	1	1.4
327211	Flat Glass	19	W	0	W	16	*	0	0	1	0.8
327213	Glass Containers	16	W	0	W	13	*	0	0	*	0.8
327310	Cements	88	3,050	0	*	5	*	2	*	15	3.3
327410	Lime	36	487	W	W	4	*	1	*	*	1
327993	Mineral Wool	20	1,427	0	*	13	*	0	*	*	1.3
331	Primary Metals	825	55,888	*	1	326	*	1	10	20	2

Table 4.1 Offsite-Produced Fuel Consumption, 2002;
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NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
331111	Iron and Steel Mills	W	22,772	*	W	217	W	1	9	W	2.4
331112	Electrometallurgical Ferroalloy Products	19	2,337	0	*	6	W	*	*	W	1
3312	Steel Products from Purchased Steel	22	2,160	0	W	14	W	0	0	W	7.2
3313	Alumina and Aluminum	W	16,093	0	W	30	W	0	0	W	3
331312	Primary Aluminum	W	14,030	0	*	W	*	0	0	W	0.8
3314	Nonferrous Metals, except Aluminum	26	2,716	*	W	13	W	0	*	W	5.6
3315	Foundries	93	9,810	*	*	46	*	*	*	*	3
331511	Iron Foundries	47	5,634	0	*	16	*	*	*	*	4.2
331521	Aluminum Die-Casting Foundries	17	1,510	*	*	12	*	0	0	*	3.1
331524	Aluminum Foundries, except Die-Casting	11	828	0	*	8	*	0	0	*	2.9
332	Fabricated Metal Products	182	21,309	W	W	97	W	W	*	1	15.4
333	Machinery	92	11,488	0	*	46	*	*	0	2	12.2
334	Computer and Electronic Products	32	5,270	0	*	13	*	0	0	1	7.1
334413	Semiconductors and Related Devices	3	594	0	*	1	*	0	0	0	1.5
335	Electrical Equip., Appliances, and Components	36	4,949	0	*	18	*	*	0	*	4.2
336	Transportation Equipment	237	27,630	*	W	117	1	W	0	12	12.6
336112	Light Trucks and Utility Vehicles	36	W	*	W	23	*	W	0	W	0.9
337	Furniture and Related Products	21	2,294	0	W	11	*	W	0	*	13.5
339	Miscellaneous	19	2,786	*	*	9	*	0	0	*	9
	Total	3,353	252,896	3	5	1,455	4	20	10	232	6.2
	South Census Region										
	RSE Column Factors:	0.9	1	0.9	1.3	1	1.8	0.7	0.7	1.1	
311	Food	285	23,096	Q	1	165	1	*	0	16	9.6
311221	Wet Corn Milling	20	1,070	0	*	5	*	*	0	4	0.9
31131	Sugar	20	210	*	*	10	*	*	0	5	0.9
311421	Fruit and Vegetable Canning	14	541	*	*	10	*	0	0	*	9.2
312	Beverage and Tobacco Products	46	3,638	*	*	18	*	*	0	1	3.3
3121	Beverages	27	2,283	*	*	15	*	*	0	1	3.8
3122	Tobacco	19	1,354	*	*	3	*	*	0	*	0.9
313	Textile Mills	169	22,798	*	*	50	*	1	0	15	18.4
314	Textile Product Mills	51	3,924	*	*	23	*	*	0	Q	21.9
315	Apparel	15	1,956	*	*	7	*	0	0	*	23.1
316	Leather and Allied Products	1	142	0	*	*	*	0	0	*	9
321	Wood Products	98	11,552	*	W	25	1	W	0	27	8
321113	Sawmills	26	3,208	0	*	3	*	0	0	9	10.1
3212	Veneer, Plywood, and Engineered Woods	53	5,985	*	W	17	*	W	0	12	9.2
3219	Other Wood Products	16	2,168	0	*	3	*	0	0	5	16.2
322	Paper	730	32,631	8	2	236	*	6	0	176	2.4
322110	Pulp Mills	W	1,723	2	1	18	*	W	0	W	0.9
322121	Paper Mills, except Newsprint	240	8,839	2	*	77	*	3	0	52	2.1
322122	Newsprint Mills	39	4,866	*	*	W	*	W	0	W	0.9
322130	Paperboard Mills	348	12,026	4	W	105	W	W	0	100	3.4
323	Printing and Related Support	28	4,527	W	W	11	*	0	0	*	7.5
324	Petroleum and Coal Products	806	23,984	1	1	548	1	*	0	138	4.9
324110	Petroleum Refineries	759	22,917	*	*	529	*	0	0	132	1.7
324199	Other Petroleum and Coal Products	18	264	0	*	2	*	*	0	5	1.7
325	Chemicals	2,390	107,546	5	W	1,301	8	10	*	W	5.1
325110	Petrochemicals	270	W	W	*	W	W	W	0	38	0.9

Table 4.1 Offsite-Produced Fuel Consumption, 2002;
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NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
325120	Industrial Gases	W	13,197	0	*	46	*	0	0	W	4
325181	Alkalies and Chlorine	126	9,602	0	W	W	*	W	0	W	0.9
325182	Carbon Black	W	W	W	*	9	*	0	0	*	0.9
325188	Other Basic Inorganic Chemicals	108	20,116	W	W	30	*	W	0	W	2.2
325192	Cyclic Crudes and Intermediates	W	2,980	W	*	25	*	0	0	W	0.9
325193	Ethyl Alcohol	*	12	0	*	*	*	0	0	*	0.9
325199	Other Basic Organic Chemicals	882	19,987	W	W	385	*	W	0	261	11.4
325211	Plastics Materials and Resins	436	16,664	W	*	312	*	W	0	W	5.2
325212	Synthetic Rubber	47	W	*	*	26	*	W	0	12	8.5
325222	Noncellulosic Organic Fibers	60	W	W	*	29	*	W	0	3	0.9
325311	Nitrogenous Fertilizers	135	1,894	0	*	125	*	0	0	*	0.9
325312	Phosphatic Fertilizers	22	1,422	*	*	13	*	*	*	*	1
3254	Pharmaceuticals and Medicines	22	2,740	*	*	8	*	0	0	3	8.6
325412	Pharmaceutical Preparation	14	1,868	*	*	4	*	0	0	3	12.3
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	W	*	2	*	0	0	*	5.4
326	Plastics and Rubber Products	141	21,454	1	*	56	*	0	0	2	13.6
327	Nonmetallic Mineral Products	395	17,738	W	W	179	*	5	*	16	6.5
3272	Glass and Glass Products	80	5,095	W	W	60	*	0	0	W	2.2
327211	Flat Glass	25	840	W	W	21	*	0	0	W	0.9
327213	Glass Containers	22	1,233	0	*	18	*	0	0	*	0.9
327310	Cements	135	5,005	0	*	10	*	4	*	9	3.4
327410	Lime	28	575	0	*	3	*	1	0	*	0.9
327993	Mineral Wool	21	1,448	0	*	14	*	0	*	*	3.6
331	Primary Metals	554	62,067	*	W	221	*	*	4	W	1.8
331111	Iron and Steel Mills	W	21,837	*	W	106	*	*	3	W	1.9
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	W	*	0	0	W	11.1
3312	Steel Products from Purchased Steel	W	W	0	W	W	*	0	0	W	19.8
3313	Alumina and Aluminum	W	30,442	0	W	78	*	0	*	W	2.6
331312	Primary Aluminum	W	26,325	0	*	W	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	27	3,205	0	W	14	*	*	*	W	8.3
3315	Foundries	37	4,079	0	*	18	*	*	*	*	1.5
331511	Iron Foundries	18	1,804	0	*	7	*	0	*	*	1.7
331521	Aluminum Die-Casting Foundries	4	274	0	*	3	*	0	0	*	1.7
331524	Aluminum Foundries, except Die-Casting	4	244	0	*	3	*	0	0	*	3.6
332	Fabricated Metal Products	120	15,240	W	W	64	*	*	0	*	15.3
333	Machinery	43	7,273	0	*	16	*	0	0	*	10.1
334	Computer and Electronic Products	40	9,202	0	*	8	*	0	0	*	6.5
334413	Semiconductors and Related Devices	16	3,664	0	*	3	*	0	0	*	3.1
335	Electrical Equip., Appliances, and Components	40	6,026	*	*	18	*	0	0	1	10.1
336	Transportation Equipment	101	14,164	*	W	43	*	W	0	3	5.9
336112	Light Trucks and Utility Vehicles	18	W	0	*	W	*	0	0	1	0.9
337	Furniture and Related Products	22	3,181	0	W	8	*	W	0	2	19.4
339	Miscellaneous	19	3,041	*	*	8	*	0	0	*	17
	Total	6,092	395,180	17	9	3,005	13	24	4	815	3.5
	West Census Region										
	RSE Column Factors:	1.2	1.2	0.7	1.4	1.3	1.9	0.6	0.5	1	
311	Food	171	10,128	*	1	102	*	1	*	9	7.5
311221	Wet Corn Milling	W	W	0	W	4	*	0	0	1	2.8

Table 4.1 Offsite-Produced Fuel Consumption, 2002;
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NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
31131	Sugar	W	W	*	*	W	*	1	*	3	1
311421	Fruit and Vegetable Canning	20	706	*	*	17	*	0	0	*	7
312	Beverage and Tobacco Products	23	1,887	0	*	9	*	0	0	7	3.8
3121	Beverages	23	1,887	0	*	9	*	0	0	7	3.8
3122	Tobacco	*	*	0	0	0	0	0	0	0	0.8
313	Textile Mills	11	936	0	0	Q	*	0	0	1	9.4
314	Textile Product Mills	2	214	0	0	1	*	0	0	0	17.2
315	Apparel	8	872	0	*	Q	*	0	0	*	28.5
316	Leather and Allied Products	*	36	0	*	*	0	0	0	0	29.1
321	Wood Products	54	5,555	*	*	15	*	0	0	16	6.9
321113	Sawmills	25	2,317	*	*	6	*	0	0	9	6.1
3212	Veneer, Plywood, and Engineered Woods	22	2,293	0	*	7	*	0	0	6	4.4
3219	Other Wood Products	6	876	0	*	2	*	0	0	Q	11.4
322	Paper	202	14,535	W	W	85	W	W	0	56	1.4
322110	Pulp Mills	W	402	W	*	W	*	0	0	W	0.8
322121	Paper Mills, except Newsprint	W	3,583	*	*	26	*	0	0	W	1.9
322122	Newsprint Mills	W	4,756	W	W	W	*	0	0	W	0.8
322130	Paperboard Mills	91	4,183	W	W	42	W	W	0	W	1
323	Printing and Related Support	15	1,873	0	*	8	*	0	0	*	17
324	Petroleum and Coal Products	245	7,139	*	*	163	1	0	0	46	8.5
324110	Petroleum Refineries	230	6,752	*	*	153	1	0	0	45	5.5
324199	Other Petroleum and Coal Products	2	41	0	*	2	0	0	0	*	0.8
325	Chemicals	148	11,711	W	W	77	*	W	0	W	5.2
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	W	3,166	0	0	W	0	0	0	0	1.7
325181	Alkalies and Chlorine	31	W	0	*	W	*	W	0	1	0.9
325182	Carbon Black	*	W	0	0	*	*	0	0	0	0.7
325188	Other Basic Inorganic Chemicals	W	2,907	W	W	12	*	W	0	W	1.8
325192	Cyclic Crudes and Intermediates	W	W	0	W	*	*	0	0	W	0.8
325193	Ethyl Alcohol	2	47	0	*	1	*	0	0	1	0.8
325199	Other Basic Organic Chemicals	5	296	W	*	3	*	0	0	W	7.6
325211	Plastics Materials and Resins	W	W	0	*	1	*	0	0	*	5
325212	Synthetic Rubber	*	18	0	0	*	*	0	0	*	0.8
325222	Noncellulosic Organic Fibers	*	2	0	0	0	*	0	0	0	0.7
325311	Nitrogenous Fertilizers	30	463	0	*	28	*	0	0	*	0.8
325312	Phosphatic Fertilizers	8	584	0	*	6	*	0	0	*	0.8
3254	Pharmaceuticals and Medicines	9	1,071	0	*	5	*	0	0	*	4.1
325412	Pharmaceutical Preparation	5	665	0	*	3	*	0	0	*	5.7
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	*	2	*	0	0	0	0.7
326	Plastics and Rubber Products	24	4,393	0	W	8	W	0	0	*	13.1
327	Nonmetallic Mineral Products	166	6,408	W	W	60	*	3	*	3	3.7
3272	Glass and Glass Products	23	W	W	W	16	*	0	0	*	1
327211	Flat Glass	7	W	W	W	5	*	0	0	W	0.8
327213	Glass Containers	14	W	0	W	10	*	0	0	*	0.8
327310	Cements	77	W	W	W	5	*	W	*	2	1.3
327410	Lime	12	W	W	W	1	*	W	0	*	0.9
327993	Mineral Wool	5	528	0	*	3	*	0	*	*	1.1
331	Primary Metals	91	13,488	0	W	38	W	W	*	W	2
331111	Iron and Steel Mills	32	3,676	0	W	17	W	W	*	W	2.1
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	*	*	0	0	W	0.8
3312	Steel Products from Purchased Steel	W	W	0	*	1	*	0	0	W	2.6

Table 4.1 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
3313	Alumina and Aluminum	W	W	0	*	8	*	0	0	W	2.9
331312	Primary Aluminum	W	W	0	*	W	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	18	W	0	W	8	*	0	0	W	4.7
3315	Foundries	W	W	0	*	4	*	*	*	*	2.5
331511	Iron Foundries	2	169	0	*	1	*	*	*	*	1.2
331521	Aluminum Die-Casting Foundries	1	61	0	0	*	*	0	0	*	8.6
331524	Aluminum Foundries, except Die-Casting	1	69	0	*	1	*	0	0	*	2.2
332	Fabricated Metal Products	30	4,121	0	*	15	*	0	0	*	11.9
333	Machinery	13	2,157	0	*	6	*	0	0	*	10.1
334	Computer and Electronic Products	67	12,770	*	*	23	*	0	0	*	6.5
334413	Semiconductors and Related Devices	34	6,376	0	*	12	*	0	0	*	6
335	Electrical Equip., Appliances, and Components	10	912	0	*	Q	*	0	0	*	5.6
336	Transportation Equipment	36	4,733	0	*	18	*	0	0	1	12.8
336112	Light Trucks and Utility Vehicles	W	W	0	*	*	*	0	0	*	0.8
337	Furniture and Related Products	5	807	*	*	2	*	0	0	*	13.4
339	Miscellaneous	12	2,025	0	*	5	*	0	0	*	15.2
	Total	1,333	106,699	2	5	654	3	5	*	143	3.1

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) 'Electricity' consists of quantities of electricity that were purchased or transferred in, and is equivalent to 'purchased electricity' as defined in the 'Annual Survey of Manufactures.'
(c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.
(d) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.
(e) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'
(f) 'Other' includes all other energy that was purchased or transferred in and not shown elsewhere.
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. The derived estimates presented in this table represent the consumption of energy originally produced offsite, acquired as a result of a purchase or transfer and consumed onsite for the production of heat and power. This definition is consistent with the definition of 'purchased' fuels and electric energy used by the Bureau of the Census in the preparation of 'Fuels and Electric Energy Consumed,' of the 'Annual Survey of Manufactures,' for 1974 through 1981.
Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing

Table 4.1 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(f) (trillion Btu)	RSE Row Factors

Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002.

Table 4.2 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
	Total United States										
	RSE Column Factors:	0.8	0.8	1.1	1.6	0.9	1.8	0.7	0.7	1.2	
311	Food	1,079	233	13	19	575	5	184	1	50	8
311221	Wet Corn Milling	217	24	*	*	61	*	121	0	11	1.1
31131	Sugar	74	3	2	1	22	*	37	1	8	1
311421	Fruit and Vegetable Canning	47	7	1	1	36	Q	0	0	1	12.4
312	Beverage and Tobacco Products	104	27	2	2	46	1	17	0	9	4.3
3121	Beverages	84	22	1	2	42	1	8	0	9	5.9
3122	Tobacco	19	5	1	*	4	*	10	0	*	0.9
313	Textile Mills	206	87	4	2	74	2	22	0	15	15.6
314	Textile Product Mills	60	17	2	Q	29	1	Q	0	Q	22
315	Apparel	30	12	*	1	16	*	0	0	*	23.5
316	Leather and Allied Products	7	2	*	*	4	*	0	0	*	8.6
321	Wood Products	198	74	1	10	57	5	1	0	50	4.8
321113	Sawmills	57	22	*	5	10	1	0	0	19	5.3
3212	Veneer, Plywood, and Engineered Woods	93	33	1	2	33	3	1	0	21	5.8
3219	Other Wood Products	41	18	*	2	11	1	0	0	9	10.3
322	Paper	1,413	245	100	13	504	6	234	4	306	2.3
322110	Pulp Mills	W	9	W	5	24	*	W	0	20	0.9
322121	Paper Mills, except Newsprint	605	86	47	4	206	1	139	4	117	2.1
322122	Newsprint Mills	83	37	W	*	16	*	W	0	W	0.9
322130	Paperboard Mills	524	67	34	4	188	*	83	0	148	2.7
323	Printing and Related Support	98	50	*	*	46	1	0	0	Q	9.5
324	Petroleum and Coal Products	1,290	141	14	13	878	10	13	*	222	4.4
324110	Petroleum Refineries	1,184	132	10	2	821	6	1	0	213	3.5
324199	Other Petroleum and Coal Products	24	1	*	*	5	*	11	*	6	1.4
325	Chemicals	3,154	551	43	13	1,674	32	314	1	525	5.5
325110	Petrochemicals	273	W	W	*	172	W	W	0	38	1.2
325120	Industrial Gases	181	84	0	*	49	*	0	0	Q	6.1
325181	Alkalies and Chlorine	W	45	W	*	94	*	20	0	9	1.4
325182	Carbon Black	25	2	14	*	10	*	0	0	*	0.9
325188	Other Basic Inorganic Chemicals	191	89	2	2	68	*	19	*	11	3.4
325192	Cyclic Crudes and Intermediates	67	12	*	*	37	*	0	0	18	0.9
325193	Ethyl Alcohol	60	4	0	*	30	*	19	0	7	5.6
325199	Other Basic Organic Chemicals	976	86	W	2	425	2	W	0	300	12.2
325211	Plastics Materials and Resins	501	76	1	1	348	*	27	*	48	8.4
325212	Synthetic Rubber	52	7	*	*	28	*	5	0	12	7.4
325222	Noncellulosic Organic Fibers	61	15	W	*	30	*	W	0	3	1.6
325311	Nitrogenous Fertilizers	202	12	0	*	189	*	0	0	1	0.9
325312	Phosphatic Fertilizers	30	7	1	1	19	*	1	1	1	1
3254	Pharmaceuticals and Medicines	119	37	2	3	62	*	9	0	6	5.4
325412	Pharmaceutical Preparation	85	29	2	1	40	*	9	0	4	6

Table 4.2 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
325992	Photographic Film, Paper, Plate, and Chemicals	29	W	W	W	7	*	W	0	*	5.9
326	Plastics and Rubber Products	347	182	7	2	128	3	Q	0	4	9.5
327	Nonmetallic Mineral Products	960	141	3	31	421	3	309	11	40	4.4
3272	Glass and Glass Products	200	42	W	W	152	1	0	0	4	2.4
327211	Flat Glass	62	6	W	W	52	*	0	0	W	0.9
327213	Glass Containers	66	13	0	*	52	*	0	0	*	0.9
327310	Cements	344	43	1	6	21	*	236	8	30	2.1
327410	Lime	81	5	1	1	8	*	66	*	1	1
327993	Mineral Wool	51	13	0	*	35	*	0	3	*	2.9
331	Primary Metals	1,614	500	1	15	669	3	47	340	39	2.4
331111	Iron and Steel Mills	950	185	1	10	388	*	36	313	17	2.6
331112	Electrometallurgical Ferroalloy Products	24	12	0	*	7	*	2	*	2	2.6
3312	Steel Products from Purchased Steel	41	16	*	W	24	W	0	0	W	12.7
3313	Alumina and Aluminum	349	199	*	W	130	W	0	*	W	1.9
331312	Primary Aluminum	W	172	*	*	20	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	93	34	*	W	44	W	8	4	W	5.1
3315	Foundries	157	54	*	1	77	1	1	23	*	3.8
331511	Iron Foundries	81	28	0	1	27	*	1	23	*	4.7
331521	Aluminum Die-Casting Foundries	23	6	*	*	16	*	0	0	*	2.3
331524	Aluminum Foundries, except Die-Casting	19	5	*	*	14	*	0	0	*	4.7
332	Fabricated Metal Products	387	161	Q	6	209	3	1	Q	2	16.9
333	Machinery	175	84	*	2	82	2	1	0	4	11.5
334	Computer and Electronic Products	200	131	1	1	65	*	*	0	2	17.7
334413	Semiconductors and Related Devices	67	44	*	*	21	*	0	0	Q	3.9
335	Electrical Equip., Appliances, and Components	103	47	*	1	53	1	*	0	1	6.8
336	Transportation Equipment	422	173	6	3	203	4	8	0	27	5.8
336112	Light Trucks and Utility Vehicles	56	17	*	W	36	*	W	0	W	0.9
337	Furniture and Related Products	55	24	*	1	25	1	1	0	2	10.6
339	Miscellaneous	71	35	*	*	32	1	0	0	2	9.3
	Total	11,973	2,917	200	138	5,790	84	1,182	362	1,302	3.3
	Northeast Census Region										
	RSE Column Factors:	1.1	1.1	0.9	1.6	0.9	1.8	0.7	0.6	0.8	
311	Food	91	22	5	3	55	*	2	0	Q	23
311221	Wet Corn Milling	W	W	*	*	0	0	0	0	*	0.9
31131	Sugar	W	W	*	*	W	*	0	0	*	0.9
311421	Fruit and Vegetable Canning	5	1	Q	*	3	*	0	0	*	10.7
312	Beverage and Tobacco Products	13	3	1	*	7	*	0	0	1	4.9
3121	Beverages	12	W	1	W	W	W	0	0	1	5.4
3122	Tobacco	1	W	*	W	W	W	0	0	*	0.9
313	Textile Mills	24	5	3	1	14	1	0	0	*	25.1
314	Textile Product Mills	W	1	*	*	W	*	*	0	*	4.3

Table 4.2 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
315	Apparel	W	2	0	*	W	*	0	0	0	27.2
316	Leather and Allied Products	2	*	*	*	1	*	0	0	*	10.9
321	Wood Products	15	5	*	2	4	1	0	0	4	15
321113	Sawmills	4	1	*	2	*	*	0	0	*	5.7
3212	Veneer, Plywood, and Engineered Woods	4	1	*	*	2	*	0	0	1	10
3219	Other Wood Products	8	2	*	1	2	*	0	0	Q	17.5
322	Paper	207	33	W	W	73	W	W	0	45	3.8
322110	Pulp Mills	W	W	W	0	*	*	0	0	0	8.6
322121	Paper Mills, except Newsprint	148	16	25	1	48	W	15	0	W	3
322122	Newsprint Mills	W	W	W	W	0	0	0	0	0	0.9
322130	Paperboard Mills	W	3	W	W	15	W	W	0	W	3
323	Printing and Related Support	23	11	W	W	12	*	0	0	*	14.9
324	Petroleum and Coal Products	83	11	2	6	44	*	3	*	16	5.2
324110	Petroleum Refineries	64	10	1	*	36	*	1	0	15	1.5
324199	Other Petroleum and Coal Products	2	*	*	*	*	*	1	*	*	1
325	Chemicals	162	43	W	W	72	1	W	0	W	7.4
325110	Petrochemicals	W	*	0	*	W	0	0	0	0	1.8
325120	Industrial Gases	9	7	0	*	W	0	0	0	W	0.9
325181	Alkalies and Chlorine	W	W	W	*	*	*	0	0	W	1
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	4	W	W	6	*	0	0	W	2.8
325192	Cyclic Crudes and Intermediates	W	1	W	*	4	*	0	0	W	0.9
325193	Ethyl Alcohol	*	*	0	0	*	0	0	0	*	1
325199	Other Basic Organic Chemicals	17	3	W	*	7	*	0	0	W	8.1
325211	Plastics Materials and Resins	W	W	W	*	6	*	0	0	W	15.2
325212	Synthetic Rubber	1	*	0	*	*	*	0	0	*	0.9
325222	Noncellulosic Organic Fibers	*	W	W	0	*	*	0	0	*	5.9
325311	Nitrogenous Fertilizers	2	*	0	*	1	*	0	0	*	0.9
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	44	10	1	*	30	*	0	0	1	7.6
325412	Pharmaceutical Preparation	31	8	1	*	21	*	0	0	1	9.9
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	W	W	3	*	W	0	*	4.4
326	Plastics and Rubber Products	46	26	W	W	14	W	W	0	1	8.5
327	Nonmetallic Mineral Products	138	23	W	W	63	1	41	1	6	5.8
3272	Glass and Glass Products	40	W	W	W	30	*	0	0	W	3.6
327211	Flat Glass	11	W	0	W	9	*	0	0	W	0.9
327213	Glass Containers	13	W	0	W	10	*	0	0	*	0.9
327310	Cements	45	W	W	W	*	*	W	1	4	1
327410	Lime	5	W	0	W	*	*	W	0	*	0.9
327993	Mineral Wool	5	1	0	*	3	*	0	*	*	2.8
331	Primary Metals	144	52	*	W	68	W	W	Q	W	6.2
331111	Iron and Steel Mills	W	21	0	W	38	W	W	0	W	3.5
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	W	W	0	0	W	0.9
3312	Steel Products from Purchased Steel	W	W	*	W	W	*	0	0	W	15.1

Table 4.2 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
3313	Alumina and Aluminum	W	W	*	W	11	*	0	0	W	1.3
331312	Primary Aluminum	W	W	*	*	W	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	23	W	*	W	8	W	7	1	W	4.1
3315	Foundries	W	W	*	*	7	*	*	Q	*	4.2
331511	Iron Foundries	13	2	0	*	3	*	*	Q	*	3.8
331521	Aluminum Die-Casting Foundries	1	*	0	*	*	*	0	0	*	3.4
331524	Aluminum Foundries, except Die-Casting	3	1	*	*	2	*	0	0	*	1.4
332	Fabricated Metal Products	54	22	W	W	29	W	W	*	*	16.1
333	Machinery	27	13	*	*	12	*	0	0	Q	14.7
334	Computer and Electronic Products	62	38	1	1	21	*	*	0	1	30.3
334413	Semiconductors and Related Devices	14	8	*	*	5	*	0	0	Q	2.3
335	Electrical Equip., Appliances, and Components	17	7	*	*	10	*	0	0	*	15.7
336	Transportation Equipment	49	14	4	*	20	*	0	0	11	5.6
336112	Light Trucks and Utility Vehicles	W	W	0	*	W	*	0	0	W	0.9
337	Furniture and Related Products	7	3	0	*	3	*	0	0	*	17.5
339	Miscellaneous	21	9	*	*	10	*	0	0	2	13.3
	Total	1,196	342	66	28	538	9	92	10	111	5.8
	Midwest Census Region										
	RSE Column Factors:	1.1	1	0.8	1.3	1.2	2	0.4	0.7	1.2	
311	Food	532	97	4	2	246	1	159	1	22	10.7
311221	Wet Corn Milling	W	20	*	W	52	*	113	0	6	0.9
31131	Sugar	29	1	1	*	5	*	21	1	*	1
311421	Fruit and Vegetable Canning	7	1	*	*	5	*	0	0	*	3
312	Beverage and Tobacco Products	22	5	*	Q	10	*	6	0	*	5
3121	Beverages	22	W	*	W	W	W	6	0	*	5
3122	Tobacco	*	W	0	W	W	W	0	0	*	0.8
313	Textile Mills	3	1	0	*	1	*	0	0	*	6.5
314	Textile Product Mills	W	1	0	0	W	*	0	0	*	9.3
315	Apparel	W	1	0	0	W	*	0	0	*	13.8
316	Leather and Allied Products	4	1	0	*	3	*	0	0	*	13.2
321	Wood Products	30	11	*	W	13	1	W	0	4	4.3
321113	Sawmills	3	1	0	*	1	*	0	0	1	6.4
3212	Veneer, Plywood, and Engineered Woods	15	4	*	W	6	1	W	0	3	3.5
3219	Other Wood Products	12	5	0	*	5	*	0	0	1	10.8
322	Paper	274	52	7	1	100	Q	80	4	29	3.9
322110	Pulp Mills	W	W	0	*	W	*	W	0	W	0.9
322121	Paper Mills, except Newsprint	W	28	5	1	52	W	63	4	W	2.3
322122	Newsprint Mills	4	W	0	*	*	*	W	0	W	0.9
322130	Paperboard Mills	W	8	1	*	21	W	W	0	W	6.2
323	Printing and Related Support	33	18	0	*	15	*	0	0	*	10.7
324	Petroleum and Coal Products	156	23	4	1	102	3	0	0	22	5.5

Table 4.2 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
324110	Petroleum Refineries	131	21	4	*	84	1	0	0	20	2.4
324199	Other Petroleum and Coal Products	2	*	0	*	1	*	0	0	1	0.8
325	Chemicals	454	100	W	W	188	1	W	*	101	7.6
325110	Petrochemicals	W	W	0	*	2	0	0	0	*	0.9
325120	Industrial Gases	W	21	0	0	W	0	0	0	W	1.3
325181	Alkalies and Chlorine	W	W	0	W	W	*	W	0	*	4.2
325182	Carbon Black	W	W	W	0	1	*	0	0	*	0.9
325188	Other Basic Inorganic Chemicals	W	7	W	W	19	*	W	*	W	3.1
325192	Cyclic Crudes and Intermediates	W	W	W	W	6	*	0	0	*	0.8
325193	Ethyl Alcohol	57	4	0	*	28	*	19	0	6	5.6
325199	Other Basic Organic Chemicals	72	14	0	W	20	*	W	0	W	2.9
325211	Plastics Materials and Resins	W	15	W	*	20	*	W	*	W	3.7
325212	Synthetic Rubber	4	W	0	*	1	*	W	0	*	3.4
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	36	4	0	*	31	0	0	0	1	0.9
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	44	14	*	2	18	*	9	0	1	7
325412	Pharmaceutical Preparation	34	12	*	*	13	*	9	0	*	2.6
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	0	*	*	0	0	0	3.6
326	Plastics and Rubber Products	137	68	W	W	48	W	W	0	1	12.3
327	Nonmetallic Mineral Products	261	36	W	W	112	1	85	2	17	5.3
3272	Glass and Glass Products	58	12	0	*	44	*	0	0	1	1.4
327211	Flat Glass	19	W	0	W	16	*	0	0	1	0.8
327213	Glass Containers	16	W	0	W	13	*	0	0	*	0.8
327310	Cements	88	10	0	1	6	*	55	*	15	3.3
327410	Lime	36	2	W	W	4	*	30	*	*	1
327993	Mineral Wool	20	5	0	*	14	*	0	1	*	1.3
331	Primary Metals	825	191	*	8	334	1	28	242	20	2
331111	Iron and Steel Mills	W	78	*	W	223	W	24	229	W	2.4
331112	Electrometallurgical Ferroalloy Products	19	8	0	*	7	W	2	*	W	1
3312	Steel Products from Purchased Steel	22	7	0	W	14	W	0	0	W	7.2
3313	Alumina and Aluminum	W	55	0	W	31	W	0	0	W	3
331312	Primary Aluminum	W	48	0	*	W	*	0	0	W	0.8
3314	Nonferrous Metals, except Aluminum	26	9	*	W	13	W	0	2	W	5.6
3315	Foundries	93	33	*	*	47	*	1	10	*	3
331511	Iron Foundries	47	19	0	*	16	*	1	10	*	4.2
331521	Aluminum Die-Casting Foundries	17	5	*	*	12	*	0	0	*	3.1
331524	Aluminum Foundries, except Die-Casting	11	3	0	*	8	*	0	0	*	2.9
332	Fabricated Metal Products	182	73	W	W	100	W	W	Q	1	15.4
333	Machinery	92	39	0	1	47	1	1	0	2	12.2
334	Computer and Electronic Products	32	18	0	*	13	*	0	0	1	7.1
334413	Semiconductors and Related Devices	3	2	0	*	1	*	0	0	0	1.5
335	Electrical Equip., Appliances, and Components	36	17	0	*	19	*	*	0	*	4.2
336	Transportation Equipment	237	94	*	W	120	2	W	0	12	12.6

Table 4.2 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
336112	Light Trucks and Utility Vehicles	36	W	*	W	24	*	W	0	W	0.9
337	Furniture and Related Products	21	8	0	W	12	*	W	0	*	13.5
339	Miscellaneous	19	10	*	*	9	*	0	0	*	9
	Total	3,353	863	20	30	1,494	16	445	253	232	6.2
	South Census Region										
	RSE Column Factors:	0.9	1	0.9	1.3	1	1.8	0.7	0.7	1.1	
311	Food	285	79	Q	6	169	2	10	0	16	9.6
311221	Wet Corn Milling	20	4	0	*	5	*	8	0	4	0.9
31131	Sugar	20	1	1	1	10	*	2	0	5	0.9
311421	Fruit and Vegetable Canning	14	2	*	Q	11	Q	0	0	*	9.2
312	Beverage and Tobacco Products	46	12	1	Q	19	*	11	0	1	3.3
3121	Beverages	27	8	*	Q	15	*	1	0	1	3.8
3122	Tobacco	19	5	1	*	3	*	10	0	*	0.9
313	Textile Mills	169	78	1	1	52	*	22	0	15	18.4
314	Textile Product Mills	51	13	2	Q	24	Q	Q	0	Q	21.9
315	Apparel	15	7	*	Q	7	*	0	0	*	23.1
316	Leather and Allied Products	1	*	0	*	*	*	0	0	*	9
321	Wood Products	98	39	*	W	25	2	W	0	27	8
321113	Sawmills	26	11	0	2	3	*	0	0	9	10.1
3212	Veneer, Plywood, and Engineered Woods	53	20	*	W	17	1	W	0	12	9.2
3219	Other Wood Products	16	7	0	1	3	*	0	0	5	16.2
322	Paper	730	111	51	9	243	2	137	0	176	2.4
322110	Pulp Mills	W	6	10	5	19	*	W	0	W	0.9
322121	Paper Mills, except Newsprint	240	30	15	2	79	*	61	0	52	2.1
322122	Newsprint Mills	39	17	*	*	W	*	W	0	W	0.9
322130	Paperboard Mills	348	41	27	W	108	W	W	0	100	3.3
323	Printing and Related Support	28	15	W	W	11	*	0	0	*	7.5
324	Petroleum and Coal Products	806	82	5	5	563	3	10	0	138	4.9
324110	Petroleum Refineries	759	78	2	1	544	2	0	0	132	1.7
324199	Other Petroleum and Coal Products	18	1	0	*	2	*	10	0	5	1.7
325	Chemicals	2,390	367	33	W	1,336	30	218	1	W	5.1
325110	Petrochemicals	270	W	W	*	W	W	W	0	38	0.9
325120	Industrial Gases	W	45	0	*	47	*	0	0	W	4
325181	Alkalies and Chlorine	126	33	0	W	W	*	W	0	W	0.9
325182	Carbon Black	W	W	W	*	9	*	0	0	*	0.9
325188	Other Basic Inorganic Chemicals	108	69	W	W	31	*	W	0	W	2.2
325192	Cyclic Crudes and Intermediates	W	10	W	*	26	*	0	0	W	0.9
325193	Ethyl Alcohol	*	*	0	*	*	*	0	0	*	0.9
325199	Other Basic Organic Chemicals	882	68	W	W	395	2	W	0	261	11.4
325211	Plastics Materials and Resins	436	57	W	1	321	*	W	0	W	5.2
325212	Synthetic Rubber	47	W	*	*	27	*	W	0	12	8.5

Table 4.2 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
325222	Noncellulosic Organic Fibers	60	W	W	*	30	*	W	0	3	0.9
325311	Nitrogenous Fertilizers	135	6	0	*	128	*	0	0	*	0.9
325312	Phosphatic Fertilizers	22	5	1	1	13	*	1	1	*	1
3254	Pharmaceuticals and Medicines	22	9	1	*	8	*	0	0	3	8.6
325412	Pharmaceutical Preparation	14	6	1	*	4	*	0	0	3	12.3
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	W	*	2	*	0	0	*	5.4
326	Plastics and Rubber Products	141	73	5	1	57	1	0	0	2	13.6
327	Nonmetallic Mineral Products	395	61	W	W	184	1	116	8	16	6.5
3272	Glass and Glass Products	80	17	W	W	61	*	0	0	W	2.2
327211	Flat Glass	25	3	W	W	21	*	0	0	W	0.9
327213	Glass Containers	22	4	0	*	18	*	0	0	*	0.9
327310	Cements	135	17	0	2	10	*	89	7	9	3.4
327410	Lime	28	2	0	*	3	*	23	0	*	0.9
327993	Mineral Wool	21	5	0	*	15	*	0	1	*	3.6
331	Primary Metals	554	212	*	W	227	1	7	88	W	1.8
331111	Iron and Steel Mills	W	75	*	W	109	*	7	84	W	1.9
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	W	*	0	0	W	11.1
3312	Steel Products from Purchased Steel	W	W	0	W	W	*	0	0	W	19.9
3313	Alumina and Aluminum	W	104	0	W	80	*	0	*	W	2.6
331312	Primary Aluminum	W	90	0	*	W	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	27	11	0	W	14	*	1	Q	W	8.3
3315	Foundries	37	14	0	*	18	*	*	4	*	1.5
331511	Iron Foundries	18	6	0	*	8	*	0	4	*	1.7
331521	Aluminum Die-Casting Foundries	4	1	0	*	3	*	0	0	*	1.7
331524	Aluminum Foundries, except Die-Casting	4	1	0	*	3	*	0	0	*	3.6
332	Fabricated Metal Products	120	52	W	W	65	2	*	0	*	15.3
333	Machinery	43	25	0	*	17	1	0	0	*	10.1
334	Computer and Electronic Products	40	31	0	*	8	*	0	0	*	6.5
334413	Semiconductors and Related Devices	16	13	0	*	3	*	0	0	*	3.1
335	Electrical Equip., Appliances, and Components	40	21	*	*	18	1	0	0	1	10.1
336	Transportation Equipment	101	48	2	W	44	1	W	0	3	5.9
336112	Light Trucks and Utility Vehicles	18	W	0	*	W	*	0	0	1	0.9
337	Furniture and Related Products	22	11	0	W	8	1	W	0	2	19.5
339	Miscellaneous	19	10	*	*	8	*	0	0	*	17
	Total	6,092	1,348	104	53	3,086	49	540	97	815	3.5
	West Census Region										
	RSE Column Factors:	1.2	1.2	0.7	1.4	1.3	1.9	0.6	0.5	1	
311	Food	171	35	*	7	105	Q	13	*	9	7.5
311221	Wet Corn Milling	W	W	0	W	4	*	0	0	1	2.8
31131	Sugar	W	W	*	*	W	*	13	*	3	1
311421	Fruit and Vegetable Canning	20	2	*	*	17	*	0	0	*	7

Table 4.2 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
312	Beverage and Tobacco Products	23	6	0	*	10	*	0	0	7	3.8
3121	Beverages	23	6	0	*	10	*	0	0	7	3.8
3122	Tobacco	*	*	0	0	0	0	0	0	0	0.8
313	Textile Mills	11	3	0	0	Q	*	0	0	1	9.4
314	Textile Product Mills	2	1	0	0	1	*	0	0	0	17.2
315	Apparel	8	3	0	*	Q	*	0	0	*	28.5
316	Leather and Allied Products	*	*	0	*	*	0	0	0	0	29.1
321	Wood Products	54	19	*	3	15	1	0	0	16	6.9
321113	Sawmills	25	8	*	2	6	*	0	0	9	6.1
3212	Veneer, Plywood, and Engineered Woods	22	8	0	*	7	*	0	0	6	4.4
3219	Other Wood Products	6	3	0	*	2	*	0	0	Q	11.4
322	Paper	202	50	W	W	88	W	W	0	56	1.4
322110	Pulp Mills	W	1	W	*	W	*	0	0	W	0.8
322121	Paper Mills, except Newsprint	W	12	3	*	27	*	0	0	W	1.9
322122	Newsprint Mills	W	16	W	W	W	*	0	0	W	0.8
322130	Paperboard Mills	91	14	W	W	43	W	W	0	W	1
323	Printing and Related Support	15	6	0	*	8	*	0	0	*	17
324	Petroleum and Coal Products	245	24	2	2	168	4	0	0	46	8.6
324110	Petroleum Refineries	230	23	2	*	157	3	0	0	45	5.5
324199	Other Petroleum and Coal Products	2	*	0	*	2	0	0	0	*	0.8
325	Chemicals	148	40	W	W	79	*	W	0	W	5.2
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	W	11	0	0	W	0	0	0	0	1.7
325181	Alkalies and Chlorine	31	W	0	*	W	*	W	0	1	0.9
325182	Carbon Black	*	W	0	0	*	*	0	0	0	0.7
325188	Other Basic Inorganic Chemicals	W	10	W	W	13	*	W	0	W	1.8
325192	Cyclic Crudes and Intermediates	W	W	0	W	*	*	0	0	W	0.8
325193	Ethyl Alcohol	2	*	0	*	1	*	0	0	1	0.8
325199	Other Basic Organic Chemicals	5	1	W	*	3	*	0	0	W	7.6
325211	Plastics Materials and Resins	W	W	0	*	1	*	0	0	*	5
325212	Synthetic Rubber	*	*	0	0	*	*	0	0	*	0.8
325222	Noncellulosic Organic Fibers	*	*	0	0	0	*	0	0	0	0.7
325311	Nitrogenous Fertilizers	30	2	0	*	28	*	0	0	*	0.8
325312	Phosphatic Fertilizers	8	2	0	*	6	*	0	0	*	0.8
3254	Pharmaceuticals and Medicines	9	4	0	*	5	*	0	0	*	4.1
325412	Pharmaceutical Preparation	5	2	0	*	3	*	0	0	*	5.6
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	*	2	*	0	0	0	0.7
326	Plastics and Rubber Products	24	15	0	W	9	W	0	0	*	13.1
327	Nonmetallic Mineral Products	166	22	W	W	62	*	67	*	3	3.7
3272	Glass and Glass Products	23	W	W	W	17	*	0	0	*	1
327211	Flat Glass	7	W	W	W	5	*	0	0	W	0.8
327213	Glass Containers	14	W	0	W	11	*	0	0	*	0.8
327310	Cements	77	W	W	W	5	*	W	*	2	1.3
327410	Lime	12	W	W	W	1	*	W	0	*	0.9

Table 4.2 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
327993	Mineral Wool	5	2	0	*	3	*	0	*	*	1.1
331	Primary Metals	91	46	0	W	40	W	W	1	W	2
331111	Iron and Steel Mills	32	13	0	W	18	W	W	*	W	2.1
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	*	*	0	0	W	0.8
3312	Steel Products from Purchased Steel	W	W	0	*	1	*	0	0	W	2.6
3313	Alumina and Aluminum	W	W	0	*	8	*	0	0	W	2.9
331312	Primary Aluminum	W	W	0	*	W	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	18	W	0	W	8	*	0	0	W	4.7
3315	Foundries	W	W	0	*	4	*	*	1	*	2.5
331511	Iron Foundries	2	1	0	*	1	*	*	1	*	1.2
331521	Aluminum Die-Casting Foundries	1	*	0	0	*	*	0	0	*	8.6
331524	Aluminum Foundries, except Die-Casting	1	*	0	*	1	*	0	0	*	2.2
332	Fabricated Metal Products	30	14	0	*	15	*	0	0	*	11.9
333	Machinery	13	7	0	*	6	*	0	0	*	10.1
334	Computer and Electronic Products	67	44	*	*	23	*	0	0	*	6.5
334413	Semiconductors and Related Devices	34	22	0	*	12	*	0	0	*	6
335	Electrical Equip., Appliances, and Components	10	3	0	*	Q	*	0	0	*	5.6
336	Transportation Equipment	36	16	0	*	18	*	0	0	1	12.8
336112	Light Trucks and Utility Vehicles	W	W	0	*	*	*	0	0	*	0.8
337	Furniture and Related Products	5	3	*	*	2	*	0	0	*	13.4
339	Miscellaneous	12	7	0	*	5	*	0	0	*	15.2
	Total	1,333	364	10	27	672	10	105	1	143	3.1

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

(b) 'Electricity' consists of quantities of electricity that were purchased or transferred in, and is equivalent to 'purchased electricity' as defined in the 'Annual Survey of Manufactures.'

(c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(d) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(e) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(f) 'Other' includes all other energy that was purchased or transferred in and not shown elsewhere.

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.

Table 4.2 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors

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. The derived estimates presented in this table represent the consumption of energy originally produced offsite, acquired as a result of a purchase or transfer and consumed onsite for the production of heat and power. This definition is consistent with the definition of 'purchased' fuels and electric energy used by the Bureau of the Census in the preparation of 'Fuels and Electric Energy Consumed,' of the 'Annual Survey of Manufactures,' for 1974 through 1981.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002.

Table 4.3 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
Total United States										
RSE Column Factors:	0.6	0.6	1.3	2.2	0.7	1.4	1.5	0.6	1	
Value of Shipments and Receipts (million dollars)										
Under 20	1,276	437	15	50	598	W	47	W	97	14.5
20-49	1,258	417	28	22	590	W	112	W	72	6.1
50-99	1,463	401	17	W	731	7	185	W	97	4.9
100-249	2,041	571	43	17	968	8	253	7	175	4.6
250-499	1,962	475	54	W	826	W	326	W	255	5.6
500 and Over	3,971	618	38	W	2,077	37	259	W	607	1.5
Total	11,970	2,918	197	137	5,790	84	1,182	362	1,302	3.3
Employment Size										
Under 50	853	258	W	39	419	W	37	W	Q	9.5
50-99	1,005	248	W	W	546	W	88	W	65	12.9
100-249	2,222	623	W	W	1,046	12	292	W	182	4.9
250-499	2,427	637	41	W	1,229	W	253	13	230	6.2
500-999	2,530	560	60	W	1,089	34	269	W	492	3.8
1000 and Over	2,933	591	W	W	1,460	W	242	W	253	2.1
Total	11,970	2,918	197	137	5,790	84	1,182	362	1,302	3.3
Northeast Census Region										
RSE Column Factors:	0.8	1.1	1.1	1.9	1	1.7	0.6	0.7	0.9	
Value of Shipments and Receipts (million dollars)										
Under 20	248	89	9	W	105	W	W	W	9	15.9
20-49	190	59	11	6	80	W	22	W	11	8
50-99	187	53	11	W	94	W	11	W	13	5.6
100-249	196	59	16	2	80	1	23	*	15	4.1
250-499	142	33	4	W	72	W	W	0	21	2.8
500 and Over	232	50	14	W	107	*	W	0	43	1.1
Total	1,196	342	66	28	538	9	92	10	111	5.8

Table 4.3 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
Employment Size										
Under 50	119	W	3	10	53	2	W	0	7	13.1
50-99	156	W	8	W	67	W	9	W	7	13.1
100-249	263	74	14	W	110	3	W	W	16	6.2
250-499	216	69	14	3	105	1	6	1	18	4.6
500-999	209	52	17	2	99	W	W	W	25	3.7
1000 and Over	232	54	10	W	104	W	W	0	39	1.6
Total	1,196	342	66	28	538	9	92	10	111	5.8
Midwest Census Region										
RSE Column Factors:	0.6	0.7	1.7	2.7	0.7	2.1	0.8	0.2	1.9	
Value of Shipments and Receipts (million dollars)										
Under 20	498	145	W	W	241	W	22	W	Q	17.3
20-49	353	119	2	W	179	W	23	2	25	11
50-99	481	128	1	4	236	3	75	4	31	8.3
100-249	510	141	5	2	231	W	103	W	22	5.6
250-499	429	143	W	1	173	W	76	W	30	8.4
500 and Over	1,078	187	7	W	434	W	146	234	57	3.2
Total	3,349	863	17	29	1,494	16	445	253	232	6.4
Employment Size										
Under 50	310	78	W	3	150	W	21	W	Q	10.7
50-99	284	70	W	W	176	W	21	W	9	14.6
100-249	658	170	W	W	286	3	W	5	70	10.3
250-499	742	204	2	W	319	W	162	Q	42	8.6
500-999	423	138	W	W	196	W	55	8	19	4.4
1000 and Over	932	203	7	W	367	W	W	233	39	3.7
Total	3,349	863	17	29	1,494	16	445	253	232	6.4
South Census Region										
RSE Column Factors:	0.7	0.7	1.3	1.9	0.7	1.7	1.9	0.4	0.9	
Value of Shipments and Receipts										

Table 4.3 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
(million dollars)										
Under 20	354	144	Q	14	156	6	W	W	18	15.2
20-49	537	179	15	W	256	W	45	W	26	9.7
50-99	615	172	3	W	312	3	74	W	42	7.1
100-249	994	281	18	11	507	4	74	2	97	7.2
250-499	1,226	247	46	W	504	W	238	W	180	5.5
500 and Over	2,365	326	16	W	1,352	W	W	W	453	1.2
Total	6,092	1,349	104	53	3,086	49	540	97	815	3.5
Employment Size										
Under 50	300	103	Q	14	154	W	4	W	19	14.8
50-99	420	91	14	5	232	W	27	W	45	17.7
100-249	981	283	10	W	511	W	93	W	66	6.8
250-499	1,136	273	20	6	625	4	68	6	134	3.5
500-999	1,673	317	38	13	676	30	201	*	397	4.6
1000 and Over	1,584	282	19	W	888	W	148	W	153	2.4
Total	6,092	1,349	104	53	3,086	49	540	97	815	3.5
West Census Region										
RSE Column Factors:	1.1	1.1	0.5	3.6	1.5	3	0.4	0.2	1.3	
Value of Shipments and Receipts (million dollars)										
Under 20	176	58	W	11	95	W	W	W	3	10.1
20-49	178	61	*	5	76	W	22	W	11	4.7
50-99	180	48	2	3	89	W	25	W	11	4.4
100-249	340	90	4	2	152	W	52	W	40	2.4
250-499	164	53	W	5	77	*	W	0	24	4.6
500 and Over	295	54	1	1	183	3	0	0	54	4.3
Total	1,333	364	10	27	672	10	105	1	143	3.1
Employment Size										
Under 50	124	W	*	12	62	W	W	*	2	9.2
50-99	145	W	1	3	71	W	32	*	4	8.4
100-249	319	96	3	W	139	W	46	*	30	3.3
250-499	334	92	5	1	180	2	18	1	35	3.6

Table 4.3 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors
500-999	226	53	1	W	118	W	W	0	51	2.1
1000 and Over	185	53	*	6	102	2	*	0	22	2.3
Total	1,333	364	10	27	672	10	105	1	143	3.1

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

(b) 'Electricity' consists of quantities of electricity that were purchased or transferred in, and is equivalent to 'purchased electricity' as defined in the 'Annual Survey of Manufactures.'

(c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(d) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(e) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(f) 'Other' includes all other energy that was purchased or transferred in and not shown elsewhere.

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. The derived estimates presented in this table represent the consumption of energy originally produced offsite, acquired as a result of a purchase or transfer and consumed onsite for the production of heat and power. This definition is consistent with the definition of 'purchased' fuels and electric energy used by the Bureau of the Census in the preparation of 'Fuels and Electric Energy Consumed,' of the 'Annual Survey of Manufactures,' for 1974 through 1981.

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

Table 4.3 Offsite-Produced Fuel Consumption, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Trillion Btu.

Economic Characteristic(a)	Total	Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	LPG and NGL(e)	Coal	Coke and Breeze	Other(f)	RSE Row Factors

Energy Consumption Survey,' and Office of Oil and Gas, Petroleum
Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002, and the Bureau
of the Census, data files for the '2002 Economic Census, Manufacturing - Industry Series.'

Table 4.4 Number of Establishments by Offsite-Produced Fuel Consumption, 2002;
Level: National Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Energy Source(b)	Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	RSE Row Factors
	Total United States										
	RSE Column Factors:	0.7	0.7	1.3	1.1	0.9	1.2	1.2	1	1.2	
311	Food	15,089	15,045	274	2,417	12,018	3,159	91	19	1,675	5.1
311221	Wet Corn Milling	49	49	3	19	47	14	19	0	14	1
31131	Sugar	77	77	18	40	62	31	24	19	24	1
311421	Fruit and Vegetable Canning	468	468	38	123	416	229	0	0	145	7.8
312	Beverage and Tobacco Products	1,595	1,595	35	251	1,132	630	17	0	169	11
3121	Beverages	1,517	1,517	24	221	1,075	586	9	0	150	13.1
3122	Tobacco	78	78	11	30	57	44	8	0	19	1
313	Textile Mills	2,247	2,247	145	360	1,388	865	48	0	209	5.3
314	Textile Product Mills	3,426	3,424	16	82	2,245	592	26	0	162	10.6
315	Apparel	5,500	5,500	26	311	3,014	608	0	0	37	9.9
316	Leather and Allied Products	685	685	W	31	568	71	0	0	Q	6.7
321	Wood Products	10,486	10,460	69	2,831	4,593	4,273	W	0	1,958	1.7
321113	Sawmills	2,235	2,209	W	1,097	469	581	0	0	587	2.8
3212	Veneer, Plywood, and Engineered Woods	1,478	1,478	7	419	774	771	W	0	417	3.4
3219	Other Wood Products	6,461	6,461	55	1,137	3,153	2,794	0	0	892	2.1
322	Paper	4,257	4,257	242	541	3,481	2,197	102	W	440	1.8
322110	Pulp Mills	34	34	15	21	26	18	W	0	18	1
322121	Paper Mills, except Newsprint	323	323	111	156	267	215	55	W	141	3.7
322122	Newsprint Mills	21	21	4	14	16	12	4	0	13	1
322130	Paperboard Mills	210	210	57	91	185	148	38	0	88	1.8
323	Printing and Related Support	20,220	20,220	136	192	13,304	1,879	0	0	509	5.2
324	Petroleum and Coal Products	1,916	1,915	118	709	1,409	526	12	W	338	5.9
324110	Petroleum Refineries	215	215	40	91	198	94	9	0	172	1.4
324199	Other Petroleum and Coal Products	47	46	W	26	30	10	3	W	22	1
325	Chemicals	8,909	8,909	270	1,737	6,755	3,200	137	4	1,678	2.2
325110	Petrochemicals	37	37	W	11	33	5	W	0	13	1
325120	Industrial Gases	527	527	0	5	173	Q	0	0	46	4.2
325181	Alkalies and Chlorine	33	33	W	10	29	6	7	0	14	1.1
325182	Carbon Black	22	22	4	11	22	4	0	0	9	1
325188	Other Basic Inorganic Chemicals	515	515	16	102	315	219	5	W	125	5.8
325192	Cyclic Crudes and Intermediates	37	37	4	17	36	12	0	0	17	1
325193	Ethyl Alcohol	48	48	0	9	46	12	18	0	25	1
325199	Other Basic Organic Chemicals	578	578	30	261	480	315	47	0	341	2.1
325211	Plastics Materials and Resins	709	709	62	165	588	341	16	W	237	2.3
325212	Synthetic Rubber	125	125	24	30	103	53	W	0	33	2.2
325222	Noncellulosic Organic Fibers	64	64	19	23	50	31	W	0	25	1
325311	Nitrogenous Fertilizers	56	56	0	23	44	11	0	0	20	1.1
325312	Phosphatic Fertilizers	27	27	5	19	21	10	W	W	12	1
3254	Pharmaceuticals and Medicines	1,143	1,143	56	324	917	308	6	0	114	3.5
325412	Pharmaceutical Preparation	606	606	11	128	507	126	6	0	71	6.2
325992	Photographic Film, Paper, Plate, and Chemicals	171	171	4	51	162	69	W	0	Q	3.6
326	Plastics and Rubber Products	10,538	10,538	81	705	8,022	3,960	7	0	1,201	1.8
327	Nonmetallic Mineral Products	11,593	11,511	27	3,999	7,328	3,127	181	22	1,970	5.8
3272	Glass and Glass Products	1,047	1,047	3	155	979	329	0	0	201	5.9
327211	Flat Glass	38	38	W	22	38	28	0	0	22	1
327213	Glass Containers	61	61	0	44	61	51	0	0	45	1.1
327310	Cements	195	195	3	106	136	64	109	W	96	2.4
327410	Lime	65	65	7	48	44	29	45	W	43	1

Table 4.4 Number of Establishments by Offsite-Produced Fuel Consumption, 2002;
Level: National Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Energy Source(b)	Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	RSE Row Factors
327993	Mineral Wool	207	207	0	37	183	68	0	14	39	14
331	Primary Metals	4,166	4,166	44	986	3,599	1,873	39	116	1,313	3.6
331111	Iron and Steel Mills	771	771	5	274	448	157	19	18	152	4.2
331112	Electrometallurgical Ferroalloy Products	15	15	0	10	14	6	W	W	6	1
3312	Steel Products from Purchased Steel	548	548	W	138	504	303	0	0	166	4.6
3313	Alumina and Aluminum	446	446	W	114	423	194	0	W	149	3.3
331312	Primary Aluminum	41	41	W	26	41	22	0	0	26	1.9
3314	Nonferrous Metals, except Aluminum	671	671	12	110	629	317	W	W	217	2.7
3315	Foundries	1,715	1,715	13	341	1,582	895	14	80	624	5.1
331511	Iron Foundries	453	453	0	194	396	253	13	80	185	5.4
331521	Aluminum Die-Casting Foundries	227	227	W	11	215	126	0	0	84	1.4
331524	Aluminum Foundries, except Die-Casting	341	341	W	37	304	152	0	0	116	4.7
332	Fabricated Metal Products	35,349	35,349	201	2,955	26,976	13,506	73	66	8,314	5.2
333	Machinery	17,381	17,381	14	1,097	14,123	5,965	W	0	3,166	2.3
334	Computer and Electronic Products	9,238	9,238	23	657	6,629	987	W	0	613	2.3
334413	Semiconductors and Related Devices	578	578	W	93	434	63	0	0	51	4.2
335	Electrical Equip., Appliances, and Components	3,886	3,886	17	321	3,349	1,446	W	0	714	5.2
336	Transportation Equipment	7,653	7,653	33	1,119	5,993	3,253	20	0	1,985	1.6
336112	Light Trucks and Utility Vehicles	42	42	3	21	41	19	W	0	29	1
337	Furniture and Related Products	10,941	10,941	W	649	6,144	2,833	99	0	724	6.7
339	Miscellaneous	15,605	15,605	12	295	11,171	3,711	0	0	1,719	2.1
	Total	200,679	200,524	1,846	22,242	143,242	58,661	860	230	28,936	2.2

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

(b) 'Any Energy Source' represents the non-duplicative total of establishments identified with any of the listed energy sources. This count includes only those establishments that reported this activity in 2002.

(c) 'Electricity' consists of quantities of electricity that were purchased or transferred in, and is equivalent to 'purchased electricity' as defined in the 'Annual Survey of Manufactures.'

(d) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(e) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(f) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(g) 'Other' includes all other energy that was purchased or transferred in and not shown elsewhere.

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. The derived estimates presented in this table represent the consumption of energy originally produced offsite,

Table 4.4 Number of Establishments by Offsite-Produced Fuel Consumption, 2002;
Level: National Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Energy Source(b)	Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	LPG and NGL(f)	Coal	Coke and Breeze	Other(g)	RSE Row Factors

acquired as a result of a purchase or transfer and consumed onsite for the production of heat and power. This definition is consistent with the definition of 'purchased' fuels and electric energy used by the Bureau of the Census in the preparation of 'Fuels and Electric Energy Consumed,' of the 'Annual Survey of Manufactures,' for 1974 through 1981.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2002.

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
		Total United States								
311 - 339	**ALL MANUFACTURING INDUSTRIES**									
	RSE Column Factors:	0.3	1	1	2.4	1.1	1.4	1	NF	
	TOTAL FUEL CONSUMPTION	16,273	832,257	33	24	5,641	26	53	6,006	3.4
	Indirect Uses-Boiler Fuel	--	3,540	20	6	2,105	2	35	--	5.3
	Conventional Boiler Use	--	2,496	12	4	1,271	2	11	--	5.6
	CHP and/or Cogeneration Process	--	1,043	8	2	834	*	23	--	3.8
	Direct Uses-Total Process	--	650,100	10	7	2,867	16	17	--	2.9
	Process Heating	--	100,541	9	4	2,670	15	17	--	3.3
	Process Cooling and Refrigeration	--	56,723	*	*	44	*	*	--	3.8
	Machine Drive	--	417,998	*	3	106	1	*	--	4.8
	Electro-Chemical Processes	--	71,045	--	--	--	--	--	--	1
	Other Process Use	--	3,793	*	*	58	*	*	--	5.3
	Direct Uses-Total Nonprocess	--	150,530	1	9	500	6	1	--	4.6
	Facility HVAC (g)	--	76,840	1	1	406	1	*	--	6.6
	Facility Lighting	--	57,460	--	--	--	--	--	--	1.1
	Other Facility Support	--	14,087	*	*	29	*	*	--	9.7
	Onsite Transportation	--	1,212	--	6	2	5	--	--	3.1
	Conventional Electricity Generation	--	--	*	Q	54	*	1	--	1.7
	Other Nonprocess Use	--	931	*	Q	10	*	0	--	8.8
	End Use Not Reported	6,306	28,087	3	2	157	2	*	6,006	8.3
311	**FOOD**									
	RSE Column Factors:	0.2	1.4	1.5	2.5	1.2	2.6	0.4	NF	
	TOTAL FUEL CONSUMPTION	1,116	67,521	2	3	560	1	8	91	9.7
	Indirect Uses-Boiler Fuel	--	Q	1	1	268	W	8	--	11.7
	Conventional Boiler Use	--	Q	1	1	231	W	3	--	12.7
	CHP and/or Cogeneration Process	--	72	*	*	37	0	5	--	5.5
	Direct Uses-Total Process	--	52,452	1	1	224	W	W	--	7.9
	Process Heating	--	2,146	1	*	199	W	W	--	8.8
	Process Cooling and Refrigeration	--	17,842	0	*	Q	*	0	--	9
	Machine Drive	--	32,187	0	1	13	*	0	--	11
	Electro-Chemical Processes	--	Q	--	--	--	--	--	--	1.1
	Other Process Use	--	187	*	*	4	0	0	--	13
	Direct Uses-Total Nonprocess	--	10,210	*	1	W	*	*	--	10.4
	Facility HVAC (g)	--	4,755	*	*	36	*	*	--	11.3
	Facility Lighting	--	4,526	--	--	--	--	--	--	1.3
	Other Facility Support	--	744	*	*	W	*	0	--	12.8
	Onsite Transportation	--	148	--	*	*	*	--	--	4.9
	Conventional Electricity Generation	--	--	0	*	Q	0	0	--	2.1
	Other Nonprocess Use	--	38	*	*	*	0	0	--	12.1
	End Use Not Reported	133	4,142	*	*	W	W	W	91	14.1
311221	**Wet Corn Milling**									

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	RSE Column Factors:	0.9	1.1	0.9	1.3	1.3	0.9	0.9	NF	
	TOTAL FUEL CONSUMPTION	217	6,851	*	*	59	*	5	11	1.3
	Indirect Uses-Boiler Fuel	--	136	*	*	31	0	5	--	1.3
	Conventional Boiler Use	--	96	*	*	21	0	3	--	1
	CHP and/or Cogeneration Process	--	40	0	*	10	0	3	--	1.6
	Direct Uses-Total Process	--	6,459	0	*	28	*	0	--	1.5
	Process Heating	--	226	0	0	27	*	0	--	1
	Process Cooling and Refrigeration	--	94	0	0	*	0	0	--	1.2
	Machine Drive	--	6,140	0	*	*	*	0	--	1.8
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	0	0	*	0	0	0	--	1
	Direct Uses-Total Nonprocess	--	255	*	*	1	*	0	--	1
	Facility HVAC (g)	--	95	*	*	1	*	0	--	1.1
	Facility Lighting	--	154	--	--	--	--	--	--	1
	Other Facility Support	--	6	*	0	*	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1.1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1.8
	Other Nonprocess Use	--	0	0	*	0	0	0	--	1
	End Use Not Reported	11	0	0	*	0	*	0	11	1
31131	**Sugar**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	111	725	*	*	22	*	2	47	1
	Indirect Uses-Boiler Fuel	--	13	*	*	16	0	1	--	1
	Conventional Boiler Use	--	7	*	0	3	0	*	--	1
	CHP and/or Cogeneration Process	--	6	*	*	13	0	1	--	1
	Direct Uses-Total Process	--	624	*	*	4	*	W	--	1
	Process Heating	--	27	*	*	4	*	W	--	1
	Process Cooling and Refrigeration	--	11	0	0	0	0	0	--	1
	Machine Drive	--	584	0	*	*	*	0	--	1
	Electro-Chemical Processes	--	2	--	--	--	--	--	--	1
	Other Process Use	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Nonprocess	--	86	0	*	*	*	*	--	1
	Facility HVAC (g)	--	30	0	0	*	*	*	--	1
	Facility Lighting	--	44	--	--	--	--	--	--	1
	Other Facility Support	--	4	0	*	*	*	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1
	Other Nonprocess Use	--	8	0	*	0	0	0	--	1
	End Use Not Reported	W	2	*	*	1	*	W	47	1
311421	**Fruit and Vegetable Canning**									
	RSE Column Factors:	0.3	2.2	1	0.9	1.2	2.1	0.6	NF	

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	47	1,960	*	*	35	*	0	1	18
	Indirect Uses-Boiler Fuel	--	1	*	*	26	*	0	--	6.3
	Conventional Boiler Use	--	1	*	*	W	*	0	--	6.7
	CHP and/or Cogeneration Process	--	0	0	0	W	0	0	--	1.6
	Direct Uses-Total Process	--	1,481	*	*	W	*	0	--	8.5
	Process Heating	--	42	*	*	W	*	0	--	4.7
	Process Cooling and Refrigeration	--	424	0	*	*	0	0	--	3
	Machine Drive	--	996	0	*	*	*	0	--	4.9
	Electro-Chemical Processes	--	14	--	--	--	--	--	--	1
	Other Process Use	--	5	0	*	0	0	0	--	1.2
	Direct Uses-Total Nonprocess	--	350	*	*	W	*	0	--	5.5
	Facility HVAC (g)	--	128	0	0	W	*	0	--	4.1
	Facility Lighting	--	184	--	--	--	--	--	--	1.5
	Other Facility Support	--	33	*	*	*	*	0	--	4
	Onsite Transportation	--	5	--	*	0	*	--	--	3
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	1.1
	Other Nonprocess Use	--	0	0	*	*	0	0	--	5.2
	End Use Not Reported	2	128	0	*	1	*	0	1	20.6
312	**BEVERAGE AND TOBACCO PRODUCTS**									
	RSE Column Factors:	0.4	2.5	0.6	1	1.8	2.1	0.5	NF	
	TOTAL FUEL CONSUMPTION	104	7,639	W	*	45	*	1	10	5.8
	Indirect Uses-Boiler Fuel	--	35	W	*	30	*	1	--	3.3
	Conventional Boiler Use	--	W	*	*	28	*	*	--	4.8
	CHP and/or Cogeneration Process	--	Q	W	*	2	*	1	--	1
	Direct Uses-Total Process	--	5,563	*	*	8	*	*	--	2.3
	Process Heating	--	169	*	*	7	*	*	--	2.6
	Process Cooling and Refrigeration	--	2,228	*	*	*	*	*	--	3
	Machine Drive	--	3,140	*	*	*	*	*	--	4.2
	Electro-Chemical Processes	--	9	--	--	--	--	--	--	1.7
	Other Process Use	--	16	0	*	*	*	0	--	2.1
	Direct Uses-Total Nonprocess	--	1,679	W	*	5	*	*	--	3
	Facility HVAC (g)	--	873	W	*	4	*	*	--	3.2
	Facility Lighting	--	633	--	--	--	--	--	--	1.3
	Other Facility Support	--	133	0	*	*	*	*	--	3.1
	Onsite Transportation	--	30	--	*	0	*	--	--	3.6
	Conventional Electricity Generation	--	--	0	*	0	*	*	--	1.4
	Other Nonprocess Use	--	10	0	*	*	*	0	--	4.3
	End Use Not Reported	14	362	0	*	2	*	0	10	11.6
3121	**Beverages**									
	RSE Column Factors:	0.3	2.7	0.6	1.4	1.5	1.7	0.6	NF	
	TOTAL FUEL CONSUMPTION	85	6,426	*	*	41	*	*	10	8.2
	Indirect Uses-Boiler Fuel	--	46	*	*	28	*	*	--	5.4
	Conventional Boiler Use	--	46	*	*	26	*	*	--	6.5

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	CHP and/or Cogeneration Process	--	0	*	*	2	0	*	--	1.4
	Direct Uses-Total Process	--	4,812	*	*	7	*	0	--	2.8
	Process Heating	--	129	*	*	6	*	0	--	4
	Process Cooling and Refrigeration	--	2,057	*	*	*	*	0	--	3.4
	Machine Drive	--	2,610	*	*	*	*	0	--	3.8
	Electro-Chemical Processes	--	9	--	--	--	--	--	--	1.7
	Other Process Use	--	6	0	*	*	*	0	--	2.7
	Direct Uses-Total Nonprocess	--	1,239	*	*	4	*	0	--	4
	Facility HVAC (g)	--	549	*	*	4	*	0	--	5.4
	Facility Lighting	--	525	--	--	--	--	--	--	1.3
	Other Facility Support	--	127	0	*	*	*	0	--	3.4
	Onsite Transportation	--	28	--	*	0	*	--	--	3.8
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	3.5
	Other Nonprocess Use	--	10	0	*	*	*	0	--	4.6
	End Use Not Reported	14	328	*	*	2	*	0	10	12.5
3122	**Tobacco**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	19	1,213	*	*	4	*	*	*	1
	Indirect Uses-Boiler Fuel	--	Q	*	*	2	*	*	--	1
	Conventional Boiler Use	--	W	*	*	2	*	*	--	1
	CHP and/or Cogeneration Process	--	Q	0	0	0	*	*	--	1
	Direct Uses-Total Process	--	751	*	*	1	*	*	--	1
	Process Heating	--	40	*	*	1	*	*	--	1
	Process Cooling and Refrigeration	--	171	0	0	*	0	*	--	1
	Machine Drive	--	530	0	*	*	*	*	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	10	0	*	*	*	0	--	1
	Direct Uses-Total Nonprocess	--	440	*	*	*	*	*	--	1
	Facility HVAC (g)	--	324	*	*	*	*	*	--	1
	Facility Lighting	--	107	--	--	--	--	--	--	1
	Other Facility Support	--	6	0	*	*	0	*	--	1
	Onsite Transportation	--	2	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	0	*	*	--	1
	Other Nonprocess Use	--	0	0	*	0	0	0	--	1
	End Use Not Reported	*	34	0	*	*	0	0	*	1
313	**TEXTILE MILLS**									
	RSE Column Factors:	0.2	2.5	0.8	1.5	1.1	2.5	0.6	NF	
	TOTAL FUEL CONSUMPTION	205	25,271	1	*	72	*	1	15	17.7
	Indirect Uses-Boiler Fuel	--	15	W	*	36	*	1	--	18.4
	Conventional Boiler Use	--	15	W	*	W	*	1	--	19.4
	CHP and/or Cogeneration Process	--	0	0	0	W	0	*	--	5.4
	Direct Uses-Total Process	--	18,861	0	*	25	*	*	--	5.9
	Process Heating	--	2,410	0	*	23	*	*	--	6.2

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Process Cooling and Refrigeration	--	2,141	0	0	0	0	0	--	6.4
	Machine Drive	--	14,172	0	0	2	*	0	--	9.8
	Electro-Chemical Processes	--	23	--	--	--	--	--	--	1.6
	Other Process Use	--	115	0	*	*	0	0	--	2.5
	Direct Uses-Total Nonprocess	--	6,260	*	*	W	*	*	--	7
	Facility HVAC (g)	--	W	*	*	W	*	*	--	7.2
	Facility Lighting	--	W	--	--	--	--	--	--	1.4
	Other Facility Support	--	W	0	*	Q	*	0	--	7.4
	Onsite Transportation	--	Q	--	*	*	*	--	--	3.3
	Conventional Electricity Generation	--	--	0	*	1	*	*	--	1.2
	Other Nonprocess Use	--	Q	0	0	*	0	0	--	4.6
	End Use Not Reported	18	134	W	*	W	*	0	15	26.9
314	**TEXTILE PRODUCT MILLS**									
	RSE Column Factors:	0.4	3.2	0.7	0.5	2.2	2.4	0.5	NF	
	TOTAL FUEL CONSUMPTION	60	4,875	*	Q	28	*	*	Q	17
	Indirect Uses-Boiler Fuel	--	W	*	*	10	*	*	--	11.7
	Conventional Boiler Use	--	W	*	*	10	*	*	--	11.7
	CHP and/or Cogeneration Process	--	0	0	*	*	0	0	--	1.4
	Direct Uses-Total Process	--	3,280	*	*	13	*	0	--	2.8
	Process Heating	--	403	*	*	12	*	0	--	3.2
	Process Cooling and Refrigeration	--	231	0	0	*	0	0	--	3.8
	Machine Drive	--	2,626	0	0	*	0	0	--	3.1
	Electro-Chemical Processes	--	20	--	--	--	--	--	--	1.4
	Other Process Use	--	*	0	0	*	0	0	--	6.4
	Direct Uses-Total Nonprocess	--	W	*	*	4	*	*	--	4.2
	Facility HVAC (g)	--	W	*	*	W	*	*	--	3
	Facility Lighting	--	W	--	--	--	--	--	--	1.4
	Other Facility Support	--	68	*	*	W	0	0	--	3.7
	Onsite Transportation	--	19	--	*	*	*	--	--	3.7
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	1.5
	Other Nonprocess Use	--	12	0	*	*	*	0	--	2.7
	End Use Not Reported	5	W	*	0	1	*	0	Q	25.7
315	**APPAREL**									
	RSE Column Factors:	0.2	2.3	1.4	1	1.7	1.4	0.6	NF	
	TOTAL FUEL CONSUMPTION	30	3,588	*	*	16	*	0	*	23.5
	Indirect Uses-Boiler Fuel	--	Q	*	*	4	*	0	--	12.6
	Conventional Boiler Use	--	Q	*	*	4	*	0	--	12.8
	CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--	4.6
	Direct Uses-Total Process	--	1,565	*	*	5	*	0	--	9.4
	Process Heating	--	139	*	*	2	*	0	--	8.9
	Process Cooling and Refrigeration	--	125	0	*	*	0	0	--	7.8
	Machine Drive	--	1,296	0	*	W	*	0	--	6
	Electro-Chemical Processes	--	Q	--	--	--	--	--	--	1.2

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Other Process Use	--	0	0	0	W	0	0	--	4.6
	Direct Uses-Total Nonprocess	--	1,462	*	*	4	*	0	--	10.6
	Facility HVAC (g)	--	820	*	*	2	*	0	--	8.5
	Facility Lighting	--	527	--	--	--	--	--	--	1.5
	Other Facility Support	--	113	0	*	2	0	0	--	9.1
	Onsite Transportation	--	2	--	*	0	*	--	--	3
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1.4
	Other Nonprocess Use	--	0	0	*	0	0	0	--	4.6
	End Use Not Reported	W	556	0	*	3	*	0	*	46.1
316	**LEATHER AND ALLIED PRODUCTS**									
	RSE Column Factors:	0.3	1.9	0.2	1.9	2.1	2.7	0.6	NF	
	TOTAL FUEL CONSUMPTION	7	717	*	*	4	*	0	*	8.7
	Indirect Uses-Boiler Fuel	--	*	*	*	3	*	0	--	3.6
	Conventional Boiler Use	--	*	*	*	3	*	0	--	3.6
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	3.3
	Direct Uses-Total Process	--	482	*	*	*	*	0	--	7.5
	Process Heating	--	21	*	*	*	*	0	--	6.4
	Process Cooling and Refrigeration	--	191	0	0	0	0	0	--	8.8
	Machine Drive	--	270	0	*	0	*	0	--	8.7
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1.1
	Other Process Use	--	0	0	0	0	0	0	--	3.3
	Direct Uses-Total Nonprocess	--	184	*	*	1	*	0	--	6.4
	Facility HVAC (g)	--	81	*	*	1	*	0	--	7.8
	Facility Lighting	--	88	--	--	--	--	--	--	1.4
	Other Facility Support	--	14	0	0	*	*	0	--	9
	Onsite Transportation	--	*	--	*	*	*	--	--	2.5
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1.3
	Other Nonprocess Use	--	0	0	0	0	0	0	--	3.3
	End Use Not Reported	*	50	0	0	*	*	0	*	23.2
321	**WOOD PRODUCTS**									
	RSE Column Factors:	0.3	1.9	1	2	1.5	1.5	0.3	NF	
	TOTAL FUEL CONSUMPTION	375	20,985	*	2	56	1	*	229	4.8
	Indirect Uses-Boiler Fuel	--	94	*	*	15	*	*	--	5.7
	Conventional Boiler Use	--	W	*	*	15	*	*	--	5.8
	CHP and/or Cogeneration Process	--	W	0	*	*	0	*	--	1.4
	Direct Uses-Total Process	--	15,956	*	*	29	W	0	--	3.1
	Process Heating	--	1,041	*	*	27	W	0	--	3.1
	Process Cooling and Refrigeration	--	110	0	*	*	0	0	--	3.4
	Machine Drive	--	14,763	0	*	1	*	0	--	7.6
	Electro-Chemical Processes	--	4	--	--	--	--	--	--	1.7
	Other Process Use	--	38	0	*	1	*	0	--	5.1
	Direct Uses-Total Nonprocess	--	W	0	1	8	1	0	--	3.9
	Facility HVAC (g)	--	1,433	0	*	7	*	0	--	7.7

Table 5.1 End Uses of Fuel Consumption, 2002;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Facility Lighting	--	1,496	--	--	--	--	--	--	1.3
	Other Facility Support	--	W	0	*	*	*	0	--	8
	Onsite Transportation	--	10	--	1	*	*	--	--	3.4
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	2.1
	Other Nonprocess Use	--	65	0	*	1	*	0	--	1.9
	End Use Not Reported	241	W	*	*	3	W	0	229	14.9
321113	**Sawmills**									
	RSE Column Factors:	0.3	1.5	0.3	1.9	2.8	3	0.5	NF	
	TOTAL FUEL CONSUMPTION	128	5,845	*	1	10	*	0	92	5.3
	Indirect Uses-Boiler Fuel	--	69	*	*	W	0	0	--	6.9
	Conventional Boiler Use	--	69	*	*	W	0	0	--	7
	CHP and/or Cogeneration Process	--	*	0	*	*	0	0	--	1.6
	Direct Uses-Total Process	--	4,560	*	*	W	*	0	--	4.2
	Process Heating	--	293	*	*	W	*	0	--	4.7
	Process Cooling and Refrigeration	--	Q	0	*	*	0	0	--	2.4
	Machine Drive	--	4,256	0	*	*	*	0	--	7
	Electro-Chemical Processes	--	4	--	--	--	--	--	--	1.7
	Other Process Use	--	Q	0	*	0	0	0	--	3.1
	Direct Uses-Total Nonprocess	--	W	0	*	*	*	0	--	4.4
	Facility HVAC (g)	--	W	0	*	*	*	0	--	6.6
	Facility Lighting	--	W	--	--	--	--	--	--	1.2
	Other Facility Support	--	47	0	*	*	*	0	--	4.2
	Onsite Transportation	--	*	--	*	0	*	--	--	3.7
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	3.5
	Other Nonprocess Use	--	Q	0	*	0	0	0	--	1.3
	End Use Not Reported	W	W	0	*	*	*	0	92	14
3212	**Veneer, Plywood, and Engineered Woods**									
	RSE Column Factors:	0.3	1.6	2.1	2	1	1.2	0.4	NF	
	TOTAL FUEL CONSUMPTION	167	9,619	*	*	32	1	*	95	5.7
	Indirect Uses-Boiler Fuel	--	22	*	*	W	*	*	--	3.1
	Conventional Boiler Use	--	W	*	*	W	*	*	--	3.1
	CHP and/or Cogeneration Process	--	W	0	0	*	0	*	--	1.5
	Direct Uses-Total Process	--	7,818	0	*	20	W	0	--	5.2
	Process Heating	--	531	0	*	19	W	0	--	5.8
	Process Cooling and Refrigeration	--	72	0	0	0	0	0	--	5
	Machine Drive	--	7,179	0	*	Q	*	0	--	6.9
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1.1
	Other Process Use	--	36	0	*	1	*	0	--	6.3
	Direct Uses-Total Nonprocess	--	W	0	*	4	*	0	--	5.7
	Facility HVAC (g)	--	W	0	*	2	*	0	--	10.4
	Facility Lighting	--	W	--	--	--	--	--	--	1.4
	Other Facility Support	--	W	0	*	*	*	0	--	4.5
	Onsite Transportation	--	2	--	*	*	*	--	--	2.5

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	3.3
	Other Nonprocess Use	--	43	0	*	1	*	0	--	2.5
	End Use Not Reported	99	370	*	*	W	W	0	95	11.6
3219	**Other Wood Products**									
	RSE Column Factors:	0.3	1.8	0.5	2.4	1.4	2.1	0.5	NF	
	TOTAL FUEL CONSUMPTION	73	5,282	*	*	11	*	0	40	7.3
	Indirect Uses-Boiler Fuel	--	2	*	*	2	*	0	--	9.6
	Conventional Boiler Use	--	2	*	*	2	*	0	--	9.7
	CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--	1.5
	Direct Uses-Total Process	--	3,395	0	*	4	*	0	--	7.3
	Process Heating	--	183	0	*	3	*	0	--	7
	Process Cooling and Refrigeration	--	23	0	0	0	0	0	--	4.1
	Machine Drive	--	3,189	0	*	*	*	0	--	9.7
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1.1
	Other Process Use	--	0	0	*	*	0	0	--	1.5
	Direct Uses-Total Nonprocess	--	1,193	0	*	4	*	0	--	6.5
	Facility HVAC (g)	--	573	0	*	4	*	0	--	7.8
	Facility Lighting	--	474	--	--	--	--	--	--	1.3
	Other Facility Support	--	123	0	*	*	*	0	--	4.8
	Onsite Transportation	--	7	--	*	*	*	--	--	5
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	1.9
	Other Nonprocess Use	--	Q	0	*	0	0	0	--	1.2
	End Use Not Reported	45	692	*	*	1	*	0	40	18.4
322	**PAPER**									
	RSE Column Factors:	0.4	1.8	0.9	1	1.3	2.6	0.5	NF	
	TOTAL FUEL CONSUMPTION	2,361	65,503	16	2	490	2	11	1,280	2.5
	Indirect Uses-Boiler Fuel	--	894	11	2	298	*	10	--	2.4
	Conventional Boiler Use	--	149	5	*	140	*	2	--	3.9
	CHP and/or Cogeneration Process	--	745	6	1	158	0	8	--	1.7
	Direct Uses-Total Process	--	57,189	4	*	150	*	W	--	3.4
	Process Heating	--	1,503	4	*	126	*	W	--	3.8
	Process Cooling and Refrigeration	--	1,085	*	*	3	0	*	--	2
	Machine Drive	--	53,856	*	*	18	*	*	--	4.3
	Electro-Chemical Processes	--	590	--	--	--	--	--	--	1.5
	Other Process Use	--	155	*	*	2	*	W	--	2.5
	Direct Uses-Total Nonprocess	--	6,275	*	*	28	1	W	--	3.9
	Facility HVAC (g)	--	2,904	*	*	19	*	W	--	5
	Facility Lighting	--	2,860	--	--	--	--	--	--	1.2
	Other Facility Support	--	494	*	*	*	*	0	--	2.3
	Onsite Transportation	--	37	--	*	*	1	--	--	3.7
	Conventional Electricity Generation	--	--	*	*	8	*	*	--	1
	Other Nonprocess Use	--	Q	*	*	Q	*	0	--	3.4
	End Use Not Reported	1,306	1,146	1	*	14	Q	W	1,280	10.9

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
322110	**Pulp Mills**									
	RSE Column Factors:	1	1.1	1.1	0.9	0.9	1	1	NF	
	TOTAL FUEL CONSUMPTION	224	1,579	W	1	23	*	W	175	1
	Indirect Uses-Boiler Fuel	--	320	W	1	13	*	W	--	1.1
	Conventional Boiler Use	--	124	W	*	5	*	0	--	1.3
	CHP and/or Cogeneration Process	--	196	1	1	9	0	W	--	1
	Direct Uses-Total Process	--	1,188	*	*	10	*	W	--	1
	Process Heating	--	S	*	*	9	*	W	--	1
	Process Cooling and Refrigeration	--	S	*	*	0	0	0	--	1
	Machine Drive	--	1,184	*	*	*	0	*	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	28	*	*	*	0	W	--	1
	Direct Uses-Total Nonprocess	--	71	*	*	*	*	*	--	1.2
	Facility HVAC (g)	--	38	*	*	*	*	*	--	1
	Facility Lighting	--	30	--	--	--	--	--	--	1.1
	Other Facility Support	--	3	*	*	0	*	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1.1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1
	Other Nonprocess Use	--	0	*	0	0	0	0	--	1
	End Use Not Reported	175	0	0	0	0	*	0	175	1
322121	**Paper Mills, except Newsprint**									
	RSE Column Factors:	0.4	1.1	1.8	1.3	1.1	1.4	0.6	NF	
	TOTAL FUEL CONSUMPTION	1,002	22,831	8	1	201	*	6	526	2.3
	Indirect Uses-Boiler Fuel	--	231	5	*	124	*	6	--	2.4
	Conventional Boiler Use	--	S	2	*	55	*	1	--	3.1
	CHP and/or Cogeneration Process	--	287	3	*	69	0	5	--	1.3
	Direct Uses-Total Process	--	20,877	2	*	70	*	W	--	3.2
	Process Heating	--	599	2	*	56	*	W	--	3.4
	Process Cooling and Refrigeration	--	256	0	*	3	0	*	--	1.8
	Machine Drive	--	19,906	*	*	10	*	W	--	1.5
	Electro-Chemical Processes	--	80	--	--	--	--	--	--	1
	Other Process Use	--	36	*	*	*	*	0	--	4.4
	Direct Uses-Total Nonprocess	--	1,436	*	*	6	*	W	--	2.2
	Facility HVAC (g)	--	666	*	*	5	*	W	--	5
	Facility Lighting	--	702	--	--	--	--	--	--	1.1
	Other Facility Support	--	144	0	*	*	0	0	--	1.9
	Onsite Transportation	--	17	--	*	0	*	--	--	1.2
	Conventional Electricity Generation	--	--	*	*	1	*	*	--	1
	Other Nonprocess Use	--	S	0	*	*	0	0	--	3
	End Use Not Reported	W	287	*	*	1	*	W	526	12.3
322122	**Newsprint Mills**									

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	94	11,174	W	*	15	*	W	27	1
	Indirect Uses-Boiler Fuel	--	64	W	*	10	*	W	--	1
	Conventional Boiler Use	--	0	W	*	3	*	W	--	1
	CHP and/or Cogeneration Process	--	64	0	0	7	0	W	--	1
	Direct Uses-Total Process	--	10,529	0	*	W	0	W	--	1
	Process Heating	--	54	0	0	W	0	0	--	1
	Process Cooling and Refrigeration	--	113	0	0	0	0	0	--	1
	Machine Drive	--	9,933	0	*	0	0	0	--	1
	Electro-Chemical Processes	--	403	--	--	--	--	--	--	1
	Other Process Use	--	25	0	0	*	0	W	--	1
	Direct Uses-Total Nonprocess	--	W	0	*	*	*	W	--	1
	Facility HVAC (g)	--	172	0	0	*	0	W	--	1
	Facility Lighting	--	W	--	--	--	--	--	--	1
	Other Facility Support	--	33	0	0	*	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1
	End Use Not Reported	W	W	0	*	W	*	W	27	1
322130	**Paperboard Mills**									
	RSE Column Factors:	0.5	2.5	1.1	1	1	0.9	0.8	NF	
	TOTAL FUEL CONSUMPTION	907	16,369	5	1	183	*	4	542	2.6
	Indirect Uses-Boiler Fuel	--	250	3	*	125	*	3	--	2.2
	Conventional Boiler Use	--	52	1	*	52	*	W	--	3.5
	CHP and/or Cogeneration Process	--	198	2	*	73	0	W	--	1.5
	Direct Uses-Total Process	--	14,765	2	*	43	*	W	--	2.7
	Process Heating	--	147	1	*	36	*	W	--	1.6
	Process Cooling and Refrigeration	--	145	0	0	0	0	0	--	1.2
	Machine Drive	--	14,515	*	*	7	*	W	--	3.1
	Electro-Chemical Processes	--	S	--	--	--	--	--	--	1
	Other Process Use	--	53	0	*	*	*	0	--	2.2
	Direct Uses-Total Nonprocess	--	1,192	*	*	10	*	*	--	1.8
	Facility HVAC (g)	--	548	*	0	2	*	*	--	3
	Facility Lighting	--	537	--	--	--	--	--	--	1.3
	Other Facility Support	--	99	*	*	*	*	0	--	1.3
	Onsite Transportation	--	7	--	*	0	*	--	--	2.8
	Conventional Electricity Generation	--	--	0	*	8	0	*	--	1
	Other Nonprocess Use	--	1	0	*	0	0	0	--	0.9
	End Use Not Reported	W	161	*	*	5	*	W	542	4.8
323	**PRINTING AND RELATED SUPPORT**									
	RSE Column Factors:	0.3	2.5	0.5	2.2	1.6	1.7	0.5	NF	
	TOTAL FUEL CONSUMPTION	98	14,714	*	*	45	*	0	1	7.8

Table 5.1 End Uses of Fuel Consumption, 2002;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Indirect Uses-Boiler Fuel	--	10	0	*	W	*	0	--	7.5
	Conventional Boiler Use	--	10	0	*	6	*	0	--	7.8
	CHP and/or Cogeneration Process	--	0	0	0	W	0	0	--	1.5
	Direct Uses-Total Process	--	8,267	*	*	20	*	0	--	4.8
	Process Heating	--	365	*	0	18	*	0	--	6.7
	Process Cooling and Refrigeration	--	649	0	0	*	0	0	--	4.6
	Machine Drive	--	7,200	0	*	1	*	0	--	5.2
	Electro-Chemical Processes	--	26	--	--	--	--	--	--	1.6
	Other Process Use	--	27	0	*	*	*	0	--	8.1
	Direct Uses-Total Nonprocess	--	4,719	*	*	16	*	0	--	7.7
	Facility HVAC (g)	--	2,653	*	*	15	*	0	--	5.3
	Facility Lighting	--	1,659	--	--	--	--	--	--	1.3
	Other Facility Support	--	373	0	*	1	*	0	--	4.4
	Onsite Transportation	--	29	--	*	*	*	--	--	4.3
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	0.9
	Other Nonprocess Use	--	Q	0		*	0	0	--	7.2
	End Use Not Reported	W	1,717	0	*	W	*	0	1	18.6
324	**PETROLEUM AND COAL PRODUCTS**									
	RSE Column Factors:	0.3	1.3	1.1	1.9	1.2	1.4	0.7	NF	
	TOTAL FUEL CONSUMPTION	3,202	37,186	4	3	854	6	1	2,119	4.7
	Indirect Uses-Boiler Fuel	--	216	2	1	281	1	*	--	4.5
	Conventional Boiler Use	--	199	1	*	150	1	*	--	6.1
	CHP and/or Cogeneration Process	--	17	1	*	131	*	*	--	1.5
	Direct Uses-Total Process	--	34,995	1	1	530	5	*	--	6.1
	Process Heating	--	3,025	1	1	512	5	*	--	6.3
	Process Cooling and Refrigeration	--	1,565	0	*	2	*	0	--	1.2
	Machine Drive	--	30,318	0	*	12	*	0	--	5.4
	Electro-Chemical Processes	--	32	--	--	--	--	--	--	1.2
	Other Process Use	--	55	0	*	4	*	0	--	4
	Direct Uses-Total Nonprocess	--	2,414	0	*	37	*	*	--	3.1
	Facility HVAC (g)	--	1,272	0	*	7	*	*	--	5.8
	Facility Lighting	--	993	--	--	--	--	--	--	1.2
	Other Facility Support	--	143	0	*	2	*	0	--	4
	Onsite Transportation	--	2	--	*	*	*	--	--	5.7
	Conventional Electricity Generation	--	--	0	*	28	*	*	--	1.3
	Other Nonprocess Use	--	3	0	*	*	*	0	--	3.6
	End Use Not Reported	2,134	S	1	*	6	*	0	2,119	7.1
324110	**Petroleum Refineries**									
	RSE Column Factors:	0.4	1.1	1.3	0.6	0.9	0.8	4.1	NF	
	TOTAL FUEL CONSUMPTION	3,086	35,478	3	1	799	5	*	2,097	3.8
	Indirect Uses-Boiler Fuel	--	240	2	*	270	1	*	--	3.6
	Conventional Boiler Use	--	185	1	*	139	1	*	--	4.4
	CHP and/or Cogeneration Process	--	55	1	*	131	*	*	--	2.2

Table 5.1 End Uses of Fuel Consumption, 2002;
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NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Direct Uses-Total Process	--	33,165	1	*	493	4	*	--	4.4
	Process Heating	--	2,769	1	*	477	4	*	--	4.6
	Process Cooling and Refrigeration	--	1,505	0	*	2	*	0	--	1.8
	Machine Drive	--	28,816	0	*	11	*	0	--	7.4
	Electro-Chemical Processes	--	31	--	--	--	--	--	--	1
	Other Process Use	--	45	0	0	3	*	0	--	2.2
	Direct Uses-Total Nonprocess	--	2,012	0	*	34	*	0	--	2
	Facility HVAC (g)	--	1,047	0	0	5	*	0	--	2.5
	Facility Lighting	--	852	--	--	--	--	--	--	1.2
	Other Facility Support	--	112	0	*	1	*	0	--	5.3
	Onsite Transportation	--	Q	--	*	*	*	--	--	1.8
	Conventional Electricity Generation	--	--	0	*	28	*	0	--	1.9
	Other Nonprocess Use	--	0	0	*	*	0	0	--	1.7
	End Use Not Reported	2,106	60	1	*	2	0	0	2,097	3.9
324199	**Other Petroleum and Coal Products**									
	RSE Column Factors:	0.9	1.1	0.8	2	0.9	0.8	0.8	NF	
	TOTAL FUEL CONSUMPTION	34	S	*	*	4	*	1	19	1.6
	Indirect Uses-Boiler Fuel	--	S	*	0	1	0	W	--	1.1
	Conventional Boiler Use	--	3	*	0	1	0	W	--	1.1
	CHP and/or Cogeneration Process	--	S	0	0	*	0	W	--	1.1
	Direct Uses-Total Process	--	155	*	*	4	*	W	--	1.2
	Process Heating	--	80	*	*	3	*	W	--	1
	Process Cooling and Refrigeration	--	26	0	*	0	0	0	--	0.8
	Machine Drive	--	48	0	*	*	*	0	--	1.4
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	0	0	0	*	0	0	--	1.1
	Direct Uses-Total Nonprocess	--	9	0	*	*	*	*	--	1.7
	Facility HVAC (g)	--	9	0	0	*	*	*	--	1.1
	Facility Lighting	--	*	--	--	--	--	--	--	1
	Other Facility Support	--	1	0	0	*	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1.9
	Conventional Electricity Generation	--	--	0	*	*	0	*	--	0.9
	Other Nonprocess Use	--	0	0	*	0	0	0	--	0.7
	End Use Not Reported	19	S	0	*	0	0	0	19	0.8
325	**CHEMICALS**									
	RSE Column Factors:	0.3	1.1	0.6	3	0.8	1.2	2	NF	
	TOTAL FUEL CONSUMPTION	3,767	153,104	6	2	1,634	9	14	1,159	6.3
	Indirect Uses-Boiler Fuel	--	793	3	W	903	W	14	--	6.2
	Conventional Boiler Use	--	731	W	W	439	W	4	--	4.7
	CHP and/or Cogeneration Process	--	62	W	*	464	*	10	--	3.5
	Direct Uses-Total Process	--	129,882	3	*	663	W	*	--	5.6
	Process Heating	--	5,755	3	*	573	W	*	--	6
	Process Cooling and Refrigeration	--	14,284	0	*	25	*	0	--	3.1

Table 5.1 End Uses of Fuel Consumption, 2002;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Machine Drive	--	87,990	*	*	42	W	0	--	4.7
	Electro-Chemical Processes	--	21,621	--	--	--	--	--	--	1
	Other Process Use	--	231	*	*	27	*	*	--	7.4
	Direct Uses-Total Nonprocess	--	19,061	W	W	46	W	*	--	7.8
	Facility HVAC (g)	--	9,856	W	*	32	W	*	--	7.8
	Facility Lighting	--	7,149	--	--	--	--	--	--	1.2
	Other Facility Support	--	1,702	*	*	3	*	*	--	5.5
	Onsite Transportation	--	214	--	W	1	W	--	--	3.8
	Conventional Electricity Generation	--	--	0	*	7	*	0	--	2
	Other Nonprocess Use	--	140	*	*	3	*	0	--	4.6
	End Use Not Reported	W	3,368	W	W	19	W	*	1,159	12.7
325110	**Petrochemicals**									
	RSE Column Factors:	0.9	0.9	1	1.3	0.9	0.9	1	NF	
	TOTAL FUEL CONSUMPTION	474	W	W	*	167	W	W	233	1.1
	Indirect Uses-Boiler Fuel	--	170	W	*	53	W	W	--	1
	Conventional Boiler Use	--	170	W	*	35	W	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	19	*	W	--	1.1
	Direct Uses-Total Process	--	3,674	0	*	107	W	0	--	1
	Process Heating	--	209	0	0	W	W	0	--	1.1
	Process Cooling and Refrigeration	--	656	0	0	1	0	0	--	1.1
	Machine Drive	--	2,461	0	*	W	*	0	--	1
	Electro-Chemical Processes	--	342	--	--	--	--	--	--	1
	Other Process Use	--	6	0	0	*	0	0	--	1.1
	Direct Uses-Total Nonprocess	--	W	0	*	5	W	0	--	1.9
	Facility HVAC (g)	--	225	0	*	W	W	0	--	1.1
	Facility Lighting	--	365	--	--	--	--	--	--	1
	Other Facility Support	--	W	0	0	1	0	0	--	1.1
	Onsite Transportation	--	52	--	*	1	0	--	--	1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1.1
	Other Nonprocess Use	--	0	0	*	W	0	0	--	0.9
	End Use Not Reported	237	535	0	*	2	0	0	233	1
325120	**Industrial Gases**									
	RSE Column Factors:	0.7	4.9	0.7	0.5	2	0.8	0.7	NF	
	TOTAL FUEL CONSUMPTION	177	W	0	*	51	*	0	W	5.8
	Indirect Uses-Boiler Fuel	--	0	0	*	44	*	0	--	1.8
	Conventional Boiler Use	--	0	0	*	W	*	0	--	2.6
	CHP and/or Cogeneration Process	--	0	0	0	W	0	0	--	0.9
	Direct Uses-Total Process	--	20,947	0	*	W	*	0	--	1.6
	Process Heating	--	185	0	*	7	*	0	--	1.6
	Process Cooling and Refrigeration	--	2,322	0	*	*	*	0	--	1.8
	Machine Drive	--	18,413	0	*	W	*	0	--	2.2
	Electro-Chemical Processes	--	27	--	--	--	--	--	--	1.7
	Other Process Use	--	0	0	0	*	0	0	--	0.9

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
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Column: Energy Sources, including Net Electricity;
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NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Direct Uses-Total Nonprocess	--	W	0	*	*	*	0	--	4.2
	Facility HVAC (g)	--	447	0	*	*	*	0	--	2.4
	Facility Lighting	--	409	--	--	--	--	--	--	1.3
	Other Facility Support	--	W	0	*	*	*	0	--	2.8
	Onsite Transportation	--	0	--	*	0	*	--	--	1.6
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	0.8
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1.5
	End Use Not Reported	W	434	0	*	*	0	0	W	4.1
325181	**Alkalies and Chlorine**									
	RSE Column Factors:	1	1	1	0.9	1	0.9	1.3	NF	
	TOTAL FUEL CONSUMPTION	173	12,354	*	*	92	*	1	16	1.6
	Indirect Uses-Boiler Fuel	--	5	*	*	76	0	1	--	1
	Conventional Boiler Use	--	5	*	*	W	0	W	--	1
	CHP and/or Cogeneration Process	--	0	0	0	W	0	W	--	0.9
	Direct Uses-Total Process	--	11,955	*	*	W	*	*	--	1.2
	Process Heating	--	22	*	*	W	0	*	--	1.2
	Process Cooling and Refrigeration	--	371	0	0	0	0	0	--	1
	Machine Drive	--	2,061	0	*	0	*	0	--	1.3
	Electro-Chemical Processes	--	9,501	--	--	--	--	--	--	1
	Other Process Use	--	0	0	0	1	0	0	--	1
	Direct Uses-Total Nonprocess	--	394	0	*	W	*	0	--	1
	Facility HVAC (g)	--	205	0	0	W	*	0	--	1
	Facility Lighting	--	158	--	--	--	--	--	--	1.1
	Other Facility Support	--	30	0	0	0	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1
	Other Nonprocess Use	--	0	0	*	*	0	0	--	1
	End Use Not Reported	W	1	0	0	W	0	0	16	1
325182	**Carbon Black**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	39	605	2	*	9	*	0	16	1
	Indirect Uses-Boiler Fuel	--	*	0	0	2	0	0	--	1
	Conventional Boiler Use	--	*	0	0	2	0	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--	1
	Direct Uses-Total Process	--	508	W	*	7	*	0	--	1
	Process Heating	--	7	W	0	7	0	0	--	1
	Process Cooling and Refrigeration	--	13	0	0	*	0	0	--	1
	Machine Drive	--	489	0	*	*	*	0	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	0	0	*	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	96	0	*	*	*	0	--	1
	Facility HVAC (g)	--	32	0	0	*	0	0	--	1
	Facility Lighting	--	29	--	--	--	--	--	--	1

Table 5.1 End Uses of Fuel Consumption, 2002;
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NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Other Facility Support	--	35	0	0	*	*	0	--	1
	Onsite Transportation	--	1	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1
	End Use Not Reported	W	0	W	0	0	*	0	16	1
325188	**Other Basic Inorganic Chemicals**									
	RSE Column Factors:	0.5	1.5	0.7	0.6	3	2.6	0.5	NF	
	TOTAL FUEL CONSUMPTION	210	25,904	*	*	67	*	1	30	3.2
	Indirect Uses-Boiler Fuel	--	24	*	*	19	*	W	--	2.5
	Conventional Boiler Use	--	29	*	*	17	*	W	--	2.7
	CHP and/or Cogeneration Process	--	S	0	*	2	0	W	--	2.7
	Direct Uses-Total Process	--	23,351	*	*	39	*	*	--	1.7
	Process Heating	--	577	*	*	38	*	*	--	2
	Process Cooling and Refrigeration	--	454	0	0	*	*	0	--	5.7
	Machine Drive	--	18,095	0	*	Q	*	0	--	2.8
	Electro-Chemical Processes	--	4,210	--	--	--	--	--	--	1
	Other Process Use	--	15	0	*	1	*	*	--	1.8
	Direct Uses-Total Nonprocess	--	1,967	*	*	3	*	W	--	2.4
	Facility HVAC (g)	--	1,092	0	*	2	*	W	--	3.2
	Facility Lighting	--	707	--	--	--	--	--	--	1.2
	Other Facility Support	--	118	0	0	*	*	0	--	2.2
	Onsite Transportation	--	*	--	*	0	*	--	--	1.8
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	1.2
	Other Nonprocess Use	--	50	*	0	*	*	0	--	4
	End Use Not Reported	W	561	*	*	6	*	*	30	4.5
325192	**Cyclic Crudes and Intermediates**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	72	3,443	*	*	36	*	0	23	1
	Indirect Uses-Boiler Fuel	--	2	*	*	25	0	0	--	1
	Conventional Boiler Use	--	2	*	*	W	0	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	W	0	0	--	1
	Direct Uses-Total Process	--	2,849	*	*	W	*	0	--	1
	Process Heating	--	227	*	0	W	*	0	--	1
	Process Cooling and Refrigeration	--	487	0	0	0	*	0	--	1
	Machine Drive	--	1,796	0	*	0	0	0	--	1
	Electro-Chemical Processes	--	337	--	--	--	--	--	--	1
	Other Process Use	--	2	0	*	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	592	0	*	W	*	0	--	1
	Facility HVAC (g)	--	363	0	0	W	0	0	--	1
	Facility Lighting	--	132	--	--	--	--	--	--	1
	Other Facility Support	--	97	0	0	*	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1

Table 5.1 End Uses of Fuel Consumption, 2002;
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NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1
	End Use Not Reported	23	0	0	*	*	*	0	23	1
325193	**Ethyl Alcohol**									
	RSE Column Factors:	1	1.7	0.9	0.6	1	0.6	1.7	NF	
	TOTAL FUEL CONSUMPTION	60	W	0	*	29	*	1	W	4.2
	Indirect Uses-Boiler Fuel	--	73	0	*	18	*	1	--	1.6
	Conventional Boiler Use	--	73	0	*	17	*	1	--	1.7
	CHP and/or Cogeneration Process	--	0	0	*	1	0	*	--	1
	Direct Uses-Total Process	--	1,141	0	*	10	*	*	--	2.1
	Process Heating	--	6	0	0	9	*	*	--	1.4
	Process Cooling and Refrigeration	--	75	0	0	0	*	0	--	1
	Machine Drive	--	1,060	0	*	0	0	0	--	2.4
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1.1
	Other Process Use	--	0	0	0	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	W	0	*	1	*	0	--	1.3
	Facility HVAC (g)	--	30	0	0	1	*	0	--	1
	Facility Lighting	--	29	--	--	--	--	--	--	1.3
	Other Facility Support	--	W	0	0	0	0	0	--	0.8
	Onsite Transportation	--	0	--	*	0	*	--	--	1.1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	0.8
	Other Nonprocess Use	--	0	0	0	*	0	0	--	1
	End Use Not Reported	W	0	0	0	1	*	0	W	3.8
325199	**Other Basic Organic Chemicals**									
	RSE Column Factors:	0.4	2.3	0.6	1.9	1	1.4	0.7	NF	
	TOTAL FUEL CONSUMPTION	1,184	22,917	W	*	414	W	W	514	14.3
	Indirect Uses-Boiler Fuel	--	87	1	*	228	W	W	--	8.5
	Conventional Boiler Use	--	W	1	*	120	W	W	--	8.2
	CHP and/or Cogeneration Process	--	S	0	*	108	0	W	--	1.9
	Direct Uses-Total Process	--	20,030	W	*	175	W	0	--	6
	Process Heating	--	1,411	W	*	130	W	0	--	6.6
	Process Cooling and Refrigeration	--	2,817	0	*	20	*	0	--	1.9
	Machine Drive	--	12,216	0	*	6	*	0	--	4.5
	Electro-Chemical Processes	--	3,558	--	--	--	--	--	--	1.2
	Other Process Use	--	27	0	*	17	*	0	--	5.4
	Direct Uses-Total Nonprocess	--	2,709	W	*	10	W	0	--	6.9
	Facility HVAC (g)	--	1,243	W	*	6	*	0	--	4.7
	Facility Lighting	--	1,084	--	--	--	--	--	--	1.5
	Other Facility Support	--	274	0	*	1	*	0	--	2.1
	Onsite Transportation	--	106	--	*	*	W	--	--	2.9
	Conventional Electricity Generation	--	--	0	*	3	0	0	--	1
	Other Nonprocess Use	--	1	0	*	*	*	0	--	1
	End Use Not Reported	W	92	0	*	1	W	0	514	4.2

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325211	**Plastics Materials and Resins**									
	RSE Column Factors:	0.3	1.6	0.5	1	1.1	2.4	1.3	NF	
	TOTAL FUEL CONSUMPTION	665	21,495	*	*	339	*	1	214	9.8
	Indirect Uses-Boiler Fuel	--	163	*	*	236	*	1	--	3.3
	Conventional Boiler Use	--	163	*	*	47	*	1	--	2.1
	CHP and/or Cogeneration Process	--	0	0	0	189	0	Q	--	1.6
	Direct Uses-Total Process	--	19,079	*	*	94	*	0	--	3.3
	Process Heating	--	1,131	*	*	89	*	0	--	4.2
	Process Cooling and Refrigeration	--	2,365	0	*	1	*	0	--	1.4
	Machine Drive	--	12,619	0	*	2	*	0	--	4.6
	Electro-Chemical Processes	--	2,927	--	--	--	--	--	--	1.2
	Other Process Use	--	36	0	*	2	*	0	--	11.2
	Direct Uses-Total Nonprocess	--	2,011	*	*	5	*	0	--	4.9
	Facility HVAC (g)	--	987	*	*	W	*	0	--	5.8
	Facility Lighting	--	857	--	--	--	--	--	--	1.2
	Other Facility Support	--	155	0	*	*	*	0	--	2.3
	Onsite Transportation	--	Q	--	*	*	*	--	--	4
	Conventional Electricity Generation	--	--	0	*	1	0	0	--	1.6
	Other Nonprocess Use	--	6	0	*	W	*	0	--	4.5
	End Use Not Reported	W	W	*	*	3	*	*	214	10.1
325212	**Synthetic Rubber**									
	RSE Column Factors:	0.4	2.6	3.7	0.9	1	1.2	0.3	NF	
	TOTAL FUEL CONSUMPTION	52	1,878	*	*	27	*	*	12	10.4
	Indirect Uses-Boiler Fuel	--	3	*	*	23	0	*	--	7.6
	Conventional Boiler Use	--	3	*	*	W	0	*	--	8.5
	CHP and/or Cogeneration Process	--	0	0	0	W	0	*	--	2.2
	Direct Uses-Total Process	--	1,557	*	*	W	*	*	--	3.7
	Process Heating	--	Q	*	*	2	*	*	--	3.5
	Process Cooling and Refrigeration	--	216	0	0	W	0	0	--	2.6
	Machine Drive	--	1,206	0	*	W	*	0	--	3.2
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1.2
	Other Process Use	--	0	*	0	*	0	0	--	5.1
	Direct Uses-Total Nonprocess	--	315	*	*	W	*	*	--	4.1
	Facility HVAC (g)	--	180	*	0	W	0	*	--	5.7
	Facility Lighting	--	107	--	--	--	--	--	--	1.5
	Other Facility Support	--	27	0	0	*	*	0	--	4.8
	Onsite Transportation	--	1	--	*	0	*	--	--	1.3
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1
	Other Nonprocess Use	--	Q	0	0	*	0	0	--	1.7
	End Use Not Reported	W	2	0	*	W	*	0	12	2.4
325222	**Noncellulosic Organic Fibers**									
	RSE Column Factors:	0.8	0.8	1.6	0.8	0.8	1.5	0.9	NF	

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	TOTAL FUEL CONSUMPTION	61	W	W	*	29	*	W	3	1.9
	Indirect Uses-Boiler Fuel	--	72	W	*	21	*	W	--	1.2
	Conventional Boiler Use	--	W	W	*	W	*	W	--	1.2
	CHP and/or Cogeneration Process	--	W	W	*	W	0	W	--	1.1
	Direct Uses-Total Process	--	3,589	W	*	8	*	0	--	1.5
	Process Heating	--	643	W	*	8	*	0	--	1.6
	Process Cooling and Refrigeration	--	733	0	0	*	0	0	--	1.2
	Machine Drive	--	2,181	*	*	0	*	0	--	0.9
	Electro-Chemical Processes	--	4	--	--	--	--	--	--	1
	Other Process Use	--	27	0	0	*	0	0	--	1.2
	Direct Uses-Total Nonprocess	--	W	W	*	*	*	0	--	1.7
	Facility HVAC (g)	--	278	W	*	*	*	0	--	1.1
	Facility Lighting	--	276	--	--	--	--	--	--	1
	Other Facility Support	--	W	*	*	*	0	0	--	1.1
	Onsite Transportation	--	0	--	*	0	*	--	--	0.9
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	1.2
	Other Nonprocess Use	--	12	0	*	0	0	0	--	1.2
	End Use Not Reported	3	2	0	*	*	*	0	3	1.1
325311	**Nitrogenous Fertilizers**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	205	3,496	0	*	184	*	0	4	1
	Indirect Uses-Boiler Fuel	--	W	0	*	52	*	0	--	1
	Conventional Boiler Use	--	W	0	*	45	*	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	7	0	0	--	1
	Direct Uses-Total Process	--	3,038	0	*	129	*	0	--	1
	Process Heating	--	82	0	0	121	*	0	--	1
	Process Cooling and Refrigeration	--	320	0	0	0	0	0	--	1
	Machine Drive	--	2,635	0	*	8	*	0	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	1	0	0	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	193	0	*	3	*	0	--	1
	Facility HVAC (g)	--	71	0	0	1	*	0	--	1
	Facility Lighting	--	87	--	--	--	--	--	--	1
	Other Facility Support	--	34	0	0	0	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	0	2	0	0	--	1
	Other Nonprocess Use	--	0	0	*	0	0	0	--	1
	End Use Not Reported	4	263	0	*	0	*	0	4	1
325312	**Phosphatic Fertilizers**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	27	1,025	*	*	18	*	*	2	1
	Indirect Uses-Boiler Fuel	--	W	*	*	4	0	0	--	1

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	Conventional Boiler Use	--	W	*	*	*	0	0	--	1
	CHP and/or Cogeneration Process	--	0	*	*	*	0	0	--	1
	Direct Uses-Total Process	--	932	*	*	14	*	*	--	1
	Process Heating	--	10	*	*	14	*	*	--	1
	Process Cooling and Refrigeration	--	8	0	0	0	0	0	--	1
	Machine Drive	--	914	0	*	0	0	0	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	0	0	0	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	83	0	*	*	*	0	--	1
	Facility HVAC (g)	--	22	0	0	*	0	0	--	1
	Facility Lighting	--	20	--	--	--	--	--	--	1
	Other Facility Support	--	24	0	0	0	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1
	Other Nonprocess Use	--	18	0	*	0	0	0	--	1
	End Use Not Reported	2	6	0	0	0	*	0	2	1
3254	**Pharmaceuticals and Medicines**									
	RSE Column Factors:	0.4	2.1	0.6	2.9	1.8	1.2	0.3	NF	
	TOTAL FUEL CONSUMPTION	121	10,715	*	*	60	*	*	9	4.3
	Indirect Uses-Boiler Fuel	--	17	*	*	44	*	*	--	4.5
	Conventional Boiler Use	--	17	*	*	27	*	*	--	5.6
	CHP and/or Cogeneration Process	--	0	*	*	17	0	0	--	1
	Direct Uses-Total Process	--	5,485	0	*	9	*	0	--	5.7
	Process Heating	--	350	0	*	8	*	0	--	3
	Process Cooling and Refrigeration	--	1,904	0	*	*	0	0	--	3.1
	Machine Drive	--	3,109	0	*	*	*	0	--	7.4
	Electro-Chemical Processes	--	18	--	--	--	--	--	--	1.5
	Other Process Use	--	Q	0	*	*	0	0	--	5.2
	Direct Uses-Total Nonprocess	--	W	0	*	6	*	0	--	4
	Facility HVAC (g)	--	2,908	0	*	5	*	0	--	3.8
	Facility Lighting	--	W	--	--	--	--	--	--	1.2
	Other Facility Support	--	413	0	*	*	*	0	--	3.6
	Onsite Transportation	--	27	--	*	0	*	--	--	3.5
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	1
	Other Nonprocess Use	--	30	0	*	1	0	0	--	4.2
	End Use Not Reported	W	W	*	*	1	*	0	9	9.4
325412	**Pharmaceutical Preparation**									
	RSE Column Factors:	0.4	1.9	0.7	1.6	2	1.4	0.4	NF	
	TOTAL FUEL CONSUMPTION	84	8,312	*	*	39	*	*	4	5
	Indirect Uses-Boiler Fuel	--	8	*	*	27	0	*	--	3
	Conventional Boiler Use	--	8	*	*	18	0	*	--	3.6
	CHP and/or Cogeneration Process	--	0	*	*	9	0	0	--	1
	Direct Uses-Total Process	--	4,392	0	*	7	*	0	--	6.4

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Process Heating	--	305	0	*	6	*	0	--	3
	Process Cooling and Refrigeration	--	1,463	0	0	*	0	0	--	1.8
	Machine Drive	--	2,522	0	*	*	*	0	--	5.2
	Electro-Chemical Processes	--	Q	--	--	--	--	--	--	1.1
	Other Process Use	--	Q	0	*	*	0	0	--	6.1
	Direct Uses-Total Nonprocess	--	W	0	*	5	*	0	--	6.8
	Facility HVAC (g)	--	W	0	*	4	*	0	--	5.7
	Facility Lighting	--	1,157	--	--	--	--	--	--	1.2
	Other Facility Support	--	324	0	*	*	*	0	--	2.8
	Onsite Transportation	--	25	--	*	0	*	--	--	3.5
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	0.8
	Other Nonprocess Use	--	27	0	*	1	0	0	--	3.9
	End Use Not Reported	W	W	0	*	1	*	0	4	14.4
325992	**Photographic Film, Paper, Plate, and Chemicals**									
	RSE Column Factors:	0.5	2.7	0.4	1.3	2	1.5	0.5	NF	
	TOTAL FUEL CONSUMPTION	29	W	*	*	7	*	W	*	6.6
	Indirect Uses-Boiler Fuel	--	65	*	*	4	0	W	--	3
	Conventional Boiler Use	--	W	*	*	2	0	0	--	4.7
	CHP and/or Cogeneration Process	--	W	*	*	3	0	W	--	1.1
	Direct Uses-Total Process	--	1,066	0	*	2	*	0	--	2.4
	Process Heating	--	91	0	*	1	*	0	--	2
	Process Cooling and Refrigeration	--	253	0	0	0	0	0	--	2.6
	Machine Drive	--	689	0	*	*	0	0	--	3.2
	Electro-Chemical Processes	--	32	--	--	--	--	--	--	1
	Other Process Use	--	0	0	*	*	0	0	--	0.9
	Direct Uses-Total Nonprocess	--	W	0	*	1	*	0	--	7.6
	Facility HVAC (g)	--	180	0	*	1	*	0	--	2.9
	Facility Lighting	--	149	--	--	--	--	--	--	1.4
	Other Facility Support	--	W	0	*	*	0	0	--	2.8
	Onsite Transportation	--	4	--	*	0	*	--	--	3.4
	Conventional Electricity Generation	--	--	0	0	0	*	0	--	0.8
	Other Nonprocess Use	--	*	0	*	*	0	0	--	0.7
	End Use Not Reported	*	Q	0	0	*	*	0	*	8
326	**PLASTICS AND RUBBER PRODUCTS**									
	RSE Column Factors:	0.2	1.2	1.5	2.4	1.6	2	0.4	NF	
	TOTAL FUEL CONSUMPTION	348	53,181	1	*	125	1	Q	5	7.9
	Indirect Uses-Boiler Fuel	--	W	1	*	48	W	W	--	7.8
	Conventional Boiler Use	--	W	1	*	46	W	W	--	9.4
	CHP and/or Cogeneration Process	--	W	0	0	2	0	W	--	6.1
	Direct Uses-Total Process	--	39,133	*	*	38	W	0	--	9.2
	Process Heating	--	7,683	*	*	36	W	0	--	7.3
	Process Cooling and Refrigeration	--	4,100	0	0	1	0	0	--	8.5
	Machine Drive	--	26,700	*	*	1	*	0	--	5.5

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Electro-Chemical Processes	--	208	--	--	--	--	--	--	1.7
	Other Process Use	--	441	0	*	1	*	0	--	15.1
	Direct Uses-Total Nonprocess	--	10,407	*	*	27	W	0	--	7.4
	Facility HVAC (g)	--	4,919	*	*	24	W	0	--	9.8
	Facility Lighting	--	4,036	--	--	--	--	--	--	1.3
	Other Facility Support	--	1,188	0	*	1	*	0	--	9.8
	Onsite Transportation	--	124	--	*	*	*	--	--	3.9
	Conventional Electricity Generation	--	--	0	*	Q	*	0	--	3
	Other Nonprocess Use	--	Q	0	*	1	*	0	--	13.1
	End Use Not Reported	W	W	0	*	12	W	0	5	22.8
327	**NONMETALLIC MINERAL PRODUCTS**									
	RSE Column Factors:	0.4	1.6	0.3	4.4	1.4	2.6	0.3	NF	
	TOTAL FUEL CONSUMPTION	1,052	41,588	*	5	410	1	14	144	4.5
	Indirect Uses-Boiler Fuel	--	61	*	W	12	*	W	--	5.5
	Conventional Boiler Use	--	24	*	W	10	*	W	--	6.6
	CHP and/or Cogeneration Process	--	36	*	*	3	0	*	--	1.9
	Direct Uses-Total Process	--	35,046	*	2	355	*	W	--	3.7
	Process Heating	--	8,480	*	1	348	*	W	--	3.3
	Process Cooling and Refrigeration	--	1,457	0	*	*	0	0	--	3.1
	Machine Drive	--	24,472	0	1	2	*	0	--	6.3
	Electro-Chemical Processes	--	Q	--	--	--	--	--	--	1.1
	Other Process Use	--	255	0	*	Q	*	0	--	1.5
	Direct Uses-Total Nonprocess	--	5,172	*	3	21	*	*	--	4.5
	Facility HVAC (g)	--	2,602	*	*	20	*	*	--	6.1
	Facility Lighting	--	2,009	--	--	--	--	--	--	1.3
	Other Facility Support	--	504	0	*	1	*	0	--	7.5
	Onsite Transportation	--	50	--	2	*	*	--	--	3.4
	Conventional Electricity Generation	--	--	0	Q	0	*	0	--	0.9
	Other Nonprocess Use	--	Q	0	Q	*	*	0	--	1.4
	End Use Not Reported	174	1,310	*	W	22	*	*	144	8.6
3272	**Glass and Glass Products**									
	RSE Column Factors:	0.6	2.5	0.6	0.8	1.4	1.4	0.7	NF	
	TOTAL FUEL CONSUMPTION	200	12,233	W	W	148	*	0	4	3
	Indirect Uses-Boiler Fuel	--	6	*	W	2	*	0	--	1.7
	Conventional Boiler Use	--	6	*	W	2	*	0	--	1.6
	CHP and/or Cogeneration Process	--	0	0	*	*	0	0	--	1.7
	Direct Uses-Total Process	--	10,156	W	*	137	*	0	--	1.3
	Process Heating	--	4,679	W	*	135	*	0	--	1.4
	Process Cooling and Refrigeration	--	596	0	*	*	0	0	--	1.4
	Machine Drive	--	4,763	0	*	1	*	0	--	3.8
	Electro-Chemical Processes	--	22	--	--	--	--	--	--	1.7
	Other Process Use	--	97	0	*	1	*	0	--	0.8
	Direct Uses-Total Nonprocess	--	1,811	W	*	7	*	0	--	1.9

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Facility HVAC (g)	--	977	W	*	7	*	0	--	1.8
	Facility Lighting	--	674	--	--	--	--	--	--	1.2
	Other Facility Support	--	120	0	*	*	*	0	--	2
	Onsite Transportation	--	39	--	*	*	*	--	--	1.4
	Conventional Electricity Generation	--	--	0	*	0	*	0	--	0.9
	Other Nonprocess Use	--	1	0	*	0	0	0	--	5.5
	End Use Not Reported	7	260	0	*	2	*	0	4	29.8
327211	**Flat Glass**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	62	1,842	W	W	51	*	0	2	1
	Indirect Uses-Boiler Fuel	--	0	0	W	*	0	0	--	1
	Conventional Boiler Use	--	0	0	W	*	0	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Process	--	W	W	*	49	*	0	--	1
	Process Heating	--	W	W	*	49	*	0	--	1
	Process Cooling and Refrigeration	--	114	0	0	*	0	0	--	1
	Machine Drive	--	816	0	*	*	*	0	--	1
	Electro-Chemical Processes	--	5	--	--	--	--	--	--	1
	Other Process Use	--	37	0	*	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	W	*	*	1	*	0	--	1
	Facility HVAC (g)	--	W	*	0	1	0	0	--	1
	Facility Lighting	--	117	--	--	--	--	--	--	1
	Other Facility Support	--	21	0	*	*	*	0	--	1
	Onsite Transportation	--	6	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1
	End Use Not Reported	2	0	0	0	0	*	0	2	1
327213	**Glass Containers**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	66	3,932	0	*	51	*	0	*	1
	Indirect Uses-Boiler Fuel	--	2	0	0	*	0	0	--	1
	Conventional Boiler Use	--	2	0	0	*	0	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Process	--	3,455	0	*	48	*	0	--	1
	Process Heating	--	1,218	0	0	48	*	0	--	1
	Process Cooling and Refrigeration	--	69	0	0	0	0	0	--	1
	Machine Drive	--	2,152	0	*	0	0	0	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	15	0	*	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	474	0	*	2	*	0	--	1
	Facility HVAC (g)	--	284	0	*	2	0	0	--	1
	Facility Lighting	--	167	--	--	--	--	--	--	1
	Other Facility Support	--	18	0	*	*	0	0	--	1

Table 5.1 End Uses of Fuel Consumption, 2002;
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NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Onsite Transportation	--	5	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1
	End Use Not Reported	*	0	0	0	0	0	0	*	1
327310	**Cements**									
	RSE Column Factors:	0.9	1	0.7	1.3	1.5	1.1	0.8	NF	
	TOTAL FUEL CONSUMPTION	410	12,621	*	1	21	*	11	103	2.1
	Indirect Uses-Boiler Fuel	--	36	0	W	W	*	W	--	1.1
	Conventional Boiler Use	--	0	0	W	*	*	W	--	1.1
	CHP and/or Cogeneration Process	--	36	0	0	W	0	0	--	0.9
	Direct Uses-Total Process	--	11,564	*	W	W	*	W	--	1.5
	Process Heating	--	989	*	W	W	*	W	--	1.5
	Process Cooling and Refrigeration	--	341	0	0	0	0	0	--	1.1
	Machine Drive	--	10,151	0	*	*	*	0	--	1
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	84	0	0	*	*	0	--	0.9
	Direct Uses-Total Nonprocess	--	790	0	W	1	*	*	--	2
	Facility HVAC (g)	--	382	0	*	1	*	*	--	2.2
	Facility Lighting	--	298	--	--	--	--	--	--	1.2
	Other Facility Support	--	109	0	*	*	*	0	--	0.9
	Onsite Transportation	--	2	--	W	0	*	--	--	1.6
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1
	Other Nonprocess Use	--	0	0	*	0	0	0	--	0.9
	End Use Not Reported	104	230	0	*	*	*	*	103	1.4
327410	**Lime**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	106	1,353	*	*	7	*	3	27	1
	Indirect Uses-Boiler Fuel	--	0	0	0	0	0	0	--	1
	Conventional Boiler Use	--	0	0	0	0	0	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Process	--	1,253	*	*	7	*	3	--	1
	Process Heating	--	272	*	*	7	*	3	--	1
	Process Cooling and Refrigeration	--	3	0	0	0	0	0	--	1
	Machine Drive	--	977	0	*	*	*	0	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Nonprocess	--	101	*	*	*	*	0	--	1
	Facility HVAC (g)	--	46	*	*	*	*	0	--	1
	Facility Lighting	--	47	--	--	--	--	--	--	1
	Other Facility Support	--	8	0	0	*	*	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1
	Other Nonprocess Use	--	0	0	*	*	*	0	--	1

Table 5.1 End Uses of Fuel Consumption, 2002;
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NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	End Use Not Reported	W	0	*	*	0	*	0	27	1
327993	**Mineral Wool**									
	RSE Column Factors:	0.9	1.4	0.9	0.6	1.2	1.2	0.9	NF	
	TOTAL FUEL CONSUMPTION	51	3,750	0	*	34	*	0	3	1.2
	Indirect Uses-Boiler Fuel	--	0	0	0	1	0	0	--	1
	Conventional Boiler Use	--	0	0	0	1	0	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1.2
	Direct Uses-Total Process	--	3,439	0	*	31	*	0	--	1.1
	Process Heating	--	1,502	0	*	31	*	0	--	1.2
	Process Cooling and Refrigeration	--	104	0	0	0	0	0	--	0.9
	Machine Drive	--	1,762	0	*	*	*	0	--	1.6
	Electro-Chemical Processes	--	7	--	--	--	--	--	--	1
	Other Process Use	--	64	0	0	*	0	0	--	0.9
	Direct Uses-Total Nonprocess	--	309	0	*	2	*	0	--	1.6
	Facility HVAC (g)	--	114	0	*	2	*	0	--	1.6
	Facility Lighting	--	168	--	--	--	--	--	--	1.2
	Other Facility Support	--	26	0	*	*	0	0	--	1.7
	Onsite Transportation	--	2	--	*	0	*	--	--	1.1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1.1
	Other Nonprocess Use	--	0	0	0	0	*	0	--	1
	End Use Not Reported	3	Q	0	*	*	*	0	3	7.5
331	**PRIMARY METALS**									
	RSE Column Factors:	0.4	1	1.6	1.3	1	1.4	0.8	NF	
	TOTAL FUEL CONSUMPTION	2,123	144,502	*	3	652	1	2	895	2.5
	Indirect Uses-Boiler Fuel	--	233	*	*	69	*	*	--	2.5
	Conventional Boiler Use	--	202	*	*	39	*	*	--	2.7
	CHP and/or Cogeneration Process	--	31	0	*	30	0	*	--	1.2
	Direct Uses-Total Process	--	132,797	*	1	526	*	2	--	3.5
	Process Heating	--	41,746	*	1	516	*	1	--	4.2
	Process Cooling and Refrigeration	--	1,202	0	0	1	0	0	--	2.4
	Machine Drive	--	43,539	*	*	W	*	0	--	3.7
	Electro-Chemical Processes	--	46,107	--	--	--	--	--	--	1
	Other Process Use	--	203	0	*	W	*	*	--	2.6
	Direct Uses-Total Nonprocess	--	10,730	*	1	51	*	*	--	1.8
	Facility HVAC (g)	--	5,349	*	*	43	*	*	--	3.2
	Facility Lighting	--	4,185	--	--	--	--	--	--	1.1
	Other Facility Support	--	1,012	0	*	5	*	0	--	3.7
	Onsite Transportation	--	36	--	1	*	*	--	--	2.2
	Conventional Electricity Generation	--	--	0	*	3	*	*	--	2
	Other Nonprocess Use	--	148	0	*	*	*	0	--	3.3
	End Use Not Reported	W	742	*	*	5	*	*	895	6.8
331111	**Iron and Steel Mills**									

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NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	RSE Column Factors:	0.5	1.1	0.5	1.7	1	1.9	1	NF	
	TOTAL FUEL CONSUMPTION	1,455	53,915	*	2	377	*	2	836	3.3
	Indirect Uses-Boiler Fuel	--	152	*	*	38	*	W	--	1.8
	Conventional Boiler Use	--	124	*	*	22	*	W	--	1.4
	CHP and/or Cogeneration Process	--	28	0	*	15	0	W	--	1
	Direct Uses-Total Process	--	50,302	*	W	321	*	W	--	3.3
	Process Heating	--	23,291	*	W	321	*	W	--	1.9
	Process Cooling and Refrigeration	--	411	0	0	1	0	0	--	1.2
	Machine Drive	--	25,137	0	*	*	*	0	--	3.9
	Electro-Chemical Processes	--	1,398	--	--	--	--	--	--	1
	Other Process Use	--	65	0	*	*	0	*	--	2
	Direct Uses-Total Nonprocess	--	3,286	0	W	18	*	0	--	3.2
	Facility HVAC (g)	--	1,591	0	*	13	*	0	--	3.2
	Facility Lighting	--	1,394	--	--	--	--	--	--	1.2
	Other Facility Support	--	296	0	0	2	0	0	--	2.4
	Onsite Transportation	--	6	--	W	0	*	--	--	2.1
	Conventional Electricity Generation	--	--	0	0	2	0	0	--	1.2
	Other Nonprocess Use	--	0	0	*	0	0	0	--	5.1
	End Use Not Reported	W	Q	*	*	Q	*	0	836	1.8
331112	**Electrometallurgical Ferroalloy Products**									
	RSE Column Factors:	1	1.8	1	1.1	0.8	0.9	0.7	NF	
	TOTAL FUEL CONSUMPTION	24	3,555	0	*	7	*	*	2	3.4
	Indirect Uses-Boiler Fuel	--	35	0	0	*	*	0	--	0.9
	Conventional Boiler Use	--	35	0	0	*	*	0	--	0.9
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Process	--	3,291	0	*	6	0	*	--	1.6
	Process Heating	--	1,901	0	0	5	0	0	--	2.3
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--	0.8
	Machine Drive	--	200	0	*	0	0	0	--	2.2
	Electro-Chemical Processes	--	1,186	--	--	--	--	--	--	1
	Other Process Use	--	4	0	*	*	0	*	--	1
	Direct Uses-Total Nonprocess	--	229	0	*	1	*	0	--	0.9
	Facility HVAC (g)	--	156	0	*	1	*	0	--	0.9
	Facility Lighting	--	72	--	--	--	--	--	--	1
	Other Facility Support	--	1	0	0	*	0	0	--	0.9
	Onsite Transportation	--	0	--	*	0	*	--	--	1.1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	0.8
	Other Nonprocess Use	--	1	0	0	0	0	0	--	0.8
	End Use Not Reported	2	0	0	*	*	0	0	2	4.1
3312	**Steel Products from Purchased Steel**									
	RSE Column Factors:	0.3	1.6	0.5	2	1.3	2.7	0.6	NF	

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	41	4,611	*	*	23	*	0	1	10.9
	Indirect Uses-Boiler Fuel	--	7	*	*	W	*	0	--	3.9
	Conventional Boiler Use	--	7	*	*	W	*	0	--	3.9
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	3.5
	Direct Uses-Total Process	--	3,693	*	*	16	*	0	--	6.1
	Process Heating	--	W	*	*	W	*	0	--	8
	Process Cooling and Refrigeration	--	57	0	0	*	0	0	--	8.7
	Machine Drive	--	2,359	0	*	W	*	0	--	7.2
	Electro-Chemical Processes	--	W	--	--	--	--	--	--	1.1
	Other Process Use	--	25	0	*	0	0	0	--	10.6
	Direct Uses-Total Nonprocess	--	882	*	*	W	*	0	--	3.4
	Facility HVAC (g)	--	398	*	*	3	*	0	--	4.9
	Facility Lighting	--	353	--	--	--	--	--	--	1.4
	Other Facility Support	--	123	0	*	W	*	0	--	2.8
	Onsite Transportation	--	Q	--	*	0	*	--	--	2.5
	Conventional Electricity Generation	--	--	0	0	0	*	0	--	3.2
	Other Nonprocess Use	--	4	0	*	0	0	0	--	3.4
	End Use Not Reported	W	Q	0	*	W	*	0	1	29
3313	**Alumina and Aluminum**									
	RSE Column Factors:	0.4	1.8	0.4	1.6	1.6	2.2	0.5	NF	
	TOTAL FUEL CONSUMPTION	351	56,673	*	*	127	*	0	26	2.1
	Indirect Uses-Boiler Fuel	--	34	*	*	18	*	0	--	2.6
	Conventional Boiler Use	--	15	*	*	W	*	0	--	3.4
	CHP and/or Cogeneration Process	--	19	0	0	W	0	0	--	0.9
	Direct Uses-Total Process	--	54,101	0	*	101	*	0	--	1.9
	Process Heating	--	4,997	0	*	95	*	0	--	2.2
	Process Cooling and Refrigeration	--	146	0	0	0	0	0	--	5.2
	Machine Drive	--	7,112	0	*	W	*	0	--	3.6
	Electro-Chemical Processes	--	41,829	--	--	--	--	--	--	1
	Other Process Use	--	Q	0	*	W	0	0	--	4.2
	Direct Uses-Total Nonprocess	--	2,381	0	*	W	*	0	--	3.2
	Facility HVAC (g)	--	1,245	0	*	6	*	0	--	1.8
	Facility Lighting	--	898	--	--	--	--	--	--	1.3
	Other Facility Support	--	235	0	0	W	0	0	--	7
	Onsite Transportation	--	3	--	*	*	*	--	--	4.8
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1.1
	Other Nonprocess Use	--	1	0	0	0	0	0	--	1.1
	End Use Not Reported	W	Q	*	*	W	*	0	26	6.5
331312	**Primary Aluminum**									
	RSE Column Factors:	1	1.1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	208	W	*	*	19	*	0	W	1
	Indirect Uses-Boiler Fuel	--	0	*	*	1	0	0	--	1
	Conventional Boiler Use	--	0	*	*	1	0	0	--	1

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NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Process	--	47,554	0	*	17	*	0	--	1
	Process Heating	--	W	0	*	W	*	0	--	1
	Process Cooling and Refrigeration	--	Q	0	0	0	0	0	--	1
	Machine Drive	--	W	0	*	0	*	0	--	1
	Electro-Chemical Processes	--	41,726	--	--	--	--	--	--	1
	Other Process Use	--	0	0	0	W	0	0	--	1
	Direct Uses-Total Nonprocess	--	W	0	*	1	*	0	--	1
	Facility HVAC (g)	--	W	0	0	1	*	0	--	1
	Facility Lighting	--	463	--	--	--	--	--	--	1
	Other Facility Support	--	72	0	0	*	0	0	--	1.6
	Onsite Transportation	--	0	--	*	*	*	--	--	1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1
	End Use Not Reported	1	0	0	0	0	0	0	1	1
3314	**Nonferrous Metals, except Aluminum**									
	RSE Column Factors:	0.4	2.1	0.9	1.4	1.4	1.5	0.4	NF	
	TOTAL FUEL CONSUMPTION	95	9,855	*	*	42	*	*	6	4.3
	Indirect Uses-Boiler Fuel	--	9	*	*	W	*	*	--	2.9
	Conventional Boiler Use	--	9	*	*	W	*	*	--	3.1
	CHP and/or Cogeneration Process	--	0	0	0	W	0	0	--	1.3
	Direct Uses-Total Process	--	8,490	0	*	29	*	*	--	2
	Process Heating	--	3,465	0	*	29	*	*	--	3.4
	Process Cooling and Refrigeration	--	201	0	0	0	0	0	--	2.4
	Machine Drive	--	3,488	0	*	*	*	0	--	2.2
	Electro-Chemical Processes	--	1,300	--	--	--	--	--	--	1
	Other Process Use	--	35	0	*	*	*	0	--	2.8
	Direct Uses-Total Nonprocess	--	1,214	*	*	W	*	*	--	3.3
	Facility HVAC (g)	--	603	*	*	4	*	0	--	3.6
	Facility Lighting	--	469	--	--	--	--	--	--	1.3
	Other Facility Support	--	82	0	0	W	*	0	--	2.7
	Onsite Transportation	--	4	--	*	*	*	--	--	3.8
	Conventional Electricity Generation	--	--	0	*	*	0	*	--	3.3
	Other Nonprocess Use	--	56	0	*	0	0	0	--	3.8
	End Use Not Reported	8	143	*	*	W	*	0	6	7.1
3315	**Foundries**									
	RSE Column Factors:	0.5	1.3	0.7	1.6	1.2	1.5	0.7	NF	
	TOTAL FUEL CONSUMPTION	157	15,893	*	*	75	*	*	23	2.1
	Indirect Uses-Boiler Fuel	--	12	*	*	3	*	*	--	1.9
	Conventional Boiler Use	--	12	*	*	3	*	0	--	1.8
	CHP and/or Cogeneration Process	--	0	0	0	*	0	*	--	2.3
	Direct Uses-Total Process	--	12,920	*	*	53	*	*	--	2.2
	Process Heating	--	7,148	0	*	51	*	*	--	2.5

Table 5.1 End Uses of Fuel Consumption, 2002;
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NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Process Cooling and Refrigeration	--	387	0	0	*	0	0	--	3.6
	Machine Drive	--	5,243	*	*	W	*	0	--	3.8
	Electro-Chemical Processes	--	85	--	--	--	--	--	--	1
	Other Process Use	--	58	0	*	W	*	*	--	3.1
	Direct Uses-Total Nonprocess	--	2,739	0	*	18	*	*	--	2.6
	Facility HVAC (g)	--	1,357	0	*	16	*	*	--	5
	Facility Lighting	--	1,000	--	--	--	--	--	--	1.1
	Other Facility Support	--	276	0	*	1	*	0	--	1.9
	Onsite Transportation	--	20	--	*	*	*	--	--	2
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	1.1
	Other Nonprocess Use	--	87	0	*	*	*	0	--	2.5
	End Use Not Reported	26	222	0	*	2	*	*	23	9
331511	**Iron Foundries**									
	RSE Column Factors:	0.6	1.2	0.7	1.1	0.9	2.1	0.9	NF	
	TOTAL FUEL CONSUMPTION	81	8,211	0	*	27	*	*	23	2.7
	Indirect Uses-Boiler Fuel	--	2	0	0	*	*	*	--	1.1
	Conventional Boiler Use	--	2	0	0	*	*	0	--	0.9
	CHP and/or Cogeneration Process	--	0	0	0	0	0	*	--	2
	Direct Uses-Total Process	--	6,776	0	*	17	*	*	--	2.4
	Process Heating	--	4,076	0	*	16	*	*	--	2.7
	Process Cooling and Refrigeration	--	149	0	0	0	0	0	--	3.3
	Machine Drive	--	2,467	0	*	W	*	0	--	2.9
	Electro-Chemical Processes	--	59	--	--	--	--	--	--	1
	Other Process Use	--	26	0	0	W	*	*	--	1.4
	Direct Uses-Total Nonprocess	--	1,315	0	*	9	*	*	--	3.3
	Facility HVAC (g)	--	693	0	*	8	*	*	--	6
	Facility Lighting	--	470	--	--	--	--	--	--	1.2
	Other Facility Support	--	136	0	*	1	*	0	--	2.4
	Onsite Transportation	--	11	--	*	*	*	--	--	2
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	2
	Other Nonprocess Use	--	5	0	*	*	0	0	--	1.1
	End Use Not Reported	24	118	0	*	*	*	*	23	12.2
331521	**Aluminum Die-Casting Foundries**									
	RSE Column Factors:	0.7	1.5	0.7	0.9	1.4	1.5	0.8	NF	
	TOTAL FUEL CONSUMPTION	23	1,897	*	*	16	*	0	*	2.4
	Indirect Uses-Boiler Fuel	--	0	*	0	1	*	0	--	1.2
	Conventional Boiler Use	--	0	*	0	1	*	0	--	1.2
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1.5
	Direct Uses-Total Process	--	1,310	0	*	10	*	0	--	3.7
	Process Heating	--	262	0	*	10	*	0	--	1.7
	Process Cooling and Refrigeration	--	53	0	0	*	0	0	--	1.7
	Machine Drive	--	971	0	0	*	*	0	--	4.6
	Electro-Chemical Processes	--	7	--	--	--	--	--	--	1

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NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Other Process Use	--	17	0	*	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	549	0	*	4	*	0	--	2.2
	Facility HVAC (g)	--	241	0	0	3	*	0	--	2.2
	Facility Lighting	--	206	--	--	--	--	--	--	1.2
	Other Facility Support	--	46	0	0	*	0	0	--	3.2
	Onsite Transportation	--	7	--	*	*	*	--	--	1.7
	Conventional Electricity Generation	--	--	0	*	0	*	0	--	0.9
	Other Nonprocess Use	--	48	0	0	*	0	0	--	0.9
	End Use Not Reported	1	38	0	*	1	*	0	*	4.6
331524	**Aluminum Foundries, except Die-Casting**									
	RSE Column Factors:	0.8	1.3	0.8	1	1.2	1.1	0.8	NF	
	TOTAL FUEL CONSUMPTION	19	1,350	*	*	14	*	0	*	3.4
	Indirect Uses-Boiler Fuel	--	1	0	0	*	*	0	--	0.9
	Conventional Boiler Use	--	1	0	0	*	*	0	--	0.9
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1.3
	Direct Uses-Total Process	--	1,015	*	*	11	*	0	--	2.7
	Process Heating	--	322	0	*	11	*	0	--	3.4
	Process Cooling and Refrigeration	--	53	0	0	*	0	0	--	0.9
	Machine Drive	--	637	*	*	*	*	0	--	1.3
	Electro-Chemical Processes	--	1	--	--	--	--	--	--	1
	Other Process Use	--	2	0	0	*	0	0	--	0.9
	Direct Uses-Total Nonprocess	--	311	0	*	2	*	0	--	2.3
	Facility HVAC (g)	--	148	0	*	2	*	0	--	1.8
	Facility Lighting	--	127	--	--	--	--	--	--	1.3
	Other Facility Support	--	34	0	0	1	*	0	--	1.1
	Onsite Transportation	--	1	--	*	0	*	--	--	1.4
	Conventional Electricity Generation	--	--	0	*	0	*	0	--	1
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1.3
	End Use Not Reported	*	23	0	*	*	*	0	*	21.7
332	**FABRICATED METAL PRODUCTS**									
	RSE Column Factors:	0.2	2.4	0.8	3.1	1.4	1.9	0.3	NF	
	TOTAL FUEL CONSUMPTION	387	47,123	*	1	204	1	*	Q	15.9
	Indirect Uses-Boiler Fuel	--	16	*	*	W	*	0	--	12.5
	Conventional Boiler Use	--	15	*	*	W	*	0	--	12.8
	CHP and/or Cogeneration Process	--	*	0	*	W	0	0	--	1.1
	Direct Uses-Total Process	--	33,624	*	*	128	*	*	--	9
	Process Heating	--	10,860	*	*	126	*	*	--	13.7
	Process Cooling and Refrigeration	--	1,638	0	*	*	0	0	--	9.1
	Machine Drive	--	20,766	0	*	2	*	0	--	9.8
	Electro-Chemical Processes	--	271	--	--	--	--	--	--	1.6
	Other Process Use	--	88	0	*	*	*	*	--	6.8
	Direct Uses-Total Nonprocess	--	10,156	*	*	44	*	*	--	6.1
	Facility HVAC (g)	--	4,760	*	*	42	*	*	--	6.5

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	Facility Lighting	--	4,440	--	--	--	--	--	--	1.4
	Other Facility Support	--	829	0	*	1	*	0	--	7.4
	Onsite Transportation	--	35	--	*	*	*	--	--	4.6
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	3.1
	Other Nonprocess Use	--	91	0	*	Q	*	0	--	7.9
	End Use Not Reported	35	3,327	*	*	W	*	0	Q	21.5
333	**MACHINERY**									
	RSE Column Factors:	0.2	2	0.4	3.5	1.8	2.7	0.4	NF	
	TOTAL FUEL CONSUMPTION	175	24,563	*	*	80	1	*	4	10.3
	Indirect Uses-Boiler Fuel	--	Q	*	*	14	*	*	--	5.9
	Conventional Boiler Use	--	Q	*	*	13	*	*	--	10.3
	CHP and/or Cogeneration Process	--	0	0	*	1	0	*	--	3.7
	Direct Uses-Total Process	--	14,918	0	*	32	W	0	--	6.2
	Process Heating	--	1,828	0	*	29	W	0	--	8.9
	Process Cooling and Refrigeration	--	800	0	0	*	0	0	--	5.7
	Machine Drive	--	11,929	0	*	2	*	0	--	7.4
	Electro-Chemical Processes	--	227	--	--	--	--	--	--	1.6
	Other Process Use	--	134	0	*	*	*	0	--	11.3
	Direct Uses-Total Nonprocess	--	8,588	*	*	30	W	0	--	5.1
	Facility HVAC (g)	--	4,522	*	*	29	W	0	--	6.3
	Facility Lighting	--	3,357	--	--	--	--	--	--	1.3
	Other Facility Support	--	621	0	*	1	*	0	--	6.8
	Onsite Transportation	--	56	--	*	*	W	--	--	5.7
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	3.1
	Other Nonprocess Use	--	32	0	*	*	*	0	--	11
	End Use Not Reported	W	1,013	*	*	4	W	0	4	13.7
334	**COMPUTER AND ELECTRONIC PRODUCTS**									
	RSE Column Factors:	0.2	2.1	0.6	1.9	1.3	1.2	1.2	NF	
	TOTAL FUEL CONSUMPTION	200	38,352	*	*	63	*	*	2	17.7
	Indirect Uses-Boiler Fuel	--	30	*	*	26	*	*	--	12.8
	Conventional Boiler Use	--	30	*	*	26	*	0	--	11.5
	CHP and/or Cogeneration Process	--	0	0	0	*	0	*	--	4.3
	Direct Uses-Total Process	--	18,109	*	*	10	*	0	--	5.9
	Process Heating	--	4,319	*	0	9	*	0	--	7.1
	Process Cooling and Refrigeration	--	3,446	0	0	*	*	0	--	7.3
	Machine Drive	--	8,743	0	*	*	*	0	--	3
	Electro-Chemical Processes	--	545	--	--	--	--	--	--	1.5
	Other Process Use	--	1,056	0	*	1	0	0	--	4.1
	Direct Uses-Total Nonprocess	--	18,505	*	*	22	*	0	--	11.6
	Facility HVAC (g)	--	10,963	*	*	20	*	0	--	7.6
	Facility Lighting	--	4,908	--	--	--	--	--	--	1.5
	Other Facility Support	--	2,568	*	*	1	*	0	--	10.3
	Onsite Transportation	--	29	--	*	*	*	--	--	3.7

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	Conventional Electricity Generation	--	--	0	*	*	*	0	--	3.7
	Other Nonprocess Use	--	38	0	*	1	*	0	--	5.3
	End Use Not Reported	13	1,708	*	*	5	*	0	2	12.6
334413	**Semiconductors and Related Devices**									
	RSE Column Factors:	0.7	1.8	0.5	0.7	2.3	1.7	0.6	NF	
	TOTAL FUEL CONSUMPTION	66	13,001	*	*	21	*	0	Q	4
	Indirect Uses-Boiler Fuel	--	11	*	*	11	0	0	--	3.2
	Conventional Boiler Use	--	11	*	*	11	0	0	--	3.2
	CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--	0.8
	Direct Uses-Total Process	--	7,417	*	*	2	*	0	--	1.6
	Process Heating	--	1,231	*	0	1	*	0	--	1.8
	Process Cooling and Refrigeration	--	1,524	0	0	*	0	0	--	1.3
	Machine Drive	--	4,161	0	*	*	*	0	--	1.3
	Electro-Chemical Processes	--	173	--	--	--	--	--	--	1.2
	Other Process Use	--	328	0	*	1	0	0	--	1.5
	Direct Uses-Total Nonprocess	--	5,329	0	*	6	*	0	--	2.9
	Facility HVAC (g)	--	3,948	0	*	6	*	0	--	1.1
	Facility Lighting	--	800	--	--	--	--	--	--	1.2
	Other Facility Support	--	565	0	*	*	*	0	--	2.9
	Onsite Transportation	--	2	--	*	0	*	--	--	2.8
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1.3
	Other Nonprocess Use	--	14	0	*	*	0	0	--	2.3
	End Use Not Reported	3	244	0	*	2	*	0	Q	4.8
335	**ELEC. EQUIP., APPLIANCES, COMPONENTS**									
	RSE Column Factors:	0.2	1.9	1.2	2.1	1.5	1.6	0.4	NF	
	TOTAL FUEL CONSUMPTION	103	13,901	*	*	51	*	*	1	6.3
	Indirect Uses-Boiler Fuel	--	39	*	*	6	*	*	--	2.9
	Conventional Boiler Use	--	39	*	*	6	*	*	--	2.9
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	4.1
	Direct Uses-Total Process	--	8,640	0	*	27	*	0	--	5.3
	Process Heating	--	2,596	0	*	27	*	0	--	8
	Process Cooling and Refrigeration	--	613	0	*	*	0	0	--	8.2
	Machine Drive	--	4,979	0	*	*	*	0	--	8.2
	Electro-Chemical Processes	--	367	--	--	--	--	--	--	1.5
	Other Process Use	--	84	0	*	*	*	0	--	12
	Direct Uses-Total Nonprocess	--	4,626	*	*	15	*	0	--	7.3
	Facility HVAC (g)	--	2,371	*	*	15	*	0	--	8.6
	Facility Lighting	--	1,798	--	--	--	--	--	--	1.3
	Other Facility Support	--	350	0	*	*	*	0	--	6.9
	Onsite Transportation	--	35	--	*	*	*	--	--	3.3
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	1.3
	Other Nonprocess Use	--	73	0	*	*	*	0	--	12
	End Use Not Reported	6	597	*	*	3	*	0	1	22.4

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
336	**TRANSPORTATION EQUIPMENT**									
	RSE Column Factors:	0.3	1.8	0.4	2.8	1.6	2.9	0.4	NF	
	TOTAL FUEL CONSUMPTION	424	50,508	1	1	197	1	*	28	5.4
	Indirect Uses-Boiler Fuel	--	99	W	*	50	*	*	--	5.4
	Conventional Boiler Use	--	99	W	*	47	*	*	--	5.4
	CHP and/or Cogeneration Process	--	0	W	*	3	0	*	--	4
	Direct Uses-Total Process	--	29,954	*	*	73	W	*	--	7.1
	Process Heating	--	4,792	*	*	61	W	*	--	5.9
	Process Cooling and Refrigeration	--	2,265	*	0	2	*	0	--	3
	Machine Drive	--	21,746	0	*	2	*	0	--	7.8
	Electro-Chemical Processes	--	498	--	--	--	--	--	--	1.5
	Other Process Use	--	654	0	*	Q	*	0	--	2
	Direct Uses-Total Nonprocess	--	19,045	W	*	65	W	*	--	4.2
	Facility HVAC (g)	--	9,532	W	*	61	*	*	--	4.3
	Facility Lighting	--	7,443	--	--	--	--	--	--	1.3
	Other Facility Support	--	1,696	*	*	2	*	0	--	5
	Onsite Transportation	--	279	--	*	*	W	--	--	5.6
	Conventional Electricity Generation	--	--	0	*	1	*	0	--	3.6
	Other Nonprocess Use	--	95	0	*	Q	*	0	--	2.9
	End Use Not Reported	44	1,411	*	*	10	*	*	28	20.7
336112	**Light Trucks and Utility Vehicles**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	57	W	*	*	35	*	W	3	1
	Indirect Uses-Boiler Fuel	--	6	*	0	11	*	W	--	1
	Conventional Boiler Use	--	6	*	0	11	*	W	--	1
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Process	--	2,920	0	0	14	*	0	--	1
	Process Heating	--	172	0	0	12	0	0	--	1
	Process Cooling and Refrigeration	--	271	0	0	1	0	0	--	1
	Machine Drive	--	2,218	0	0	*	*	0	--	1
	Electro-Chemical Processes	--	76	--	--	--	--	--	--	1
	Other Process Use	--	183	0	0	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	W	*	*	10	*	0	--	1
	Facility HVAC (g)	--	W	*	0	9	*	0	--	1
	Facility Lighting	--	817	--	--	--	--	--	--	1
	Other Facility Support	--	204	0	*	*	*	0	--	1
	Onsite Transportation	--	80	--	*	*	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	1
	Other Nonprocess Use	--	2	0	0	*	0	0	--	1
	End Use Not Reported	W	W	0	0	*	0	0	3	1
337	**FURNITURE AND RELATED PRODUCTS**									

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	RSE Column Factors:	0.3	1.4	0.5	1	2.1	1.7	1.4	NF	
	TOTAL FUEL CONSUMPTION	63	7,062	*	*	24	*	*	11	8.7
	Indirect Uses-Boiler Fuel	--	68	0	*	1	*	*	--	6
	Conventional Boiler Use	--	57	0	*	1	*	*	--	6.9
	CHP and/or Cogeneration Process	--	11	0	0	*	0	*	--	3.6
	Direct Uses-Total Process	--	4,006	0	*	10	*	*	--	8.5
	Process Heating	--	307	0	*	10	*	*	--	7.3
	Process Cooling and Refrigeration	--	133	0	*	*	*	0	--	3.3
	Machine Drive	--	3,558	0	*	*	*	0	--	9.2
	Electro-Chemical Processes	--	Q	--	--	--	--	--	--	1.1
	Other Process Use	--	Q	0	0	0	0	0	--	3.6
	Direct Uses-Total Nonprocess	--	2,323	0	*	12	*	*	--	8
	Facility HVAC (g)	--	W	0	*	11	*	*	--	10.3
	Facility Lighting	--	1,141	--	--	--	--	--	--	1.4
	Other Facility Support	--	W	0	*	*	*	0	--	3.9
	Onsite Transportation	--	19	--	*	*	*	--	--	5.2
	Conventional Electricity Generation	--	--	0	*	0	*	0	--	1.1
	Other Nonprocess Use	--	Q	0	*	*	0	0	--	1.2
	End Use Not Reported	15	665	*	*	1	*	*	11	23.1
339	**MISCELLANEOUS**									
	RSE Column Factors:	0.3	2.4	0.3	2.7	2.1	1.7	0.5	NF	
	TOTAL FUEL CONSUMPTION	71	10,374	*	*	31	*	0	2	7.3
	Indirect Uses-Boiler Fuel	--	W	*	*	9	*	0	--	3.7
	Conventional Boiler Use	--	W	*	*	9	*	0	--	3.7
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	3.7
	Direct Uses-Total Process	--	5,381	0	*	9	*	0	--	7.4
	Process Heating	--	953	0	0	8	*	0	--	7.3
	Process Cooling and Refrigeration	--	616	0	0	*	0	0	--	6.1
	Machine Drive	--	3,749	0	*	*	*	0	--	9.7
	Electro-Chemical Processes	--	18	--	--	--	--	--	--	1.6
	Other Process Use	--	45	0	0	*	*	0	--	3.5
	Direct Uses-Total Nonprocess	--	4,056	0	*	10	*	0	--	6.3
	Facility HVAC (g)	--	2,097	0	*	10	*	0	--	7.3
	Facility Lighting	--	1,503	--	--	--	--	--	--	1.3
	Other Facility Support	--	411	0	*	*	*	0	--	5.9
	Onsite Transportation	--	27	--	*	0	*	--	--	3.3
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	1.8
	Other Nonprocess Use	--	Q	0	*	*	*	0	--	7.7
	End Use Not Reported	W	W	*	*	3	*	0	2	14.2

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and

Table 5.1 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors

transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

(c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(d) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(e) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(f) 'Other' includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power.

(g) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes steam and hot water.

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.

-- Estimation is not applicable.

S=Negative value.

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. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.
Allocations to specific end uses are made on the basis of reasonable approximations by respondents.

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

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
		Total United States								
311 - 339	**ALL MANUFACTURING INDUSTRIES**									
	RSE Column Factors:	0.3	1	1	2.4	1.1	1.3	1	NF	
	TOTAL FUEL CONSUMPTION	16,273	2,840	208	141	5,794	103	1,182	6,006	3.3
	Indirect Uses-Boiler Fuel	--	12	127	25	2,162	8	776	--	5.5
	Conventional Boiler Use	--	9	76	25	1,306	8	255	--	5.6
	CHP and/or Cogeneration Process	--	4	51	10	857	*	521	--	3.7
	Direct Uses-Total Process	--	2,218	60	43	2,956	64	381	--	2.9
	Process Heating	--	343	58	24	2,742	60	368	--	3.2
	Process Cooling and Refrigeration	--	194	*	2	45	*	*	--	3.7
	Machine Drive	--	1,426	2	16	109	4	5	--	4.8
	Electro-Chemical Processes	--	242	--	--	--	--	--	--	1
	Other Process Use	--	13	*	1	60	*	7	--	5.3
	Direct Uses-Total Nonprocess	--	514	4	50	513	24	19	--	4.6
	Facility HVAC (g)	--	262	3	5	417	5	5	--	6.6
	Facility Lighting	--	196	--	--	--	--	--	--	1.1
	Other Facility Support	--	48	*	1	30	*	*	--	9.7
	Onsite Transportation	--	4	--	35	2	18	--	--	3.1
	Conventional Electricity Generation	--	--	1	Q	55	*	14	--	1.7
	Other Nonprocess Use	--	3	*	Q	10	*	0	--	8.8
	End Use Not Reported	6,306	96	17	12	162	6	6	6,006	8.7
311	**FOOD**									
	RSE Column Factors:	0.2	1.4	1.5	2.5	1.2	2.6	0.4	NF	
	TOTAL FUEL CONSUMPTION	1,116	230	13	19	575	5	184	91	9.7
	Indirect Uses-Boiler Fuel	--	Q	9	6	275	W	176	--	12
	Conventional Boiler Use	--	Q	8	6	237	W	72	--	12.7
	CHP and/or Cogeneration Process	--	*	2	1	38	0	104	--	5.5
	Direct Uses-Total Process	--	179	4	6	230	W	W	--	7.9
	Process Heating	--	7	4	1	205	W	W	--	8.8
	Process Cooling and Refrigeration	--	61	0	2	Q	*	0	--	8.9
	Machine Drive	--	110	0	3	13	*	0	--	11
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.1
	Other Process Use	--	1	*	*	4	0	0	--	13
	Direct Uses-Total Nonprocess	--	35	*	5	W	1	*	--	10.4
	Facility HVAC (g)	--	16	*	*	37	1	*	--	11.3
	Facility Lighting	--	15	--	--	--	--	--	--	1.3
	Other Facility Support	--	3	*	*	W	*	0	--	12.9
	Onsite Transportation	--	1	--	3	*	1	--	--	4.9
	Conventional Electricity Generation	--	--	0	Q	Q	0	0	--	2.1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Other Nonprocess Use	--	*	*	*	*	0	0	--	12.1
	End Use Not Reported	133	14	*	1	W	W	W	91	14.1
311221	**Wet Corn Milling**									
	RSE Column Factors:	0.8	1.1	0.9	1.2	1.5	0.8	0.9	NF	
	TOTAL FUEL CONSUMPTION	217	23	*	*	61	*	121	11	1.3
	Indirect Uses-Boiler Fuel	--	*	*	*	32	0	121	--	1.3
	Conventional Boiler Use	--	*	*	*	22	0	62	--	1
	CHP and/or Cogeneration Process	--	*	0	*	10	0	59	--	1.6
	Direct Uses-Total Process	--	22	0	*	28	*	0	--	1.5
	Process Heating	--	1	0	0	28	*	0	--	1
	Process Cooling and Refrigeration	--	*	0	0	*	0	0	--	1.1
	Machine Drive	--	21	0	*	*	*	0	--	1.8
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	0	0	*	0	0	0	--	1
	Direct Uses-Total Nonprocess	--	1	*	*	1	*	0	--	1
	Facility HVAC (g)	--	*	*	*	1	*	0	--	1.1
	Facility Lighting	--	1	--	--	--	--	--	--	1
	Other Facility Support	--	*	*	0	*	0	0	--	0.9
	Onsite Transportation	--	0	--	*	0	*	--	--	1.1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1.9
	Other Nonprocess Use	--	0	0	*	0	0	0	--	1
	End Use Not Reported	11	0	0	*	0	*	0	11	2.3
31131	**Sugar**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	111	2	2	1	22	*	37	47	1
	Indirect Uses-Boiler Fuel	--	*	2	1	17	0	29	--	1
	Conventional Boiler Use	--	*	*	0	3	0	4	--	1
	CHP and/or Cogeneration Process	--	*	2	1	13	0	26	--	1
	Direct Uses-Total Process	--	2	*	*	4	*	W	--	1
	Process Heating	--	*	*	*	4	*	W	--	1
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--	1
	Machine Drive	--	2	0	*	*	*	0	--	1
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Nonprocess	--	*	0	*	*	*	*	--	1
	Facility HVAC (g)	--	*	0	0	*	*	*	--	1
	Facility Lighting	--	*	--	--	--	--	--	--	1
	Other Facility Support	--	*	0	*	*	*	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1
	Other Nonprocess Use	--	*	0	*	0	0	0	--	1
	End Use Not Reported	W	*	*	*	1	*	W	47	1
311421	**Fruit and Vegetable Canning**									
	RSE Column Factors:	0.3	2.2	1	0.9	1.2	2.1	0.6	NF	
	TOTAL FUEL CONSUMPTION	47	7	1	1	36	Q	0	1	18
	Indirect Uses-Boiler Fuel	--	*	Q	Q	26	*	0	--	6.3
	Conventional Boiler Use	--	*	Q	Q	W	*	0	--	6.7
	CHP and/or Cogeneration Process	--	0	0	0	W	0	0	--	1.6
	Direct Uses-Total Process	--	5	*	*	W	*	0	--	8.5
	Process Heating	--	*	*	*	W	*	0	--	4.7
	Process Cooling and Refrigeration	--	1	0	*	*	0	0	--	3
	Machine Drive	--	3	0	*	*	*	0	--	4.9
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	*	0	*	0	0	0	--	1.2
	Direct Uses-Total Nonprocess	--	1	*	*	W	*	0	--	5.5
	Facility HVAC (g)	--	*	0	0	W	*	0	--	4.1
	Facility Lighting	--	1	--	--	--	--	--	--	1.5
	Other Facility Support	--	*	*	*	*	*	0	--	4
	Onsite Transportation	--	*	--	*	0	*	--	--	3
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	1.1
	Other Nonprocess Use	--	0	0	*	*	0	0	--	5.2
	End Use Not Reported	2	*	0	*	1	*	0	1	20.6
312	**BEVERAGE AND TOBACCO PRODUCTS**									
	RSE Column Factors:	0.4	2.5	0.6	1.1	1.7	2.1	0.5	NF	
	TOTAL FUEL CONSUMPTION	104	26	2	1	46	1	17	10	5.8
	Indirect Uses-Boiler Fuel	--	*	W	*	31	*	17	--	3.4
	Conventional Boiler Use	--	*	W	*	29	*	5	--	4.8
	CHP and/or Cogeneration Process	--	*	*	*	2	*	12	--	1
	Direct Uses-Total Process	--	19	*	*	8	*	*	--	2.3
	Process Heating	--	1	*	*	7	*	*	--	2.6
	Process Cooling and Refrigeration	--	8	*	*	*	*	*	--	3
	Machine Drive	--	11	*	*	*	*	*	--	4.2
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.7
	Other Process Use	--	*	0	*	*	*	0	--	2.1
	Direct Uses-Total Nonprocess	--	6	W	Q	5	1	*	--	3
	Facility HVAC (g)	--	3	W	*	4	*	*	--	3.2
	Facility Lighting	--	2	--	--	--	--	--	--	1.3
	Other Facility Support	--	*	0	*	*	*	*	--	3.1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Onsite Transportation	--	*	--	Q	0	1	--	--	3.6
	Conventional Electricity Generation	--	--	0	*	0	*	*	--	1.4
	Other Nonprocess Use	--	*	0	*	*	*	0	--	4.3
	End Use Not Reported	14	1	0	*	2	*	0	10	11.6
3121	**Beverages**									
	RSE Column Factors:	0.3	2.7	0.5	1.4	1.5	1.7	0.6	NF	
	TOTAL FUEL CONSUMPTION	85	22	1	Q	42	1	8	10	8.2
	Indirect Uses-Boiler Fuel	--	*	W	*	29	*	8	--	5.5
	Conventional Boiler Use	--	*	W	*	26	*	2	--	6.5
	CHP and/or Cogeneration Process	--	0	*	*	2	0	6	--	1.4
	Direct Uses-Total Process	--	16	*	*	7	*	0	--	2.8
	Process Heating	--	*	*	*	6	*	0	--	4
	Process Cooling and Refrigeration	--	7	*	*	*	*	0	--	3.4
	Machine Drive	--	9	*	*	*	*	0	--	3.8
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.7
	Other Process Use	--	*	0	*	*	*	0	--	2.7
	Direct Uses-Total Nonprocess	--	4	W	Q	4	1	0	--	4
	Facility HVAC (g)	--	2	W	*	4	*	0	--	5.4
	Facility Lighting	--	2	--	--	--	--	--	--	1.3
	Other Facility Support	--	*	0	*	*	*	0	--	3.4
	Onsite Transportation	--	*	--	Q	0	1	--	--	3.8
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	3.5
	Other Nonprocess Use	--	*	0	*	*	*	0	--	4.6
	End Use Not Reported	14	1	*	*	2	*	0	10	12.5
3122	**Tobacco**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	19	4	1	*	4	*	10	*	1
	Indirect Uses-Boiler Fuel	--	*	1	*	2	*	10	--	1
	Conventional Boiler Use	--	*	*	*	2	*	2	--	1
	CHP and/or Cogeneration Process	--	*	0	0	0	*	7	--	1
	Direct Uses-Total Process	--	3	*	*	1	*	*	--	1
	Process Heating	--	*	*	*	1	*	*	--	1
	Process Cooling and Refrigeration	--	1	0	0	*	0	*	--	1
	Machine Drive	--	2	0	*	*	*	*	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	*	0	*	*	*	0	--	1
	Direct Uses-Total Nonprocess	--	2	*	*	*	*	*	--	1
	Facility HVAC (g)	--	1	*	*	*	*	*	--	1
	Facility Lighting	--	*	--	--	--	--	--	--	1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Other Facility Support	--	*	0	*	*	0	*	--	1
	Onsite Transportation	--	*	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	0	*	*	--	1
	Other Nonprocess Use	--	0	0	*	0	0	0	--	1
	End Use Not Reported	*	*	0	*	*	0	0	*	1
313	**TEXTILE MILLS**									
	RSE Column Factors:	0.2	2.5	0.8	1.5	1.1	2.5	0.6	NF	
	TOTAL FUEL CONSUMPTION	205	86	4	2	74	2	22	15	17.7
	Indirect Uses-Boiler Fuel	--	*	W	1	37	W	21	--	18.4
	Conventional Boiler Use	--	*	W	1	W	W	14	--	19.4
	CHP and/or Cogeneration Process	--	0	0	0	W	0	7	--	5.4
	Direct Uses-Total Process	--	64	0	Q	26	W	1	--	5.9
	Process Heating	--	8	0	Q	23	W	1	--	6.2
	Process Cooling and Refrigeration	--	7	0	0	0	0	0	--	6.4
	Machine Drive	--	48	0	0	3	W	0	--	9.8
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.6
	Other Process Use	--	*	0	*	*	0	0	--	2.5
	Direct Uses-Total Nonprocess	--	21	*	*	W	W	*	--	7
	Facility HVAC (g)	--	W	*	*	W	*	*	--	7.2
	Facility Lighting	--	W	--	--	--	--	--	--	1.4
	Other Facility Support	--	W	0	*	Q	*	0	--	7.4
	Onsite Transportation	--	*	--	*	*	W	--	--	3.3
	Conventional Electricity Generation	--	--	0	*	1	*	*	--	1.2
	Other Nonprocess Use	--	*	0	0	*	0	0	--	4.6
	End Use Not Reported	18	*	W	*	W	W	0	15	26.9
314	**TEXTILE PRODUCT MILLS**									
	RSE Column Factors:	0.4	3.1	0.7	0.5	2.1	2.3	0.6	NF	
	TOTAL FUEL CONSUMPTION	60	17	2	Q	29	1	Q	Q	17.6
	Indirect Uses-Boiler Fuel	--	W	W	Q	10	*	W	--	12.1
	Conventional Boiler Use	--	W	W	Q	10	*	W	--	12.1
	CHP and/or Cogeneration Process	--	0	0	*	*	0	0	--	1.4
	Direct Uses-Total Process	--	11	W	*	13	*	0	--	2.9
	Process Heating	--	1	W	*	13	*	0	--	3.3
	Process Cooling and Refrigeration	--	1	0	0	*	0	0	--	4
	Machine Drive	--	9	0	0	*	0	0	--	3.2
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.4
	Other Process Use	--	*	0	0	*	0	0	--	6.6
	Direct Uses-Total Nonprocess	--	W	*	*	4	*	Q	--	4.3
	Facility HVAC (g)	--	W	*	*	W	*	Q	--	3.1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Facility Lighting	--	W	--	--	--	--	--	--	1.4
	Other Facility Support	--	*	*	*	W	0	0	--	3.8
	Onsite Transportation	--	*	--	*	*	*	--	--	3.7
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	1.6
	Other Nonprocess Use	--	*	0	*	*	*	0	--	2.8
	End Use Not Reported	5	W	W	0	1	*	0	Q	31.1
315	**APPAREL**									
	RSE Column Factors:	0.2	2.3	1.4	1	1.7	1.4	0.6	NF	
	TOTAL FUEL CONSUMPTION	30	12	*	1	16	*	0	*	23.5
	Indirect Uses-Boiler Fuel	--	*	*	W	4	*	0	--	12.6
	Conventional Boiler Use	--	*	*	W	4	*	0	--	12.8
	CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--	4.6
	Direct Uses-Total Process	--	5	*	Q	5	*	0	--	9.4
	Process Heating	--	*	*	*	2	*	0	--	8.9
	Process Cooling and Refrigeration	--	*	0	*	*	0	0	--	7.8
	Machine Drive	--	4	0	*	W	*	0	--	6
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.2
	Other Process Use	--	0	0	0	W	0	0	--	4.6
	Direct Uses-Total Nonprocess	--	5	*	*	5	*	0	--	10.6
	Facility HVAC (g)	--	3	*	*	2	*	0	--	8.5
	Facility Lighting	--	2	--	--	--	--	--	--	1.5
	Other Facility Support	--	*	0	*	2	0	0	--	9.1
	Onsite Transportation	--	*	--	*	0	*	--	--	3
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1.4
	Other Nonprocess Use	--	0	0	*	0	0	0	--	4.6
	End Use Not Reported	W	2	0	W	3	*	0	*	46.1
316	**LEATHER AND ALLIED PRODUCTS**									
	RSE Column Factors:	0.3	1.9	0.2	1.9	2.1	2.7	0.6	NF	
	TOTAL FUEL CONSUMPTION	7	2	*	*	4	*	0	*	8.7
	Indirect Uses-Boiler Fuel	--	*	*	*	3	*	0	--	3.6
	Conventional Boiler Use	--	*	*	*	3	*	0	--	3.6
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	3.3
	Direct Uses-Total Process	--	2	*	*	*	*	0	--	7.5
	Process Heating	--	*	*	*	*	*	0	--	6.4
	Process Cooling and Refrigeration	--	1	0	0	0	0	0	--	8.8
	Machine Drive	--	1	0	*	0	*	0	--	8.7
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1.1
	Other Process Use	--	0	0	0	0	0	0	--	3.3
	Direct Uses-Total Nonprocess	--	1	*	*	1	*	0	--	6.4

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Facility HVAC (g)	--	*	*	*	1	*	0	--	7.8
	Facility Lighting	--	*	--	--	--	--	--	--	1.4
	Other Facility Support	--	*	0	0	*	*	0	--	9
	Onsite Transportation	--	*	--	*	*	*	--	--	2.5
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1.3
	Other Nonprocess Use	--	0	0	0	0	0	0	--	3.3
	End Use Not Reported	*	*	0	*	*	*	0	*	23.2
321	**WOOD PRODUCTS**									
	RSE Column Factors:	0.3	1.9	1	2	1.5	1.5	0.3	NF	
	TOTAL FUEL CONSUMPTION	375	72	1	10	57	5	1	229	4.8
	Indirect Uses-Boiler Fuel	--	*	1	1	15	*	1	--	5.8
	Conventional Boiler Use	--	*	1	1	15	*	1	--	5.8
	CHP and/or Cogeneration Process	--	*	0	*	*	0	*	--	1.4
	Direct Uses-Total Process	--	54	*	2	30	W	0	--	3.1
	Process Heating	--	4	*	*	28	W	0	--	3.1
	Process Cooling and Refrigeration	--	*	0	*	*	0	0	--	3.4
	Machine Drive	--	50	0	2	1	*	0	--	7.6
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.7
	Other Process Use	--	*	0	*	1	*	0	--	5.1
	Direct Uses-Total Nonprocess	--	W	0	5	8	2	0	--	3.9
	Facility HVAC (g)	--	5	0	*	7	*	0	--	7.7
	Facility Lighting	--	5	--	--	--	--	--	--	1.3
	Other Facility Support	--	W	0	*	*	*	0	--	8
	Onsite Transportation	--	*	--	5	*	2	--	--	3.4
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	2.1
	Other Nonprocess Use	--	*	0	*	1	*	0	--	1.9
	End Use Not Reported	241	W	*	2	4	W	0	229	14.9
321113	**Sawmills**									
	RSE Column Factors:	0.3	1.5	0.3	1.9	2.8	3	0.5	NF	
	TOTAL FUEL CONSUMPTION	128	20	*	5	10	1	0	92	5.3
	Indirect Uses-Boiler Fuel	--	*	*	*	W	0	0	--	7
	Conventional Boiler Use	--	*	*	*	W	0	0	--	7
	CHP and/or Cogeneration Process	--	*	0	*	*	0	0	--	1.6
	Direct Uses-Total Process	--	16	*	1	W	*	0	--	4.2
	Process Heating	--	1	*	*	W	*	0	--	4.7
	Process Cooling and Refrigeration	--	*	0	*	*	0	0	--	2.4
	Machine Drive	--	15	0	1	*	*	0	--	7
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.7
	Other Process Use	--	*	0	*	0	0	0	--	3.1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Direct Uses-Total Nonprocess	--	W	0	3	*	*	0	--	4.4
	Facility HVAC (g)	--	W	0	*	*	*	0	--	6.6
	Facility Lighting	--	W	--	--	--	--	--	--	1.2
	Other Facility Support	--	*	0	*	*	*	0	--	4.2
	Onsite Transportation	--	*	--	2	0	*	--	--	3.7
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	3.5
	Other Nonprocess Use	--	*	0	*	0	0	0	--	1.3
	End Use Not Reported	W	W	0	1	*	*	0	92	14
3212	**Veneer, Plywood, and Engineered Woods**									
	RSE Column Factors:	0.3	1.6	2.1	2	1	1.2	0.4	NF	
	TOTAL FUEL CONSUMPTION	167	33	1	2	33	3	1	95	5.7
	Indirect Uses-Boiler Fuel	--	*	1	*	W	*	1	--	3.1
	Conventional Boiler Use	--	*	1	*	W	*	1	--	3.1
	CHP and/or Cogeneration Process	--	*	0	0	*	0	*	--	1.5
	Direct Uses-Total Process	--	27	0	*	21	W	0	--	5.2
	Process Heating	--	2	0	*	19	W	0	--	5.8
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--	5
	Machine Drive	--	24	0	*	Q	*	0	--	6.9
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1.1
	Other Process Use	--	*	0	*	1	*	0	--	6.3
	Direct Uses-Total Nonprocess	--	W	0	1	4	1	0	--	5.7
	Facility HVAC (g)	--	W	0	*	2	*	0	--	10.4
	Facility Lighting	--	W	--	--	--	--	--	--	1.4
	Other Facility Support	--	W	0	*	*	*	0	--	4.5
	Onsite Transportation	--	*	--	1	*	1	--	--	2.5
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	3.3
	Other Nonprocess Use	--	*	0	*	1	*	0	--	2.5
	End Use Not Reported	99	W	*	*	W	W	0	95	11.6
3219	**Other Wood Products**									
	RSE Column Factors:	0.3	1.8	0.5	2.4	1.4	2.1	0.5	NF	
	TOTAL FUEL CONSUMPTION	73	18	*	2	11	1	0	40	7.3
	Indirect Uses-Boiler Fuel	--	*	*	*	2	*	0	--	9.6
	ConventioNFl Boiler Use	--	*	*	*	2	*	0	--	9.7
	CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--	1.5
	Direct Uses-Total Process	--	12	0	1	4	*	0	--	7.3
	Process Heating	--	1	0	*	4	*	0	--	7
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--	4.1
	Machine Drive	--	11	0	1	*	*	0	--	9.7
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1.1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Other Process Use	--	0	0	*	*	0	0	--	1.5
	Direct Uses-Total Nonprocess	--	4	0	1	4	1	0	--	6.5
	Facility HVAC (g)	--	2	0	*	4	*	0	--	7.7
	Facility Lighting	--	2	--	--	--	--	--	--	1.3
	Other Facility Support	--	*	0	*	*	*	0	--	4.8
	Onsite Transportation	--	*	--	1	*	1	--	--	5
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	1.9
	Other Nonprocess Use	--	*	0	*	0	0	0	--	1.2
	End Use Not Reported	45	2	*	*	1	*	0	40	18.4
322	**PAPER**									
	RSE Column Factors:	0.4	1.8	0.8	1.1	1.3	2.5	0.5	NF	
	TOTAL FUEL CONSUMPTION	2,361	223	100	13	504	6	234	1,280	2.5
	Indirect Uses-Boiler Fuel	--	3	69	9	306	*	214	--	3
	Conventional Boiler Use	--	1	29	2	143	*	38	--	3.9
	CHP and/or Cogeneration Process	--	3	40	7	162	0	176	--	1.7
	Direct Uses-Total Process	--	195	27	2	154	1	W	--	3.4
	Process Heating	--	5	25	2	130	1	W	--	3.8
	Process Cooling and Refrigeration	--	4	*	*	3	0	*	--	2
	Machine Drive	--	184	2	*	19	*	5	--	4.3
	Electro-Chemical Processes	--	2	--	--	--	--	--	--	1.5
	Other Process Use	--	1	*	*	2	*	W	--	2.6
	Direct Uses-Total Nonprocess	--	21	1	2	29	3	W	--	3.9
	Facility HVAC (g)	--	10	*	*	19	*	W	--	5.1
	Facility Lighting	--	10	--	--	--	--	--	--	1.2
	Other Facility Support	--	2	*	*	*	*	0	--	2.3
	Onsite Transportation	--	*	--	2	*	2	--	--	3.7
	Conventional Electricity Generation	--	--	1	*	9	*	4	--	1
	Other Nonprocess Use	--	*	*	*	Q	*	0	--	3.3
	End Use Not Reported	W	4	3	*	15	Q	W	1,280	10.8
322110	**Pulp Mills**									
	RSE Column Factors:	1	1.1	1.1	0.9	0.9	1	1	NF	
	TOTAL FUEL CONSUMPTION	224	5	W	5	24	*	W	175	1
	Indirect Uses-Boiler Fuel	--	1	W	5	14	*	W	--	1.1
	Conventional Boiler Use	--	*	W	*	5	*	0	--	1.3
	CHP and/or Cogeneration Process	--	1	6	5	9	0	W	--	1
	Direct Uses-Total Process	--	4	3	*	10	*	W	--	1
	Process Heating	--	*	3	*	9	*	W	--	1
	Process Cooling and Refrigeration	--	*	*	*	0	0	0	--	1
	Machine Drive	--	4	*	*	*	0	*	--	1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	*	*	*	*	0	W	--	1
	Direct Uses-Total Nonprocess	--	*	*	*	*	*	*	--	1.2
	Facility HVAC (g)	--	*	*	*	*	*	*	--	1
	Facility Lighting	--	*	--	--	--	--	--	--	1.1
	Other Facility Support	--	*	*	*	0	*	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1.1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1
	Other Nonprocess Use	--	0	*	0	0	0	0	--	1
	End Use Not Reported	175	0	0	0	0	*	0	175	1
322121	**Paper Mills, except Newsprint**									
	RSE Column Factors:	0.4	1.1	1.8	1.4	1	1.4	0.6	NF	
	TOTAL FUEL CONSUMPTION	1,002	78	47	4	206	1	139	526	2.3
	Indirect Uses-Boiler Fuel	--	1	31	1	127	*	130	--	3
	Conventional Boiler Use	--	*	11	*	56	*	23	--	3.1
	CHP and/or Cogeneration Process	--	1	21	1	71	0	107	--	1.3
	Direct Uses-Total Process	--	71	14	1	71	1	W	--	3.2
	Process Heating	--	2	14	1	57	*	W	--	3.4
	Process Cooling and Refrigeration	--	1	0	*	3	0	*	--	1.8
	Machine Drive	--	68	*	*	10	*	W	--	1.5
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	*	*	*	1	*	0	--	4.4
	Direct Uses-Total Nonprocess	--	5	1	1	6	1	W	--	2.2
	Facility HVAC (g)	--	2	*	*	5	*	W	--	5
	Facility Lighting	--	2	--	--	--	--	--	--	1.1
	Other Facility Support	--	*	0	*	*	0	0	--	1.9
	Onsite Transportation	--	*	--	1	0	1	--	--	1.2
	Conventional Electricity Generation	--	--	*	*	1	*	1	--	1
	Other Nonprocess Use	--	*	0	*	*	0	0	--	2.9
	End Use Not Reported	W	1	1	*	2	*	W	526	12.4
322122	**Newsprint Mills**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	94	38	W	*	16	*	W	27	1
	Indirect Uses-Boiler Fuel	--	*	W	*	10	*	W	--	1
	Conventional Boiler Use	--	0	W	*	3	*	W	--	1
	CHP and/or Cogeneration Process	--	*	0	0	7	0	W	--	1
	Direct Uses-Total Process	--	36	0	*	W	0	W	--	1
	Process Heating	--	*	0	0	W	0	0	--	1
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--	1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Machine Drive	--	34	0	*	0	0	0	--	1
	Electro-Chemical Processes	--	1	--	--	--	--	--	--	1
	Other Process Use	--	*	0	0	*	0	W	--	1
	Direct Uses-Total Nonprocess	--	W	0	*	*	*	W	--	1
	Facility HVAC (g)	--	1	0	0	*	0	W	--	1
	Facility Lighting	--	W	--	--	--	--	--	--	1
	Other Facility Support	--	*	0	0	*	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1
	End Use Not Reported	W	W	0	*	W	*	W	27	1
322130	**Paperboard Mills**									
	RSE Column Factors:	0.5	2.5	1.1	1	1	0.9	0.8	NF	
	TOTAL FUEL CONSUMPTION	907	56	34	4	188	*	83	542	2.5
	Indirect Uses-Boiler Fuel	--	1	22	1	129	*	76	--	2.5
	Conventional Boiler Use	--	*	8	1	54	*	W	--	3.5
	CHP and/or Cogeneration Process	--	1	14	1	75	0	W	--	1.5
	Direct Uses-Total Process	--	50	10	*	44	*	W	--	2.7
	Process Heating	--	1	8	*	37	*	W	--	1.6
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--	1.2
	Machine Drive	--	50	2	*	8	*	W	--	3.1
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	*	0	*	*	*	0	--	2.2
	Direct Uses-Total Nonprocess	--	4	*	1	10	*	3	--	1.8
	Facility HVAC (g)	--	2	*	0	2	*	*	--	2.9
	Facility Lighting	--	2	--	--	--	--	--	--	1.3
	Other Facility Support	--	*	*	*	*	*	0	--	1.3
	Onsite Transportation	--	*	--	1	0	*	--	--	2.8
	Conventional Electricity Generation	--	--	0	*	8	0	3	--	1
	Other Nonprocess Use	--	*	0	*	0	0	0	--	0.9
	End Use Not Reported	W	1	2	*	5	*	W	542	4.4
323	**PRINTING AND RELATED SUPPORT**									
	RSE Column Factors:	0.3	2.5	0.5	2.2	1.6	1.7	0.5	NF	
	TOTAL FUEL CONSUMPTION	98	50	*	*	46	1	0	1	7.8
	Indirect Uses-Boiler Fuel	--	*	0	*	W	*	0	--	7.5
	Conventional Boiler Use	--	*	0	*	6	*	0	--	7.8
	CHP and/or Cogeneration Process	--	0	0	0	W	0	0	--	1.5
	Direct Uses-Total Process	--	28	*	*	20	*	0	--	4.8
	Process Heating	--	1	*	0	19	*	0	--	6.7

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Process Cooling and Refrigeration	--	2	0	0	*	0	0	--	4.6
	Machine Drive	--	25	0	*	1	*	0	--	5.2
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.6
	Other Process Use	--	*	0	*	*	*	0	--	8.1
	Direct Uses-Total Nonprocess	--	16	*	*	16	1	0	--	7.7
	Facility HVAC (g)	--	9	*	*	15	*	0	--	5.3
	Facility Lighting	--	6	--	--	--	--	--	--	1.3
	Other Facility Support	--	1	0	*	1	*	0	--	4.4
	Onsite Transportation	--	*	--	*	*	*	--	--	4.3
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	0.9
	Other Nonprocess Use	--	*	0	*	*	0	0	--	7.2
	End Use Not Reported	W	6	0	*	W	*	0	1	18.6
324	**PETROLEUM AND COAL PRODUCTS**									
	RSE Column Factors:	0.3	1.3	1.1	2	1.2	1.3	0.7	NF	
	TOTAL FUEL CONSUMPTION	3,202	127	25	16	878	24	13	2,119	4.6
	Indirect Uses-Boiler Fuel	--	1	11	2	289	5	5	--	4.6
	Conventional Boiler Use	--	1	6	2	154	5	2	--	6.1
	CHP and/or Cogeneration Process	--	*	5	1	135	*	3	--	1.5
	Direct Uses-Total Process	--	119	7	9	544	18	4	--	6.1
	Process Heating	--	10	7	7	526	18	4	--	6.3
	Process Cooling and Refrigeration	--	5	0	*	2	*	0	--	1.2
	Machine Drive	--	103	0	1	12	Q	0	--	5.3
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.2
	Other Process Use	--	*	0	*	4	*	0	--	4
	Direct Uses-Total Nonprocess	--	8	0	2	38	*	4	--	3.1
	Facility HVAC (g)	--	4	0	*	7	*	W	--	5.8
	Facility Lighting	--	3	--	--	--	--	--	--	1.2
	Other Facility Support	--	*	0	*	2	*	0	--	4
	Onsite Transportation	--	*	--	1	*	*	--	--	5.7
	Conventional Electricity Generation	--	--	0	*	29	*	W	--	1.3
	Other Nonprocess Use	--	*	0	*	*	*	0	--	3.6
	End Use Not Reported	2,134	*	7	Q	7	*	0	2,119	7.2
324110	**Petroleum Refineries**									
	RSE Column Factors:	0.4	1.1	1.3	0.6	0.9	0.8	4.1	NF	
	TOTAL FUEL CONSUMPTION	3,086	121	21	5	821	20	1	2,097	3.8
	Indirect Uses-Boiler Fuel	--	1	10	2	278	5	*	--	3.6
	Conventional Boiler Use	--	1	5	2	143	4	*	--	4.4
	CHP and/or Cogeneration Process	--	*	5	1	135	*	*	--	2.2
	Direct Uses-Total Process	--	113	4	1	506	15	1	--	4.4

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Process Heating	--	9	4	1	490	15	1	--	4.6
	Process Cooling and Refrigeration	--	5	0	*	2	*	0	--	1.8
	Machine Drive	--	98	0	*	11	*	0	--	7.4
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	*	0	0	3	*	0	--	2.2
	Direct Uses-Total Nonprocess	--	7	0	1	35	*	0	--	2
	Facility HVAC (g)	--	4	0	0	5	*	0	--	2.5
	Facility Lighting	--	3	--	--	--	--	--	--	1.2
	Other Facility Support	--	*	0	*	1	*	0	--	5.3
	Onsite Transportation	--	*	--	1	*	*	--	--	1.8
	Conventional Electricity Generation	--	--	0	*	29	*	0	--	1.9
	Other Nonprocess Use	--	0	0	*	*	0	0	--	1.7
	End Use Not Reported	2,106	*	7	*	2	0	0	2,097	4.1
324199	**Other Petroleum and Coal Products**									
	RSE Column Factors:	0.9	1.1	0.8	2	0.9	0.8	0.8	NF	
	TOTAL FUEL CONSUMPTION	34	-2	*	*	5	*	11	19	1.6
	Indirect Uses-Boiler Fuel	--	*	*	0	1	0	W	--	1.1
	Conventional Boiler Use	--	*	*	0	1	0	W	--	1.1
	CHP and/or Cogeneration Process	--	*	0	0	*	0	W	--	1.1
	Direct Uses-Total Process	--	1	*	*	4	*	W	--	1.2
	Process Heating	--	*	*	*	3	*	W	--	1
	Process Cooling and Refrigeration	--	*	0	*	0	0	0	--	0.8
	Machine Drive	--	*	0	*	*	*	0	--	1.4
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	0	0	0	*	0	0	--	1.1
	Direct Uses-Total Nonprocess	--	*	0	*	*	*	4	--	1.7
	Facility HVAC (g)	--	*	0	0	*	*	W	--	1.1
	Facility Lighting	--	*	--	--	--	--	--	--	1
	Other Facility Support	--	*	0	0	*	*	0	--	1.1
	Onsite Transportation	--	0	--	*	0	*	--	--	1.9
	Conventional Electricity Generation	--	--	0	*	*	0	W	--	0.9
	Other Nonprocess Use	--	0	0	*	0	0	0	--	0.7
	End Use Not Reported	17	S	0	*	0	0	0	19	0.8
325	**CHEMICALS**									
	RSE Column Factors:	0.3	1.1	0.6	3	0.8	1.1	2	NF	
	TOTAL FUEL CONSUMPTION	3,767	522	41	14	1,678	37	314	1,159	5.7
	Indirect Uses-Boiler Fuel	--	3	19	W	927	W	300	--	6.3
	Conventional Boiler Use	--	2	W	W	451	W	88	--	4.7
	CHP and/or Cogeneration Process	--	*	W	1	476	*	212	--	3.5

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Direct Uses-Total Process	--	443	16	3	684	W	10	--	5.6
	Process Heating	--	20	16	2	588	W	W	--	6
	Process Cooling and Refrigeration	--	49	0	*	25	*	0	--	3.1
	Machine Drive	--	300	*	1	43	W	0	--	4.7
	Electro-Chemical Processes	--	74	--	--	--	--	--	--	1
	Other Process Use	--	1	*	*	28	*	W	--	7.4
	Direct Uses-Total Nonprocess	--	65	W	W	47	W	W	--	7.8
	Facility HVAC (g)	--	34	W	1	33	W	W	--	7.8
	Facility Lighting	--	24	--	--	--	--	--	--	1.2
	Other Facility Support	--	6	*	*	3	*	*	--	5.5
	Onsite Transportation	--	1	--	W	1	W	--	--	3.8
	Conventional Electricity Generation	--	--	0	*	7	*	0	--	2
	Other Nonprocess Use	--	*	*	*	3	*	0	--	4.6
	End Use Not Reported	W	11	W	W	20	W	W	1,159	12.8
325110	**Petrochemicals**									
	RSE Column Factors:	0.9	0.9	1	1.3	0.9	0.9	1	NF	
	TOTAL FUEL CONSUMPTION	474	W	W	*	172	W	W	233	1.1
	Indirect Uses-Boiler Fuel	--	1	W	*	55	W	W	--	1
	Conventional Boiler Use	--	1	W	*	36	W	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	19	*	W	--	1.1
	Direct Uses-Total Process	--	13	0	*	110	W	0	--	1
	Process Heating	--	1	0	0	W	W	0	--	1.1
	Process Cooling and Refrigeration	--	2	0	0	1	0	0	--	1.1
	Machine Drive	--	8	0	*	W	*	0	--	1
	Electro-Chemical Processes	--	1	--	--	--	--	--	--	1
	Other Process Use	--	*	0	0	*	0	0	--	1.1
	Direct Uses-Total Nonprocess	--	W	0	*	5	W	0	--	1.9
	Facility HVAC (g)	--	1	0	*	W	W	0	--	1.1
	Facility Lighting	--	1	--	--	--	--	--	--	1
	Other Facility Support	--	W	0	0	1	0	0	--	1.1
	Onsite Transportation	--	*	--	*	1	0	--	--	1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1.1
	Other Nonprocess Use	--	0	0	*	W	0	0	--	0.9
	End Use Not Reported	237	2	0	*	2	0	0	233	1
325120	**Industrial Gases**									
	RSE Column Factors:	0.7	4.9	0.7	0.5	2	0.8	0.7	NF	
	TOTAL FUEL CONSUMPTION	177	W	0	*	52	*	0	W	5.8
	Indirect Uses-Boiler Fuel	--	0	0	*	45	*	0	--	1.8
	Conventional Boiler Use	--	0	0	*	W	*	0	--	2.6

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	CHP and/or Cogeneration Process	--	0	0	0	W	0	0	--	0.9
	Direct Uses-Total Process	--	71	0	*	W	*	0	--	1.6
	Process Heating	--	1	0	*	7	*	0	--	1.6
	Process Cooling and Refrigeration	--	8	0	*	*	*	0	--	1.8
	Machine Drive	--	63	0	*	W	*	0	--	2.2
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.7
	Other Process Use	--	0	0	0	*	0	0	--	0.9
	Direct Uses-Total Nonprocess	--	W	0	*	*	*	0	--	4.2
	Facility HVAC (g)	--	2	0	*	*	*	0	--	2.4
	Facility Lighting	--	1	--	--	--	--	--	--	1.3
	Other Facility Support	--	W	0	*	*	*	0	--	2.8
	Onsite Transportation	--	0	--	*	0	*	--	--	1.6
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	0.8
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1.5
	End Use Not Reported	W	1	0	*	*	0	0	W	4.1
325181	**Alkalies and Chlorine**									
	RSE Column Factors:	1	1	1	0.9	1	0.9	1.3	NF	
	TOTAL FUEL CONSUMPTION	173	42	*	*	94	*	20	16	1.6
	Indirect Uses-Boiler Fuel	--	*	*	*	79	0	18	--	1
	Conventional Boiler Use	--	*	*	*	W	0	W	--	1
	CHP and/or Cogeneration Process	--	0	0	0	W	0	W	--	0.9
	Direct Uses-Total Process	--	41	*	*	W	*	Q	--	1.2
	Process Heating	--	*	*	*	W	0	Q	--	1.2
	Process Cooling and Refrigeration	--	1	0	0	0	0	0	--	1
	Machine Drive	--	7	0	*	0	*	0	--	1.3
	Electro-Chemical Processes	--	32	--	--	--	--	--	--	1
	Other Process Use	--	0	0	0	1	0	0	--	1
	Direct Uses-Total Nonprocess	--	1	0	*	W	*	0	--	1
	Facility HVAC (g)	--	1	0	0	W	*	0	--	1
	Facility Lighting	--	1	--	--	--	--	--	--	1.1
	Other Facility Support	--	*	0	0	0	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1
	Other Nonprocess Use	--	0	0	*	*	0	0	--	1
	End Use Not Reported	W	*	0	0	W	0	0	16	1
325182	**Carbon Black**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	39	2	11	*	10	*	0	16	1
	Indirect Uses-Boiler Fuel	--	*	0	0	2	0	0	--	1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Conventional Boiler Use	--	*	0	0	2	0	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--	1
	Direct Uses-Total Process	--	2	W	*	7	*	0	--	1
	Process Heating	--	*	W	0	7	0	0	--	1
	Process Cooling and Refrigeration	--	*	0	0	*	0	0	--	1
	Machine Drive	--	2	0	*	*	*	0	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	0	0	*	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	*	0	*	*	*	0	--	1
	Facility HVAC (g)	--	*	0	0	*	0	0	--	1
	Facility Lighting	--	*	--	--	--	--	--	--	1
	Other Facility Support	--	*	0	0	*	*	0	--	1
	Onsite Transportation	--	*	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1
	End Use Not Reported	W	0	W	0	0	*	0	16	1
325188	**Other Basic Inorganic Chemicals**									
	RSE Column Factors:	0.5	1.4	0.6	0.7	3	2.6	0.5	NF	
	TOTAL FUEL CONSUMPTION	210	88	2	2	68	*	19	30	3.2
	Indirect Uses-Boiler Fuel	--	*	*	*	20	*	W	--	2.9
	Conventional Boiler Use	--	*	*	*	17	*	W	--	2.7
	CHP and/or Cogeneration Process	--	*	0	*	3	0	W	--	2.6
	Direct Uses-Total Process	--	80	2	*	40	*	1	--	1.7
	Process Heating	--	2	2	*	39	*	W	--	2
	Process Cooling and Refrigeration	--	2	0	0	*	*	0	--	5.7
	Machine Drive	--	62	0	*	Q	*	0	--	2.8
	Electro-Chemical Processes	--	14	--	--	--	--	--	--	1
	Other Process Use	--	*	0	*	1	*	W	--	1.9
	Direct Uses-Total Nonprocess	--	7	*	W	3	*	W	--	2.4
	Facility HVAC (g)	--	4	0	*	2	*	W	--	3.2
	Facility Lighting	--	2	--	--	--	--	--	--	1.2
	Other Facility Support	--	*	0	0	*	*	0	--	2.2
	Onsite Transportation	--	*	--	W	0	*	--	--	1.8
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	1.2
	Other Nonprocess Use	--	*	*	0	*	*	0	--	4
	End Use Not Reported	W	2	*	W	6	*	1	30	4.5
325192	**Cyclic Crudes and Intermediates**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	72	12	*	*	37	*	0	23	1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Indirect Uses-Boiler Fuel	--	*	*	*	26	0	0	--	1
	Conventional Boiler Use	--	*	*	*	W	0	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	W	0	0	--	1
	Direct Uses-Total Process	--	10	*	*	W	*	0	--	1
	Process Heating	--	1	*	0	W	*	0	--	1
	Process Cooling and Refrigeration	--	2	0	0	0	*	0	--	1
	Machine Drive	--	6	0	*	0	0	0	--	1
	Electro-Chemical Processes	--	1	--	--	--	--	--	--	1
	Other Process Use	--	*	0	*	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	2	0	*	W	*	0	--	1
	Facility HVAC (g)	--	1	0	0	W	0	0	--	1
	Facility Lighting	--	*	--	--	--	--	--	--	1
	Other Facility Support	--	*	0	0	*	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1
	End Use Not Reported	23	0	0	*	*	*	0	23	1
325193	**Ethyl Alcohol**									
	RSE Column Factors:	1	1.7	0.9	0.6	1	0.6	1.7	NF	
	TOTAL FUEL CONSUMPTION	60	W	0	*	30	*	19	W	4.2
	Indirect Uses-Boiler Fuel	--	*	0	*	18	*	18	--	1.6
	Conventional Boiler Use	--	*	0	*	18	*	11	--	1.7
	CHP and/or Cogeneration Process	--	0	0	*	1	0	6	--	1
	Direct Uses-Total Process	--	4	0	*	10	*	1	--	2.1
	Process Heating	--	*	0	0	10	*	1	--	1.4
	Process Cooling and Refrigeration	--	*	0	0	0	*	0	--	1
	Machine Drive	--	4	0	*	0	0	0	--	2.4
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1.1
	Other Process Use	--	0	0	0	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	W	0	*	1	*	0	--	1.3
	Facility HVAC (g)	--	*	0	0	1	*	0	--	1
	Facility Lighting	--	*	--	--	--	--	--	--	1.3
	Other Facility Support	--	W	0	0	0	0	0	--	0.8
	Onsite Transportation	--	0	--	*	0	*	--	--	1.1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	0.8
	Other Nonprocess Use	--	0	0	0	*	0	0	--	1
	End Use Not Reported	W	0	0	0	1	*	0	W	3.8
325199	**Other Basic Organic Chemicals**									
	RSE Column Factors:	0.4	2.3	0.6	1.9	1	1.5	0.7	NF	

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	1,184	78	W	2	425	W	W	514	14.7
	Indirect Uses-Boiler Fuel	--	*	7	W	235	W	W	--	8.6
	Conventional Boiler Use	--	*	7	W	123	W	W	--	8.3
	CHP and/or Cogeneration Process	--	*	0	*	111	0	W	--	1.9
	Direct Uses-Total Process	--	68	W	*	180	W	0	--	6.1
	Process Heating	--	5	W	*	134	W	0	--	6.7
	Process Cooling and Refrigeration	--	10	0	*	21	*	0	--	1.9
	Machine Drive	--	42	0	*	6	*	0	--	4.5
	Electro-Chemical Processes	--	12	--	--	--	--	--	--	1.2
	Other Process Use	--	*	0	*	18	*	0	--	5.4
	Direct Uses-Total Nonprocess	--	9	W	*	10	W	0	--	6.9
	Facility HVAC (g)	--	4	W	*	6	*	0	--	4.7
	Facility Lighting	--	4	--	--	--	--	--	--	1.5
	Other Facility Support	--	1	0	*	1	*	0	--	2.1
	Onsite Transportation	--	*	--	*	*	W	--	--	2.9
	Conventional Electricity Generation	--	--	0	*	3	0	0	--	1.1
	Other Nonprocess Use	--	*	0	*	*	*	0	--	1
	End Use Not Reported	W	*	0	W	1	W	0	514	4.2
325211	**Plastics Materials and Resins**									
	RSE Column Factors:	0.3	1.6	0.5	1	1.1	2.4	1.3	NF	
	TOTAL FUEL CONSUMPTION	665	73	1	1	348	*	27	214	9.8
	Indirect Uses-Boiler Fuel	--	1	*	W	243	*	26	--	3.3
	Conventional Boiler Use	--	1	*	W	48	*	13	--	2.1
	CHP and/or Cogeneration Process	--	0	0	0	194	0	Q	--	1.6
	Direct Uses-Total Process	--	65	*	*	97	*	0	--	3.3
	Process Heating	--	4	*	*	91	*	0	--	4.2
	Process Cooling and Refrigeration	--	8	0	*	1	*	0	--	1.4
	Machine Drive	--	43	0	*	2	*	0	--	4.6
	Electro-Chemical Processes	--	10	--	--	--	--	--	--	1.2
	Other Process Use	--	*	0	*	2	*	0	--	11.2
	Direct Uses-Total Nonprocess	--	7	*	*	5	*	0	--	4.9
	Facility HVAC (g)	--	3	*	*	W	*	0	--	5.8
	Facility Lighting	--	3	--	--	--	--	--	--	1.2
	Other Facility Support	--	1	0	*	*	*	0	--	2.3
	Onsite Transportation	--	*	--	*	*	*	--	--	4
	Conventional Electricity Generation	--	--	0	*	1	0	0	--	1.6
	Other Nonprocess Use	--	*	0	*	W	*	0	--	4.5
	End Use Not Reported	W	W	*	W	3	*	Q	214	10.1
325212	**Synthetic Rubber**									
	RSE Column Factors:	0.3	2.6	4.1	0.8	1	1.2	0.3	NF	

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	52	6	*	*	28	*	5	12	10.4
	Indirect Uses-Boiler Fuel	--	*	*	*	24	0	3	--	7.5
	Conventional Boiler Use	--	*	*	*	W	0	W	--	8.4
	CHP and/or Cogeneration Process	--	0	0	0	W	0	W	--	2.2
	Direct Uses-Total Process	--	5	*	*	W	*	2	--	3.7
	Process Heating	--	*	*	*	2	*	2	--	3.5
	Process Cooling and Refrigeration	--	1	0	0	W	0	0	--	2.7
	Machine Drive	--	4	0	*	W	*	0	--	3.3
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1.2
	Other Process Use	--	0	*	0	*	0	0	--	5.2
	Direct Uses-Total Nonprocess	--	1	*	*	W	*	*	--	4.1
	Facility HVAC (g)	--	1	*	0	W	0	*	--	5.7
	Facility Lighting	--	*	--	--	--	--	--	--	1.5
	Other Facility Support	--	*	0	0	*	*	0	--	4.9
	Onsite Transportation	--	*	--	*	0	*	--	--	1.3
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1.1
	Other Nonprocess Use	--	*	0	0	*	0	0	--	1.7
	End Use Not Reported	W	*	0	*	W	*	0	12	3.3
325222	**Noncellulosic Organic Fibers**									
	RSE Column Factors:	0.8	0.8	1.6	0.8	0.8	1.5	0.9	NF	
	TOTAL FUEL CONSUMPTION	61	W	W	*	30	*	W	3	1.8
	Indirect Uses-Boiler Fuel	--	*	W	*	21	*	W	--	1.2
	Conventional Boiler Use	--	*	W	*	W	*	W	--	1.2
	CHP and/or Cogeneration Process	--	*	W	*	W	0	W	--	1.1
	Direct Uses-Total Process	--	12	W	*	8	*	0	--	1.5
	Process Heating	--	2	W	*	8	*	0	--	1.6
	Process Cooling and Refrigeration	--	3	0	0	*	0	0	--	1.2
	Machine Drive	--	7	*	*	0	*	0	--	0.9
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	*	0	0	*	0	0	--	1.2
	Direct Uses-Total Nonprocess	--	W	W	*	*	*	0	--	1.7
	Facility HVAC (g)	--	1	W	*	*	*	0	--	1.1
	Facility Lighting	--	1	--	--	--	--	--	--	1
	Other Facility Support	--	W	*	*	*	0	0	--	1.1
	Onsite Transportation	--	0	--	*	0	*	--	--	0.9
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	1.2
	Other Nonprocess Use	--	*	0	*	0	0	0	--	1.2
	End Use Not Reported	3	*	0	*	*	*	0	3	1.1
325311	**Nitrogenous Fertilizers**									

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	205	12	0	*	189	*	0	4	1
	Indirect Uses-Boiler Fuel	--	*	0	*	54	*	0	--	1
	Conventional Boiler Use	--	*	0	*	46	*	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	7	0	0	--	1
	Direct Uses-Total Process	--	10	0	*	133	*	0	--	1
	Process Heating	--	*	0	0	124	*	0	--	1
	Process Cooling and Refrigeration	--	1	0	0	0	0	0	--	1
	Machine Drive	--	9	0	*	8	*	0	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	*	0	0	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	1	0	*	3	*	0	--	1
	Facility HVAC (g)	--	*	0	0	1	*	0	--	1
	Facility Lighting	--	*	--	--	--	--	--	--	1
	Other Facility Support	--	*	0	0	0	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	0	2	0	0	--	1
	Other Nonprocess Use	--	0	0	*	0	0	0	--	1
	End Use Not Reported	4	1	0	*	0	*	0	4	1
325312	**Phosphatic Fertilizers**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	27	3	1	1	19	*	1	2	1
	Indirect Uses-Boiler Fuel	--	*	*	*	4	0	0	--	1
	Conventional Boiler Use	--	*	*	*	4	0	0	--	1
	CHP and/or Cogeneration Process	--	0	*	*	*	0	0	--	1
	Direct Uses-Total Process	--	3	1	*	14	*	1	--	1
	Process Heating	--	*	1	*	14	*	1	--	1
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--	1
	Machine Drive	--	3	0	*	0	0	0	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	0	0	0	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	*	0	*	*	*	0	--	1
	Facility HVAC (g)	--	*	0	0	*	0	0	--	1
	Facility Lighting	--	*	--	--	--	--	--	--	1
	Other Facility Support	--	*	0	0	0	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1
	Other Nonprocess Use	--	*	0	*	0	0	0	--	1
	End Use Not Reported	2	*	0	0	0	*	0	2	1
3254	**Pharmaceuticals and Medicines**									

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	RSE Column Factors:	0.4	2.1	0.6	2.9	1.8	1.2	0.3	NF	
	TOTAL FUEL CONSUMPTION	121	37	2	3	62	*	9	9	4.3
	Indirect Uses-Boiler Fuel	--	*	2	2	45	*	9	--	4.5
	Conventional Boiler Use	--	*	W	2	27	*	9	--	5.6
	CHP and/or Cogeneration Process	--	0	W	*	18	0	0	--	1
	Direct Uses-Total Process	--	19	0	*	9	*	0	--	5.7
	Process Heating	--	1	0	*	8	*	0	--	3
	Process Cooling and Refrigeration	--	6	0	*	*	0	0	--	3.1
	Machine Drive	--	11	0	*	*	*	0	--	7.4
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.5
	Other Process Use	--	*	0	*	*	0	0	--	5.2
	Direct Uses-Total Nonprocess	--	W	0	*	7	*	0	--	4
	Facility HVAC (g)	--	10	0	*	5	*	0	--	3.8
	Facility Lighting	--	W	--	--	--	--	--	--	1.2
	Other Facility Support	--	1	0	*	1	*	0	--	3.6
	Onsite Transportation	--	*	--	*	0	*	--	--	3.6
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	1
	Other Nonprocess Use	--	*	0	*	1	0	0	--	4.2
	End Use Not Reported	W	W	*	*	1	*	0	9	9.4
325412	**Pharmaceutical Preparation**									
	RSE Column Factors:	0.4	1.9	0.7	1.6	2	1.4	0.4	NF	
	TOTAL FUEL CONSUMPTION	84	28	2	1	40	*	9	4	5
	Indirect Uses-Boiler Fuel	--	*	2	*	28	0	9	--	3
	Conventional Boiler Use	--	*	W	*	18	0	9	--	3.6
	CHP and/or Cogeneration Process	--	0	W	*	9	0	0	--	1
	Direct Uses-Total Process	--	15	0	*	7	*	0	--	6.3
	Process Heating	--	1	0	*	6	*	0	--	3
	Process Cooling and Refrigeration	--	5	0	0	*	0	0	--	1.8
	Machine Drive	--	9	0	*	*	*	0	--	5.2
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.1
	Other Process Use	--	*	0	*	*	0	0	--	6.1
	Direct Uses-Total Nonprocess	--	W	0	*	5	*	0	--	6.9
	Facility HVAC (g)	--	W	0	*	4	*	0	--	5.7
	Facility Lighting	--	4	--	--	--	--	--	--	1.2
	Other Facility Support	--	1	0	*	*	*	0	--	2.8
	Onsite Transportation	--	*	--	*	0	*	--	--	3.5
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	0.8
	Other Nonprocess Use	--	*	0	*	1	0	0	--	3.9
	End Use Not Reported	W	W	0	*	1	*	0	4	14.4

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
325992	**Photographic Film, Paper, Plate, and Chemicals**									
	RSE Column Factors:	0.5	2.7	0.4	1.3	2	1.5	0.5	NF	
	TOTAL FUEL CONSUMPTION	29	W	1	*	7	*	W	*	6.6
	Indirect Uses-Boiler Fuel	--	*	1	*	5	0	W	--	3
	Conventional Boiler Use	--	*	1	*	2	0	0	--	4.7
	CHP and/or Cogeneration Process	--	*	*	*	3	0	W	--	1.1
	Direct Uses-Total Process	--	4	0	*	2	*	0	--	2.4
	Process Heating	--	*	0	*	1	*	0	--	2
	Process Cooling and Refrigeration	--	1	0	0	0	0	0	--	2.6
	Machine Drive	--	2	0	*	*	0	0	--	3.2
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	0	0	*	*	0	0	--	0.9
	Direct Uses-Total Nonprocess	--	W	0	*	1	*	0	--	7.6
	Facility HVAC (g)	--	1	0	*	1	*	0	--	2.9
	Facility Lighting	--	1	--	--	--	--	--	--	1.4
	Other Facility Support	--	W	0	*	*	0	0	--	2.8
	Onsite Transportation	--	*	--	*	0	*	--	--	3.4
	Conventional Electricity Generation	--	--	0	0	0	*	0	--	0.8
	Other Nonprocess Use	--	*	0	*	*	0	0	--	0.7
	End Use Not Reported	*	*	0	0	*	*	0	*	8
326	**PLASTICS AND RUBBER PRODUCTS**									
	RSE Column Factors:	0.2	1.2	1.5	2.4	1.6	2	0.4	NF	
	TOTAL FUEL CONSUMPTION	348	170	7	2	128	3	Q	5	7.9
	Indirect Uses-Boiler Fuel	--	*	5	1	50	W	Q	--	7.8
	Conventional Boiler Use	--	*	5	1	48	W	W	--	9.4
	CHP and/or Cogeneration Process	--	*	0	0	2	0	W	--	6.1
	Direct Uses-Total Process	--	134	2	*	39	W	0	--	9.2
	Process Heating	--	26	2	*	37	W	0	--	7.3
	Process Cooling and Refrigeration	--	14	0	0	1	0	0	--	8.5
	Machine Drive	--	91	*	*	1	*	0	--	5.5
	Electro-Chemical Processes	--	1	--	--	--	--	--	--	1.7
	Other Process Use	--	2	0	*	1	*	0	--	15.1
	Direct Uses-Total Nonprocess	--	36	1	1	28	W	0	--	7.4
	Facility HVAC (g)	--	17	1	*	24	W	0	--	9.8
	Facility Lighting	--	14	--	--	--	--	--	--	1.3
	Other Facility Support	--	4	0	*	1	*	0	--	9.8
	Onsite Transportation	--	*	--	*	*	2	--	--	3.9
	Conventional Electricity Generation	--	--	0	*	Q	*	0	--	3
	Other Nonprocess Use	--	*	0	*	1	*	0	--	13.1
	End Use Not Reported	W	*	0	*	12	W	0	5	22

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
327	**NONMETALLIC MINERAL PRODUCTS**									
	RSE Column Factors:	0.4	1.6	0.3	4.3	1.4	2.6	0.3	NF	
	TOTAL FUEL CONSUMPTION	1,052	142	3	31	421	3	309	144	4.5
	Indirect Uses-Boiler Fuel	--	*	*	W	13	*	W	--	5.4
	Conventional Boiler Use	--	*	*	W	10	*	W	--	6.6
	CHP and/or Cogeneration Process	--	*	*	*	3	0	W	--	1.9
	Direct Uses-Total Process	--	120	W	9	364	1	W	--	3.7
	Process Heating	--	29	W	4	358	1	W	--	3.3
	Process Cooling and Refrigeration	--	5	0	*	*	0	0	--	3.1
	Machine Drive	--	83	0	5	2	*	0	--	6.3
	Electro-Chemical Processes	--	Q	--	--	--	--	--	--	1.1
	Other Process Use	--	1	0	*	Q	*	0	--	1.5
	Direct Uses-Total Nonprocess	--	18	W	18	22	1	*	--	4.5
	Facility HVAC (g)	--	9	W	*	21	*	*	--	6.1
	Facility Lighting	--	7	--	--	--	--	--	--	1.3
	Other Facility Support	--	2	0	*	1	*	0	--	7.5
	Onsite Transportation	--	*	--	11	*	1	--	--	3.4
	Conventional Electricity Generation	--	--	0	Q	0	*	0	--	0.9
	Other Nonprocess Use	--	*	0	Q	*	*	0	--	1.4
	End Use Not Reported	174	4	W	W	23	*	*	144	8.6
3272	**Glass and Glass Products**									
	RSE Column Factors:	0.6	2.5	0.6	0.8	1.4	1.4	0.7	NF	
	TOTAL FUEL CONSUMPTION	200	42	W	W	152	1	0	4	3
	Indirect Uses-Boiler Fuel	--	*	*	W	2	*	0	--	1.6
	Conventional Boiler Use	--	*	*	W	2	*	0	--	1.6
	CHP and/or Cogeneration Process	--	0	0	*	*	0	0	--	1.7
	Direct Uses-Total Process	--	35	W	*	141	*	0	--	1.3
	Process Heating	--	16	W	*	138	*	0	--	1.4
	Process Cooling and Refrigeration	--	2	0	*	*	0	0	--	1.4
	Machine Drive	--	16	0	*	1	*	0	--	3.8
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.7
	Other Process Use	--	*	0	*	1	*	0	--	0.8
	Direct Uses-Total Nonprocess	--	6	W	*	7	*	0	--	1.9
	Facility HVAC (g)	--	3	W	*	7	*	0	--	1.8
	Facility Lighting	--	2	--	--	--	--	--	--	1.2
	Other Facility Support	--	*	0	*	*	*	0	--	2
	Onsite Transportation	--	*	--	*	*	*	--	--	1.4
	Conventional Electricity Generation	--	--	0	*	0	*	0	--	0.9
	Other Nonprocess Use	--	*	0	*	0	0	0	--	5.5

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	End Use Not Reported	7	1	0	*	2	*	0	4	29.8
327211	**Flat Glass**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	62	6	W	W	52	*	0	2	1
	Indirect Uses-Boiler Fuel	--	0	0	W	*	0	0	--	1
	Conventional Boiler Use	--	0	0	W	*	0	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Process	--	W	W	*	50	*	0	--	1
	Process Heating	--	W	W	*	50	*	0	--	1
	Process Cooling and Refrigeration	--	*	0	0	*	0	0	--	1
	Machine Drive	--	3	0	*	*	*	0	--	1
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	*	0	*	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	W	*	*	1	*	0	--	1
	Facility HVAC (g)	--	W	*	0	1	0	0	--	1
	Facility Lighting	--	*	--	--	--	--	--	--	1
	Other Facility Support	--	*	0	*	*	*	0	--	1
	Onsite Transportation	--	*	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1
	End Use Not Reported	2	0	0	0	0	*	0	2	1
327213	**Glass Containers**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	66	13	0	*	52	*	0	*	1
	Indirect Uses-Boiler Fuel	--	*	0	0	*	0	0	--	1
	Conventional Boiler Use	--	*	0	0	*	0	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Process	--	12	0	*	50	*	0	--	1
	Process Heating	--	4	0	0	49	*	0	--	1
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--	1
	Machine Drive	--	7	0	*	0	0	0	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	*	0	*	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	2	0	*	2	*	0	--	1
	Facility HVAC (g)	--	1	0	*	2	0	0	--	1
	Facility Lighting	--	1	--	--	--	--	--	--	1
	Other Facility Support	--	*	0	*	*	0	0	--	1
	Onsite Transportation	--	*	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1
	End Use Not Reported	*	0	0	0	0	0	0	*	1
327310	**Cements**									
	RSE Column Factors:	0.9	1	0.7	1.3	1.5	1.1	0.8	NF	
	TOTAL FUEL CONSUMPTION	410	43	1	6	21	*	236	103	2.1
	Indirect Uses-Boiler Fuel	--	*	0	W	W	*	W	--	1.1
	Conventional Boiler Use	--	0	0	W	*	*	W	--	1.1
	CHP and/or Cogeneration Process	--	*	0	0	W	0	0	--	0.9
	Direct Uses-Total Process	--	39	1	W	W	*	W	--	1.5
	Process Heating	--	3	1	W	W	*	W	--	1.5
	Process Cooling and Refrigeration	--	1	0	0	0	0	0	--	1.1
	Machine Drive	--	35	0	*	*	*	0	--	1
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	*	0	0	*	*	0	--	0.9
	Direct Uses-Total Nonprocess	--	3	0	W	1	*	*	--	2
	Facility HVAC (g)	--	1	0	*	1	*	*	--	2.2
	Facility Lighting	--	1	--	--	--	--	--	--	1.2
	Other Facility Support	--	*	0	*	*	*	0	--	0.9
	Onsite Transportation	--	*	--	W	0	*	--	--	1.6
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1
	Other Nonprocess Use	--	0	0	*	0	0	0	--	0.9
	End Use Not Reported	104	1	0	*	*	*	*	103	1.4
327410	**Lime**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	106	5	1	1	8	*	66	27	1
	Indirect Uses-Boiler Fuel	--	0	0	0	0	0	0	--	1
	Conventional Boiler Use	--	0	0	0	0	0	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Process	--	4	W	W	8	*	66	--	1
	Process Heating	--	1	W	W	7	*	66	--	1
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--	1
	Machine Drive	--	3	0	*	*	*	0	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Nonprocess	--	*	W	W	*	*	0	--	1
	Facility HVAC (g)	--	*	W	*	*	*	0	--	1
	Facility Lighting	--	*	--	--	--	--	--	--	1
	Other Facility Support	--	*	0	0	*	*	0	--	1
	Onsite Transportation	--	0	--	W	0	*	--	--	1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1
	Other Nonprocess Use	--	0	0	W	*	*	0	--	1
	End Use Not Reported	W	0	W	W	0	*	0	27	1
327993	**Mineral Wool**									
	RSE Column Factors:	0.9	1.4	0.9	0.6	1.2	1.2	0.9	NF	
	TOTAL FUEL CONSUMPTION	51	13	0	*	35	*	0	3	1.2
	Indirect Uses-Boiler Fuel	--	0	0	0	1	0	0	--	1
	Conventional Boiler Use	--	0	0	0	1	0	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1.2
	Direct Uses-Total Process	--	12	0	*	32	*	0	--	1.1
	Process Heating	--	5	0	*	32	*	0	--	1.2
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--	0.9
	Machine Drive	--	6	0	*	*	*	0	--	1.6
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	*	0	0	*	0	0	--	0.9
	Direct Uses-Total Nonprocess	--	1	0	*	2	*	0	--	1.6
	Facility HVAC (g)	--	*	0	*	2	*	0	--	1.6
	Facility Lighting	--	1	--	--	--	--	--	--	1.2
	Other Facility Support	--	*	0	*	*	0	0	--	1.7
	Onsite Transportation	--	*	--	*	0	*	--	--	1.1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1.1
	Other Nonprocess Use	--	0	0	0	0	*	0	--	1
	End Use Not Reported	3	*	0	*	*	*	0	3	7.5
331	**PRIMARY METALS**									
	RSE Column Factors:	0.4	1	1.6	1.3	1	1.4	0.8	NF	
	TOTAL FUEL CONSUMPTION	2,123	493	1	15	669	3	47	895	2.5
	Indirect Uses-Boiler Fuel	--	1	*	*	71	*	3	--	2.5
	Conventional Boiler Use	--	1	*	*	40	*	W	--	2.7
	CHP and/or Cogeneration Process	--	*	0	*	31	0	W	--	1.2
	Direct Uses-Total Process	--	453	*	9	540	1	37	--	3.5
	Process Heating	--	142	*	6	530	1	33	--	4.2
	Process Cooling and Refrigeration	--	4	0	0	1	0	0	--	2.4
	Machine Drive	--	149	*	W	W	*	0	--	3.7
	Electro-Chemical Processes	--	157	--	--	--	--	--	--	1
	Other Process Use	--	1	0	W	W	*	4	--	2.6
	Direct Uses-Total Nonprocess	--	37	*	W	53	1	W	--	1.8
	Facility HVAC (g)	--	18	*	*	45	*	*	--	3.2
	Facility Lighting	--	14	--	--	--	--	--	--	1.1
	Other Facility Support	--	3	0	*	5	*	0	--	3.7

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Onsite Transportation	--	*	--	W	*	1	--	--	2.2
	Conventional Electricity Generation	--	--	0	*	3	*	W	--	2
	Other Nonprocess Use	--	1	0	*	*	*	0	--	3.3
	End Use Not Reported	W	3	*	W	6	*	W	895	6.8
331111	**Iron and Steel Mills**									
	RSE Column Factors:	0.5	1.1	0.6	1.5	1	1.9	1.2	NF	
	TOTAL FUEL CONSUMPTION	1,455	184	1	10	388	*	36	836	3.3
	Indirect Uses-Boiler Fuel	--	1	*	*	39	*	W	--	1.3
	Conventional Boiler Use	--	*	*	*	23	*	W	--	1.4
	CHP and/or Cogeneration Process	--	*	0	*	16	0	W	--	1
	Direct Uses-Total Process	--	172	*	W	330	*	W	--	3.3
	Process Heating	--	79	*	W	329	*	33	--	1.9
	Process Cooling and Refrigeration	--	1	0	0	1	0	0	--	1.2
	Machine Drive	--	86	0	1	*	*	0	--	3.9
	Electro-Chemical Processes	--	5	--	--	--	--	--	--	1
	Other Process Use	--	*	0	*	*	0	1	--	2
	Direct Uses-Total Nonprocess	--	11	0	W	19	*	0	--	3.3
	Facility HVAC (g)	--	5	0	*	14	*	0	--	3.3
	Facility Lighting	--	5	--	--	--	--	--	--	1.2
	Other Facility Support	--	1	0	0	2	0	0	--	2.4
	Onsite Transportation	--	*	--	W	0	*	--	--	2.1
	Conventional Electricity Generation	--	--	0	0	2	0	0	--	1.2
	Other Nonprocess Use	--	0	0	*	0	0	0	--	5.5
	End Use Not Reported	W	Q	*	W	Q	*	0	836	2.2
331112	**Electrometallurgical Ferroalloy Products**									
	RSE Column Factors:	1	1.8	1	1.1	0.8	0.9	0.7	NF	
	TOTAL FUEL CONSUMPTION	24	12	0	*	7	*	2	2	3.4
	Indirect Uses-Boiler Fuel	--	*	0	0	*	*	0	--	0.9
	Conventional Boiler Use	--	*	0	0	*	*	0	--	0.9
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Process	--	11	0	*	6	0	2	--	1.6
	Process Heating	--	6	0	0	6	0	0	--	2.3
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--	0.8
	Machine Drive	--	1	0	*	0	0	0	--	2.2
	Electro-Chemical Processes	--	4	--	--	--	--	--	--	1
	Other Process Use	--	*	0	*	*	0	2	--	1
	Direct Uses-Total Nonprocess	--	1	0	*	1	*	0	--	0.9
	Facility HVAC (g)	--	1	0	*	1	*	0	--	0.9
	Facility Lighting	--	*	--	--	--	--	--	--	1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Other Facility Support	--	*	0	0	*	0	0	--	0.9
	Onsite Transportation	--	0	--	*	0	*	--	--	1.1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	0.8
	Other Nonprocess Use	--	*	0	0	0	0	0	--	0.8
	End Use Not Reported	2	0	0	*	*	0	0	2	4.1
3312	**Steel Products from Purchased Steel**									
	RSE Column Factors:	0.3	1.6	0.5	2	1.3	2.7	0.6	NF	
	TOTAL FUEL CONSUMPTION	41	16	*	*	24	*	0	1	10.9
	Indirect Uses-Boiler Fuel	--	*	*	*	W	*	0	--	3.9
	Conventional Boiler Use	--	*	*	*	W	*	0	--	3.9
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	3.5
	Direct Uses-Total Process	--	13	*	*	17	*	0	--	6.1
	Process Heating	--	W	*	*	W	*	0	--	7.9
	Process Cooling and Refrigeration	--	*	0	0	*	0	0	--	8.6
	Machine Drive	--	8	0	*	W	*	0	--	7.2
	Electro-Chemical Processes	--	1	--	--	--	--	--	--	1.1
	Other Process Use	--	*	0	*	0	0	0	--	10.6
	Direct Uses-Total Nonprocess	--	3	*	*	W	*	0	--	3.4
	Facility HVAC (g)	--	1	*	*	3	*	0	--	4.9
	Facility Lighting	--	1	--	--	--	--	--	--	1.4
	Other Facility Support	--	*	0	*	W	*	0	--	2.8
	Onsite Transportation	--	*	--	*	0	*	--	--	2.5
	Conventional Electricity Generation	--	--	0	0	0	*	0	--	3.2
	Other Nonprocess Use	--	*	0	*	0	0	0	--	3.4
	End Use Not Reported	W	*	0	*	W	*	0	1	29
3313	**Alumina and Aluminum**									
	RSE Column Factors:	0.4	1.8	0.4	1.6	1.6	2.2	0.5	NF	
	TOTAL FUEL CONSUMPTION	351	193	*	1	130	1	0	26	2.1
	Indirect Uses-Boiler Fuel	--	*	*	*	18	*	0	--	2.6
	Conventional Boiler Use	--	*	*	*	W	*	0	--	3.4
	CHP and/or Cogeneration Process	--	*	0	0	W	0	0	--	0.9
	Direct Uses-Total Process	--	185	0	*	104	*	0	--	1.9
	Process Heating	--	17	0	*	97	*	0	--	2.2
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--	5.2
	Machine Drive	--	24	0	*	W	*	0	--	3.6
	Electro-Chemical Processes	--	143	--	--	--	--	--	--	1
	Other Process Use	--	*	0	*	W	0	0	--	4.2
	Direct Uses-Total Nonprocess	--	8	0	1	W	*	0	--	3.2
	Facility HVAC (g)	--	4	0	*	6	*	0	--	1.8

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Facility Lighting	--	3	--	--	--	--	--	--	1.3
	Other Facility Support	--	1	0	0	W	0	0	--	7
	Onsite Transportation	--	*	--	1	*	*	--	--	4.8
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1.1
	Other Nonprocess Use	--	*	0	0	0	0	0	--	1.1
	End Use Not Reported	W	Q	*	*	W	*	0	26	6.5
331312	**Primary Aluminum**									
	RSE Column Factors:	1	1.1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	208	W	*	*	20	*	0	W	1
	Indirect Uses-Boiler Fuel	--	0	*	*	1	0	0	--	1
	Conventional Boiler Use	--	0	*	*	1	0	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Process	--	162	0	*	17	*	0	--	1
	Process Heating	--	W	0	*	W	*	0	--	1
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--	1
	Machine Drive	--	W	0	*	0	*	0	--	1
	Electro-Chemical Processes	--	142	--	--	--	--	--	--	1
	Other Process Use	--	0	0	0	W	0	0	--	1
	Direct Uses-Total Nonprocess	--	W	0	*	1	*	0	--	1
	Facility HVAC (g)	--	W	0	0	1	*	0	--	1
	Facility Lighting	--	2	--	--	--	--	--	--	1
	Other Facility Support	--	*	0	0	*	0	0	--	1.6
	Onsite Transportation	--	0	--	*	*	*	--	--	1
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	1
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1
	End Use Not Reported	W	0	0	0	0	0	0	W	1
3314	**Nonferrous Metals, except Aluminum**									
	RSE Column Factors:	0.4	2.1	0.9	1.4	1.4	1.5	0.4	NF	
	TOTAL FUEL CONSUMPTION	95	34	*	2	44	1	8	6	4.3
	Indirect Uses-Boiler Fuel	--	*	*	*	W	*	W	--	2.8
	Conventional Boiler Use	--	*	*	*	W	*	W	--	3
	CHP and/or Cogeneration Process	--	0	0	0	W	0	0	--	1.3
	Direct Uses-Total Process	--	29	0	W	30	*	*	--	2
	Process Heating	--	12	0	*	30	*	*	--	3.4
	Process Cooling and Refrigeration	--	1	0	0	0	0	0	--	2.4
	Machine Drive	--	12	0	W	*	*	0	--	2.2
	Electro-Chemical Processes	--	4	--	--	--	--	--	--	1
	Other Process Use	--	*	0	*	*	*	0	--	2.8
	Direct Uses-Total Nonprocess	--	4	*	W	W	*	W	--	3.3

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Facility HVAC (g)	--	2	*	*	4	*	0	--	3.6
	Facility Lighting	--	2	--	--	--	--	--	--	1.3
	Other Facility Support	--	*	0	0	W	*	0	--	2.7
	Onsite Transportation	--	*	--	W	*	*	--	--	3.8
	Conventional Electricity Generation	--	--	0	*	*	0	W	--	3.3
	Other Nonprocess Use	--	*	0	*	0	0	0	--	3.7
	End Use Not Reported	W	*	*	W	W	*	0	6	7
3315	**Foundries**									
	RSE Column Factors:	0.5	1.3	0.7	1.6	1.2	1.5	0.7	NF	
	TOTAL FUEL CONSUMPTION	157	54	*	1	77	1	1	23	2.1
	Indirect Uses-Boiler Fuel	--	*	*	*	3	*	*	--	1.9
	Conventional Boiler Use	--	*	*	*	3	*	0	--	1.8
	CHP and/or Cogeneration Process	--	0	0	0	*	0	*	--	2.3
	Direct Uses-Total Process	--	44	*	*	54	*	*	--	2.2
	Process Heating	--	24	0	*	52	*	*	--	2.5
	Process Cooling and Refrigeration	--	1	0	0	*	0	0	--	3.6
	Machine Drive	--	18	*	*	W	*	0	--	3.8
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	*	0	*	W	*	*	--	3.1
	Direct Uses-Total Nonprocess	--	9	0	1	18	*	*	--	2.6
	Facility HVAC (g)	--	5	0	*	16	*	*	--	5
	Facility Lighting	--	3	--	--	--	--	--	--	1.1
	Other Facility Support	--	1	0	*	1	*	0	--	1.9
	Onsite Transportation	--	*	--	1	*	*	--	--	2
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	1.1
	Other Nonprocess Use	--	*	0	*	*	*	0	--	2.5
	End Use Not Reported	26	1	0	*	2	*	*	23	9
331511	**Iron Foundries**									
	RSE Column Factors:	0.6	1.2	0.7	1.1	0.9	2.1	0.9	NF	
	TOTAL FUEL CONSUMPTION	81	28	0	1	27	*	1	23	2.7
	Indirect Uses-Boiler Fuel	--	*	0	0	1	*	*	--	1.1
	Conventional Boiler Use	--	*	0	0	1	*	0	--	0.9
	CHP and/or Cogeneration Process	--	0	0	0	0	0	*	--	2
	Direct Uses-Total Process	--	23	0	*	18	*	*	--	2.4
	Process Heating	--	14	0	*	16	*	*	--	2.7
	Process Cooling and Refrigeration	--	1	0	0	0	0	0	--	3.3
	Machine Drive	--	8	0	*	W	*	0	--	2.9
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	*	0	0	W	*	*	--	1.4

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Direct Uses-Total Nonprocess	--	4	0	*	9	*	*	--	3.3
	Facility HVAC (g)	--	2	0	*	8	*	*	--	6
	Facility Lighting	--	2	--	--	--	--	--	--	1.2
	Other Facility Support	--	*	0	*	1	*	0	--	2.4
	Onsite Transportation	--	*	--	*	*	*	--	--	2
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	2
	Other Nonprocess Use	--	*	0	*	*	0	0	--	1.1
	End Use Not Reported	24	*	0	*	*	*	0	23	12.2
331521	**Aluminum Die-Casting Foundries**									
	RSE Column Factors:	0.7	1.5	0.7	0.9	1.4	1.5	0.8	NF	
	TOTAL FUEL CONSUMPTION	23	6	*	*	16	*	0	*	2.4
	Indirect Uses-Boiler Fuel	--	0	*	0	1	*	0	--	1.2
	Conventional Boiler Use	--	0	*	0	1	*	0	--	1.2
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1.5
	Direct Uses-Total Process	--	4	0	*	10	*	0	--	3.7
	Process Heating	--	1	0	*	10	*	0	--	1.7
	Process Cooling and Refrigeration	--	*	0	0	*	0	0	--	1.7
	Machine Drive	--	3	0	0	*	*	0	--	4.6
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	*	0	*	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	2	0	*	4	*	0	--	2.2
	Facility HVAC (g)	--	1	0	0	3	*	0	--	2.2
	Facility Lighting	--	1	--	--	--	--	--	--	1.2
	Other Facility Support	--	*	0	0	*	0	0	--	3.2
	Onsite Transportation	--	*	--	*	*	*	--	--	1.7
	Conventional Electricity Generation	--	--	0	*	0	*	0	--	0.9
	Other Nonprocess Use	--	*	0	0	*	0	0	--	0.9
	End Use Not Reported	1	*	0	*	1	*	0	*	4.6
331524	**Aluminum Foundries, except Die-Casting**									
	RSE Column Factors:	0.8	1.3	0.8	1	1.2	1.1	0.8	NF	
	TOTAL FUEL CONSUMPTION	19	5	*	*	14	*	0	*	3.4
	Indirect Uses-Boiler Fuel	--	*	0	0	*	*	0	--	0.9
	Conventional Boiler Use	--	*	0	0	*	*	0	--	0.9
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1.3
	Direct Uses-Total Process	--	3	*	*	11	*	0	--	2.7
	Process Heating	--	1	0	*	11	*	0	--	3.4
	Process Cooling and Refrigeration	--	*	0	0	*	0	0	--	0.9
	Machine Drive	--	2	*	*	*	*	0	--	1.3
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Other Process Use	--	*	0	0	*	0	0	--	0.9
	Direct Uses-Total Nonprocess	--	1	0	*	2	*	0	--	2.3
	Facility HVAC (g)	--	1	0	*	2	*	0	--	1.8
	Facility Lighting	--	*	--	--	--	--	--	--	1.3
	Other Facility Support	--	*	0	0	1	*	0	--	1.1
	Onsite Transportation	--	*	--	*	0	*	--	--	1.4
	Conventional Electricity Generation	--	--	0	*	0	*	0	--	1
	Other Nonprocess Use	--	0	0	0	0	0	0	--	1.3
	End Use Not Reported	*	*	0	*	*	*	0	*	21.7
332	**FABRICATED METAL PRODUCTS**									
	RSE Column Factors:	0.2	2.4	0.8	3.1	1.4	1.9	0.3	NF	
	TOTAL FUEL CONSUMPTION	387	161	Q	6	209	3	1	Q	15.9
	Indirect Uses-Boiler Fuel	--	*	*	*	W	*	0	--	12.5
	Conventional Boiler Use	--	*	*	*	W	*	0	--	12.8
	CHP and/or Cogeneration Process	--	*	0	*	W	0	0	--	1.1
	Direct Uses-Total Process	--	115	W	W	132	W	W	--	9
	Process Heating	--	37	W	W	130	W	*	--	13.7
	Process Cooling and Refrigeration	--	6	0	*	*	0	0	--	9.1
	Machine Drive	--	71	0	*	2	*	0	--	9.8
	Electro-Chemical Processes	--	1	--	--	--	--	--	--	1.6
	Other Process Use	--	*	0	*	*	*	W	--	6.8
	Direct Uses-Total Nonprocess	--	35	W	W	45	W	W	--	6.1
	Facility HVAC (g)	--	16	W	1	43	W	W	--	6.5
	Facility Lighting	--	15	--	--	--	--	--	--	1.4
	Other Facility Support	--	3	0	*	1	*	0	--	7.4
	Onsite Transportation	--	*	--	W	*	2	--	--	4.6
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	3.1
	Other Nonprocess Use	--	*	0	*	Q	*	0	--	7.9
	End Use Not Reported	35	11	*	W	W	W	0	Q	21.5
333	**MACHINERY**									
	RSE Column Factors:	0.2	2	0.4	3.6	1.7	2.7	0.4	NF	
	TOTAL FUEL CONSUMPTION	175	84	*	2	82	2	1	4	10.3
	Indirect Uses-Boiler Fuel	--	*	*	*	14	*	1	--	6.7
	Conventional Boiler Use	--	*	*	*	13	*	*	--	10.3
	CHP and/or Cogeneration Process	--	0	0	*	1	0	1	--	3.7
	Direct Uses-Total Process	--	51	0	W	32	W	0	--	6.2
	Process Heating	--	6	0	*	30	W	0	--	8.8
	Process Cooling and Refrigeration	--	3	0	0	*	0	0	--	5.7
	Machine Drive	--	41	0	*	2	*	0	--	7.4

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Electro-Chemical Processes	--	1	--	--	--	--	--	--	1.6
	Other Process Use	--	*	0	W	*	*	0	--	11.2
	Direct Uses-Total Nonprocess	--	29	*	W	31	W	0	--	5
	Facility HVAC (g)	--	15	*	*	30	W	0	--	6.3
	Facility Lighting	--	11	--	--	--	--	--	--	1.3
	Other Facility Support	--	2	0	*	1	*	0	--	6.8
	Onsite Transportation	--	*	--	W	*	W	--	--	5.7
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	3.1
	Other Nonprocess Use	--	*	0	*	*	*	0	--	10.9
	End Use Not Reported	W	3	*	*	4	W	0	4	13.7
334	**COMPUTER AND ELECTRONIC PRODUCTS**									
	RSE Column Factors:	0.2	2.1	0.6	1.9	1.3	1.2	1.2	NF	
	TOTAL FUEL CONSUMPTION	200	131	1	1	65	*	*	2	17.7
	Indirect Uses-Boiler Fuel	--	*	1	1	27	*	*	--	12.8
	Conventional Boiler Use	--	*	1	1	27	*	0	--	11.5
	CHP and/or Cogeneration Process	--	0	0	0	*	0	*	--	4.3
	Direct Uses-Total Process	--	62	*	*	10	*	0	--	5.9
	Process Heating	--	15	*	0	9	*	0	--	7.1
	Process Cooling and Refrigeration	--	12	0	0	*	*	0	--	7.3
	Machine Drive	--	30	0	*	*	*	0	--	3
	Electro-Chemical Processes	--	2	--	--	--	--	--	--	1.5
	Other Process Use	--	4	0	*	1	0	0	--	4.1
	Direct Uses-Total Nonprocess	--	63	*	*	23	*	0	--	11.6
	Facility HVAC (g)	--	37	*	*	20	*	0	--	7.6
	Facility Lighting	--	17	--	--	--	--	--	--	1.5
	Other Facility Support	--	9	*	*	1	*	0	--	10.3
	Onsite Transportation	--	*	--	*	*	*	--	--	3.7
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	3.7
	Other Nonprocess Use	--	*	0	*	1	*	0	--	5.3
	End Use Not Reported	13	6	*	*	5	*	0	2	12.6
334413	**Semiconductors and Related Devices**									
	RSE Column Factors:	0.7	1.8	0.5	0.7	2.3	1.7	0.6	NF	
	TOTAL FUEL CONSUMPTION	66	44	*	*	21	*	0	Q	4
	Indirect Uses-Boiler Fuel	--	*	*	*	12	0	0	--	3.2
	Conventional Boiler Use	--	*	*	*	11	0	0	--	3.2
	CHP and/or Cogeneration Process	--	0	0	0	*	0	0	--	0.8
	Direct Uses-Total Process	--	25	*	*	2	*	0	--	1.6
	Process Heating	--	4	*	0	1	*	0	--	1.8
	Process Cooling and Refrigeration	--	5	0	0	*	0	0	--	1.3

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Machine Drive	--	14	0	*	*	*	0	--	1.3
	Electro-Chemical Processes	--	1	--	--	--	--	--	--	1.2
	Other Process Use	--	1	0	*	1	0	0	--	1.5
	Direct Uses-Total Nonprocess	--	18	0	*	6	*	0	--	2.9
	Facility HVAC (g)	--	13	0	*	6	*	0	--	1.1
	Facility Lighting	--	3	--	--	--	--	--	--	1.2
	Other Facility Support	--	2	0	*	*	*	0	--	2.9
	Onsite Transportation	--	*	--	*	0	*	--	--	2.8
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1.3
	Other Nonprocess Use	--	*	0	*	*	0	0	--	2.3
	End Use Not Reported	3	1	0	*	2	*	0	Q	4.8
335	**ELEC. EQUIP., APPLIANCES, COMPONENTS**									
	RSE Column Factors:	0.2	1.9	1.2	2.1	1.5	1.6	0.4	NF	
	TOTAL FUEL CONSUMPTION	103	47	*	1	53	1	*	1	6.3
	Indirect Uses-Boiler Fuel	--	*	*	*	6	*	*	--	2.9
	Conventional Boiler Use	--	*	*	*	6	*	*	--	2.9
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	4.1
	Direct Uses-Total Process	--	29	0	*	28	*	0	--	5.3
	Process Heating	--	9	0	*	27	*	0	--	8
	Process Cooling and Refrigeration	--	2	0	*	*	0	0	--	8.2
	Machine Drive	--	17	0	*	*	*	0	--	8.2
	Electro-Chemical Processes	--	1	--	--	--	--	--	--	1.5
	Other Process Use	--	*	0	*	*	*	0	--	12
	Direct Uses-Total Nonprocess	--	16	*	*	16	1	0	--	7.3
	Facility HVAC (g)	--	8	*	*	15	*	0	--	8.6
	Facility Lighting	--	6	--	--	--	--	--	--	1.3
	Other Facility Support	--	1	0	*	*	*	0	--	6.9
	Onsite Transportation	--	*	--	*	*	1	--	--	3.3
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	1.3
	Other Nonprocess Use	--	*	0	*	*	*	0	--	12
	End Use Not Reported	6	2	*	*	3	*	0	1	22.4
336	**TRANSPORTATION EQUIPMENT**									
	RSE Column Factors:	0.3	1.8	0.4	2.8	1.6	2.9	0.4	NF	
	TOTAL FUEL CONSUMPTION	424	172	6	3	203	4	8	28	5.4
	Indirect Uses-Boiler Fuel	--	*	W	1	51	*	7	--	5.4
	Conventional Boiler Use	--	*	W	1	48	*	7	--	5.4
	CHP and/or Cogeneration Process	--	0	W	*	3	0	*	--	4
	Direct Uses-Total Process	--	102	*	*	75	W	*	--	7.1
	Process Heating	--	16	*	*	63	W	*	--	5.9

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Process Cooling and Refrigeration	--	8	*	0	2	*	0	--	3
	Machine Drive	--	74	0	*	2	*	0	--	7.8
	Electro-Chemical Processes	--	2	--	--	--	--	--	--	1.5
	Other Process Use	--	2	0	*	Q	*	0	--	2
	Direct Uses-Total Nonprocess	--	65	W	2	67	W	*	--	4.2
	Facility HVAC (g)	--	33	W	*	62	Q	*	--	4.3
	Facility Lighting	--	25	--	--	--	--	--	--	1.3
	Other Facility Support	--	6	*	*	2	*	0	--	5
	Onsite Transportation	--	1	--	2	*	W	--	--	5.6
	Conventional Electricity Generation	--	--	0	*	2	*	0	--	3.5
	Other Nonprocess Use	--	*	0	*	Q	*	0	--	2.9
	End Use Not Reported	44	5	*	*	10	*	*	28	20.7
336112	**Light Trucks and Utility Vehicles**									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	TOTAL FUEL CONSUMPTION	57	W	*	*	36	*	W	3	1
	Indirect Uses-Boiler Fuel	--	*	*	0	12	*	W	--	1
	Conventional Boiler Use	--	*	*	0	12	*	W	--	1
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	1
	Direct Uses-Total Process	--	10	0	0	14	*	0	--	1
	Process Heating	--	1	0	0	13	0	0	--	1
	Process Cooling and Refrigeration	--	1	0	0	1	0	0	--	1
	Machine Drive	--	8	0	0	*	*	0	--	1
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1
	Other Process Use	--	1	0	0	*	0	0	--	1
	Direct Uses-Total Nonprocess	--	W	*	*	10	*	0	--	1
	Facility HVAC (g)	--	W	*	0	10	*	0	--	1
	Facility Lighting	--	3	--	--	--	--	--	--	1
	Other Facility Support	--	1	0	*	*	*	0	--	1
	Onsite Transportation	--	*	--	*	*	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	1
	Other Nonprocess Use	--	*	0	*	*	0	0	--	1
	End Use Not Reported	W	W	0	0	*	0	0	3	1
337	**FURNITURE AND RELATED PRODUCTS**									
	RSE Column Factors:	0.3	1.4	0.5	1	2.1	1.7	1.4	NF	
	TOTAL FUEL CONSUMPTION	63	24	*	1	25	1	1	11	8.7
	Indirect Uses-Boiler Fuel	--	*	0	*	1	*	1	--	6
	Conventional Boiler Use	--	*	0	*	1	*	1	--	6.9
	CHP and/or Cogeneration Process	--	*	0	0	*	0	*	--	3.6
	Direct Uses-Total Process	--	14	0	*	11	W	*	--	8.5

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors
	Process Heating	--	1	0	*	11	W	*	--	7.3
	Process Cooling and Refrigeration	--	*	0	*	*	*	0	--	3.3
	Machine Drive	--	12	0	*	*	*	0	--	9.2
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.1
	Other Process Use	--	*	0	0	0	0	0	--	3.6
	Direct Uses-Total Nonprocess	--	8	0	*	12	W	*	--	8
	Facility HVAC (g)	--	W	0	*	12	*	*	--	10.3
	Facility Lighting	--	4	--	--	--	--	--	--	1.4
	Other Facility Support	--	W	0	*	*	*	0	--	3.9
	Onsite Transportation	--	*	--	*	*	W	--	--	5.2
	Conventional Electricity Generation	--	--	0	*	0	*	0	--	1.1
	Other Nonprocess Use	--	*	0	*	*	0	0	--	1.2
	End Use Not Reported	W	2	*	*	1	W	*	11	23.1
339	**MISCELLANEOUS**									
	RSE Column Factors:	0.3	2.4	0.3	2.7	2.1	1.7	0.5	NF	
	TOTAL FUEL CONSUMPTION	71	35	*	*	32	1	0	2	7.3
	Indirect Uses-Boiler Fuel	--	W	*	*	10	*	0	--	3.7
	Conventional Boiler Use	--	W	*	*	10	*	0	--	3.7
	CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	3.7
	Direct Uses-Total Process	--	18	0	*	9	*	0	--	7.4
	Process Heating	--	3	0	0	8	*	0	--	7.3
	Process Cooling and Refrigeration	--	2	0	0	*	0	0	--	6.1
	Machine Drive	--	13	0	*	*	*	0	--	9.7
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	1.6
	Other Process Use	--	*	0	0	*	*	0	--	3.5
	Direct Uses-Total Nonprocess	--	14	0	*	10	*	0	--	6.3
	Facility HVAC (g)	--	7	0	*	10	*	0	--	7.3
	Facility Lighting	--	5	--	--	--	--	--	--	1.3
	Other Facility Support	--	1	0	*	*	*	0	--	5.9
	Onsite Transportation	--	*	--	*	0	*	--	--	3.3
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	1.8
	Other Nonprocess Use	--	*	0	*	*	*	0	--	7.7
	End Use Not Reported	W	W	*	*	3	*	0	2	14.2

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

Table 5.2 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Total	Net Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)	RSE Row Factors

(c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(d) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(e) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(f) 'Other' includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power.

(g) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes steam and hot water.

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.

-- Estimation is not applicable.

S=Negative value.

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. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.
Allocations to specific end uses are made on the basis of reasonable approximations by respondents.

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

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
		Total United States						
311 - 339	**ALL MANUFACTURING INDUSTRIES**							
	RSE Column Factors:	NF	1	2.4	1.1	1.4	1	
	TOTAL FUEL CONSUMPTION	966,231	33	24	5,641	26	53	3.4
	Indirect Uses-Boiler Fuel	6,714	20	6	2,105	2	35	5.3
	Conventional Boiler Use	3,199	12	4	1,271	2	11	5.6
	CHP and/or Cogeneration Process	3,515	8	2	834	*	23	3.8
	Direct Uses-Total Process	768,929	10	7	2,867	16	17	2.9
	Process Heating	103,992	9	4	2,670	15	17	3.3
	Process Cooling and Refrigeration	62,460	*	*	44	*	*	3.8
	Machine Drive	511,864	*	3	106	1	*	4.8
	Electro-Chemical Processes	86,360	--	--	--	--	--	1
	Other Process Use	4,253	*	*	58	*	*	5.3
	Direct Uses-Total Nonprocess	161,383	1	9	500	6	1	4.6
	Facility HVAC (g)	81,980	1	1	406	1	*	6.6
	Facility Lighting	62,019	--	--	--	--	--	1.1
	Other Facility Support	14,872	*	*	29	*	*	9.7
	Onsite Transportation	1,277	--	6	2	5	--	3.1
	Conventional Electricity Generation	--	*	Q	54	*	1	1.7
	Other Nonprocess Use	1,235	*	Q	10	*	0	8.8
	End Use Not Reported	29,205	3	2	157	2	*	8.3
311	**FOOD**							
	RSE Column Factors:	NF	1.5	2.5	1.2	2.6	0.4	
	TOTAL FUEL CONSUMPTION	73,143	2	3	560	1	8	9.7
	Indirect Uses-Boiler Fuel	848	1	1	268	W	8	11.7
	Conventional Boiler Use	Q	1	1	231	W	3	12.7
	CHP and/or Cogeneration Process	188	*	*	37	0	5	5.5
	Direct Uses-Total Process	57,189	1	1	224	W	W	7.9
	Process Heating	2,229	1	*	199	W	W	8.8
	Process Cooling and Refrigeration	18,194	0	*	Q	*	0	9
	Machine Drive	36,479	0	1	13	*	0	11
	Electro-Chemical Processes	Q	--	--	--	--	--	1.1
	Other Process Use	187	*	*	4	0	0	13
	Direct Uses-Total Nonprocess	10,832	*	1	W	*	*	10.4

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Facility HVAC (g)	5,037	*	*	36	*	*	11.3
	Facility Lighting	4,826	--	--	--	--	--	1.3
	Other Facility Support	766	*	*	W	*	0	12.8
	Onsite Transportation	165	--	*	*	*	--	4.9
	Conventional Electricity Generation	--	0	*	Q	0	0	2.1
	Other Nonprocess Use	39	*	*	*	0	0	12.1
	End Use Not Reported	4,274	*	*	W	W	W	14.1
311221	**Wet Corn Milling**							
	RSE Column Factors:	NF	0.9	1.3	1.3	0.9	0.9	
	TOTAL FUEL CONSUMPTION	9,606	*	*	59	*	5	1.3
	Indirect Uses-Boiler Fuel	1,253	*	*	31	0	5	1.3
	Conventional Boiler Use	103	*	*	21	0	3	1
	CHP and/or Cogeneration Process	50	0	*	10	0	3	1.6
	Direct Uses-Total Process	9,128	0	*	28	*	0	1.5
	Process Heating	226	0	0	27	*	0	1
	Process Cooling and Refrigeration	126	0	0	*	0	0	1.2
	Machine Drive	8,776	0	*	*	*	0	1.8
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	*	0	0	0	1
	Direct Uses-Total Nonprocess	325	*	*	1	*	0	1
	Facility HVAC (g)	122	*	*	1	*	0	1.1
	Facility Lighting	197	--	--	--	--	--	1
	Other Facility Support	6	*	0	*	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	*	0	0	0	1.8
	Other Nonprocess Use	0	0	*	0	0	0	1
	End Use Not Reported	0	0	*	0	*	0	1
31131	**Sugar**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	1,851	*	*	22	*	2	1
	Indirect Uses-Boiler Fuel	74	*	*	16	0	1	1
	Conventional Boiler Use	15	*	0	3	0	*	1
	CHP and/or Cogeneration Process	59	*	*	13	0	1	1
	Direct Uses-Total Process	1,519	*	*	4	*	W	1

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Process Heating	103	*	*	4	*	W	1
	Process Cooling and Refrigeration	35	0	0	0	0	0	1
	Machine Drive	1,369	0	*	*	*	0	1
	Electro-Chemical Processes	12	--	--	--	--	--	1
	Other Process Use	0	0	0	0	0	0	1
	Direct Uses-Total Nonprocess	256	0	*	*	*	*	1
	Facility HVAC (g)	106	0	0	*	*	*	1
	Facility Lighting	122	--	--	--	--	--	1
	Other Facility Support	19	0	*	*	*	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	9	0	*	0	0	0	1
	End Use Not Reported	2	*	*	1	*	W	1
311421	**Fruit and Vegetable Canning**							
	RSE Column Factors:	NF	1	0.9	1.2	2.1	0.6	
	TOTAL FUEL CONSUMPTION	2,348	*	*	35	*	0	18
	Indirect Uses-Boiler Fuel	1	*	*	26	*	0	6.3
	Conventional Boiler Use	1	*	*	W	*	0	6.7
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1.6
	Direct Uses-Total Process	1,703	*	*	W	*	0	8.5
	Process Heating	47	*	*	W	*	0	4.7
	Process Cooling and Refrigeration	574	0	*	*	0	0	3
	Machine Drive	1,063	0	*	*	*	0	4.9
	Electro-Chemical Processes	14	--	--	--	--	--	1
	Other Process Use	5	0	*	0	0	0	1.2
	Direct Uses-Total Nonprocess	516	*	*	W	*	0	5.5
	Facility HVAC (g)	222	0	0	W	*	0	4.1
	Facility Lighting	238	--	--	--	--	--	1.5
	Other Facility Support	34	*	*	*	*	0	4
	Onsite Transportation	22	--	*	0	*	--	3
	Conventional Electricity Generation	--	0	*	*	0	0	1.1
	Other Nonprocess Use	0	0	*	*	0	0	5.2
	End Use Not Reported	128	0	*	1	*	0	20.6
312	**BEVERAGE AND TOBACCO PRODUCTS**							
	RSE Column Factors:	NF	0.6	1	1.8	2.1	0.5	

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	8,452	W	*	45	*	1	5.8
	Indirect Uses-Boiler Fuel	67	W	*	30	*	1	3.3
	Conventional Boiler Use	51	*	*	28	*	*	4.8
	CHP and/or Cogeneration Process	16	W	*	2	*	1	1
	Direct Uses-Total Process	6,110	*	*	8	*	*	2.3
	Process Heating	170	*	*	7	*	*	2.6
	Process Cooling and Refrigeration	2,420	*	*	*	*	*	3
	Machine Drive	3,488	*	*	*	*	*	4.2
	Electro-Chemical Processes	9	--	--	--	--	--	1.7
	Other Process Use	23	0	*	*	*	0	2.1
	Direct Uses-Total Nonprocess	1,914	W	*	5	*	*	3
	Facility HVAC (g)	989	W	*	4	*	*	3.2
	Facility Lighting	726	--	--	--	--	--	1.3
	Other Facility Support	153	0	*	*	*	*	3.1
	Onsite Transportation	35	--	*	0	*	--	3.6
	Conventional Electricity Generation	--	0	*	0	*	*	1.4
	Other Nonprocess Use	10	0	*	*	*	0	4.3
	End Use Not Reported	362	0	*	2	*	0	11.6
3121	**Beverages**							
	RSE Column Factors:	NF	0.6	1.4	1.5	1.7	0.6	
	TOTAL FUEL CONSUMPTION	6,814	*	*	41	*	*	8.2
	Indirect Uses-Boiler Fuel	46	*	*	28	*	*	5.4
	Conventional Boiler Use	46	*	*	26	*	*	6.5
	CHP and/or Cogeneration Process	0	*	*	2	0	*	1.4
	Direct Uses-Total Process	5,145	*	*	7	*	0	2.8
	Process Heating	130	*	*	6	*	0	4
	Process Cooling and Refrigeration	2,245	*	*	*	*	0	3.4
	Machine Drive	2,754	*	*	*	*	0	3.8
	Electro-Chemical Processes	9	--	--	--	--	--	1.7
	Other Process Use	6	0	*	*	*	0	2.7
	Direct Uses-Total Nonprocess	1,295	*	*	4	*	0	4
	Facility HVAC (g)	575	*	*	4	*	0	5.4
	Facility Lighting	548	--	--	--	--	--	1.3
	Other Facility Support	129	0	*	*	*	0	3.4
	Onsite Transportation	33	--	*	0	*	--	3.8
	Conventional Electricity Generation	--	0	*	0	0	0	3.5

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Other Nonprocess Use	10	0	*	*	*	0	4.6
	End Use Not Reported	328	*	*	2	*	0	12.5
3122	**Tobacco**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	1,637	*	*	4	*	*	1
	Indirect Uses-Boiler Fuel	20	*	*	2	*	*	1
	Conventional Boiler Use	5	*	*	2	*	*	1
	CHP and/or Cogeneration Process	16	0	0	0	*	*	1
	Direct Uses-Total Process	965	*	*	1	*	*	1
	Process Heating	40	*	*	1	*	*	1
	Process Cooling and Refrigeration	175	0	0	*	0	*	1
	Machine Drive	734	0	*	*	*	*	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	16	0	*	*	*	0	1
	Direct Uses-Total Nonprocess	618	*	*	*	*	*	1
	Facility HVAC (g)	414	*	*	*	*	*	1
	Facility Lighting	178	--	--	--	--	--	1
	Other Facility Support	24	0	*	*	0	*	1
	Onsite Transportation	2	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	*	*	1
	Other Nonprocess Use	0	0	*	0	0	0	1
	End Use Not Reported	34	0	*	*	0	0	1
313	**TEXTILE MILLS**							
	RSE Column Factors:	NF	0.8	1.5	1.1	2.5	0.6	
	TOTAL FUEL CONSUMPTION	25,462	1	*	72	*	1	17.7
	Indirect Uses-Boiler Fuel	15	W	*	36	*	1	18.4
	Conventional Boiler Use	15	W	*	W	*	1	19.4
	CHP and/or Cogeneration Process	0	0	0	W	0	*	5.4
	Direct Uses-Total Process	19,014	0	*	25	*	*	5.9
	Process Heating	2,413	0	*	23	*	*	6.2
	Process Cooling and Refrigeration	2,154	0	0	0	0	0	6.4
	Machine Drive	14,310	0	0	2	*	0	9.8
	Electro-Chemical Processes	23	--	--	--	--	--	1.6
	Other Process Use	115	0	*	*	0	0	2.5

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Direct Uses-Total Nonprocess	6,298	*	*	W	*	*	7
	Facility HVAC (g)	W	*	*	W	*	*	7.2
	Facility Lighting	W	--	--	--	--	--	1.4
	Other Facility Support	W	0	*	Q	*	0	7.4
	Onsite Transportation	Q	--	*	*	*	--	3.3
	Conventional Electricity Generation	--	0	*	1	*	*	1.2
	Other Nonprocess Use	Q	0	0	*	0	0	4.6
	End Use Not Reported	134	W	*	W	*	0	26.9
314	**TEXTILE PRODUCT MILLS**							
	RSE Column Factors:	NF	0.7	0.5	2.2	2.4	0.5	
	TOTAL FUEL CONSUMPTION	4,924	*	Q	28	*	*	17
	Indirect Uses-Boiler Fuel	14	*	*	10	*	*	11.7
	Conventional Boiler Use	14	*	*	10	*	*	11.7
	CHP and/or Cogeneration Process	0	0	*	*	0	0	1.4
	Direct Uses-Total Process	3,321	*	*	13	*	0	2.8
	Process Heating	406	*	*	12	*	0	3.2
	Process Cooling and Refrigeration	240	0	0	*	0	0	3.8
	Machine Drive	2,655	0	0	*	0	0	3.1
	Electro-Chemical Processes	20	--	--	--	--	--	1.4
	Other Process Use	*	0	0	*	0	0	6.4
	Direct Uses-Total Nonprocess	1,313	*	*	4	*	*	4.2
	Facility HVAC (g)	W	*	*	W	*	*	3
	Facility Lighting	W	--	--	--	--	--	1.4
	Other Facility Support	68	*	*	W	0	0	3.7
	Onsite Transportation	19	--	*	*	*	--	3.7
	Conventional Electricity Generation	--	0	*	*	0	0	1.5
	Other Nonprocess Use	12	0	*	*	*	0	2.7
	End Use Not Reported	275	*	0	1	*	0	25.7
315	**APPAREL**							
	RSE Column Factors:	NF	1.4	1	1.7	1.4	0.6	
	TOTAL FUEL CONSUMPTION	3,588	*	*	16	*	0	23.5
	Indirect Uses-Boiler Fuel	Q	*	*	4	*	0	12.6
	Conventional Boiler Use	Q	*	*	4	*	0	12.8
	CHP and/or Cogeneration Process	0	0	0	*	0	0	4.6

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Direct Uses-Total Process	1,565	*	*	5	*	0	9.4
	Process Heating	139	*	*	2	*	0	8.9
	Process Cooling and Refrigeration	125	0	*	*	0	0	7.8
	Machine Drive	1,296	0	*	W	*	0	6
	Electro-Chemical Processes	Q	--	--	--	--	--	1.2
	Other Process Use	0	0	0	W	0	0	4.6
	Direct Uses-Total Nonprocess	1,462	*	*	4	*	0	10.6
	Facility HVAC (g)	820	*	*	2	*	0	8.5
	Facility Lighting	527	--	--	--	--	--	1.5
	Other Facility Support	113	0	*	2	0	0	9.1
	Onsite Transportation	2	--	*	0	*	--	3
	Conventional Electricity Generation	--	0	*	0	0	0	1.4
	Other Nonprocess Use	0	0	*	0	0	0	4.6
	End Use Not Reported	556	0	*	3	*	0	46.1
316	**LEATHER AND ALLIED PRODUCTS**							
	RSE Column Factors:	NF	0.2	1.9	2.1	2.7	0.6	
	TOTAL FUEL CONSUMPTION	717	*	*	4	*	0	8.7
	Indirect Uses-Boiler Fuel	*	*	*	3	*	0	3.6
	Conventional Boiler Use	*	*	*	3	*	0	3.6
	CHP and/or Cogeneration Process	0	0	0	0	0	0	3.3
	Direct Uses-Total Process	483	*	*	*	*	0	7.5
	Process Heating	21	*	*	*	*	0	6.4
	Process Cooling and Refrigeration	191	0	0	0	0	0	8.8
	Machine Drive	270	0	*	0	*	0	8.7
	Electro-Chemical Processes	0	--	--	--	--	--	1.1
	Other Process Use	0	0	0	0	0	0	3.3
	Direct Uses-Total Nonprocess	184	*	*	1	*	0	6.4
	Facility HVAC (g)	81	*	*	1	*	0	7.8
	Facility Lighting	88	--	--	--	--	--	1.4
	Other Facility Support	14	0	0	*	*	0	9
	Onsite Transportation	*	--	*	*	*	--	2.5
	Conventional Electricity Generation	--	0	0	0	0	0	1.3
	Other Nonprocess Use	0	0	0	0	0	0	3.3
	End Use Not Reported	50	0	0	*	*	0	23.2
321	**WOOD PRODUCTS**							

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	RSE Column Factors:	NF	1	2	1.5	1.5	0.3	
	TOTAL FUEL CONSUMPTION	22,438	*	2	56	1	*	4.8
	Indirect Uses-Boiler Fuel	115	*	*	15	*	*	5.7
	Conventional Boiler Use	106	*	*	15	*	*	5.8
	CHP and/or Cogeneration Process	8	0	*	*	0	*	1.4
	Direct Uses-Total Process	17,176	*	*	29	W	0	3.1
	Process Heating	1,153	*	*	27	W	0	3.1
	Process Cooling and Refrigeration	139	0	*	*	0	0	3.4
	Machine Drive	15,842	0	*	1	*	0	7.6
	Electro-Chemical Processes	4	--	--	--	--	--	1.7
	Other Process Use	38	0	*	1	*	0	5.1
	Direct Uses-Total Nonprocess	3,499	0	1	8	1	0	3.9
	Facility HVAC (g)	1,487	0	*	7	*	0	7.7
	Facility Lighting	1,574	--	--	--	--	--	1.3
	Other Facility Support	W	0	*	*	*	0	8
	Onsite Transportation	W	--	1	*	*	--	3.4
	Conventional Electricity Generation	--	0	*	*	*	0	2.1
	Other Nonprocess Use	65	0	*	1	*	0	1.9
	End Use Not Reported	1,648	*	*	3	W	0	14.9
321113	**Sawmills**							
	RSE Column Factors:	NF	0.3	1.9	2.8	3	0.5	
	TOTAL FUEL CONSUMPTION	6,863	*	1	10	*	0	5.3
	Indirect Uses-Boiler Fuel	82	*	*	W	0	0	6.9
	Conventional Boiler Use	81	*	*	W	0	0	7
	CHP and/or Cogeneration Process	1	0	*	*	0	0	1.6
	Direct Uses-Total Process	5,470	*	*	W	*	0	4.2
	Process Heating	384	*	*	W	*	0	4.7
	Process Cooling and Refrigeration	29	0	*	*	0	0	2.4
	Machine Drive	5,051	0	*	*	*	0	7
	Electro-Chemical Processes	4	--	--	--	--	--	1.7
	Other Process Use	Q	0	*	0	0	0	3.1
	Direct Uses-Total Nonprocess	742	0	*	*	*	0	4.4
	Facility HVAC (g)	W	0	*	*	*	0	6.6
	Facility Lighting	W	--	--	--	--	--	1.2
	Other Facility Support	52	0	*	*	*	0	4.2
	Onsite Transportation	*	--	*	0	*	--	3.7

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Conventional Electricity Generation	--	0	*	0	0	0	3.5
	Other Nonprocess Use	Q	0	*	0	0	0	1.3
	End Use Not Reported	567	0	*	*	*	0	14
3212	**Veneer, Plywood, and Engineered Woods**							
	RSE Column Factors:	NF	2.1	2	1	1.2	0.4	
	TOTAL FUEL CONSUMPTION	9,832	*	*	32	1	*	5.7
	Indirect Uses-Boiler Fuel	30	*	*	W	*	*	3.1
	Conventional Boiler Use	23	*	*	W	*	*	3.1
	CHP and/or Cogeneration Process	7	0	0	*	0	*	1.5
	Direct Uses-Total Process	7,935	0	*	20	W	0	5.2
	Process Heating	536	0	*	19	W	0	5.8
	Process Cooling and Refrigeration	77	0	0	0	0	0	5
	Machine Drive	7,287	0	*	Q	*	0	6.9
	Electro-Chemical Processes	0	--	--	--	--	--	1.1
	Other Process Use	36	0	*	1	*	0	6.3
	Direct Uses-Total Nonprocess	1,498	0	*	4	*	0	5.7
	Facility HVAC (g)	W	0	*	2	*	0	10.4
	Facility Lighting	W	--	--	--	--	--	1.4
	Other Facility Support	W	0	*	*	*	0	4.5
	Onsite Transportation	3	--	*	*	*	--	2.5
	Conventional Electricity Generation	--	0	*	0	0	0	3.3
	Other Nonprocess Use	43	0	*	1	*	0	2.5
	End Use Not Reported	370	*	*	W	W	0	11.6
3219	**Other Wood Products**							
	RSE Column Factors:	NF	0.5	2.4	1.4	2.1	0.5	
	TOTAL FUEL CONSUMPTION	5,433	*	*	11	*	0	7.3
	Indirect Uses-Boiler Fuel	2	*	*	2	*	0	9.6
	Conventional Boiler Use	2	*	*	2	*	0	9.7
	CHP and/or Cogeneration Process	0	0	0	*	0	0	1.5
	Direct Uses-Total Process	3,520	0	*	4	*	0	7.3
	Process Heating	199	0	*	3	*	0	7
	Process Cooling and Refrigeration	23	0	0	0	0	0	4.1
	Machine Drive	3,298	0	*	*	*	0	9.7
	Electro-Chemical Processes	0	--	--	--	--	--	1.1

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Other Process Use	0	0	*	*	0	0	1.5
	Direct Uses-Total Nonprocess	1,214	0	*	4	*	0	6.5
	Facility HVAC (g)	578	0	*	4	*	0	7.8
	Facility Lighting	489	--	--	--	--	--	1.3
	Other Facility Support	123	0	*	*	*	0	4.8
	Onsite Transportation	7	--	*	*	*	--	5
	Conventional Electricity Generation	--	0	*	*	*	0	1.9
	Other Nonprocess Use	Q	0	*	0	0	0	1.2
	End Use Not Reported	696	*	*	1	*	0	18.4
322	**PAPER**							
	RSE Column Factors:	NF	0.9	1	1.3	2.6	0.5	
	TOTAL FUEL CONSUMPTION	114,925	16	2	490	2	11	2.5
	Indirect Uses-Boiler Fuel	3,345	11	2	298	*	10	2.4
	Conventional Boiler Use	717	5	*	140	*	2	3.9
	CHP and/or Cogeneration Process	2,628	6	1	158	0	8	1.7
	Direct Uses-Total Process	99,965	4	*	150	*	W	3.4
	Process Heating	2,856	4	*	126	*	W	3.8
	Process Cooling and Refrigeration	1,720	*	*	3	0	*	2
	Machine Drive	92,856	*	*	18	*	*	4.3
	Electro-Chemical Processes	1,978	--	--	--	--	--	1.5
	Other Process Use	555	*	*	2	*	W	2.5
	Direct Uses-Total Nonprocess	10,370	*	*	28	1	W	3.9
	Facility HVAC (g)	4,672	*	*	19	*	W	5
	Facility Lighting	4,526	--	--	--	--	--	1.2
	Other Facility Support	818	*	*	*	*	0	2.3
	Onsite Transportation	76	--	*	*	1	--	3.7
	Conventional Electricity Generation	--	*	*	8	*	*	1
	Other Nonprocess Use	277	*	*	Q	*	0	3.4
	End Use Not Reported	1,245	1	*	14	Q	W	10.9
322110	**Pulp Mills**							
	RSE Column Factors:	NF	1.1	0.9	0.9	1	1	
	TOTAL FUEL CONSUMPTION	W	W	1	23	*	W	1
	Indirect Uses-Boiler Fuel	1,217	W	1	13	*	W	1.1
	Conventional Boiler Use	465	W	*	5	*	0	1.3

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
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Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	CHP and/or Cogeneration Process	751	1	1	9	0	W	1
	Direct Uses-Total Process	5,136	*	*	10	*	W	1
	Process Heating	187	*	*	9	*	W	1
	Process Cooling and Refrigeration	19	*	*	0	0	0	1
	Machine Drive	4,671	*	*	*	0	*	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	260	*	*	*	0	W	1
	Direct Uses-Total Nonprocess	432	*	*	*	*	*	1.2
	Facility HVAC (g)	272	*	*	*	*	*	1
	Facility Lighting	156	--	--	--	--	--	1.1
	Other Facility Support	4	*	*	0	*	0	1
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	*	0	0	0	0	1
	End Use Not Reported	W	0	0	0	*	0	1
322121	**Paper Mills, except Newsprint**							
	RSE Column Factors:	NF	1.8	1.3	1.1	1.4	0.6	
	TOTAL FUEL CONSUMPTION	46,786	8	1	201	*	6	2.3
	Indirect Uses-Boiler Fuel	860	5	*	124	*	6	2.4
	Conventional Boiler Use	95	2	*	55	*	1	3.1
	CHP and/or Cogeneration Process	765	3	*	69	0	5	1.3
	Direct Uses-Total Process	41,835	2	*	70	*	W	3.2
	Process Heating	1,389	2	*	56	*	W	3.4
	Process Cooling and Refrigeration	617	0	*	3	0	*	1.8
	Machine Drive	39,507	*	*	10	*	W	1.5
	Electro-Chemical Processes	199	--	--	--	--	--	1
	Other Process Use	122	*	*	*	*	0	4.4
	Direct Uses-Total Nonprocess	3,804	*	*	6	*	W	2.2
	Facility HVAC (g)	1,627	*	*	5	*	W	5
	Facility Lighting	1,606	--	--	--	--	--	1.1
	Other Facility Support	319	0	*	*	0	0	1.9
	Onsite Transportation	52	--	*	0	*	--	1.2
	Conventional Electricity Generation	--	*	*	1	*	*	1
	Other Nonprocess Use	200	0	*	*	0	0	3
	End Use Not Reported	287	*	*	1	*	W	12.3
322122	**Newsprint Mills**							

Table 5.3 End Uses of Fuel Consumption, 2002;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	12,097	W	*	15	*	W	1
	Indirect Uses-Boiler Fuel	117	W	*	10	*	W	1
	Conventional Boiler Use	0	W	*	3	*	W	1
	CHP and/or Cogeneration Process	117	0	0	7	0	W	1
	Direct Uses-Total Process	11,315	0	*	W	0	W	1
	Process Heating	54	0	0	W	0	0	1
	Process Cooling and Refrigeration	120	0	0	0	0	0	1
	Machine Drive	10,536	0	*	0	0	0	1
	Electro-Chemical Processes	579	--	--	--	--	--	1
	Other Process Use	25	0	0	*	0	W	1
	Direct Uses-Total Nonprocess	524	0	*	*	*	W	1
	Facility HVAC (g)	197	0	0	*	0	W	1
	Facility Lighting	293	--	--	--	--	--	1
	Other Facility Support	34	0	0	*	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	141	0	*	W	*	W	1
322130	**Paperboard Mills**							
	RSE Column Factors:	NF	1.1	1	1	0.9	0.8	
	TOTAL FUEL CONSUMPTION	35,657	5	1	183	*	4	2.6
	Indirect Uses-Boiler Fuel	1,123	3	*	125	*	3	2.2
	Conventional Boiler Use	128	1	*	52	*	W	3.5
	CHP and/or Cogeneration Process	995	2	*	73	0	W	1.5
	Direct Uses-Total Process	31,825	2	*	43	*	W	2.7
	Process Heating	505	1	*	36	*	W	1.6
	Process Cooling and Refrigeration	386	0	0	0	0	0	1.2
	Machine Drive	29,800	*	*	7	*	W	3.1
	Electro-Chemical Processes	997	--	--	--	--	--	1
	Other Process Use	136	0	*	*	*	0	2.2
	Direct Uses-Total Nonprocess	2,449	*	*	10	*	*	1.8
	Facility HVAC (g)	1,088	*	0	2	*	*	3
	Facility Lighting	1,097	--	--	--	--	--	1.3
	Other Facility Support	247	*	*	*	*	0	1.3

Table 5.3 End Uses of Fuel Consumption, 2002;
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Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Onsite Transportation	10	--	*	0	*	--	2.8
	Conventional Electricity Generation	--	0	*	8	0	*	1
	Other Nonprocess Use	6	0	*	0	0	0	0.9
	End Use Not Reported	261	*	*	5	*	W	4.8
323	**PRINTING AND RELATED SUPPORT**							
	RSE Column Factors:	NF	0.5	2.2	1.6	1.7	0.5	
	TOTAL FUEL CONSUMPTION	14,770	*	*	45	*	0	7.8
	Indirect Uses-Boiler Fuel	10	0	*	W	*	0	7.5
	Conventional Boiler Use	10	0	*	6	*	0	7.8
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1.5
	Direct Uses-Total Process	8,321	*	*	20	*	0	4.8
	Process Heating	369	*	0	18	*	0	6.7
	Process Cooling and Refrigeration	654	0	0	*	0	0	4.6
	Machine Drive	7,245	0	*	1	*	0	5.2
	Electro-Chemical Processes	26	--	--	--	--	--	1.6
	Other Process Use	27	0	*	*	*	0	8.1
	Direct Uses-Total Nonprocess	4,721	*	*	16	*	0	7.7
	Facility HVAC (g)	2,654	*	*	15	*	0	5.3
	Facility Lighting	1,660	--	--	--	--	--	1.3
	Other Facility Support	374	0	*	1	*	0	4.4
	Onsite Transportation	29	--	*	*	*	--	4.3
	Conventional Electricity Generation	--	0	*	0	0	0	0.9
	Other Nonprocess Use	Q	0		*	0	0	7.2
	End Use Not Reported	1,717	0	*	W	*	0	18.6
324	**PETROLEUM AND COAL PRODUCTS**							
	RSE Column Factors:	NF	1.1	1.9	1.2	1.4	0.7	
	TOTAL FUEL CONSUMPTION	54,688	4	3	854	6	1	4.7
	Indirect Uses-Boiler Fuel	423	2	1	281	1	*	4.5
	Conventional Boiler Use	232	1	*	150	1	*	6.1
	CHP and/or Cogeneration Process	191	1	*	131	*	*	1.5
	Direct Uses-Total Process	50,537	1	1	530	5	*	6.1
	Process Heating	3,227	1	1	512	5	*	6.3
	Process Cooling and Refrigeration	3,055	0	*	2	*	0	1.2
	Machine Drive	44,162	0	*	12	*	0	5.4

Table 5.3 End Uses of Fuel Consumption, 2002;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Electro-Chemical Processes	32	--	--	--	--	--	1.2
	Other Process Use	62	0	*	4	*	0	4
	Direct Uses-Total Nonprocess	3,362	0	*	37	*	*	3.1
	Facility HVAC (g)	1,758	0	*	7	*	*	5.8
	Facility Lighting	1,349	--	--	--	--	--	1.2
	Other Facility Support	250	0	*	2	*	0	4
	Onsite Transportation	2	--	*	*	*	--	5.7
	Conventional Electricity Generation	--	0	*	28	*	*	1.3
	Other Nonprocess Use	3	0	*	*	*	0	3.6
	End Use Not Reported	366	1	*	6	*	0	7.1
324110	**Petroleum Refineries**							
	RSE Column Factors:	NF	1.3	0.6	0.9	0.8	4.1	
	TOTAL FUEL CONSUMPTION	51,750	3	1	799	5	*	3.8
	Indirect Uses-Boiler Fuel	400	2	*	270	1	*	3.6
	Conventional Boiler Use	212	1	*	139	1	*	4.4
	CHP and/or Cogeneration Process	189	1	*	131	*	*	2.2
	Direct Uses-Total Process	48,353	1	*	493	4	*	4.4
	Process Heating	2,930	1	*	477	4	*	4.6
	Process Cooling and Refrigeration	2,983	0	*	2	*	0	1.8
	Machine Drive	42,357	0	*	11	*	0	7.4
	Electro-Chemical Processes	31	--	--	--	--	--	1
	Other Process Use	52	0	0	3	*	0	2.2
	Direct Uses-Total Nonprocess	2,937	0	*	34	*	0	2
	Facility HVAC (g)	1,527	0	0	5	*	0	2.5
	Facility Lighting	1,191	--	--	--	--	--	1.2
	Other Facility Support	218	0	*	1	*	0	5.3
	Onsite Transportation	Q	--	*	*	*	--	1.8
	Conventional Electricity Generation	--	0	*	28	*	0	1.9
	Other Nonprocess Use	0	0	*	*	0	0	1.7
	End Use Not Reported	60	1	*	2	0	0	3.9
324199	**Other Petroleum and Coal Products**							
	RSE Column Factors:	NF	0.8	2	0.9	0.8	0.8	
	TOTAL FUEL CONSUMPTION	692	*	*	4	*	1	1.6
	Indirect Uses-Boiler Fuel	11	*	0	1	0	W	1.1

Table 5.3 End Uses of Fuel Consumption, 2002;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Conventional Boiler Use	8	*	0	1	0	W	1.1
	CHP and/or Cogeneration Process	3	0	0	*	0	W	1.1
	Direct Uses-Total Process	504	*	*	4	*	W	1.2
	Process Heating	120	*	*	3	*	W	1
	Process Cooling and Refrigeration	38	0	*	0	0	0	0.8
	Machine Drive	346	0	*	*	*	0	1.4
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	0	*	0	0	1.1
	Direct Uses-Total Nonprocess	34	0	*	*	*	*	1.7
	Facility HVAC (g)	16	0	0	*	*	*	1.1
	Facility Lighting	16	--	--	--	--	--	1
	Other Facility Support	2	0	0	*	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1.9
	Conventional Electricity Generation	--	0	*	*	0	*	0.9
	Other Nonprocess Use	0	0	*	0	0	0	0.7
	End Use Not Reported	143	0	*	0	0	0	0.8
325	**CHEMICALS**							
	RSE Column Factors:	NF	0.6	3	0.8	1.2	2	
	TOTAL FUEL CONSUMPTION	203,890	6	2	1,634	9	14	6.3
	Indirect Uses-Boiler Fuel	1,041	3	W	903	W	14	6.2
	Conventional Boiler Use	785	W	W	439	W	4	4.7
	CHP and/or Cogeneration Process	256	W	*	464	*	10	3.5
	Direct Uses-Total Process	176,667	3	*	663	W	*	5.6
	Process Heating	6,751	3	*	573	W	*	6
	Process Cooling and Refrigeration	17,210	0	*	25	*	0	3.1
	Machine Drive	117,068	*	*	42	W	0	4.7
	Electro-Chemical Processes	35,371	--	--	--	--	--	1
	Other Process Use	267	*	*	27	*	*	7.4
	Direct Uses-Total Nonprocess	22,814	W	W	46	W	*	7.8
	Facility HVAC (g)	11,827	W	*	32	W	*	7.8
	Facility Lighting	8,723	--	--	--	--	--	1.2
	Other Facility Support	W	*	*	3	*	*	5.5
	Onsite Transportation	W	--	W	1	W	--	3.8
	Conventional Electricity Generation	--	0	*	7	*	0	2
	Other Nonprocess Use	145	*	*	3	*	0	4.6
	End Use Not Reported	3,368	W	W	19	W	*	12.7

Table 5.3 End Uses of Fuel Consumption, 2002;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
325110	**Petrochemicals**							
	RSE Column Factors:	NF	1	1.3	0.9	0.9	1	
	TOTAL FUEL CONSUMPTION	9,104	W	*	167	W	W	1.1
	Indirect Uses-Boiler Fuel	170	W	*	53	W	W	1
	Conventional Boiler Use	170	W	*	35	W	0	1
	CHP and/or Cogeneration Process	0	0	0	19	*	W	1.1
	Direct Uses-Total Process	7,251	0	*	107	W	0	1
	Process Heating	414	0	0	W	W	0	1.1
	Process Cooling and Refrigeration	737	0	0	1	0	0	1.1
	Machine Drive	5,722	0	*	W	*	0	1
	Electro-Chemical Processes	342	--	--	--	--	--	1
	Other Process Use	36	0	0	*	0	0	1.1
	Direct Uses-Total Nonprocess	1,148	0	*	5	W	0	1.9
	Facility HVAC (g)	423	0	*	W	W	0	1.1
	Facility Lighting	541	--	--	--	--	--	1
	Other Facility Support	131	0	0	1	0	0	1.1
	Onsite Transportation	52	--	*	1	0	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1.1
	Other Nonprocess Use	0	0	*	W	0	0	0.9
	End Use Not Reported	535	0	*	2	0	0	1
325120	**Industrial Gases**							
	RSE Column Factors:	NF	0.7	0.5	2	0.8	0.7	
	TOTAL FUEL CONSUMPTION	24,823	0	*	51	*	0	5.8
	Indirect Uses-Boiler Fuel	0	0	*	44	*	0	1.8
	Conventional Boiler Use	0	0	*	W	*	0	2.6
	CHP and/or Cogeneration Process	0	0	0	W	0	0	0.9
	Direct Uses-Total Process	23,477	0	*	W	*	0	1.6
	Process Heating	185	0	*	7	*	0	1.6
	Process Cooling and Refrigeration	2,322	0	*	*	*	0	1.8
	Machine Drive	20,943	0	*	W	*	0	2.2
	Electro-Chemical Processes	27	--	--	--	--	--	1.7
	Other Process Use	0	0	0	*	0	0	0.9
	Direct Uses-Total Nonprocess	911	0	*	*	*	0	4.2
	Facility HVAC (g)	453	0	*	*	*	0	2.4
	Facility Lighting	411	--	--	--	--	--	1.3

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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Other Facility Support	47	0	*	*	*	0	2.8
	Onsite Transportation	0	--	*	0	*	--	1.6
	Conventional Electricity Generation	--	0	*	*	0	0	0.8
	Other Nonprocess Use	0	0	0	0	0	0	1.5
	End Use Not Reported	434	0	*	*	0	0	4.1
325181	**Alkalies and Chlorine**							
	RSE Column Factors:	NF	1	0.9	1	0.9	1.3	
	TOTAL FUEL CONSUMPTION	18,825	*	*	92	*	1	1.6
	Indirect Uses-Boiler Fuel	5	*	*	76	0	1	1
	Conventional Boiler Use	5	*	*	W	0	W	1
	CHP and/or Cogeneration Process	0	0	0	W	0	W	0.9
	Direct Uses-Total Process	18,209	*	*	W	*	*	1.2
	Process Heating	64	*	*	W	0	*	1.2
	Process Cooling and Refrigeration	521	0	0	0	0	0	1
	Machine Drive	2,451	0	*	0	*	0	1.3
	Electro-Chemical Processes	15,174	--	--	--	--	--	1
	Other Process Use	0	0	0	1	0	0	1
	Direct Uses-Total Nonprocess	610	0	*	W	*	0	1
	Facility HVAC (g)	313	0	0	W	*	0	1
	Facility Lighting	252	--	--	--	--	--	1.1
	Other Facility Support	45	0	0	0	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	*	*	0	0	1
	End Use Not Reported	1	0	0	W	0	0	1
325182	**Carbon Black**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	609	2	*	9	*	0	1
	Indirect Uses-Boiler Fuel	*	0	0	2	0	0	1
	Conventional Boiler Use	*	0	0	2	0	0	1
	CHP and/or Cogeneration Process	0	0	0	*	0	0	1
	Direct Uses-Total Process	512	W	*	7	*	0	1
	Process Heating	8	W	0	7	0	0	1
	Process Cooling and Refrigeration	13	0	0	*	0	0	1

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Machine Drive	492	0	*	*	*	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	97	0	*	*	*	0	1
	Facility HVAC (g)	33	0	0	*	0	0	1
	Facility Lighting	29	--	--	--	--	--	1
	Other Facility Support	35	0	0	*	*	0	1
	Onsite Transportation	1	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	W	0	0	*	0	1
325188	**Other Basic Inorganic Chemicals**							
	RSE Column Factors:	NF	0.7	0.6	3	2.6	0.5	
	TOTAL FUEL CONSUMPTION	26,638	*	*	67	*	1	3.2
	Indirect Uses-Boiler Fuel	46	*	*	19	*	W	2.5
	Conventional Boiler Use	29	*	*	17	*	W	2.7
	CHP and/or Cogeneration Process	17	0	*	2	0	W	2.7
	Direct Uses-Total Process	23,929	*	*	39	*	*	1.7
	Process Heating	583	*	*	38	*	*	2
	Process Cooling and Refrigeration	522	0	0	*	*	0	5.7
	Machine Drive	18,595	0	*	Q	*	0	2.8
	Electro-Chemical Processes	4,214	--	--	--	--	--	1
	Other Process Use	15	0	*	1	*	*	1.8
	Direct Uses-Total Nonprocess	2,101	*	*	3	*	W	2.4
	Facility HVAC (g)	1,147	0	*	2	*	W	3.2
	Facility Lighting	770	--	--	--	--	--	1.2
	Other Facility Support	134	0	0	*	*	0	2.2
	Onsite Transportation	*	--	*	0	*	--	1.8
	Conventional Electricity Generation	--	0	*	*	0	0	1.2
	Other Nonprocess Use	50	*	0	*	*	0	4
	End Use Not Reported	561	*	*	6	*	*	4.5
325192	**Cyclic Crudes and Intermediates**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	W	*	*	36	*	0	1

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Indirect Uses-Boiler Fuel	2	*	*	25	0	0	1
	Conventional Boiler Use	2	*	*	W	0	0	1
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1
	Direct Uses-Total Process	3,101	*	*	W	*	0	1
	Process Heating	228	*	0	W	*	0	1
	Process Cooling and Refrigeration	560	0	0	0	*	0	1
	Machine Drive	1,975	0	*	0	0	0	1
	Electro-Chemical Processes	337	--	--	--	--	--	1
	Other Process Use	2	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	W	0	*	W	*	0	1
	Facility HVAC (g)	W	0	0	W	0	0	1
	Facility Lighting	146	--	--	--	--	--	1
	Other Facility Support	97	0	0	*	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	*	*	*	0	1
325193	**Ethyl Alcohol**							
	RSE Column Factors:	NF	0.9	0.6	1	0.6	1.7	
	TOTAL FUEL CONSUMPTION	1,798	0	*	29	*	1	4.2
	Indirect Uses-Boiler Fuel	73	0	*	18	*	1	1.6
	Conventional Boiler Use	73	0	*	17	*	1	1.7
	CHP and/or Cogeneration Process	0	0	*	1	0	*	1
	Direct Uses-Total Process	1,645	0	*	10	*	*	2.1
	Process Heating	6	0	0	9	*	*	1.4
	Process Cooling and Refrigeration	75	0	0	0	*	0	1
	Machine Drive	1,564	0	*	0	0	0	2.4
	Electro-Chemical Processes	0	--	--	--	--	--	1.1
	Other Process Use	0	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	81	0	*	1	*	0	1.3
	Facility HVAC (g)	34	0	0	1	*	0	1
	Facility Lighting	42	--	--	--	--	--	1.3
	Other Facility Support	5	0	0	0	0	0	0.8
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	0	0	0	0	0.8
	Other Nonprocess Use	0	0	0	*	0	0	1
	End Use Not Reported	0	0	0	1	*	0	3.8

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
325199	**Other Basic Organic Chemicals**							
	RSE Column Factors:	NF	0.6	1.9	1	1.4	0.7	
	TOTAL FUEL CONSUMPTION	35,555	W	*	414	W	W	14.3
	Indirect Uses-Boiler Fuel	115	1	*	228	W	W	8.5
	Conventional Boiler Use	100	1	*	120	W	W	8.2
	CHP and/or Cogeneration Process	15	0	*	108	0	W	1.9
	Direct Uses-Total Process	31,424	W	*	175	W	0	6
	Process Heating	1,905	W	*	130	W	0	6.6
	Process Cooling and Refrigeration	3,766	0	*	20	*	0	1.9
	Machine Drive	20,058	0	*	6	*	0	4.5
	Electro-Chemical Processes	5,668	--	--	--	--	--	1.2
	Other Process Use	27	0	*	17	*	0	5.4
	Direct Uses-Total Nonprocess	3,925	W	*	10	W	0	6.9
	Facility HVAC (g)	1,901	W	*	6	*	0	4.7
	Facility Lighting	1,589	--	--	--	--	--	1.5
	Other Facility Support	327	0	*	1	*	0	2.1
	Onsite Transportation	106	--	*	*	W	--	2.9
	Conventional Electricity Generation	--	0	*	3	0	0	1
	Other Nonprocess Use	1	0	*	*	*	0	1
	End Use Not Reported	92	0	*	1	W	0	4.2
325211	**Plastics Materials and Resins**							
	RSE Column Factors:	NF	0.5	1	1.1	2.4	1.3	
	TOTAL FUEL CONSUMPTION	37,720	*	*	339	*	1	9.8
	Indirect Uses-Boiler Fuel	203	*	*	236	*	1	3.3
	Conventional Boiler Use	203	*	*	47	*	1	2.1
	CHP and/or Cogeneration Process	0	0	0	189	0	Q	1.6
	Direct Uses-Total Process	34,801	*	*	94	*	0	3.3
	Process Heating	W	*	*	89	*	0	4.2
	Process Cooling and Refrigeration	3,328	0	*	1	*	0	1.4
	Machine Drive	21,377	0	*	2	*	0	4.6
	Electro-Chemical Processes	W	--	--	--	--	--	1.2
	Other Process Use	36	0	*	2	*	0	11.2
	Direct Uses-Total Nonprocess	2,473	*	*	5	*	0	4.9
	Facility HVAC (g)	1,237	*	*	W	*	0	5.8

Table 5.3 End Uses of Fuel Consumption, 2002;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Facility Lighting	1,048	--	--	--	--	--	1.2
	Other Facility Support	174	0	*	*	*	0	2.3
	Onsite Transportation	Q	--	*	*	*	--	4
	Conventional Electricity Generation	--	0	*	1	0	0	1.6
	Other Nonprocess Use	6	0	*	W	*	0	4.5
	End Use Not Reported	Q	*	*	3	*	*	10.1
325212	**Synthetic Rubber**							
	RSE Column Factors:	NF	3.7	0.9	1	1.2	0.3	
	TOTAL FUEL CONSUMPTION	2,177	*	*	27	*	*	10.4
	Indirect Uses-Boiler Fuel	3	*	*	23	0	*	7.6
	Conventional Boiler Use	3	*	*	W	0	*	8.5
	CHP and/or Cogeneration Process	0	0	0	W	0	*	2.2
	Direct Uses-Total Process	1,841	*	*	W	*	*	3.7
	Process Heating	Q	*	*	2	*	*	3.5
	Process Cooling and Refrigeration	218	0	0	W	0	0	2.6
	Machine Drive	1,488	0	*	W	*	0	3.2
	Electro-Chemical Processes	0	--	--	--	--	--	1.2
	Other Process Use	0	*	0	*	0	0	5.1
	Direct Uses-Total Nonprocess	331	*	*	W	*	*	4.1
	Facility HVAC (g)	186	*	0	W	0	*	5.7
	Facility Lighting	116	--	--	--	--	--	1.5
	Other Facility Support	27	0	0	*	*	0	4.8
	Onsite Transportation	1	--	*	0	*	--	1.3
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	Q	0	0	*	0	0	1.7
	End Use Not Reported	2	0	*	W	*	0	2.4
325222	**Noncellulosic Organic Fibers**							
	RSE Column Factors:	NF	1.6	0.8	0.8	1.5	0.9	
	TOTAL FUEL CONSUMPTION	5,292	W	*	29	*	W	1.9
	Indirect Uses-Boiler Fuel	72	W	*	21	*	W	1.2
	Conventional Boiler Use	W	W	*	W	*	W	1.2
	CHP and/or Cogeneration Process	W	W	*	W	0	W	1.1
	Direct Uses-Total Process	4,505	W	*	8	*	0	1.5
	Process Heating	659	W	*	8	*	0	1.6

Table 5.3 End Uses of Fuel Consumption, 2002;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Process Cooling and Refrigeration	903	0	0	*	0	0	1.2
	Machine Drive	2,912	*	*	0	*	0	0.9
	Electro-Chemical Processes	4	--	--	--	--	--	1
	Other Process Use	27	0	0	*	0	0	1.2
	Direct Uses-Total Nonprocess	713	W	*	*	*	0	1.7
	Facility HVAC (g)	340	W	*	*	*	0	1.1
	Facility Lighting	311	--	--	--	--	--	1
	Other Facility Support	45	*	*	*	0	0	1.1
	Onsite Transportation	0	--	*	0	*	--	0.9
	Conventional Electricity Generation	--	0	*	*	0	0	1.2
	Other Nonprocess Use	17	0	*	0	0	0	1.2
	End Use Not Reported	2	0	*	*	*	0	1.1
325311	**Nitrogenous Fertilizers**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	4,076	0	*	184	*	0	1
	Indirect Uses-Boiler Fuel	6	0	*	52	*	0	1
	Conventional Boiler Use	6	0	*	45	*	0	1
	CHP and/or Cogeneration Process	0	0	0	7	0	0	1
	Direct Uses-Total Process	3,577	0	*	129	*	0	1
	Process Heating	194	0	0	121	*	0	1
	Process Cooling and Refrigeration	392	0	0	0	0	0	1
	Machine Drive	2,990	0	*	8	*	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	1	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	230	0	*	3	*	0	1
	Facility HVAC (g)	80	0	0	1	*	0	1
	Facility Lighting	115	--	--	--	--	--	1
	Other Facility Support	34	0	0	0	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	2	0	0	1
	Other Nonprocess Use	0	0	*	0	0	0	1
	End Use Not Reported	263	0	*	0	*	0	1
325312	**Phosphatic Fertilizers**							
	RSE Column Factors:	NF	1	1	1	1	1	

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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	3,695	*	*	18	*	*	1
	Indirect Uses-Boiler Fuel	3	*	*	4	0	0	1
	Conventional Boiler Use	3	*	*	*	0	0	1
	CHP and/or Cogeneration Process	0	*	*	*	0	0	1
	Direct Uses-Total Process	3,373	*	*	14	*	*	1
	Process Heating	13	*	*	14	*	*	1
	Process Cooling and Refrigeration	10	0	0	0	0	0	1
	Machine Drive	3,350	0	*	0	0	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	313	0	*	*	*	0	1
	Facility HVAC (g)	116	0	0	*	0	0	1
	Facility Lighting	108	--	--	--	--	--	1
	Other Facility Support	72	0	0	0	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	18	0	*	0	0	0	1
	End Use Not Reported	6	0	0	0	*	0	1
3254	**Pharmaceuticals and Medicines**							
	RSE Column Factors:	NF	0.6	2.9	1.8	1.2	0.3	
	TOTAL FUEL CONSUMPTION	11,970	*	*	60	*	*	4.3
	Indirect Uses-Boiler Fuel	17	*	*	44	*	*	4.5
	Conventional Boiler Use	17	*	*	27	*	*	5.6
	CHP and/or Cogeneration Process	0	*	*	17	0	0	1
	Direct Uses-Total Process	6,210	0	*	9	*	0	5.7
	Process Heating	373	0	*	8	*	0	3
	Process Cooling and Refrigeration	2,156	0	*	*	0	0	3.1
	Machine Drive	3,541	0	*	*	*	0	7.4
	Electro-Chemical Processes	30	--	--	--	--	--	1.5
	Other Process Use	Q	0	*	*	0	0	5.2
	Direct Uses-Total Nonprocess	5,422	0	*	6	*	0	4
	Facility HVAC (g)	3,241	0	*	5	*	0	3.8
	Facility Lighting	1,686	--	--	--	--	--	1.2
	Other Facility Support	437	0	*	*	*	0	3.6
	Onsite Transportation	28	--	*	0	*	--	3.5
	Conventional Electricity Generation	--	0	*	*	*	0	1
	Other Nonprocess Use	30	0	*	1	0	0	4.2

Table 5.3 End Uses of Fuel Consumption, 2002;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	End Use Not Reported	321	*	*	1	*	0	9.4
325412	**Pharmaceutical Preparation**							
	RSE Column Factors:	NF	0.7	1.6	2	1.4	0.4	
	TOTAL FUEL CONSUMPTION	9,116	*	*	39	*	*	5
	Indirect Uses-Boiler Fuel	8	*	*	27	0	*	3
	Conventional Boiler Use	8	*	*	18	0	*	3.6
	CHP and/or Cogeneration Process	0	*	*	9	0	0	1
	Direct Uses-Total Process	4,737	0	*	7	*	0	6.4
	Process Heating	326	0	*	6	*	0	3
	Process Cooling and Refrigeration	1,589	0	0	*	0	0	1.8
	Machine Drive	2,702	0	*	*	*	0	5.2
	Electro-Chemical Processes	14	--	--	--	--	--	1.1
	Other Process Use	Q	0	*	*	0	0	6.1
	Direct Uses-Total Nonprocess	4,152	0	*	5	*	0	6.8
	Facility HVAC (g)	2,448	0	*	4	*	0	5.7
	Facility Lighting	1,306	--	--	--	--	--	1.2
	Other Facility Support	345	0	*	*	*	0	2.8
	Onsite Transportation	26	--	*	0	*	--	3.5
	Conventional Electricity Generation	--	0	*	*	0	0	0.8
	Other Nonprocess Use	27	0	*	1	0	0	3.9
	End Use Not Reported	219	0	*	1	*	0	14.4
325992	**Photographic Film, Paper, Plate, and Chemicals**							
	RSE Column Factors:	NF	0.4	1.3	2	1.5	0.5	
	TOTAL FUEL CONSUMPTION	2,384	*	*	7	*	W	6.6
	Indirect Uses-Boiler Fuel	190	*	*	4	0	W	3
	Conventional Boiler Use	35	*	*	2	0	0	4.7
	CHP and/or Cogeneration Process	156	*	*	3	0	W	1.1
	Direct Uses-Total Process	1,528	0	*	2	*	0	2.4
	Process Heating	125	0	*	1	*	0	2
	Process Cooling and Refrigeration	337	0	0	0	0	0	2.6
	Machine Drive	1,025	0	*	*	0	0	3.2
	Electro-Chemical Processes	41	--	--	--	--	--	1
	Other Process Use	0	0	*	*	0	0	0.9
	Direct Uses-Total Nonprocess	601	0	*	1	*	0	7.6

Table 5.3 End Uses of Fuel Consumption, 2002;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Facility HVAC (g)	305	0	*	1	*	0	2.9
	Facility Lighting	274	--	--	--	--	--	1.4
	Other Facility Support	18	0	*	*	0	0	2.8
	Onsite Transportation	4	--	*	0	*	--	3.4
	Conventional Electricity Generation	--	0	0	0	*	0	0.8
	Other Nonprocess Use	*	0	*	*	0	0	0.7
	End Use Not Reported	Q	0	0	*	*	0	8
326	**PLASTICS AND RUBBER PRODUCTS**							
	RSE Column Factors:	NF	1.5	2.4	1.6	2	0.4	
	TOTAL FUEL CONSUMPTION	W	1	*	125	1	Q	7.9
	Indirect Uses-Boiler Fuel	156	1	*	48	W	W	7.8
	Conventional Boiler Use	39	1	*	46	W	W	9.4
	CHP and/or Cogeneration Process	116	0	0	2	0	W	6.1
	Direct Uses-Total Process	39,391	*	*	38	W	0	9.2
	Process Heating	7,722	*	*	36	W	0	7.3
	Process Cooling and Refrigeration	4,128	0	0	1	0	0	8.5
	Machine Drive	26,890	*	*	1	*	0	5.5
	Electro-Chemical Processes	208	--	--	--	--	--	1.7
	Other Process Use	442	0	*	1	*	0	15.1
	Direct Uses-Total Nonprocess	10,478	*	*	27	W	0	7.4
	Facility HVAC (g)	4,960	*	*	24	W	0	9.8
	Facility Lighting	4,058	--	--	--	--	--	1.3
	Other Facility Support	1,195	0	*	1	*	0	9.8
	Onsite Transportation	124	--	*	*	*	--	3.9
	Conventional Electricity Generation	--	0	*	Q	*	0	3
	Other Nonprocess Use	Q	0	*	1	*	0	13.1
	End Use Not Reported	W	0	*	12	W	0	22.8
327	**NONMETALLIC MINERAL PRODUCTS**							
	RSE Column Factors:	NF	0.3	4.4	1.4	2.6	0.3	
	TOTAL FUEL CONSUMPTION	42,223	*	5	410	1	14	4.5
	Indirect Uses-Boiler Fuel	67	*	W	12	*	W	5.5
	Conventional Boiler Use	24	*	W	10	*	W	6.6
	CHP and/or Cogeneration Process	42	*	*	3	0	*	1.9
	Direct Uses-Total Process	35,638	*	2	355	*	W	3.7

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Process Heating	8,521	*	1	348	*	W	3.3
	Process Cooling and Refrigeration	1,457	0	*	*	0	0	3.1
	Machine Drive	25,024	0	1	2	*	0	6.3
	Electro-Chemical Processes	Q	--	--	--	--	--	1.1
	Other Process Use	255	0	*	Q	*	0	1.5
	Direct Uses-Total Nonprocess	5,206	*	3	21	*	*	4.5
	Facility HVAC (g)	2,615	*	*	20	*	*	6.1
	Facility Lighting	2,031	--	--	--	--	--	1.3
	Other Facility Support	505	0	*	1	*	0	7.5
	Onsite Transportation	50	--	2	*	*	--	3.4
	Conventional Electricity Generation	--	0	Q	0	*	0	0.9
	Other Nonprocess Use	Q	0	Q	*	*	0	1.4
	End Use Not Reported	1,311	*	W	22	*	*	8.6
3272	**Glass and Glass Products**							
	RSE Column Factors:	NF	0.6	0.8	1.4	1.4	0.7	
	TOTAL FUEL CONSUMPTION	12,244	W	W	148	*	0	3
	Indirect Uses-Boiler Fuel	6	*	W	2	*	0	1.7
	Conventional Boiler Use	6	*	W	2	*	0	1.6
	CHP and/or Cogeneration Process	0	0	*	*	0	0	1.7
	Direct Uses-Total Process	10,166	W	*	137	*	0	1.3
	Process Heating	4,683	W	*	135	*	0	1.4
	Process Cooling and Refrigeration	596	0	*	*	0	0	1.4
	Machine Drive	4,769	0	*	1	*	0	3.8
	Electro-Chemical Processes	22	--	--	--	--	--	1.7
	Other Process Use	97	0	*	1	*	0	0.8
	Direct Uses-Total Nonprocess	1,812	W	*	7	*	0	1.9
	Facility HVAC (g)	977	W	*	7	*	0	1.8
	Facility Lighting	674	--	--	--	--	--	1.2
	Other Facility Support	120	0	*	*	*	0	2
	Onsite Transportation	39	--	*	*	*	--	1.4
	Conventional Electricity Generation	--	0	*	0	*	0	0.9
	Other Nonprocess Use	1	0	*	0	0	0	5.5
	End Use Not Reported	260	0	*	2	*	0	29.8
327211	**Flat Glass**							
	RSE Column Factors:	NF	1	1	1	1	1	

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
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Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	W	W	W	51	*	0	1
	Indirect Uses-Boiler Fuel	0	0	W	*	0	0	1
	Conventional Boiler Use	0	0	W	*	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	W	W	*	49	*	0	1
	Process Heating	W	W	*	49	*	0	1
	Process Cooling and Refrigeration	114	0	0	*	0	0	1
	Machine Drive	817	0	*	*	*	0	1
	Electro-Chemical Processes	5	--	--	--	--	--	1
	Other Process Use	37	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	W	*	*	1	*	0	1
	Facility HVAC (g)	W	*	0	1	0	0	1
	Facility Lighting	117	--	--	--	--	--	1
	Other Facility Support	21	0	*	*	*	0	1
	Onsite Transportation	6	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	0	0	*	0	1
327213	**Glass Containers**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	3,933	0	*	51	*	0	1
	Indirect Uses-Boiler Fuel	2	0	0	*	0	0	1
	Conventional Boiler Use	2	0	0	*	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	3,457	0	*	48	*	0	1
	Process Heating	1,219	0	0	48	*	0	1
	Process Cooling and Refrigeration	69	0	0	0	0	0	1
	Machine Drive	2,154	0	*	0	0	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	15	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	474	0	*	2	*	0	1
	Facility HVAC (g)	285	0	*	2	0	0	1
	Facility Lighting	167	--	--	--	--	--	1
	Other Facility Support	18	0	*	*	0	0	1
	Onsite Transportation	5	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	0	0	0	0	1
327310	**Cements**							
	RSE Column Factors:	NF	0.7	1.3	1.5	1.1	0.8	
	TOTAL FUEL CONSUMPTION	13,152	*	1	21	*	11	2.1
	Indirect Uses-Boiler Fuel	42	0	W	W	*	W	1.1
	Conventional Boiler Use	0	0	W	*	*	W	1.1
	CHP and/or Cogeneration Process	42	0	0	W	0	0	0.9
	Direct Uses-Total Process	12,070	*	W	W	*	W	1.5
	Process Heating	994	*	W	W	*	W	1.5
	Process Cooling and Refrigeration	341	0	0	0	0	0	1.1
	Machine Drive	10,651	0	*	*	*	0	1
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	84	0	0	*	*	0	0.9
	Direct Uses-Total Nonprocess	809	0	W	1	*	*	2
	Facility HVAC (g)	392	0	*	1	*	*	2.2
	Facility Lighting	307	--	--	--	--	--	1.2
	Other Facility Support	109	0	*	*	*	0	0.9
	Onsite Transportation	2	--	W	0	*	--	1.6
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	0	0	*	0	0	0	0.9
	End Use Not Reported	230	0	*	*	*	*	1.4
327410	**Lime**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	1,353	*	*	7	*	3	1
	Indirect Uses-Boiler Fuel	0	0	0	0	0	0	1
	Conventional Boiler Use	0	0	0	0	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	1,253	*	*	7	*	3	1
	Process Heating	272	*	*	7	*	3	1
	Process Cooling and Refrigeration	3	0	0	0	0	0	1
	Machine Drive	977	0	*	*	*	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	0	0	0	0	1

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Direct Uses-Total Nonprocess	101	*	*	*	*	0	1
	Facility HVAC (g)	46	*	*	*	*	0	1
	Facility Lighting	47	--	--	--	--	--	1
	Other Facility Support	8	0	0	*	*	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	*	*	*	0	1
	End Use Not Reported	0	*	*	0	*	0	1
327993	**Mineral Wool**							
	RSE Column Factors:	NF	0.9	0.6	1.2	1.2	0.9	
	TOTAL FUEL CONSUMPTION	3,750	0	*	34	*	0	1.2
	Indirect Uses-Boiler Fuel	0	0	0	1	0	0	1
	Conventional Boiler Use	0	0	0	1	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1.2
	Direct Uses-Total Process	3,439	0	*	31	*	0	1.1
	Process Heating	1,502	0	*	31	*	0	1.2
	Process Cooling and Refrigeration	104	0	0	0	0	0	0.9
	Machine Drive	1,762	0	*	*	*	0	1.6
	Electro-Chemical Processes	7	--	--	--	--	--	1
	Other Process Use	64	0	0	*	0	0	0.9
	Direct Uses-Total Nonprocess	309	0	*	2	*	0	1.6
	Facility HVAC (g)	114	0	*	2	*	0	1.6
	Facility Lighting	168	--	--	--	--	--	1.2
	Other Facility Support	26	0	*	*	0	0	1.7
	Onsite Transportation	2	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	*	0	0	0	1.1
	Other Nonprocess Use	0	0	0	0	*	0	1
	End Use Not Reported	Q	0	*	*	*	0	7.5
331	**PRIMARY METALS**							
	RSE Column Factors:	NF	1.6	1.3	1	1.4	0.8	
	TOTAL FUEL CONSUMPTION	150,522	*	3	652	1	2	2.5
	Indirect Uses-Boiler Fuel	271	*	*	69	*	*	2.5
	Conventional Boiler Use	219	*	*	39	*	*	2.7
	CHP and/or Cogeneration Process	52	0	*	30	0	*	1.2

Table 5.3 End Uses of Fuel Consumption, 2002;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Direct Uses-Total Process	138,319	*	1	526	*	2	3.5
	Process Heating	42,266	*	1	516	*	1	4.2
	Process Cooling and Refrigeration	1,232	0	0	1	0	0	2.4
	Machine Drive	48,373	*	*	W	*	0	3.7
	Electro-Chemical Processes	46,244	--	--	--	--	--	1
	Other Process Use	203	0	*	W	*	*	2.6
	Direct Uses-Total Nonprocess	11,191	*	1	51	*	*	1.8
	Facility HVAC (g)	5,525	*	*	43	*	*	3.2
	Facility Lighting	4,426	--	--	--	--	--	1.1
	Other Facility Support	1,055	0	*	5	*	0	3.7
	Onsite Transportation	36	--	1	*	*	--	2.2
	Conventional Electricity Generation	--	0	*	3	*	*	2
	Other Nonprocess Use	148	0	*	*	*	0	3.3
	End Use Not Reported	742	*	*	5	*	*	6.8
331111	**Iron and Steel Mills**							
	RSE Column Factors:	NF	0.5	1.7	1	1.9	1	
	TOTAL FUEL CONSUMPTION	58,067	*	2	377	*	2	3.3
	Indirect Uses-Boiler Fuel	174	*	*	38	*	W	1.8
	Conventional Boiler Use	141	*	*	22	*	W	1.4
	CHP and/or Cogeneration Process	33	0	*	15	0	W	1
	Direct Uses-Total Process	54,132	*	W	321	*	W	3.3
	Process Heating	23,346	*	W	321	*	W	1.9
	Process Cooling and Refrigeration	441	0	0	1	0	0	1.2
	Machine Drive	28,803	0	*	*	*	0	3.9
	Electro-Chemical Processes	1,477	--	--	--	--	--	1
	Other Process Use	65	0	*	*	0	*	2
	Direct Uses-Total Nonprocess	3,586	0	W	18	*	0	3.2
	Facility HVAC (g)	1,709	0	*	13	*	0	3.2
	Facility Lighting	1,552	--	--	--	--	--	1.2
	Other Facility Support	319	0	0	2	0	0	2.4
	Onsite Transportation	6	--	W	0	*	--	2.1
	Conventional Electricity Generation	--	0	0	2	0	0	1.2
	Other Nonprocess Use	0	0	*	0	0	0	5.1
	End Use Not Reported	Q	*	*	Q	*	0	1.8
331112	**Electrometallurgical Ferroalloy Products**							

Table 5.3 End Uses of Fuel Consumption, 2002;
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NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	RSE Column Factors:	NF	1	1.1	0.8	0.9	0.7	
	TOTAL FUEL CONSUMPTION	3,555	0	*	7	*	*	3.4
	Indirect Uses-Boiler Fuel	35	0	0	*	*	0	0.9
	Conventional Boiler Use	35	0	0	*	*	0	0.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	3,291	0	*	6	0	*	1.6
	Process Heating	1,901	0	0	5	0	0	2.3
	Process Cooling and Refrigeration	*	0	0	0	0	0	0.8
	Machine Drive	200	0	*	0	0	0	2.2
	Electro-Chemical Processes	1,186	--	--	--	--	--	1
	Other Process Use	4	0	*	*	0	*	1
	Direct Uses-Total Nonprocess	229	0	*	1	*	0	0.9
	Facility HVAC (g)	156	0	*	1	*	0	0.9
	Facility Lighting	72	--	--	--	--	--	1
	Other Facility Support	1	0	0	*	0	0	0.9
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	*	0	0	0	0.8
	Other Nonprocess Use	1	0	0	0	0	0	0.8
	End Use Not Reported	0	0	*	*	0	0	4.1
3312	**Steel Products from Purchased Steel**							
	RSE Column Factors:	NF	0.5	2	1.3	2.7	0.6	
	TOTAL FUEL CONSUMPTION	4,611	*	*	23	*	0	10.9
	Indirect Uses-Boiler Fuel	7	*	*	W	*	0	3.9
	Conventional Boiler Use	7	*	*	W	*	0	3.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	3.5
	Direct Uses-Total Process	3,693	*	*	16	*	0	6.1
	Process Heating	W	*	*	W	*	0	8
	Process Cooling and Refrigeration	57	0	0	*	0	0	8.7
	Machine Drive	2,359	0	*	W	*	0	7.2
	Electro-Chemical Processes	W	--	--	--	--	--	1.1
	Other Process Use	25	0	*	0	0	0	10.6
	Direct Uses-Total Nonprocess	882	*	*	W	*	0	3.4
	Facility HVAC (g)	398	*	*	3	*	0	4.9
	Facility Lighting	353	--	--	--	--	--	1.4
	Other Facility Support	123	0	*	W	*	0	2.8
	Onsite Transportation	Q	--	*	0	*	--	2.5

Table 5.3 End Uses of Fuel Consumption, 2002;
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NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Conventional Electricity Generation	--	0	0	0	*	0	3.2
	Other Nonprocess Use	4	0	*	0	0	0	3.4
	End Use Not Reported	Q	0	*	W	*	0	29
3313	**Alumina and Aluminum**							
	RSE Column Factors:	NF	0.4	1.6	1.6	2.2	0.5	
	TOTAL FUEL CONSUMPTION	57,458	*	*	127	*	0	2.1
	Indirect Uses-Boiler Fuel	34	*	*	18	*	0	2.6
	Conventional Boiler Use	15	*	*	W	*	0	3.4
	CHP and/or Cogeneration Process	19	0	0	W	0	0	0.9
	Direct Uses-Total Process	54,829	0	*	101	*	0	1.9
	Process Heating	4,997	0	*	95	*	0	2.2
	Process Cooling and Refrigeration	146	0	0	0	0	0	5.2
	Machine Drive	7,840	0	*	W	*	0	3.6
	Electro-Chemical Processes	41,829	--	--	--	--	--	1
	Other Process Use	Q	0	*	W	0	0	4.2
	Direct Uses-Total Nonprocess	2,422	0	*	W	*	0	3.2
	Facility HVAC (g)	1,269	0	*	6	*	0	1.8
	Facility Lighting	915	--	--	--	--	--	1.3
	Other Facility Support	235	0	0	W	0	0	7
	Onsite Transportation	3	--	*	*	*	--	4.8
	Conventional Electricity Generation	--	0	0	0	0	0	1.1
	Other Nonprocess Use	1	0	0	0	0	0	1.1
	End Use Not Reported	Q	*	*	W	*	0	6.5
331312	**Primary Aluminum**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	W	*	*	19	*	0	1
	Indirect Uses-Boiler Fuel	0	*	*	1	0	0	1
	Conventional Boiler Use	0	*	*	1	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	47,742	0	*	17	*	0	1
	Process Heating	W	0	*	W	*	0	1
	Process Cooling and Refrigeration	Q	0	0	0	0	0	1
	Machine Drive	W	0	*	0	*	0	1
	Electro-Chemical Processes	41,726	--	--	--	--	--	1

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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Other Process Use	0	0	0	W	0	0	1
	Direct Uses-Total Nonprocess	W	0	*	1	*	0	1
	Facility HVAC (g)	W	0	0	1	*	0	1
	Facility Lighting	465	--	--	--	--	--	1
	Other Facility Support	72	0	0	*	0	0	1.6
	Onsite Transportation	0	--	*	*	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	0	0	0	0	1
3314	**Nonferrous Metals, except Aluminum**							
	RSE Column Factors:	NF	0.9	1.4	1.4	1.5	0.4	
	TOTAL FUEL CONSUMPTION	10,926	*	*	42	*	*	4.3
	Indirect Uses-Boiler Fuel	9	*	*	W	*	*	2.9
	Conventional Boiler Use	9	*	*	W	*	*	3.1
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1.3
	Direct Uses-Total Process	9,445	0	*	29	*	*	2
	Process Heating	3,924	0	*	29	*	*	3.4
	Process Cooling and Refrigeration	202	0	0	0	0	0	2.4
	Machine Drive	3,926	0	*	*	*	0	2.2
	Electro-Chemical Processes	1,358	--	--	--	--	--	1
	Other Process Use	35	0	*	*	*	0	2.8
	Direct Uses-Total Nonprocess	1,330	*	*	W	*	*	3.3
	Facility HVAC (g)	635	*	*	4	*	0	3.6
	Facility Lighting	534	--	--	--	--	--	1.3
	Other Facility Support	101	0	0	W	*	0	2.7
	Onsite Transportation	4	--	*	*	*	--	3.8
	Conventional Electricity Generation	--	0	*	*	0	*	3.3
	Other Nonprocess Use	56	0	*	0	0	0	3.8
	End Use Not Reported	143	*	*	W	*	0	7.1
3315	**Foundries**							
	RSE Column Factors:	NF	0.7	1.6	1.2	1.5	0.7	
	TOTAL FUEL CONSUMPTION	15,905	*	*	75	*	*	2.1
	Indirect Uses-Boiler Fuel	12	*	*	3	*	*	1.9
	Conventional Boiler Use	12	*	*	3	*	0	1.8

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	CHP and/or Cogeneration Process	0	0	0	*	0	*	2.3
	Direct Uses-Total Process	12,929	*	*	53	*	*	2.2
	Process Heating	7,154	0	*	51	*	*	2.5
	Process Cooling and Refrigeration	387	0	0	*	0	0	3.6
	Machine Drive	5,245	*	*	W	*	0	3.8
	Electro-Chemical Processes	85	--	--	--	--	--	1
	Other Process Use	58	0	*	W	*	*	3.1
	Direct Uses-Total Nonprocess	2,742	0	*	18	*	*	2.6
	Facility HVAC (g)	1,358	0	*	16	*	*	5
	Facility Lighting	1,001	--	--	--	--	--	1.1
	Other Facility Support	276	0	*	1	*	0	1.9
	Onsite Transportation	20	--	*	*	*	--	2
	Conventional Electricity Generation	--	0	*	*	*	0	1.1
	Other Nonprocess Use	87	0	*	*	*	0	2.5
	End Use Not Reported	222	0	*	2	*	*	9
331511	**Iron Foundries**							
	RSE Column Factors:	NF	0.7	1.1	0.9	2.1	0.9	
	TOTAL FUEL CONSUMPTION	8,216	0	*	27	*	*	2.7
	Indirect Uses-Boiler Fuel	2	0	0	*	*	*	1.1
	Conventional Boiler Use	2	0	0	*	*	0	0.9
	CHP and/or Cogeneration Process	0	0	0	0	0	*	2
	Direct Uses-Total Process	6,779	0	*	17	*	*	2.4
	Process Heating	4,078	0	*	16	*	*	2.7
	Process Cooling and Refrigeration	149	0	0	0	0	0	3.3
	Machine Drive	2,467	0	*	W	*	0	2.9
	Electro-Chemical Processes	59	--	--	--	--	--	1
	Other Process Use	26	0	0	W	*	*	1.4
	Direct Uses-Total Nonprocess	1,317	0	*	9	*	*	3.3
	Facility HVAC (g)	693	0	*	8	*	*	6
	Facility Lighting	471	--	--	--	--	--	1.2
	Other Facility Support	136	0	*	1	*	0	2.4
	Onsite Transportation	11	--	*	*	*	--	2
	Conventional Electricity Generation	--	0	*	*	0	0	2
	Other Nonprocess Use	5	0	*	*	0	0	1.1
	End Use Not Reported	118	0	*	*	*	*	12.2
331521	**Aluminum Die-Casting Foundries**							

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	RSE Column Factors:	NF	0.7	0.9	1.4	1.5	0.8	
	TOTAL FUEL CONSUMPTION	1,897	*	*	16	*	0	2.4
	Indirect Uses-Boiler Fuel	0	*	0	1	*	0	1.2
	Conventional Boiler Use	0	*	0	1	*	0	1.2
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1.5
	Direct Uses-Total Process	1,310	0	*	10	*	0	3.7
	Process Heating	262	0	*	10	*	0	1.7
	Process Cooling and Refrigeration	53	0	0	*	0	0	1.7
	Machine Drive	971	0	0	*	*	0	4.6
	Electro-Chemical Processes	7	--	--	--	--	--	1
	Other Process Use	17	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	549	0	*	4	*	0	2.2
	Facility HVAC (g)	241	0	0	3	*	0	2.2
	Facility Lighting	206	--	--	--	--	--	1.2
	Other Facility Support	46	0	0	*	0	0	3.2
	Onsite Transportation	7	--	*	*	*	--	1.7
	Conventional Electricity Generation	--	0	*	0	*	0	0.9
	Other Nonprocess Use	48	0	0	*	0	0	0.9
	End Use Not Reported	38	0	*	1	*	0	4.6
331524	**Aluminum Foundries, except Die-Casting**							
	RSE Column Factors:	NF	0.8	1	1.2	1.1	0.8	
	TOTAL FUEL CONSUMPTION	1,350	*	*	14	*	0	3.4
	Indirect Uses-Boiler Fuel	1	0	0	*	*	0	0.9
	Conventional Boiler Use	1	0	0	*	*	0	0.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1.3
	Direct Uses-Total Process	1,015	*	*	11	*	0	2.7
	Process Heating	322	0	*	11	*	0	3.4
	Process Cooling and Refrigeration	53	0	0	*	0	0	0.9
	Machine Drive	637	*	*	*	*	0	1.3
	Electro-Chemical Processes	1	--	--	--	--	--	1
	Other Process Use	2	0	0	*	0	0	0.9
	Direct Uses-Total Nonprocess	311	0	*	2	*	0	2.3
	Facility HVAC (g)	148	0	*	2	*	0	1.8
	Facility Lighting	127	--	--	--	--	--	1.3
	Other Facility Support	34	0	0	1	*	0	1.1

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Onsite Transportation	1	--	*	0	*	--	1.4
	Conventional Electricity Generation	--	0	*	0	*	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1.3
	End Use Not Reported	23	0	*	*	*	0	21.7
332	**FABRICATED METAL PRODUCTS**							
	RSE Column Factors:	NF	0.8	3.1	1.4	1.9	0.3	
	TOTAL FUEL CONSUMPTION	47,352	*	1	204	1	*	15.9
	Indirect Uses-Boiler Fuel	16	*	*	W	*	0	12.5
	Conventional Boiler Use	15	*	*	W	*	0	12.8
	CHP and/or Cogeneration Process	*	0	*	W	0	0	1.1
	Direct Uses-Total Process	33,777	*	*	128	*	*	9
	Process Heating	10,866	*	*	126	*	*	13.7
	Process Cooling and Refrigeration	1,642	0	*	*	0	0	9.1
	Machine Drive	20,891	0	*	2	*	0	9.8
	Electro-Chemical Processes	290	--	--	--	--	--	1.6
	Other Process Use	88	0	*	*	*	*	6.8
	Direct Uses-Total Nonprocess	10,232	*	*	44	*	*	6.1
	Facility HVAC (g)	4,798	*	*	42	*	*	6.5
	Facility Lighting	4,473	--	--	--	--	--	1.4
	Other Facility Support	835	0	*	1	*	0	7.4
	Onsite Transportation	35	--	*	*	*	--	4.6
	Conventional Electricity Generation	--	0	*	*	*	0	3.1
	Other Nonprocess Use	91	0	*	Q	*	0	7.9
	End Use Not Reported	3,327	*	*	W	*	0	21.5
333	**MACHINERY**							
	RSE Column Factors:	NF	0.4	3.5	1.8	2.7	0.4	
	TOTAL FUEL CONSUMPTION	24,694	*	*	80	1	*	10.3
	Indirect Uses-Boiler Fuel	Q	*	*	14	*	*	5.9
	Conventional Boiler Use	Q	*	*	13	*	*	10.3
	CHP and/or Cogeneration Process	0	0	*	1	0	*	3.7
	Direct Uses-Total Process	14,975	0	*	32	W	0	6.2
	Process Heating	1,834	0	*	29	W	0	8.9
	Process Cooling and Refrigeration	806	0	0	*	0	0	5.7
	Machine Drive	11,973	0	*	2	*	0	7.4

Table 5.3 End Uses of Fuel Consumption, 2002;
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Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Electro-Chemical Processes	227	--	--	--	--	--	1.6
	Other Process Use	134	0	*	*	*	0	11.3
	Direct Uses-Total Nonprocess	8,648	*	*	30	W	0	5.1
	Facility HVAC (g)	4,550	*	*	29	W	0	6.3
	Facility Lighting	3,385	--	--	--	--	--	1.3
	Other Facility Support	624	0	*	1	*	0	6.8
	Onsite Transportation	56	--	*	*	W	--	5.7
	Conventional Electricity Generation	--	0	*	*	0	0	3.1
	Other Nonprocess Use	32	0	*	*	*	0	11
	End Use Not Reported	1,028	*	*	4	W	0	13.7
334	**COMPUTER AND ELECTRONIC PRODUCTS**							
	RSE Column Factors:	NF	0.6	1.9	1.3	1.2	1.2	
	TOTAL FUEL CONSUMPTION	38,417	*	*	63	*	*	17.7
	Indirect Uses-Boiler Fuel	30	*	*	26	*	*	12.8
	Conventional Boiler Use	30	*	*	26	*	0	11.5
	CHP and/or Cogeneration Process	0	0	0	*	0	*	4.3
	Direct Uses-Total Process	18,145	*	*	10	*	0	5.9
	Process Heating	4,337	*	0	9	*	0	7.1
	Process Cooling and Refrigeration	3,450	0	0	*	*	0	7.3
	Machine Drive	8,752	0	*	*	*	0	3
	Electro-Chemical Processes	545	--	--	--	--	--	1.5
	Other Process Use	1,061	0	*	1	0	0	4.1
	Direct Uses-Total Nonprocess	18,534	*	*	22	*	0	11.6
	Facility HVAC (g)	10,978	*	*	20	*	0	7.6
	Facility Lighting	4,916	--	--	--	--	--	1.5
	Other Facility Support	2,573	*	*	1	*	0	10.3
	Onsite Transportation	29	--	*	*	*	--	3.7
	Conventional Electricity Generation	--	0	*	*	*	0	3.7
	Other Nonprocess Use	38	0	*	1	*	0	5.3
	End Use Not Reported	1,708	*	*	5	*	0	12.6
334413	**Semiconductors and Related Devices**							
	RSE Column Factors:	NF	0.5	0.7	2.3	1.7	0.6	
	TOTAL FUEL CONSUMPTION	13,028	*	*	21	*	0	4
	Indirect Uses-Boiler Fuel	11	*	*	11	0	0	3.2

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Conventional Boiler Use	11	*	*	11	0	0	3.2
	CHP and/or Cogeneration Process	0	0	0	*	0	0	0.8
	Direct Uses-Total Process	7,433	*	*	2	*	0	1.6
	Process Heating	1,243	*	0	1	*	0	1.8
	Process Cooling and Refrigeration	1,524	0	0	*	0	0	1.3
	Machine Drive	4,164	0	*	*	*	0	1.3
	Electro-Chemical Processes	174	--	--	--	--	--	1.2
	Other Process Use	328	0	*	1	0	0	1.5
	Direct Uses-Total Nonprocess	5,339	0	*	6	*	0	2.9
	Facility HVAC (g)	3,954	0	*	6	*	0	1.1
	Facility Lighting	802	--	--	--	--	--	1.2
	Other Facility Support	568	0	*	*	*	0	2.9
	Onsite Transportation	2	--	*	0	*	--	2.8
	Conventional Electricity Generation	--	0	*	0	0	0	1.3
	Other Nonprocess Use	14	0	*	*	0	0	2.3
	End Use Not Reported	244	0	*	2	*	0	4.8
335	**ELEC. EQUIP., APPLIANCES, COMPONENTS**							
	RSE Column Factors:	NF	1.2	2.1	1.5	1.6	0.4	
	TOTAL FUEL CONSUMPTION	13,908	*	*	51	*	*	6.3
	Indirect Uses-Boiler Fuel	39	*	*	6	*	*	2.9
	Conventional Boiler Use	39	*	*	6	*	*	2.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	4.1
	Direct Uses-Total Process	8,641	0	*	27	*	0	5.3
	Process Heating	2,597	0	*	27	*	0	8
	Process Cooling and Refrigeration	614	0	*	*	0	0	8.2
	Machine Drive	4,980	0	*	*	*	0	8.2
	Electro-Chemical Processes	367	--	--	--	--	--	1.5
	Other Process Use	84	0	*	*	*	0	12
	Direct Uses-Total Nonprocess	4,632	*	*	15	*	0	7.3
	Facility HVAC (g)	2,375	*	*	15	*	0	8.6
	Facility Lighting	1,799	--	--	--	--	--	1.3
	Other Facility Support	350	0	*	*	*	0	6.9
	Onsite Transportation	35	--	*	*	*	--	3.3
	Conventional Electricity Generation	--	0	*	*	0	0	1.3
	Other Nonprocess Use	73	0	*	*	*	0	12
	End Use Not Reported	597	*	*	3	*	0	22.4

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
336	**TRANSPORTATION EQUIPMENT**							
	RSE Column Factors:	NF	0.4	2.8	1.6	2.9	0.4	
	TOTAL FUEL CONSUMPTION	W	1	1	197	1	*	5.4
	Indirect Uses-Boiler Fuel	99	W	*	50	*	*	5.4
	Conventional Boiler Use	99	W	*	47	*	*	5.4
	CHP and/or Cogeneration Process	0	W	*	3	0	*	4
	Direct Uses-Total Process	30,232	*	*	73	W	*	7.1
	Process Heating	4,844	*	*	61	W	*	5.9
	Process Cooling and Refrigeration	2,279	*	0	2	*	0	3
	Machine Drive	21,942	0	*	2	*	0	7.8
	Electro-Chemical Processes	508	--	--	--	--	--	1.5
	Other Process Use	659	0	*	Q	*	0	2
	Direct Uses-Total Nonprocess	19,283	W	*	65	W	*	4.2
	Facility HVAC (g)	9,641	W	*	61	*	*	4.3
	Facility Lighting	7,548	--	--	--	--	--	1.3
	Other Facility Support	1,719	*	*	2	*	0	5
	Onsite Transportation	280	--	*	*	W	--	5.6
	Conventional Electricity Generation	--	0	*	1	*	0	3.6
	Other Nonprocess Use	95	0	*	Q	*	0	2.9
	End Use Not Reported	W	*	*	10	*	*	20.7
336112	**Light Trucks and Utility Vehicles**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	4,976	*	*	35	*	W	1
	Indirect Uses-Boiler Fuel	6	*	0	11	*	W	1
	Conventional Boiler Use	6	*	0	11	*	W	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	2,923	0	0	14	*	0	1
	Process Heating	172	0	0	12	0	0	1
	Process Cooling and Refrigeration	271	0	0	1	0	0	1
	Machine Drive	2,220	0	0	*	*	0	1
	Electro-Chemical Processes	76	--	--	--	--	--	1
	Other Process Use	184	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	W	*	*	10	*	0	1
	Facility HVAC (g)	W	*	0	9	*	0	1
	Facility Lighting	819	--	--	--	--	--	1

Table 5.3 End Uses of Fuel Consumption, 2002;
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Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Other Facility Support	205	0	*	*	*	0	1
	Onsite Transportation	80	--	*	*	*	--	1
	Conventional Electricity Generation	--	0	*	*	0	0	1
	Other Nonprocess Use	2	0	0	*	0	0	1
	End Use Not Reported	W	0	0	*	0	0	1
337	**FURNITURE AND RELATED PRODUCTS**							
	RSE Column Factors:	NF	0.5	1	2.1	1.7	1.4	
	TOTAL FUEL CONSUMPTION	7,170	*	*	24	*	*	8.7
	Indirect Uses-Boiler Fuel	73	0	*	1	*	*	6
	Conventional Boiler Use	Q	0	*	1	*	*	6.9
	CHP and/or Cogeneration Process	16	0	0	*	0	*	3.6
	Direct Uses-Total Process	4,080	0	*	10	*	*	8.5
	Process Heating	318	0	*	10	*	*	7.3
	Process Cooling and Refrigeration	134	0	*	*	*	0	3.3
	Machine Drive	3,619	0	*	*	*	0	9.2
	Electro-Chemical Processes	Q	--	--	--	--	--	1.1
	Other Process Use	Q	0	0	0	0	0	3.6
	Direct Uses-Total Nonprocess	2,352	0	*	12	*	*	8
	Facility HVAC (g)	931	0	*	11	*	*	10.3
	Facility Lighting	1,153	--	--	--	--	--	1.4
	Other Facility Support	225	0	*	*	*	0	3.9
	Onsite Transportation	20	--	*	*	*	--	5.2
	Conventional Electricity Generation	--	0	*	0	*	0	1.1
	Other Nonprocess Use	Q	0	*	*	0	0	1.2
	End Use Not Reported	665	*	*	1	*	*	23.1
339	**MISCELLANEOUS**							
	RSE Column Factors:	NF	0.3	2.7	2.1	1.7	0.5	
	TOTAL FUEL CONSUMPTION	10,375	*	*	31	*	0	7.3
	Indirect Uses-Boiler Fuel	W	*	*	9	*	0	3.7
	Conventional Boiler Use	W	*	*	9	*	0	3.7
	CHP and/or Cogeneration Process	0	0	0	0	0	0	3.7
	Direct Uses-Total Process	5,383	0	*	9	*	0	7.4
	Process Heating	953	0	0	8	*	0	7.3
	Process Cooling and Refrigeration	616	0	0	*	0	0	6.1

Table 5.3 End Uses of Fuel Consumption, 2002;
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Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
	Machine Drive	3,750	0	*	*	*	0	9.7
	Electro-Chemical Processes	18	--	--	--	--	--	1.6
	Other Process Use	45	0	0	*	*	0	3.5
	Direct Uses-Total Nonprocess	4,056	0	*	10	*	0	6.3
	Facility HVAC (g)	2,097	0	*	10	*	0	7.3
	Facility Lighting	1,503	--	--	--	--	--	1.3
	Other Facility Support	411	0	*	*	*	0	5.9
	Onsite Transportation	27	--	*	0	*	--	3.3
	Conventional Electricity Generation	--	0	*	*	*	0	1.8
	Other Nonprocess Use	Q	0	*	*	*	0	7.7
	End Use Not Reported	W	*	*	3	*	0	14.2

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) 'Net Demand for Electricity' is the sum of purchases, transfers in, and total onsite electricity generation, minus sales and transfers offsite. It is the total amount of electricity used by establishments. 'Net Demand for Electricity' is not directly comparable with "Net Electricity,' which specifically excludes electricity generated onsite by combustible energy sources.
(c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.
(d) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.
(e) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'
(f) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes steam and hot water.
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.
-- Estimation is not applicable.
S=Negative value.
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

Table 5.3 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors

components because of independent rounding. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.
Allocations to specific end uses are made on the basis of reasonable approximations by respondents.

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

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Total United States							
311 - 339	**ALL MANUFACTURING INDUSTRIES**							
	RSE Column Factors:	NF	1	2.4	1.1	1.3	1	
	TOTAL FUEL CONSUMPTION	3,297	208	141	5,794	103	1,182	3.3
	Indirect Uses-Boiler Fuel	23	127	25	2,162	8	776	5.5
	Conventional Boiler Use	11	76	25	1,306	8	255	5.6
	CHP and/or Cogeneration Process	12	51	10	857	*	521	3.7
	Direct Uses-Total Process	2,624	60	43	2,956	64	381	2.9
	Process Heating	355	58	24	2,742	60	368	3.2
	Process Cooling and Refrigeration	213	*	2	45	*	*	3.7
	Machine Drive	1,746	2	16	109	4	5	4.8
	Electro-Chemical Processes	295	--	--	--	--	--	1
	Other Process Use	15	*	1	60	*	7	5.3
	Direct Uses-Total Nonprocess	551	4	50	513	24	19	4.6
	Facility HVAC (g)	280	3	5	417	5	5	6.6
	Facility Lighting	212	--	--	--	--	--	1.1
	Other Facility Support	51	*	1	30	*	*	9.7
	Onsite Transportation	4	--	35	2	18	--	3.1
	Conventional Electricity Generation	--	1	Q	55	*	14	1.7
	Other Nonprocess Use	4	*	Q	10	*	0	8.8
	End Use Not Reported	112	17	12	162	6	6	8.7
311	**FOOD**							
	RSE Column Factors:	NF	1.5	2.5	1.2	2.6	0.4	
	TOTAL FUEL CONSUMPTION	250	13	19	575	5	184	9.7
	Indirect Uses-Boiler Fuel	3	9	6	275	W	176	12
	Conventional Boiler Use	Q	8	6	237	W	72	12.7
	CHP and/or Cogeneration Process	1	2	1	38	0	104	5.5
	Direct Uses-Total Process	195	4	6	230	W	W	7.9
	Process Heating	8	4	1	205	W	W	8.8
	Process Cooling and Refrigeration	62	0	2	Q	*	0	8.9
	Machine Drive	124	0	3	13	*	0	11
	Electro-Chemical Processes	*	--	--	--	--	--	1.1
	Other Process Use	1	*	*	4	0	0	13
	Direct Uses-Total Nonprocess	37	*	5	W	1	*	10.4

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Facility HVAC (g)	17	*	*	37	1	*	11.3
	Facility Lighting	16	--	--	--	--	--	1.3
	Other Facility Support	3	*	*	W	*	0	12.9
	Onsite Transportation	1	--	3	*	1	--	4.9
	Conventional Electricity Generation	--	0	Q	Q	0	0	2.1
	Other Nonprocess Use	*	*	*	*	0	0	12.1
	End Use Not Reported	15	*	1	W	W	W	14.1
311221	**Wet Corn Milling**							
	RSE Column Factors:	NF	0.9	1.2	1.5	0.8	0.9	
	TOTAL FUEL CONSUMPTION	33	*	*	61	*	121	1.3
	Indirect Uses-Boiler Fuel	1	*	*	32	0	121	1.3
	Conventional Boiler Use	*	*	*	22	0	62	1
	CHP and/or Cogeneration Process	*	0	*	10	0	59	1.6
	Direct Uses-Total Process	31	0	*	28	*	0	1.5
	Process Heating	1	0	0	28	*	0	1
	Process Cooling and Refrigeration	*	0	0	*	0	0	1.1
	Machine Drive	30	0	*	*	*	0	1.8
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	*	0	0	0	1
	Direct Uses-Total Nonprocess	1	*	*	1	*	0	1
	Facility HVAC (g)	*	*	*	1	*	0	1.1
	Facility Lighting	1	--	--	--	--	--	1
	Other Facility Support	*	*	0	*	0	0	0.9
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	*	0	0	0	1.9
	Other Nonprocess Use	0	0	*	0	0	0	1
	End Use Not Reported	*	0	*	0	*	0	2.3
31131	**Sugar**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	6	2	1	22	*	37	1
	Indirect Uses-Boiler Fuel	*	2	1	17	0	29	1
	Conventional Boiler Use	*	*	0	3	0	4	1
	CHP and/or Cogeneration Process	*	2	1	13	0	26	1
	Direct Uses-Total Process	5	*	*	4	*	W	1

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Process Heating	*	*	*	4	*	W	1
	Process Cooling and Refrigeration	*	0	0	0	0	0	1
	Machine Drive	5	0	*	*	*	0	1
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	0	0	0	0	0	0	1
	Direct Uses-Total Nonprocess	1	0	*	*	*	*	1
	Facility HVAC (g)	*	0	0	*	*	*	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	*	*	*	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	*	0	*	0	0	0	1
	End Use Not Reported	*	*	*	1	*	W	1
311421	**Fruit and Vegetable Canning**							
	RSE Column Factors:	NF	1	0.9	1.2	2.1	0.6	
	TOTAL FUEL CONSUMPTION	8	1	1	36	Q	0	18
	Indirect Uses-Boiler Fuel	*	Q	Q	26	*	0	6.3
	Conventional Boiler Use	*	Q	Q	W	*	0	6.7
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1.6
	Direct Uses-Total Process	6	*	*	W	*	0	8.5
	Process Heating	*	*	*	W	*	0	4.7
	Process Cooling and Refrigeration	2	0	*	*	0	0	3
	Machine Drive	4	0	*	*	*	0	4.9
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	*	0	0	0	1.2
	Direct Uses-Total Nonprocess	2	*	*	W	*	0	5.5
	Facility HVAC (g)	1	0	0	W	*	0	4.1
	Facility Lighting	1	--	--	--	--	--	1.5
	Other Facility Support	*	*	*	*	*	0	4
	Onsite Transportation	*	--	*	0	*	--	3
	Conventional Electricity Generation	--	0	*	*	0	0	1.1
	Other Nonprocess Use	0	0	*	*	0	0	5.2
	End Use Not Reported	*	0	*	1	*	0	20.6
312	**BEVERAGE AND TOBACCO PRODUCTS**							
	RSE Column Factors:	NF	0.6	1.1	1.7	2.1	0.5	

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	29	2	1	46	1	17	5.8
	Indirect Uses-Boiler Fuel	*	W	*	31	*	17	3.4
	Conventional Boiler Use	*	W	*	29	*	5	4.8
	CHP and/or Cogeneration Process	*	*	*	2	*	12	1
	Direct Uses-Total Process	21	*	*	8	*	*	2.3
	Process Heating	1	*	*	7	*	*	2.6
	Process Cooling and Refrigeration	8	*	*	*	*	*	3
	Machine Drive	12	*	*	*	*	*	4.2
	Electro-Chemical Processes	*	--	--	--	--	--	1.7
	Other Process Use	*	0	*	*	*	0	2.1
	Direct Uses-Total Nonprocess	7	W	Q	5	1	*	3
	Facility HVAC (g)	3	W	*	4	*	*	3.2
	Facility Lighting	2	--	--	--	--	--	1.3
	Other Facility Support	1	0	*	*	*	*	3.1
	Onsite Transportation	*	--	Q	0	1	--	3.6
	Conventional Electricity Generation	--	0	*	0	*	*	1.4
	Other Nonprocess Use	*	0	*	*	*	0	4.3
	End Use Not Reported	1	0	*	2	*	0	11.6
3121	**Beverages**							
	RSE Column Factors:	NF	0.5	1.4	1.5	1.7	0.6	
	TOTAL FUEL CONSUMPTION	23	1	Q	42	1	8	8.2
	Indirect Uses-Boiler Fuel	*	W	*	29	*	8	5.5
	Conventional Boiler Use	*	W	*	26	*	2	6.5
	CHP and/or Cogeneration Process	0	*	*	2	0	6	1.4
	Direct Uses-Total Process	18	*	*	7	*	0	2.8
	Process Heating	*	*	*	6	*	0	4
	Process Cooling and Refrigeration	8	*	*	*	*	0	3.4
	Machine Drive	9	*	*	*	*	0	3.8
	Electro-Chemical Processes	*	--	--	--	--	--	1.7
	Other Process Use	*	0	*	*	*	0	2.7
	Direct Uses-Total Nonprocess	4	W	Q	4	1	0	4
	Facility HVAC (g)	2	W	*	4	*	0	5.4
	Facility Lighting	2	--	--	--	--	--	1.3
	Other Facility Support	*	0	*	*	*	0	3.4
	Onsite Transportation	*	--	Q	0	1	--	3.8
	Conventional Electricity Generation	--	0	*	0	0	0	3.5

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Other Nonprocess Use	*	0	*	*	*	0	4.6
	End Use Not Reported	1	*	*	2	*	0	12.5
3122	**Tobacco**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	6	1	*	4	*	10	1
	Indirect Uses-Boiler Fuel	*	1	*	2	*	10	1
	Conventional Boiler Use	*	*	*	2	*	2	1
	CHP and/or Cogeneration Process	*	0	0	0	*	7	1
	Direct Uses-Total Process	3	*	*	1	*	*	1
	Process Heating	*	*	*	1	*	*	1
	Process Cooling and Refrigeration	1	0	0	*	0	*	1
	Machine Drive	3	0	*	*	*	*	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	*	0	*	*	*	0	1
	Direct Uses-Total Nonprocess	2	*	*	*	*	*	1
	Facility HVAC (g)	1	*	*	*	*	*	1
	Facility Lighting	1	--	--	--	--	--	1
	Other Facility Support	*	0	*	*	0	*	1
	Onsite Transportation	*	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	*	*	1
	Other Nonprocess Use	0	0	*	0	0	0	1
	End Use Not Reported	*	0	*	*	0	0	1
313	**TEXTILE MILLS**							
	RSE Column Factors:	NF	0.8	1.5	1.1	2.5	0.6	
	TOTAL FUEL CONSUMPTION	87	4	2	74	2	22	17.7
	Indirect Uses-Boiler Fuel	*	W	1	37	W	21	18.4
	Conventional Boiler Use	*	W	1	W	W	14	19.4
	CHP and/or Cogeneration Process	0	0	0	W	0	7	5.4
	Direct Uses-Total Process	65	0	Q	26	W	1	5.9
	Process Heating	8	0	Q	23	W	1	6.2
	Process Cooling and Refrigeration	7	0	0	0	0	0	6.4
	Machine Drive	49	0	0	3	W	0	9.8
	Electro-Chemical Processes	*	--	--	--	--	--	1.6
	Other Process Use	*	0	*	*	0	0	2.5

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Direct Uses-Total Nonprocess	21	*	*	W	W	*	7
	Facility HVAC (g)	W	*	*	W	*	*	7.2
	Facility Lighting	W	--	--	--	--	--	1.4
	Other Facility Support	W	0	*	Q	*	0	7.4
	Onsite Transportation	*	--	*	*	W	--	3.3
	Conventional Electricity Generation	--	0	*	1	*	*	1.2
	Other Nonprocess Use	*	0	0	*	0	0	4.6
	End Use Not Reported	*	W	*	W	W	0	26.9
314	**TEXTILE PRODUCT MILLS**							
	RSE Column Factors:	NF	0.7	0.5	2.1	2.3	0.6	
	TOTAL FUEL CONSUMPTION	17	2	Q	29	1	Q	17.6
	Indirect Uses-Boiler Fuel	*	W	Q	10	*	W	12.1
	Conventional Boiler Use	*	W	Q	10	*	W	12.1
	CHP and/or Cogeneration Process	0	0	*	*	0	0	1.4
	Direct Uses-Total Process	11	W	*	13	*	0	2.9
	Process Heating	1	W	*	13	*	0	3.3
	Process Cooling and Refrigeration	1	0	0	*	0	0	4
	Machine Drive	9	0	0	*	0	0	3.2
	Electro-Chemical Processes	*	--	--	--	--	--	1.4
	Other Process Use	*	0	0	*	0	0	6.6
	Direct Uses-Total Nonprocess	4	*	*	4	*	Q	4.3
	Facility HVAC (g)	W	*	*	W	*	Q	3.1
	Facility Lighting	W	--	--	--	--	--	1.4
	Other Facility Support	*	*	*	W	0	0	3.8
	Onsite Transportation	*	--	*	*	*	--	3.7
	Conventional Electricity Generation	--	0	*	*	0	0	1.6
	Other Nonprocess Use	*	0	*	*	*	0	2.8
	End Use Not Reported	1	W	0	1	*	0	31.1
315	**APPAREL**							
	RSE Column Factors:	NF	1.4	1	1.7	1.4	0.6	
	TOTAL FUEL CONSUMPTION	12	*	1	16	*	0	23.5
	Indirect Uses-Boiler Fuel	*	*	W	4	*	0	12.6
	Conventional Boiler Use	*	*	W	4	*	0	12.8
	CHP and/or Cogeneration Process	0	0	0	*	0	0	4.6

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Direct Uses-Total Process	5	*	Q	5	*	0	9.4
	Process Heating	*	*	*	2	*	0	8.9
	Process Cooling and Refrigeration	*	0	*	*	0	0	7.8
	Machine Drive	4	0	*	W	*	0	6
	Electro-Chemical Processes	*	--	--	--	--	--	1.2
	Other Process Use	0	0	0	W	0	0	4.6
	Direct Uses-Total Nonprocess	5	*	*	5	*	0	10.6
	Facility HVAC (g)	3	*	*	2	*	0	8.5
	Facility Lighting	2	--	--	--	--	--	1.5
	Other Facility Support	*	0	*	2	0	0	9.1
	Onsite Transportation	*	--	*	0	*	--	3
	Conventional Electricity Generation	--	0	*	0	0	0	1.4
	Other Nonprocess Use	0	0	*	0	0	0	4.6
	End Use Not Reported	2	0	W	3	*	0	46.1
316	**LEATHER AND ALLIED PRODUCTS**							
	RSE Column Factors:	NF	0.2	1.9	2.1	2.7	0.6	
	TOTAL FUEL CONSUMPTION	2	*	*	4	*	0	8.7
	Indirect Uses-Boiler Fuel	*	*	*	3	*	0	3.6
	Conventional Boiler Use	*	*	*	3	*	0	3.6
	CHP and/or Cogeneration Process	0	0	0	0	0	0	3.3
	Direct Uses-Total Process	2	*	*	*	*	0	7.5
	Process Heating	*	*	*	*	*	0	6.4
	Process Cooling and Refrigeration	1	0	0	0	0	0	8.8
	Machine Drive	1	0	*	0	*	0	8.7
	Electro-Chemical Processes	0	--	--	--	--	--	1.1
	Other Process Use	0	0	0	0	0	0	3.3
	Direct Uses-Total Nonprocess	1	*	*	1	*	0	6.4
	Facility HVAC (g)	*	*	*	1	*	0	7.8
	Facility Lighting	*	--	--	--	--	--	1.4
	Other Facility Support	*	0	0	*	*	0	9
	Onsite Transportation	*	--	*	*	*	--	2.5
	Conventional Electricity Generation	--	0	0	0	0	0	1.3
	Other Nonprocess Use	0	0	0	0	0	0	3.3
	End Use Not Reported	*	0	*	*	*	0	23.2
321	**WOOD PRODUCTS**							

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	RSE Column Factors:	NF	1	2	1.5	1.5	0.3	
	TOTAL FUEL CONSUMPTION	77	1	10	57	5	1	4.8
	Indirect Uses-Boiler Fuel	*	1	1	15	*	1	5.8
	Conventional Boiler Use	*	1	1	15	*	1	5.8
	CHP and/or Cogeneration Process	*	0	*	*	0	*	1.4
	Direct Uses-Total Process	59	*	2	30	W	0	3.1
	Process Heating	4	*	*	28	W	0	3.1
	Process Cooling and Refrigeration	*	0	*	*	0	0	3.4
	Machine Drive	54	0	2	1	*	0	7.6
	Electro-Chemical Processes	*	--	--	--	--	--	1.7
	Other Process Use	*	0	*	1	*	0	5.1
	Direct Uses-Total Nonprocess	12	0	5	8	2	0	3.9
	Facility HVAC (g)	5	0	*	7	*	0	7.7
	Facility Lighting	5	--	--	--	--	--	1.3
	Other Facility Support	W	0	*	*	*	0	8
	Onsite Transportation	W	--	5	*	2	--	3.4
	Conventional Electricity Generation	--	0	*	*	*	0	2.1
	Other Nonprocess Use	*	0	*	1	*	0	1.9
	End Use Not Reported	6	*	2	4	W	0	14.9
321113	**Sawmills**							
	RSE Column Factors:	NF	0.3	1.9	2.8	3	0.5	
	TOTAL FUEL CONSUMPTION	23	*	5	10	1	0	5.3
	Indirect Uses-Boiler Fuel	*	*	*	W	0	0	7
	Conventional Boiler Use	*	*	*	W	0	0	7
	CHP and/or Cogeneration Process	*	0	*	*	0	0	1.6
	Direct Uses-Total Process	19	*	1	W	*	0	4.2
	Process Heating	1	*	*	W	*	0	4.7
	Process Cooling and Refrigeration	*	0	*	*	0	0	2.4
	Machine Drive	17	0	1	*	*	0	7
	Electro-Chemical Processes	*	--	--	--	--	--	1.7
	Other Process Use	*	0	*	0	0	0	3.1
	Direct Uses-Total Nonprocess	3	0	3	*	*	0	4.4
	Facility HVAC (g)	W	0	*	*	*	0	6.6
	Facility Lighting	W	--	--	--	--	--	1.2
	Other Facility Support	*	0	*	*	*	0	4.2
	Onsite Transportation	*	--	2	0	*	--	3.7

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Conventional Electricity Generation	--	0	*	0	0	0	3.5
	Other Nonprocess Use	*	0	*	0	0	0	1.3
	End Use Not Reported	2	0	1	*	*	0	14
3212	**Veneer, Plywood, and Engineered Woods**							
	RSE Column Factors:	NF	2.1	2	1	1.2	0.4	
	TOTAL FUEL CONSUMPTION	34	1	2	33	3	1	5.7
	Indirect Uses-Boiler Fuel	*	1	*	W	*	1	3.1
	Conventional Boiler Use	*	1	*	W	*	1	3.1
	CHP and/or Cogeneration Process	*	0	0	*	0	*	1.5
	Direct Uses-Total Process	27	0	*	21	W	0	5.2
	Process Heating	2	0	*	19	W	0	5.8
	Process Cooling and Refrigeration	*	0	0	0	0	0	5
	Machine Drive	25	0	*	Q	*	0	6.9
	Electro-Chemical Processes	0	--	--	--	--	--	1.1
	Other Process Use	*	0	*	1	*	0	6.3
	Direct Uses-Total Nonprocess	5	0	1	4	1	0	5.7
	Facility HVAC (g)	W	0	*	2	*	0	10.4
	Facility Lighting	W	--	--	--	--	--	1.4
	Other Facility Support	W	0	*	*	*	0	4.5
	Onsite Transportation	*	--	1	*	1	--	2.5
	Conventional Electricity Generation	--	0	*	0	0	0	3.3
	Other Nonprocess Use	*	0	*	1	*	0	2.5
	End Use Not Reported	1	*	*	W	W	0	11.6
3219	**Other Wood Products**							
	RSE Column Factors:	NF	0.5	2.4	1.4	2.1	0.5	
	TOTAL FUEL CONSUMPTION	19	*	2	11	1	0	7.3
	Indirect Uses-Boiler Fuel	*	*	*	2	*	0	9.6
	Conventional Boiler Use	*	*	*	2	*	0	9.7
	CHP and/or Cogeneration Process	0	0	0	*	0	0	1.5
	Direct Uses-Total Process	12	0	1	4	*	0	7.3
	Process Heating	1	0	*	4	*	0	7
	Process Cooling and Refrigeration	*	0	0	0	0	0	4.1
	Machine Drive	11	0	1	*	*	0	9.7
	Electro-Chemical Processes	0	--	--	--	--	--	1.1

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Other Process Use	0	0	*	*	0	0	1.5
	Direct Uses-Total Nonprocess	4	0	1	4	1	0	6.5
	Facility HVAC (g)	2	0	*	4	*	0	7.7
	Facility Lighting	2	--	--	--	--	--	1.3
	Other Facility Support	*	0	*	*	*	0	4.8
	Onsite Transportation	*	--	1	*	1	--	5
	Conventional Electricity Generation	--	0	*	*	*	0	1.9
	Other Nonprocess Use	*	0	*	0	0	0	1.2
	End Use Not Reported	2	*	*	1	*	0	18.4
322	**PAPER**							
	RSE Column Factors:	NF	0.8	1.1	1.3	2.5	0.5	
	TOTAL FUEL CONSUMPTION	400	100	13	504	6	234	2.5
	Indirect Uses-Boiler Fuel	11	69	9	306	*	214	3
	Conventional Boiler Use	2	29	2	143	*	38	3.9
	CHP and/or Cogeneration Process	9	40	7	162	0	176	1.7
	Direct Uses-Total Process	341	27	2	154	1	W	3.4
	Process Heating	10	25	2	130	1	W	3.8
	Process Cooling and Refrigeration	6	*	*	3	0	*	2
	Machine Drive	317	2	*	19	*	5	4.3
	Electro-Chemical Processes	7	--	--	--	--	--	1.5
	Other Process Use	2	*	*	2	*	W	2.6
	Direct Uses-Total Nonprocess	35	1	2	29	3	W	3.9
	Facility HVAC (g)	16	*	*	19	*	W	5.1
	Facility Lighting	15	--	--	--	--	--	1.2
	Other Facility Support	3	*	*	*	*	0	2.3
	Onsite Transportation	*	--	2	*	2	--	3.7
	Conventional Electricity Generation	--	1	*	9	*	4	1
	Other Nonprocess Use	1	*	*	Q	*	0	3.3
	End Use Not Reported	13	3	*	15	Q	W	10.8
322110	**Pulp Mills**							
	RSE Column Factors:	NF	1.1	0.9	0.9	1	1	
	TOTAL FUEL CONSUMPTION	W	W	5	24	*	W	1
	Indirect Uses-Boiler Fuel	4	W	5	14	*	W	1.1
	Conventional Boiler Use	2	W	*	5	*	0	1.3

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	CHP and/or Cogeneration Process	3	6	5	9	0	W	1
	Direct Uses-Total Process	18	3	*	10	*	W	1
	Process Heating	1	3	*	9	*	W	1
	Process Cooling and Refrigeration	*	*	*	0	0	0	1
	Machine Drive	16	*	*	*	0	*	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	1	*	*	*	0	W	1
	Direct Uses-Total Nonprocess	1	*	*	*	*	*	1.2
	Facility HVAC (g)	1	*	*	*	*	*	1
	Facility Lighting	1	--	--	--	--	--	1.1
	Other Facility Support	*	*	*	0	*	0	1
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	*	0	0	0	0	1
	End Use Not Reported	W	0	0	0	*	0	1
322121	**Paper Mills, except Newsprint**							
	RSE Column Factors:	NF	1.8	1.4	1	1.4	0.6	
	TOTAL FUEL CONSUMPTION	163	47	4	206	1	139	2.3
	Indirect Uses-Boiler Fuel	3	31	1	127	*	130	3
	Conventional Boiler Use	*	11	*	56	*	23	3.1
	CHP and/or Cogeneration Process	3	21	1	71	0	107	1.3
	Direct Uses-Total Process	143	14	1	71	1	W	3.2
	Process Heating	5	14	1	57	*	W	3.4
	Process Cooling and Refrigeration	2	0	*	3	0	*	1.8
	Machine Drive	135	*	*	10	*	W	1.5
	Electro-Chemical Processes	1	--	--	--	--	--	1
	Other Process Use	*	*	*	1	*	0	4.4
	Direct Uses-Total Nonprocess	13	1	1	6	1	W	2.2
	Facility HVAC (g)	6	*	*	5	*	W	5
	Facility Lighting	5	--	--	--	--	--	1.1
	Other Facility Support	1	0	*	*	0	0	1.9
	Onsite Transportation	*	--	1	0	1	--	1.2
	Conventional Electricity Generation	--	*	*	1	*	1	1
	Other Nonprocess Use	1	0	*	*	0	0	2.9
	End Use Not Reported	4	1	*	2	*	W	12.4
322122	**Newsprint Mills**							

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	41	W	*	16	*	W	1
	Indirect Uses-Boiler Fuel	*	W	*	10	*	W	1
	Conventional Boiler Use	0	W	*	3	*	W	1
	CHP and/or Cogeneration Process	*	0	0	7	0	W	1
	Direct Uses-Total Process	39	0	*	W	0	W	1
	Process Heating	*	0	0	W	0	0	1
	Process Cooling and Refrigeration	*	0	0	0	0	0	1
	Machine Drive	36	0	*	0	0	0	1
	Electro-Chemical Processes	2	--	--	--	--	--	1
	Other Process Use	*	0	0	*	0	W	1
	Direct Uses-Total Nonprocess	2	0	*	*	*	W	1
	Facility HVAC (g)	1	0	0	*	0	W	1
	Facility Lighting	1	--	--	--	--	--	1
	Other Facility Support	*	0	0	*	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	1	0	*	W	*	W	1
322130	**Paperboard Mills**							
	RSE Column Factors:	NF	1.1	1	1	0.9	0.8	
	TOTAL FUEL CONSUMPTION	125	34	4	188	*	83	2.5
	Indirect Uses-Boiler Fuel	4	22	1	129	*	76	2.5
	Conventional Boiler Use	*	8	1	54	*	W	3.5
	CHP and/or Cogeneration Process	3	14	1	75	0	W	1.5
	Direct Uses-Total Process	109	10	*	44	*	W	2.7
	Process Heating	2	8	*	37	*	W	1.6
	Process Cooling and Refrigeration	1	0	0	0	0	0	1.2
	Machine Drive	102	2	*	8	*	W	3.1
	Electro-Chemical Processes	3	--	--	--	--	--	1
	Other Process Use	*	0	*	*	*	0	2.2
	Direct Uses-Total Nonprocess	8	*	1	10	*	3	1.8
	Facility HVAC (g)	4	*	0	2	*	*	2.9
	Facility Lighting	4	--	--	--	--	--	1.3
	Other Facility Support	1	*	*	*	*	0	1.3

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Onsite Transportation	*	--	1	0	*	--	2.8
	Conventional Electricity Generation	--	0	*	8	0	3	1
	Other Nonprocess Use	*	0	*	0	0	0	0.9
	End Use Not Reported	4	2	*	5	*	W	4.4
323	**PRINTING AND RELATED SUPPORT**							
	RSE Column Factors:	NF	0.5	2.2	1.6	1.7	0.5	
	TOTAL FUEL CONSUMPTION	50	*	*	46	1	0	7.8
	Indirect Uses-Boiler Fuel	*	0	*	W	*	0	7.5
	Conventional Boiler Use	*	0	*	6	*	0	7.8
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1.5
	Direct Uses-Total Process	28	*	*	20	*	0	4.8
	Process Heating	1	*	0	19	*	0	6.7
	Process Cooling and Refrigeration	2	0	0	*	0	0	4.6
	Machine Drive	25	0	*	1	*	0	5.2
	Electro-Chemical Processes	*	--	--	--	--	--	1.6
	Other Process Use	*	0	*	*	*	0	8.1
	Direct Uses-Total Nonprocess	16	*	*	16	1	0	7.7
	Facility HVAC (g)	9	*	*	15	*	0	5.3
	Facility Lighting	6	--	--	--	--	--	1.3
	Other Facility Support	1	0	*	1	*	0	4.4
	Onsite Transportation	*	--	*	*	*	--	4.3
	Conventional Electricity Generation	--	0	*	0	0	0	0.9
	Other Nonprocess Use	*	0	*	*	0	0	7.2
	End Use Not Reported	6	0	*	W	*	0	18.6
324	**PETROLEUM AND COAL PRODUCTS**							
	RSE Column Factors:	NF	1.1	2	1.2	1.3	0.7	
	TOTAL FUEL CONSUMPTION	187	25	16	878	24	13	4.6
	Indirect Uses-Boiler Fuel	1	11	2	289	5	5	4.6
	Conventional Boiler Use	1	6	2	154	5	2	6.1
	CHP and/or Cogeneration Process	1	5	1	135	*	3	1.5
	Direct Uses-Total Process	172	7	9	544	18	4	6.1
	Process Heating	11	7	7	526	18	4	6.3
	Process Cooling and Refrigeration	10	0	*	2	*	0	1.2
	Machine Drive	151	0	1	12	Q	0	5.3

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Electro-Chemical Processes	*	--	--	--	--	--	1.2
	Other Process Use	*	0	*	4	*	0	4
	Direct Uses-Total Nonprocess	11	0	2	38	*	4	3.1
	Facility HVAC (g)	6	0	*	7	*	W	5.8
	Facility Lighting	5	--	--	--	--	--	1.2
	Other Facility Support	1	0	*	2	*	0	4
	Onsite Transportation	*	--	1	*	*	--	5.7
	Conventional Electricity Generation	--	0	*	29	*	W	1.3
	Other Nonprocess Use	*	0	*	*	*	0	3.6
	End Use Not Reported	2	7	Q	7	*	0	7.2
324110	**Petroleum Refineries**							
	RSE Column Factors:	NF	1.3	0.6	0.9	0.8	4.1	
	TOTAL FUEL CONSUMPTION	177	21	5	821	20	1	3.8
	Indirect Uses-Boiler Fuel	1	10	2	278	5	*	3.6
	Conventional Boiler Use	1	5	2	143	4	*	4.4
	CHP and/or Cogeneration Process	1	5	1	135	*	*	2.2
	Direct Uses-Total Process	165	4	1	506	15	1	4.4
	Process Heating	10	4	1	490	15	1	4.6
	Process Cooling and Refrigeration	10	0	*	2	*	0	1.8
	Machine Drive	145	0	*	11	*	0	7.4
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	0	3	*	0	2.2
	Direct Uses-Total Nonprocess	10	0	1	35	*	0	2
	Facility HVAC (g)	5	0	0	5	*	0	2.5
	Facility Lighting	4	--	--	--	--	--	1.2
	Other Facility Support	1	0	*	1	*	0	5.3
	Onsite Transportation	*	--	1	*	*	--	1.8
	Conventional Electricity Generation	--	0	*	29	*	0	1.9
	Other Nonprocess Use	0	0	*	*	0	0	1.7
	End Use Not Reported	1	7	*	2	0	0	4.1
324199	**Other Petroleum and Coal Products**							
	RSE Column Factors:	NF	0.8	2	0.9	0.8	0.8	
	TOTAL FUEL CONSUMPTION	2	*	*	5	*	11	1.6
	Indirect Uses-Boiler Fuel	*	*	0	1	0	W	1.1

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Conventional Boiler Use	*	*	0	1	0	W	1.1
	CHP and/or Cogeneration Process	*	0	0	*	0	W	1.1
	Direct Uses-Total Process	2	*	*	4	*	W	1.2
	Process Heating	*	*	*	3	*	W	1
	Process Cooling and Refrigeration	*	0	*	0	0	0	0.8
	Machine Drive	1	0	*	*	*	0	1.4
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	0	*	0	0	1.1
	Direct Uses-Total Nonprocess	*	0	*	*	*	4	1.7
	Facility HVAC (g)	*	0	0	*	*	W	1.1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	0	*	*	0	1.1
	Onsite Transportation	0	--	*	0	*	--	1.9
	Conventional Electricity Generation	--	0	*	*	0	W	0.9
	Other Nonprocess Use	0	0	*	0	0	0	0.7
	End Use Not Reported	*	0	*	0	0	0	0.8
325	**CHEMICALS**							
	RSE Column Factors:	NF	0.6	3	0.8	1.1	2	
	TOTAL FUEL CONSUMPTION	696	41	14	1,678	37	314	5.7
	Indirect Uses-Boiler Fuel	4	19	W	927	W	300	6.3
	Conventional Boiler Use	3	W	W	451	W	88	4.7
	CHP and/or Cogeneration Process	1	W	1	476	*	212	3.5
	Direct Uses-Total Process	603	16	3	684	W	10	5.6
	Process Heating	23	16	2	588	W	W	6
	Process Cooling and Refrigeration	59	0	*	25	*	0	3.1
	Machine Drive	399	*	1	43	W	0	4.7
	Electro-Chemical Processes	121	--	--	--	--	--	1
	Other Process Use	1	*	*	28	*	W	7.4
	Direct Uses-Total Nonprocess	78	W	W	47	W	W	7.8
	Facility HVAC (g)	40	W	1	33	W	W	7.8
	Facility Lighting	30	--	--	--	--	--	1.2
	Other Facility Support	W	*	*	3	*	*	5.5
	Onsite Transportation	W	--	W	1	W	--	3.8
	Conventional Electricity Generation	--	0	*	7	*	0	2
	Other Nonprocess Use	*	*	*	3	*	0	4.6
	End Use Not Reported	12	W	W	20	W	W	12.8

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
325110	**Petrochemicals**							
	RSE Column Factors:	NF	1	1.3	0.9	0.9	1	
	TOTAL FUEL CONSUMPTION	31	W	*	172	W	W	1.1
	Indirect Uses-Boiler Fuel	1	W	*	55	W	W	1
	Conventional Boiler Use	1	W	*	36	W	0	1
	CHP and/or Cogeneration Process	0	0	0	19	*	W	1.1
	Direct Uses-Total Process	25	0	*	110	W	0	1
	Process Heating	1	0	0	W	W	0	1.1
	Process Cooling and Refrigeration	3	0	0	1	0	0	1.1
	Machine Drive	20	0	*	W	*	0	1
	Electro-Chemical Processes	1	--	--	--	--	--	1
	Other Process Use	*	0	0	*	0	0	1.1
	Direct Uses-Total Nonprocess	4	0	*	5	W	0	1.9
	Facility HVAC (g)	1	0	*	W	W	0	1.1
	Facility Lighting	2	--	--	--	--	--	1
	Other Facility Support	*	0	0	1	0	0	1.1
	Onsite Transportation	*	--	*	1	0	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1.1
	Other Nonprocess Use	0	0	*	W	0	0	0.9
	End Use Not Reported	2	0	*	2	0	0	1
325120	**Industrial Gases**							
	RSE Column Factors:	NF	0.7	0.5	2	0.8	0.7	
	TOTAL FUEL CONSUMPTION	85	0	*	52	*	0	5.8
	Indirect Uses-Boiler Fuel	0	0	*	45	*	0	1.8
	Conventional Boiler Use	0	0	*	W	*	0	2.6
	CHP and/or Cogeneration Process	0	0	0	W	0	0	0.9
	Direct Uses-Total Process	80	0	*	W	*	0	1.6
	Process Heating	1	0	*	7	*	0	1.6
	Process Cooling and Refrigeration	8	0	*	*	*	0	1.8
	Machine Drive	71	0	*	W	*	0	2.2
	Electro-Chemical Processes	*	--	--	--	--	--	1.7
	Other Process Use	0	0	0	*	0	0	0.9
	Direct Uses-Total Nonprocess	3	0	*	*	*	0	4.2
	Facility HVAC (g)	2	0	*	*	*	0	2.4
	Facility Lighting	1	--	--	--	--	--	1.3

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Other Facility Support	*	0	*	*	*	0	2.8
	Onsite Transportation	0	--	*	0	*	--	1.6
	Conventional Electricity Generation	--	0	*	*	0	0	0.8
	Other Nonprocess Use	0	0	0	0	0	0	1.5
	End Use Not Reported	1	0	*	*	0	0	4.1
325181	**Alkalies and Chlorine**							
	RSE Column Factors:	NF	1	0.9	1	0.9	1.3	
	TOTAL FUEL CONSUMPTION	64	*	*	94	*	20	1.6
	Indirect Uses-Boiler Fuel	*	*	*	79	0	18	1
	Conventional Boiler Use	*	*	*	W	0	W	1
	CHP and/or Cogeneration Process	0	0	0	W	0	W	0.9
	Direct Uses-Total Process	62	*	*	W	*	Q	1.2
	Process Heating	*	*	*	W	0	Q	1.2
	Process Cooling and Refrigeration	2	0	0	0	0	0	1
	Machine Drive	8	0	*	0	*	0	1.3
	Electro-Chemical Processes	52	--	--	--	--	--	1
	Other Process Use	0	0	0	1	0	0	1
	Direct Uses-Total Nonprocess	2	0	*	W	*	0	1
	Facility HVAC (g)	1	0	0	W	*	0	1
	Facility Lighting	1	--	--	--	--	--	1.1
	Other Facility Support	*	0	0	0	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	*	*	0	0	1
	End Use Not Reported	*	0	0	W	0	0	1
325182	**Carbon Black**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	2	11	*	10	*	0	1
	Indirect Uses-Boiler Fuel	*	0	0	2	0	0	1
	Conventional Boiler Use	*	0	0	2	0	0	1
	CHP and/or Cogeneration Process	0	0	0	*	0	0	1
	Direct Uses-Total Process	2	W	*	7	*	0	1
	Process Heating	*	W	0	7	0	0	1
	Process Cooling and Refrigeration	*	0	0	*	0	0	1

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Machine Drive	2	0	*	*	*	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	*	0	*	*	*	0	1
	Facility HVAC (g)	*	0	0	*	0	0	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	0	*	*	0	1
	Onsite Transportation	*	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	W	0	0	*	0	1
325188	**Other Basic Inorganic Chemicals**							
	RSE Column Factors:	NF	0.6	0.7	3	2.6	0.5	
	TOTAL FUEL CONSUMPTION	91	2	2	68	*	19	3.2
	Indirect Uses-Boiler Fuel	*	*	*	20	*	W	2.9
	Conventional Boiler Use	*	*	*	17	*	W	2.7
	CHP and/or Cogeneration Process	*	0	*	3	0	W	2.6
	Direct Uses-Total Process	82	2	*	40	*	1	1.7
	Process Heating	2	2	*	39	*	W	2
	Process Cooling and Refrigeration	2	0	0	*	*	0	5.7
	Machine Drive	63	0	*	Q	*	0	2.8
	Electro-Chemical Processes	14	--	--	--	--	--	1
	Other Process Use	*	0	*	1	*	W	1.9
	Direct Uses-Total Nonprocess	7	*	W	3	*	W	2.4
	Facility HVAC (g)	4	0	*	2	*	W	3.2
	Facility Lighting	3	--	--	--	--	--	1.2
	Other Facility Support	*	0	0	*	*	0	2.2
	Onsite Transportation	*	--	W	0	*	--	1.8
	Conventional Electricity Generation	--	0	*	*	0	0	1.2
	Other Nonprocess Use	*	*	0	*	*	0	4
	End Use Not Reported	2	*	W	6	*	1	4.5
325192	**Cyclic Crudes and Intermediates**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	W	*	*	37	*	0	1

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Indirect Uses-Boiler Fuel	*	*	*	26	0	0	1
	Conventional Boiler Use	*	*	*	W	0	0	1
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1
	Direct Uses-Total Process	11	*	*	W	*	0	1
	Process Heating	1	*	0	W	*	0	1
	Process Cooling and Refrigeration	2	0	0	0	*	0	1
	Machine Drive	7	0	*	0	0	0	1
	Electro-Chemical Processes	1	--	--	--	--	--	1
	Other Process Use	*	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	W	0	*	W	*	0	1
	Facility HVAC (g)	W	0	0	W	0	0	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	0	*	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	*	*	*	0	1
325193	**Ethyl Alcohol**							
	RSE Column Factors:	NF	0.9	0.6	1	0.6	1.7	
	TOTAL FUEL CONSUMPTION	6	0	*	30	*	19	4.2
	Indirect Uses-Boiler Fuel	*	0	*	18	*	18	1.6
	Conventional Boiler Use	*	0	*	18	*	11	1.7
	CHP and/or Cogeneration Process	0	0	*	1	0	6	1
	Direct Uses-Total Process	6	0	*	10	*	1	2.1
	Process Heating	*	0	0	10	*	1	1.4
	Process Cooling and Refrigeration	*	0	0	0	*	0	1
	Machine Drive	5	0	*	0	0	0	2.4
	Electro-Chemical Processes	0	--	--	--	--	--	1.1
	Other Process Use	0	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	*	0	*	1	*	0	1.3
	Facility HVAC (g)	*	0	0	1	*	0	1
	Facility Lighting	*	--	--	--	--	--	1.3
	Other Facility Support	*	0	0	0	0	0	0.8
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	0	0	0	0	0.8
	Other Nonprocess Use	0	0	0	*	0	0	1
	End Use Not Reported	0	0	0	1	*	0	3.8

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
325199	**Other Basic Organic Chemicals**							
	RSE Column Factors:	NF	0.6	1.9	1	1.5	0.7	
	TOTAL FUEL CONSUMPTION	121	W	2	425	W	W	14.7
	Indirect Uses-Boiler Fuel	*	7	W	235	W	W	8.6
	Conventional Boiler Use	*	7	W	123	W	W	8.3
	CHP and/or Cogeneration Process	*	0	*	111	0	W	1.9
	Direct Uses-Total Process	107	W	*	180	W	0	6.1
	Process Heating	7	W	*	134	W	0	6.7
	Process Cooling and Refrigeration	13	0	*	21	*	0	1.9
	Machine Drive	68	0	*	6	*	0	4.5
	Electro-Chemical Processes	19	--	--	--	--	--	1.2
	Other Process Use	*	0	*	18	*	0	5.4
	Direct Uses-Total Nonprocess	13	W	*	10	W	0	6.9
	Facility HVAC (g)	6	W	*	6	*	0	4.7
	Facility Lighting	5	--	--	--	--	--	1.5
	Other Facility Support	1	0	*	1	*	0	2.1
	Onsite Transportation	*	--	*	*	W	--	2.9
	Conventional Electricity Generation	--	0	*	3	0	0	1.1
	Other Nonprocess Use	*	0	*	*	*	0	1
	End Use Not Reported	*	0	W	1	W	0	4.2
325211	**Plastics Materials and Resins**							
	RSE Column Factors:	NF	0.5	1	1.1	2.4	1.3	
	TOTAL FUEL CONSUMPTION	129	1	1	348	*	27	9.8
	Indirect Uses-Boiler Fuel	1	*	W	243	*	26	3.3
	Conventional Boiler Use	1	*	W	48	*	13	2.1
	CHP and/or Cogeneration Process	0	0	0	194	0	Q	1.6
	Direct Uses-Total Process	119	*	*	97	*	0	3.3
	Process Heating	W	*	*	91	*	0	4.2
	Process Cooling and Refrigeration	11	0	*	1	*	0	1.4
	Machine Drive	73	0	*	2	*	0	4.6
	Electro-Chemical Processes	W	--	--	--	--	--	1.2
	Other Process Use	*	0	*	2	*	0	11.2
	Direct Uses-Total Nonprocess	8	*	*	5	*	0	4.9
	Facility HVAC (g)	4	*	*	W	*	0	5.8

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Facility Lighting	4	--	--	--	--	--	1.2
	Other Facility Support	1	0	*	*	*	0	2.3
	Onsite Transportation	*	--	*	*	*	--	4
	Conventional Electricity Generation	--	0	*	1	0	0	1.6
	Other Nonprocess Use	*	0	*	W	*	0	4.5
	End Use Not Reported	Q	*	W	3	*	Q	10.1
325212	**Synthetic Rubber**							
	RSE Column Factors:	NF	4.1	0.8	1	1.2	0.3	
	TOTAL FUEL CONSUMPTION	7	*	*	28	*	5	10.4
	Indirect Uses-Boiler Fuel	*	*	*	24	0	3	7.5
	Conventional Boiler Use	*	*	*	W	0	W	8.4
	CHP and/or Cogeneration Process	0	0	0	W	0	W	2.2
	Direct Uses-Total Process	6	*	*	W	*	2	3.7
	Process Heating	*	*	*	2	*	2	3.5
	Process Cooling and Refrigeration	1	0	0	W	0	0	2.7
	Machine Drive	5	0	*	W	*	0	3.3
	Electro-Chemical Processes	0	--	--	--	--	--	1.2
	Other Process Use	0	*	0	*	0	0	5.2
	Direct Uses-Total Nonprocess	1	*	*	W	*	*	4.1
	Facility HVAC (g)	1	*	0	W	0	*	5.7
	Facility Lighting	*	--	--	--	--	--	1.5
	Other Facility Support	*	0	0	*	*	0	4.9
	Onsite Transportation	*	--	*	0	*	--	1.3
	Conventional Electricity Generation	--	0	0	0	0	0	1.1
	Other Nonprocess Use	*	0	0	*	0	0	1.7
	End Use Not Reported	*	0	*	W	*	0	3.3
325222	**Noncellulosic Organic Fibers**							
	RSE Column Factors:	NF	1.6	0.8	0.8	1.5	0.9	
	TOTAL FUEL CONSUMPTION	18	W	*	30	*	W	1.8
	Indirect Uses-Boiler Fuel	*	W	*	21	*	W	1.2
	Conventional Boiler Use	*	W	*	W	*	W	1.2
	CHP and/or Cogeneration Process	*	W	*	W	0	W	1.1
	Direct Uses-Total Process	15	W	*	8	*	0	1.5
	Process Heating	2	W	*	8	*	0	1.6

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Process Cooling and Refrigeration	3	0	0	*	0	0	1.2
	Machine Drive	10	*	*	0	*	0	0.9
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	0	*	0	0	1.2
	Direct Uses-Total Nonprocess	2	W	*	*	*	0	1.7
	Facility HVAC (g)	1	W	*	*	*	0	1.1
	Facility Lighting	1	--	--	--	--	--	1
	Other Facility Support	*	*	*	*	0	0	1.1
	Onsite Transportation	0	--	*	0	*	--	0.9
	Conventional Electricity Generation	--	0	*	*	0	0	1.2
	Other Nonprocess Use	*	0	*	0	0	0	1.2
	End Use Not Reported	*	0	*	*	*	0	1.1
325311	**Nitrogenous Fertilizers**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	14	0	*	189	*	0	1
	Indirect Uses-Boiler Fuel	*	0	*	54	*	0	1
	Conventional Boiler Use	*	0	*	46	*	0	1
	CHP and/or Cogeneration Process	0	0	0	7	0	0	1
	Direct Uses-Total Process	12	0	*	133	*	0	1
	Process Heating	1	0	0	124	*	0	1
	Process Cooling and Refrigeration	1	0	0	0	0	0	1
	Machine Drive	10	0	*	8	*	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	*	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	1	0	*	3	*	0	1
	Facility HVAC (g)	*	0	0	1	*	0	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	0	0	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	2	0	0	1
	Other Nonprocess Use	0	0	*	0	0	0	1
	End Use Not Reported	1	0	*	0	*	0	1
325312	**Phosphatic Fertilizers**							
	RSE Column Factors:	NF	1	1	1	1	1	

Table 5.4 End Uses of Fuel Consumption, 2002;
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Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	13	1	1	19	*	1	1
	Indirect Uses-Boiler Fuel	*	*	*	4	0	0	1
	Conventional Boiler Use	*	*	*	4	0	0	1
	CHP and/or Cogeneration Process	0	*	*	*	0	0	1
	Direct Uses-Total Process	12	1	*	14	*	1	1
	Process Heating	*	1	*	14	*	1	1
	Process Cooling and Refrigeration	*	0	0	0	0	0	1
	Machine Drive	11	0	*	0	0	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	1	0	*	*	*	0	1
	Facility HVAC (g)	*	0	0	*	0	0	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	0	0	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	*	0	*	0	0	0	1
	End Use Not Reported	*	0	0	0	*	0	1
3254	**Pharmaceuticals and Medicines**							
	RSE Column Factors:	NF	0.6	2.9	1.8	1.2	0.3	
	TOTAL FUEL CONSUMPTION	41	2	3	62	*	9	4.3
	Indirect Uses-Boiler Fuel	*	2	2	45	*	9	4.5
	Conventional Boiler Use	*	W	2	27	*	9	5.6
	CHP and/or Cogeneration Process	0	W	*	18	0	0	1
	Direct Uses-Total Process	21	0	*	9	*	0	5.7
	Process Heating	1	0	*	8	*	0	3
	Process Cooling and Refrigeration	7	0	*	*	0	0	3.1
	Machine Drive	12	0	*	*	*	0	7.4
	Electro-Chemical Processes	*	--	--	--	--	--	1.5
	Other Process Use	*	0	*	*	0	0	5.2
	Direct Uses-Total Nonprocess	19	0	*	7	*	0	4
	Facility HVAC (g)	11	0	*	5	*	0	3.8
	Facility Lighting	6	--	--	--	--	--	1.2
	Other Facility Support	1	0	*	1	*	0	3.6
	Onsite Transportation	*	--	*	0	*	--	3.6
	Conventional Electricity Generation	--	0	*	*	*	0	1
	Other Nonprocess Use	*	0	*	1	0	0	4.2

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	End Use Not Reported	1	*	*	1	*	0	9.4
325412	**Pharmaceutical Preparation**							
	RSE Column Factors:	NF	0.7	1.6	2	1.4	0.4	
	TOTAL FUEL CONSUMPTION	31	2	1	40	*	9	5
	Indirect Uses-Boiler Fuel	*	2	*	28	0	9	3
	Conventional Boiler Use	*	W	*	18	0	9	3.6
	CHP and/or Cogeneration Process	0	W	*	9	0	0	1
	Direct Uses-Total Process	16	0	*	7	*	0	6.3
	Process Heating	1	0	*	6	*	0	3
	Process Cooling and Refrigeration	5	0	0	*	0	0	1.8
	Machine Drive	9	0	*	*	*	0	5.2
	Electro-Chemical Processes	*	--	--	--	--	--	1.1
	Other Process Use	*	0	*	*	0	0	6.1
	Direct Uses-Total Nonprocess	14	0	*	5	*	0	6.9
	Facility HVAC (g)	8	0	*	4	*	0	5.7
	Facility Lighting	4	--	--	--	--	--	1.2
	Other Facility Support	1	0	*	*	*	0	2.8
	Onsite Transportation	*	--	*	0	*	--	3.5
	Conventional Electricity Generation	--	0	*	*	0	0	0.8
	Other Nonprocess Use	*	0	*	1	0	0	3.9
	End Use Not Reported	1	0	*	1	*	0	14.4
325992	**Photographic Film, Paper, Plate, and Chemicals**							
	RSE Column Factors:	NF	0.4	1.3	2	1.5	0.5	
	TOTAL FUEL CONSUMPTION	8	1	*	7	*	W	6.6
	Indirect Uses-Boiler Fuel	1	1	*	5	0	W	3
	Conventional Boiler Use	*	1	*	2	0	0	4.7
	CHP and/or Cogeneration Process	*	*	*	3	0	W	1.1
	Direct Uses-Total Process	5	0	*	2	*	0	2.4
	Process Heating	*	0	*	1	*	0	2
	Process Cooling and Refrigeration	1	0	0	0	0	0	2.6
	Machine Drive	3	0	*	*	0	0	3.2
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	0	0	*	*	0	0	0.9
	Direct Uses-Total Nonprocess	2	0	*	1	*	0	7.6

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Facility HVAC (g)	1	0	*	1	*	0	2.9
	Facility Lighting	1	--	--	--	--	--	1.4
	Other Facility Support	*	0	*	*	0	0	2.8
	Onsite Transportation	*	--	*	0	*	--	3.4
	Conventional Electricity Generation	--	0	0	0	*	0	0.8
	Other Nonprocess Use	*	0	*	*	0	0	0.7
	End Use Not Reported	1	0	0	*	*	0	8
326	**PLASTICS AND RUBBER PRODUCTS**							
	RSE Column Factors:	NF	1.5	2.4	1.6	2	0.4	
	TOTAL FUEL CONSUMPTION	W	7	2	128	3	Q	7.9
	Indirect Uses-Boiler Fuel	Q	5	1	50	W	Q	7.8
	Conventional Boiler Use	*	5	1	48	W	W	9.4
	CHP and/or Cogeneration Process	*	0	0	2	0	W	6.1
	Direct Uses-Total Process	134	2	*	39	W	0	9.2
	Process Heating	26	2	*	37	W	0	7.3
	Process Cooling and Refrigeration	14	0	0	1	0	0	8.5
	Machine Drive	92	*	*	1	*	0	5.5
	Electro-Chemical Processes	1	--	--	--	--	--	1.7
	Other Process Use	2	0	*	1	*	0	15.1
	Direct Uses-Total Nonprocess	36	1	1	28	W	0	7.4
	Facility HVAC (g)	17	1	*	24	W	0	9.8
	Facility Lighting	14	--	--	--	--	--	1.3
	Other Facility Support	4	0	*	1	*	0	9.8
	Onsite Transportation	*	--	*	*	2	--	3.9
	Conventional Electricity Generation	--	0	*	Q	*	0	3
	Other Nonprocess Use	*	0	*	1	*	0	13.1
	End Use Not Reported	W	0	*	12	W	0	22
327	**NONMETALLIC MINERAL PRODUCTS**							
	RSE Column Factors:	NF	0.3	4.3	1.4	2.6	0.3	
	TOTAL FUEL CONSUMPTION	144	3	31	421	3	309	4.5
	Indirect Uses-Boiler Fuel	*	*	W	13	*	W	5.4
	Conventional Boiler Use	*	*	W	10	*	W	6.6
	CHP and/or Cogeneration Process	*	*	*	3	0	W	1.9
	Direct Uses-Total Process	122	W	9	364	1	W	3.7

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Process Heating	29	W	4	358	1	W	3.3
	Process Cooling and Refrigeration	5	0	*	*	0	0	3.1
	Machine Drive	85	0	5	2	*	0	6.3
	Electro-Chemical Processes	Q	--	--	--	--	--	1.1
	Other Process Use	1	0	*	Q	*	0	1.5
	Direct Uses-Total Nonprocess	18	W	18	22	1	*	4.5
	Facility HVAC (g)	9	W	*	21	*	*	6.1
	Facility Lighting	7	--	--	--	--	--	1.3
	Other Facility Support	2	0	*	1	*	0	7.5
	Onsite Transportation	*	--	11	*	1	--	3.4
	Conventional Electricity Generation	--	0	Q	0	*	0	0.9
	Other Nonprocess Use	*	0	Q	*	*	0	1.4
	End Use Not Reported	5	W	W	23	*	*	8.6
3272	**Glass and Glass Products**							
	RSE Column Factors:	NF	0.6	0.8	1.4	1.4	0.7	
	TOTAL FUEL CONSUMPTION	42	W	W	152	1	0	3
	Indirect Uses-Boiler Fuel	*	*	W	2	*	0	1.6
	Conventional Boiler Use	*	*	W	2	*	0	1.6
	CHP and/or Cogeneration Process	0	0	*	*	0	0	1.7
	Direct Uses-Total Process	35	W	*	141	*	0	1.3
	Process Heating	16	W	*	138	*	0	1.4
	Process Cooling and Refrigeration	2	0	*	*	0	0	1.4
	Machine Drive	16	0	*	1	*	0	3.8
	Electro-Chemical Processes	*	--	--	--	--	--	1.7
	Other Process Use	*	0	*	1	*	0	0.8
	Direct Uses-Total Nonprocess	6	W	*	7	*	0	1.9
	Facility HVAC (g)	3	W	*	7	*	0	1.8
	Facility Lighting	2	--	--	--	--	--	1.2
	Other Facility Support	*	0	*	*	*	0	2
	Onsite Transportation	*	--	*	*	*	--	1.4
	Conventional Electricity Generation	--	0	*	0	*	0	0.9
	Other Nonprocess Use	*	0	*	0	0	0	5.5
	End Use Not Reported	1	0	*	2	*	0	29.8
327211	**Flat Glass**							
	RSE Column Factors:	NF	1	1	1	1	1	

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	W	W	W	52	*	0	1
	Indirect Uses-Boiler Fuel	0	0	W	*	0	0	1
	Conventional Boiler Use	0	0	W	*	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	W	W	*	50	*	0	1
	Process Heating	W	W	*	50	*	0	1
	Process Cooling and Refrigeration	*	0	0	*	0	0	1
	Machine Drive	3	0	*	*	*	0	1
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	W	*	*	1	*	0	1
	Facility HVAC (g)	W	*	0	1	0	0	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	*	*	*	0	1
	Onsite Transportation	*	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	0	0	*	0	1
327213	**Glass Containers**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	13	0	*	52	*	0	1
	Indirect Uses-Boiler Fuel	*	0	0	*	0	0	1
	Conventional Boiler Use	*	0	0	*	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	12	0	*	50	*	0	1
	Process Heating	4	0	0	49	*	0	1
	Process Cooling and Refrigeration	*	0	0	0	0	0	1
	Machine Drive	7	0	*	0	0	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	*	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	2	0	*	2	*	0	1
	Facility HVAC (g)	1	0	*	2	0	0	1
	Facility Lighting	1	--	--	--	--	--	1
	Other Facility Support	*	0	*	*	0	0	1
	Onsite Transportation	*	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	0	0	0	0	1
327310	**Cements**							
	RSE Column Factors:	NF	0.7	1.3	1.5	1.1	0.8	
	TOTAL FUEL CONSUMPTION	45	1	6	21	*	236	2.1
	Indirect Uses-Boiler Fuel	*	0	W	W	*	W	1.1
	Conventional Boiler Use	0	0	W	*	*	W	1.1
	CHP and/or Cogeneration Process	*	0	0	W	0	0	0.9
	Direct Uses-Total Process	41	1	W	W	*	W	1.5
	Process Heating	3	1	W	W	*	W	1.5
	Process Cooling and Refrigeration	1	0	0	0	0	0	1.1
	Machine Drive	36	0	*	*	*	0	1
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	0	*	*	0	0.9
	Direct Uses-Total Nonprocess	3	0	W	1	*	*	2
	Facility HVAC (g)	1	0	*	1	*	*	2.2
	Facility Lighting	1	--	--	--	--	--	1.2
	Other Facility Support	*	0	*	*	*	0	0.9
	Onsite Transportation	*	--	W	0	*	--	1.6
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	0	0	*	0	0	0	0.9
	End Use Not Reported	1	0	*	*	*	*	1.4
327410	**Lime**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	5	1	1	8	*	66	1
	Indirect Uses-Boiler Fuel	0	0	0	0	0	0	1
	Conventional Boiler Use	0	0	0	0	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	4	W	W	8	*	66	1
	Process Heating	1	W	W	7	*	66	1
	Process Cooling and Refrigeration	*	0	0	0	0	0	1
	Machine Drive	3	0	*	*	*	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	0	0	0	0	1

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Direct Uses-Total Nonprocess	*	W	W	*	*	0	1
	Facility HVAC (g)	*	W	*	*	*	0	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	0	*	*	0	1
	Onsite Transportation	0	--	W	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	W	*	*	0	1
	End Use Not Reported	0	W	W	0	*	0	1
327993	**Mineral Wool**							
	RSE Column Factors:	NF	0.9	0.6	1.2	1.2	0.9	
	TOTAL FUEL CONSUMPTION	13	0	*	35	*	0	1.2
	Indirect Uses-Boiler Fuel	0	0	0	1	0	0	1
	Conventional Boiler Use	0	0	0	1	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1.2
	Direct Uses-Total Process	12	0	*	32	*	0	1.1
	Process Heating	5	0	*	32	*	0	1.2
	Process Cooling and Refrigeration	*	0	0	0	0	0	0.9
	Machine Drive	6	0	*	*	*	0	1.6
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	0	*	0	0	0.9
	Direct Uses-Total Nonprocess	1	0	*	2	*	0	1.6
	Facility HVAC (g)	*	0	*	2	*	0	1.6
	Facility Lighting	1	--	--	--	--	--	1.2
	Other Facility Support	*	0	*	*	0	0	1.7
	Onsite Transportation	*	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	*	0	0	0	1.1
	Other Nonprocess Use	0	0	0	0	*	0	1
	End Use Not Reported	*	0	*	*	*	0	7.5
331	**PRIMARY METALS**							
	RSE Column Factors:	NF	1.6	1.3	1	1.4	0.8	
	TOTAL FUEL CONSUMPTION	514	1	15	669	3	47	2.5
	Indirect Uses-Boiler Fuel	1	*	*	71	*	3	2.5
	Conventional Boiler Use	1	*	*	40	*	W	2.7
	CHP and/or Cogeneration Process	*	0	*	31	0	W	1.2

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Direct Uses-Total Process	472	*	9	540	1	37	3.5
	Process Heating	144	*	6	530	1	33	4.2
	Process Cooling and Refrigeration	4	0	0	1	0	0	2.4
	Machine Drive	165	*	W	W	*	0	3.7
	Electro-Chemical Processes	158	--	--	--	--	--	1
	Other Process Use	1	0	W	W	*	4	2.6
	Direct Uses-Total Nonprocess	38	*	W	53	1	W	1.8
	Facility HVAC (g)	19	*	*	45	*	*	3.2
	Facility Lighting	15	--	--	--	--	--	1.1
	Other Facility Support	4	0	*	5	*	0	3.7
	Onsite Transportation	*	--	W	*	1	--	2.2
	Conventional Electricity Generation	--	0	*	3	*	W	2
	Other Nonprocess Use	1	0	*	*	*	0	3.3
	End Use Not Reported	3	*	W	6	*	W	6.8
331111	**Iron and Steel Mills**							
	RSE Column Factors:	NF	0.6	1.5	1	1.9	1.2	
	TOTAL FUEL CONSUMPTION	198	1	10	388	*	36	3.3
	Indirect Uses-Boiler Fuel	1	*	*	39	*	W	1.3
	Conventional Boiler Use	*	*	*	23	*	W	1.4
	CHP and/or Cogeneration Process	*	0	*	16	0	W	1
	Direct Uses-Total Process	185	*	W	330	*	W	3.3
	Process Heating	80	*	W	329	*	33	1.9
	Process Cooling and Refrigeration	2	0	0	1	0	0	1.2
	Machine Drive	98	0	1	*	*	0	3.9
	Electro-Chemical Processes	5	--	--	--	--	--	1
	Other Process Use	*	0	*	*	0	1	2
	Direct Uses-Total Nonprocess	12	0	W	19	*	0	3.3
	Facility HVAC (g)	6	0	*	14	*	0	3.3
	Facility Lighting	5	--	--	--	--	--	1.2
	Other Facility Support	1	0	0	2	0	0	2.4
	Onsite Transportation	*	--	W	0	*	--	2.1
	Conventional Electricity Generation	--	0	0	2	0	0	1.2
	Other Nonprocess Use	0	0	*	0	0	0	5.5
	End Use Not Reported	1	*	W	Q	*	0	2.2
331112	**Electrometallurgical Ferroalloy Products**							

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	RSE Column Factors:	NF	1	1.1	0.8	0.9	0.7	
	TOTAL FUEL CONSUMPTION	12	0	*	7	*	2	3.4
	Indirect Uses-Boiler Fuel	*	0	0	*	*	0	0.9
	Conventional Boiler Use	*	0	0	*	*	0	0.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	11	0	*	6	0	2	1.6
	Process Heating	6	0	0	6	0	0	2.3
	Process Cooling and Refrigeration	*	0	0	0	0	0	0.8
	Machine Drive	1	0	*	0	0	0	2.2
	Electro-Chemical Processes	4	--	--	--	--	--	1
	Other Process Use	*	0	*	*	0	2	1
	Direct Uses-Total Nonprocess	1	0	*	1	*	0	0.9
	Facility HVAC (g)	1	0	*	1	*	0	0.9
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	0	*	0	0	0.9
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	*	0	0	0	0.8
	Other Nonprocess Use	*	0	0	0	0	0	0.8
	End Use Not Reported	0	0	*	*	0	0	4.1
3312	**Steel Products from Purchased Steel**							
	RSE Column Factors:	NF	0.5	2	1.3	2.7	0.6	
	TOTAL FUEL CONSUMPTION	16	*	*	24	*	0	10.9
	Indirect Uses-Boiler Fuel	*	*	*	W	*	0	3.9
	Conventional Boiler Use	*	*	*	W	*	0	3.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	3.5
	Direct Uses-Total Process	13	*	*	17	*	0	6.1
	Process Heating	W	*	*	W	*	0	7.9
	Process Cooling and Refrigeration	*	0	0	*	0	0	8.6
	Machine Drive	8	0	*	W	*	0	7.2
	Electro-Chemical Processes	1	--	--	--	--	--	1.1
	Other Process Use	*	0	*	0	0	0	10.6
	Direct Uses-Total Nonprocess	3	*	*	W	*	0	3.4
	Facility HVAC (g)	1	*	*	3	*	0	4.9
	Facility Lighting	1	--	--	--	--	--	1.4
	Other Facility Support	*	0	*	W	*	0	2.8
	Onsite Transportation	*	--	*	0	*	--	2.5

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Conventional Electricity Generation	--	0	0	0	*	0	3.2
	Other Nonprocess Use	*	0	*	0	0	0	3.4
	End Use Not Reported	*	0	*	W	*	0	29
3313	**Alumina and Aluminum**							
	RSE Column Factors:	NF	0.4	1.6	1.6	2.2	0.5	
	TOTAL FUEL CONSUMPTION	196	*	1	130	1	0	2.1
	Indirect Uses-Boiler Fuel	*	*	*	18	*	0	2.6
	Conventional Boiler Use	*	*	*	W	*	0	3.4
	CHP and/or Cogeneration Process	*	0	0	W	0	0	0.9
	Direct Uses-Total Process	187	0	*	104	*	0	1.9
	Process Heating	17	0	*	97	*	0	2.2
	Process Cooling and Refrigeration	*	0	0	0	0	0	5.2
	Machine Drive	27	0	*	W	*	0	3.6
	Electro-Chemical Processes	143	--	--	--	--	--	1
	Other Process Use	*	0	*	W	0	0	4.2
	Direct Uses-Total Nonprocess	8	0	1	W	*	0	3.2
	Facility HVAC (g)	4	0	*	6	*	0	1.8
	Facility Lighting	3	--	--	--	--	--	1.3
	Other Facility Support	1	0	0	W	0	0	7
	Onsite Transportation	*	--	1	*	*	--	4.8
	Conventional Electricity Generation	--	0	0	0	0	0	1.1
	Other Nonprocess Use	*	0	0	0	0	0	1.1
	End Use Not Reported	Q	*	*	W	*	0	6.5
331312	**Primary Aluminum**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	W	*	*	20	*	0	1
	Indirect Uses-Boiler Fuel	0	*	*	1	0	0	1
	Conventional Boiler Use	0	*	*	1	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	163	0	*	17	*	0	1
	Process Heating	W	0	*	W	*	0	1
	Process Cooling and Refrigeration	*	0	0	0	0	0	1
	Machine Drive	W	0	*	0	*	0	1
	Electro-Chemical Processes	142	--	--	--	--	--	1

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Other Process Use	0	0	0	W	0	0	1
	Direct Uses-Total Nonprocess	W	0	*	1	*	0	1
	Facility HVAC (g)	W	0	0	1	*	0	1
	Facility Lighting	2	--	--	--	--	--	1
	Other Facility Support	*	0	0	*	0	0	1.6
	Onsite Transportation	0	--	*	*	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	0	0	0	0	1
3314	**Nonferrous Metals, except Aluminum**							
	RSE Column Factors:	NF	0.9	1.4	1.4	1.5	0.4	
	TOTAL FUEL CONSUMPTION	37	*	2	44	1	8	4.3
	Indirect Uses-Boiler Fuel	*	*	*	W	*	W	2.8
	Conventional Boiler Use	*	*	*	W	*	W	3
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1.3
	Direct Uses-Total Process	32	0	W	30	*	*	2
	Process Heating	13	0	*	30	*	*	3.4
	Process Cooling and Refrigeration	1	0	0	0	0	0	2.4
	Machine Drive	13	0	W	*	*	0	2.2
	Electro-Chemical Processes	5	--	--	--	--	--	1
	Other Process Use	*	0	*	*	*	0	2.8
	Direct Uses-Total Nonprocess	5	*	W	W	*	W	3.3
	Facility HVAC (g)	2	*	*	4	*	0	3.6
	Facility Lighting	2	--	--	--	--	--	1.3
	Other Facility Support	*	0	0	W	*	0	2.7
	Onsite Transportation	*	--	W	*	*	--	3.8
	Conventional Electricity Generation	--	0	*	*	0	W	3.3
	Other Nonprocess Use	*	0	*	0	0	0	3.7
	End Use Not Reported	*	*	W	W	*	0	7
3315	**Foundries**							
	RSE Column Factors:	NF	0.7	1.6	1.2	1.5	0.7	
	TOTAL FUEL CONSUMPTION	54	*	1	77	1	1	2.1
	Indirect Uses-Boiler Fuel	*	*	*	3	*	*	1.9
	Conventional Boiler Use	*	*	*	3	*	0	1.8

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	CHP and/or Cogeneration Process	0	0	0	*	0	*	2.3
	Direct Uses-Total Process	44	*	*	54	*	*	2.2
	Process Heating	24	0	*	52	*	*	2.5
	Process Cooling and Refrigeration	1	0	0	*	0	0	3.6
	Machine Drive	18	*	*	W	*	0	3.8
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	*	W	*	*	3.1
	Direct Uses-Total Nonprocess	9	0	1	18	*	*	2.6
	Facility HVAC (g)	5	0	*	16	*	*	5
	Facility Lighting	3	--	--	--	--	--	1.1
	Other Facility Support	1	0	*	1	*	0	1.9
	Onsite Transportation	*	--	1	*	*	--	2
	Conventional Electricity Generation	--	0	*	*	*	0	1.1
	Other Nonprocess Use	*	0	*	*	*	0	2.5
	End Use Not Reported	1	0	*	2	*	*	9
331511	**Iron Foundries**							
	RSE Column Factors:	NF	0.7	1.1	0.9	2.1	0.9	
	TOTAL FUEL CONSUMPTION	28	0	1	27	*	1	2.7
	Indirect Uses-Boiler Fuel	*	0	0	1	*	*	1.1
	Conventional Boiler Use	*	0	0	1	*	0	0.9
	CHP and/or Cogeneration Process	0	0	0	0	0	*	2
	Direct Uses-Total Process	23	0	*	18	*	*	2.4
	Process Heating	14	0	*	16	*	*	2.7
	Process Cooling and Refrigeration	1	0	0	0	0	0	3.3
	Machine Drive	8	0	*	W	*	0	2.9
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	0	W	*	*	1.4
	Direct Uses-Total Nonprocess	4	0	*	9	*	*	3.3
	Facility HVAC (g)	2	0	*	8	*	*	6
	Facility Lighting	2	--	--	--	--	--	1.2
	Other Facility Support	*	0	*	1	*	0	2.4
	Onsite Transportation	*	--	*	*	*	--	2
	Conventional Electricity Generation	--	0	*	*	0	0	2
	Other Nonprocess Use	*	0	*	*	0	0	1.1
	End Use Not Reported	*	0	*	*	*	0	12.2
331521	**Aluminum Die-Casting Foundries**							

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	RSE Column Factors:	NF	0.7	0.9	1.4	1.5	0.8	
	TOTAL FUEL CONSUMPTION	6	*	*	16	*	0	2.4
	Indirect Uses-Boiler Fuel	0	*	0	1	*	0	1.2
	Conventional Boiler Use	0	*	0	1	*	0	1.2
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1.5
	Direct Uses-Total Process	4	0	*	10	*	0	3.7
	Process Heating	1	0	*	10	*	0	1.7
	Process Cooling and Refrigeration	*	0	0	*	0	0	1.7
	Machine Drive	3	0	0	*	*	0	4.6
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	2	0	*	4	*	0	2.2
	Facility HVAC (g)	1	0	0	3	*	0	2.2
	Facility Lighting	1	--	--	--	--	--	1.2
	Other Facility Support	*	0	0	*	0	0	3.2
	Onsite Transportation	*	--	*	*	*	--	1.7
	Conventional Electricity Generation	--	0	*	0	*	0	0.9
	Other Nonprocess Use	*	0	0	*	0	0	0.9
	End Use Not Reported	*	0	*	1	*	0	4.6
331524	**Aluminum Foundries, except Die-Casting**							
	RSE Column Factors:	NF	0.8	1	1.2	1.1	0.8	
	TOTAL FUEL CONSUMPTION	5	*	*	14	*	0	3.4
	Indirect Uses-Boiler Fuel	*	0	0	*	*	0	0.9
	Conventional Boiler Use	*	0	0	*	*	0	0.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1.3
	Direct Uses-Total Process	3	*	*	11	*	0	2.7
	Process Heating	1	0	*	11	*	0	3.4
	Process Cooling and Refrigeration	*	0	0	*	0	0	0.9
	Machine Drive	2	*	*	*	*	0	1.3
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	0	*	0	0	0.9
	Direct Uses-Total Nonprocess	1	0	*	2	*	0	2.3
	Facility HVAC (g)	1	0	*	2	*	0	1.8
	Facility Lighting	*	--	--	--	--	--	1.3
	Other Facility Support	*	0	0	1	*	0	1.1

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Onsite Transportation	*	--	*	0	*	--	1.4
	Conventional Electricity Generation	--	0	*	0	*	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1.3
	End Use Not Reported	*	0	*	*	*	0	21.7
332	**FABRICATED METAL PRODUCTS**							
	RSE Column Factors:	NF	0.8	3.1	1.4	1.9	0.3	
	TOTAL FUEL CONSUMPTION	162	Q	6	209	3	1	15.9
	Indirect Uses-Boiler Fuel	*	*	*	W	*	0	12.5
	Conventional Boiler Use	*	*	*	W	*	0	12.8
	CHP and/or Cogeneration Process	*	0	*	W	0	0	1.1
	Direct Uses-Total Process	115	W	W	132	W	W	9
	Process Heating	37	W	W	130	W	*	13.7
	Process Cooling and Refrigeration	6	0	*	*	0	0	9.1
	Machine Drive	71	0	*	2	*	0	9.8
	Electro-Chemical Processes	1	--	--	--	--	--	1.6
	Other Process Use	*	0	*	*	*	W	6.8
	Direct Uses-Total Nonprocess	35	W	W	45	W	W	6.1
	Facility HVAC (g)	16	W	1	43	W	W	6.5
	Facility Lighting	15	--	--	--	--	--	1.4
	Other Facility Support	3	0	*	1	*	0	7.4
	Onsite Transportation	*	--	W	*	2	--	4.6
	Conventional Electricity Generation	--	0	*	*	*	0	3.1
	Other Nonprocess Use	*	0	*	Q	*	0	7.9
	End Use Not Reported	11	*	W	W	W	0	21.5
333	**MACHINERY**							
	RSE Column Factors:	NF	0.4	3.6	1.7	2.7	0.4	
	TOTAL FUEL CONSUMPTION	84	*	2	82	2	1	10.3
	Indirect Uses-Boiler Fuel	*	*	*	14	*	1	6.7
	Conventional Boiler Use	*	*	*	13	*	*	10.3
	CHP and/or Cogeneration Process	0	0	*	1	0	1	3.7
	Direct Uses-Total Process	51	0	W	32	W	0	6.2
	Process Heating	6	0	*	30	W	0	8.8
	Process Cooling and Refrigeration	3	0	0	*	0	0	5.7
	Machine Drive	41	0	*	2	*	0	7.4

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Electro-Chemical Processes	1	--	--	--	--	--	1.6
	Other Process Use	*	0	W	*	*	0	11.2
	Direct Uses-Total Nonprocess	30	*	W	31	W	0	5
	Facility HVAC (g)	16	*	*	30	W	0	6.3
	Facility Lighting	12	--	--	--	--	--	1.3
	Other Facility Support	2	0	*	1	*	0	6.8
	Onsite Transportation	*	--	W	*	W	--	5.7
	Conventional Electricity Generation	--	0	*	*	0	0	3.1
	Other Nonprocess Use	*	0	*	*	*	0	10.9
	End Use Not Reported	4	*	*	4	W	0	13.7
334	**COMPUTER AND ELECTRONIC PRODUCTS**							
	RSE Column Factors:	NF	0.6	1.9	1.3	1.2	1.2	
	TOTAL FUEL CONSUMPTION	131	1	1	65	*	*	17.7
	Indirect Uses-Boiler Fuel	*	1	1	27	*	*	12.8
	Conventional Boiler Use	*	1	1	27	*	0	11.5
	CHP and/or Cogeneration Process	0	0	0	*	0	*	4.3
	Direct Uses-Total Process	62	*	*	10	*	0	5.9
	Process Heating	15	*	0	9	*	0	7.1
	Process Cooling and Refrigeration	12	0	0	*	*	0	7.3
	Machine Drive	30	0	*	*	*	0	3
	Electro-Chemical Processes	2	--	--	--	--	--	1.5
	Other Process Use	4	0	*	1	0	0	4.1
	Direct Uses-Total Nonprocess	63	*	*	23	*	0	11.6
	Facility HVAC (g)	37	*	*	20	*	0	7.6
	Facility Lighting	17	--	--	--	--	--	1.5
	Other Facility Support	9	*	*	1	*	0	10.3
	Onsite Transportation	*	--	*	*	*	--	3.7
	Conventional Electricity Generation	--	0	*	*	*	0	3.7
	Other Nonprocess Use	*	0	*	1	*	0	5.3
	End Use Not Reported	6	*	*	5	*	0	12.6
334413	**Semiconductors and Related Devices**							
	RSE Column Factors:	NF	0.5	0.7	2.3	1.7	0.6	
	TOTAL FUEL CONSUMPTION	44	*	*	21	*	0	4
	Indirect Uses-Boiler Fuel	*	*	*	12	0	0	3.2

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	CHP and/or Cogeneration Process	*	*	*	11	0	0	3.2
	Other Boiler Fuel Use	0	0	0	*	0	0	0.8
	Direct Uses-Total Process	25	*	*	2	*	0	1.6
	Process Heating	4	*	0	1	*	0	1.8
	Process Cooling and Refrigeration	5	0	0	*	0	0	1.3
	Machine Drive	14	0	*	*	*	0	1.3
	Electro-Chemical Processes	1	--	--	--	--	--	1.2
	Other Process Use	1	0	*	1	0	0	1.5
	Direct Uses-Total Nonprocess	18	0	*	6	*	0	2.9
	Facility HVAC (g)	13	0	*	6	*	0	1.1
	Facility Lighting	3	--	--	--	--	--	1.2
	Other Facility Support	2	0	*	*	*	0	2.9
	Onsite Transportation	*	--	*	0	*	--	2.8
	Conventional Electricity Generation	--	0	*	0	0	0	1.3
	Other Nonprocess Use	*	0	*	*	0	0	2.3
	End Use Not Reported	1	0	*	2	*	0	4.8
335	**ELEC. EQUIP., APPLIANCES, COMPONENTS**							
	RSE Column Factors:	NF	1.2	2.1	1.5	1.6	0.4	
	TOTAL FUEL CONSUMPTION	47	*	1	53	1	*	6.3
	Indirect Uses-Boiler Fuel	*	*	*	6	*	*	2.9
	Conventional Boiler Use	*	*	*	6	*	*	2.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	4.1
	Direct Uses-Total Process	29	0	*	28	*	0	5.3
	Process Heating	9	0	*	27	*	0	8
	Process Cooling and Refrigeration	2	0	*	*	0	0	8.2
	Machine Drive	17	0	*	*	*	0	8.2
	Electro-Chemical Processes	1	--	--	--	--	--	1.5
	Other Process Use	*	0	*	*	*	0	12
	Direct Uses-Total Nonprocess	16	*	*	16	1	0	7.3
	Facility HVAC (g)	8	*	*	15	*	0	8.6
	Facility Lighting	6	--	--	--	--	--	1.3
	Other Facility Support	1	0	*	*	*	0	6.9
	Onsite Transportation	*	--	*	*	1	--	3.3
	Conventional Electricity Generation	--	0	*	*	0	0	1.3
	Other Nonprocess Use	*	0	*	*	*	0	12
	End Use Not Reported	2	*	*	3	*	0	22.4

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
336	**TRANSPORTATION EQUIPMENT**							
	RSE Column Factors:	NF	0.4	2.8	1.6	2.9	0.4	
	TOTAL FUEL CONSUMPTION	W	6	3	203	4	8	5.4
	Indirect Uses-Boiler Fuel	*	W	1	51	*	7	5.4
	Conventional Boiler Use	*	W	1	48	*	7	5.4
	CHP and/or Cogeneration Process	0	W	*	3	0	*	4
	Direct Uses-Total Process	103	*	*	75	W	*	7.1
	Process Heating	17	*	*	63	W	*	5.9
	Process Cooling and Refrigeration	8	*	0	2	*	0	3
	Machine Drive	75	0	*	2	*	0	7.8
	Electro-Chemical Processes	2	--	--	--	--	--	1.5
	Other Process Use	2	0	*	Q	*	0	2
	Direct Uses-Total Nonprocess	66	W	2	67	W	*	4.2
	Facility HVAC (g)	33	W	*	62	Q	*	4.3
	Facility Lighting	26	--	--	--	--	--	1.3
	Other Facility Support	6	*	*	2	*	0	5
	Onsite Transportation	1	--	2	*	W	--	5.6
	Conventional Electricity Generation	--	0	*	2	*	0	3.5
	Other Nonprocess Use	*	0	*	Q	*	0	2.9
	End Use Not Reported	W	*	*	10	*	*	20.7
336112	**Light Trucks and Utility Vehicles**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	17	*	*	36	*	W	1
	Indirect Uses-Boiler Fuel	*	*	0	12	*	W	1
	Conventional Boiler Use	*	*	0	12	*	W	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	10	0	0	14	*	0	1
	Process Heating	1	0	0	13	0	0	1
	Process Cooling and Refrigeration	1	0	0	1	0	0	1
	Machine Drive	8	0	0	*	*	0	1
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	1	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	W	*	*	10	*	0	1
	Facility HVAC (g)	W	*	0	10	*	0	1
	Facility Lighting	3	--	--	--	--	--	1

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Other Facility Support	1	0	*	*	*	0	1
	Onsite Transportation	*	--	*	*	*	--	1
	Conventional Electricity Generation	--	0	*	*	0	0	1
	Other Nonprocess Use	*	0	*	*	0	0	1
	End Use Not Reported	W	0	0	*	0	0	1
337	**FURNITURE AND RELATED PRODUCTS**							
	RSE Column Factors:	NF	0.5	1	2.1	1.7	1.4	
	TOTAL FUEL CONSUMPTION	24	*	1	25	1	1	8.7
	Indirect Uses-Boiler Fuel	*	0	*	1	*	1	6
	Conventional Boiler Use	*	0	*	1	*	1	6.9
	CHP and/or Cogeneration Process	*	0	0	*	0	*	3.6
	Direct Uses-Total Process	14	0	*	11	W	*	8.5
	Process Heating	1	0	*	11	W	*	7.3
	Process Cooling and Refrigeration	*	0	*	*	*	0	3.3
	Machine Drive	12	0	*	*	*	0	9.2
	Electro-Chemical Processes	*	--	--	--	--	--	1.1
	Other Process Use	*	0	0	0	0	0	3.6
	Direct Uses-Total Nonprocess	8	0	*	12	W	*	8
	Facility HVAC (g)	3	0	*	12	*	*	10.3
	Facility Lighting	4	--	--	--	--	--	1.4
	Other Facility Support	1	0	*	*	*	0	3.9
	Onsite Transportation	*	--	*	*	W	--	5.2
	Conventional Electricity Generation	--	0	*	0	*	0	1.1
	Other Nonprocess Use	*	0	*	*	0	0	1.2
	End Use Not Reported	2	*	*	1	W	*	23.1
339	**MISCELLANEOUS**							
	RSE Column Factors:	NF	0.3	2.7	2.1	1.7	0.5	
	TOTAL FUEL CONSUMPTION	35	*	*	32	1	0	7.3
	Indirect Uses-Boiler Fuel	W	*	*	10	*	0	3.7
	Conventional Boiler Use	W	*	*	10	*	0	3.7
	CHP and/or Cogeneration Process	0	0	0	0	0	0	3.7
	Direct Uses-Total Process	18	0	*	9	*	0	7.4
	Process Heating	3	0	0	8	*	0	7.3
	Process Cooling and Refrigeration	2	0	0	*	0	0	6.1

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
	Machine Drive	13	0	*	*	*	0	9.7
	Electro-Chemical Processes	*	--	--	--	--	--	1.6
	Other Process Use	*	0	0	*	*	0	3.5
	Direct Uses-Total Nonprocess	14	0	*	10	*	0	6.3
	Facility HVAC (g)	7	0	*	10	*	0	7.3
	Facility Lighting	5	--	--	--	--	--	1.3
	Other Facility Support	1	0	*	*	*	0	5.9
	Onsite Transportation	*	--	*	0	*	--	3.3
	Conventional Electricity Generation	--	0	*	*	*	0	1.8
	Other Nonprocess Use	*	0	*	*	*	0	7.7
	End Use Not Reported	W	*	*	3	*	0	14.2

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) 'Net Demand for Electricity' is the sum of purchases, transfers in, and total onsite electricity generation, minus sales and transfers offsite. It is the total amount of electricity used by establishments. 'Net Demand for Electricity' is not directly comparable with "Net Electricity,' which specifically excludes electricity generated onsite by combustible energy sources.
(c) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.
(d) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.
(e) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'
(f) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes steam and hot water.
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.
-- Estimation is not applicable.
S=Negative value.
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

Table 5.4 End Uses of Fuel Consumption, 2002;
Level: National Data;
Row: End Uses within NAICS Codes;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors

components because of independent rounding. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.
Allocations to specific end uses are made on the basis of reasonable approximations by respondents.

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

Table 5.5 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

End Use	Total (trillion Btu)	Net Electricity(a) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(e) (trillion Btu)	RSE Row Factors
Total United States									
RSE Column Factors:	1	1	2.4	1.1	1.4	1	0	0	
TOTAL FUEL CONSUMPTION	16,273	832,257	33	24	5,641	26	53	6,006	3.4
Indirect Uses-Boiler Fuel	--	3,540	20	6	2,105	2	35	--	5.3
Conventional Boiler Use	--	2,496	12	4	1,271	2	11	--	5.6
CHP and/or Cogeneration Process	--	1,043	8	2	834	*	23	--	3.8
Direct Uses-Total Process	--	650,100	10	7	2,907	16	17	--	2.9
Process Heating	--	100,541	9	4	2,670	15	17	--	3.3
Process Cooling and Refrigeration	--	56,723	*	*	44	*	*	--	3.8
Machine Drive	--	417,998	*	3	106	1	*	--	4.8
Electro-Chemical Processes	--	71,045	--	--	--	--	--	--	1
Other Process Use	--	3,793	*	*	87	*	*	--	5.3
Direct Uses-Total Nonprocess	--	150,530	1	9	500	6	1	--	4.6
Facility HVAC (f)	--	76,840	1	1	406	1	*	--	6.6
Facility Lighting	--	57,460	--	--	--	--	--	--	1.1
Other Facility Support	--	14,087	*	*	29	*	*	--	9.7
Onsite Transportation	--	1,212	--	6	2	5	--	--	3.1
Conventional Electricity Generation	--	--	*	Q	54	*	1	--	1.7
Other Nonprocess Use	--	931	*	Q	10	*	0	--	8.8
End Use Not Reported	6,276	28,087	3	2	129	2	*	6,006	8.3
Northeast Census Region									
RSE Column Factors:	1.3	1	2.7	1.2	1.8	0.6	0	0	
TOTAL FUEL CONSUMPTION	1,530	97,798	11	5	523	2	4	460	4.4
Indirect Uses-Boiler Fuel	--	244	7	2	183	*	2	--	5.6
Conventional Boiler Use	--	62	5	1	114	*	*	--	8.7
CHP and/or Cogeneration Process	--	181	2	*	70	0	1	--	2.6
Direct Uses-Total Process	--	70,513	2	2	236	1	2	--	6
Process Heating	--	12,020	2	2	220	1	2	--	7.1
Process Cooling and Refrigeration	--	6,864	*	*	5	*	0	--	4.3
Machine Drive	--	44,630	*	*	7	*	0	--	8.8
Electro-Chemical Processes	--	6,260	--	--	--	--	--	--	1
Other Process Use	--	Q	*	*	4	*	0	--	9.1
Direct Uses-Total Nonprocess	--	22,350	*	1	79	1	*	--	4.7
Facility HVAC (f)	--	11,241	*	1	66	*	*	--	6.4
Facility Lighting	--	8,831	--	--	--	--	--	--	1.3
Other Facility Support	--	2,119	*	*	9	*	0	--	12.2
Onsite Transportation	--	142	--	*	*	1	--	--	3.5

Table 5.5 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

End Use	Total (trillion Btu)	Net Electricity(a) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(e) (trillion Btu)	RSE Row Factors
Conventional Electricity Generation	--	--	*	*	2	*	*	--	2.1
Other Nonprocess Use	--	Q	0	*	1	*	0	--	10.9
End Use Not Reported	512	4,691	1	1	26	*	*	460	7.6
Midwest Census Region									
RSE Column Factors:	1.2	0.9	2.3	1.3	1.8	0.8	0	0	
TOTAL FUEL CONSUMPTION	4,209	251,584	3	5	1,455	5	20	1,340	5.8
Indirect Uses-Boiler Fuel	--	1,338	3	1	405	*	14	--	8.1
Conventional Boiler Use	--	944	1	1	348	*	6	--	10.7
CHP and/or Cogeneration Process	--	394	1	*	57	*	8	--	4.9
Direct Uses-Total Process	--	196,978	1	2	792	2	5	--	5.2
Process Heating	--	35,404	1	1	750	2	5	--	5.9
Process Cooling and Refrigeration	--	15,703	0	*	3	*	0	--	5.3
Machine Drive	--	126,268	0	*	20	*	*	--	8.1
Electro-Chemical Processes	--	18,306	--	--	--	--	--	--	1
Other Process Use	--	1,296	*	*	19	*	*	--	5.1
Direct Uses-Total Nonprocess	--	45,931	*	2	213	2	*	--	7.6
Facility HVAC (f)	--	21,653	*	*	193	*	*	--	5.9
Facility Lighting	--	19,073	--	--	--	--	--	--	1.2
Other Facility Support	--	4,268	*	*	8	*	*	--	4.6
Onsite Transportation	--	479	--	2	*	2	--	--	5
Conventional Electricity Generation	--	--	*	*	6	*	*	--	4.4
Other Nonprocess Use	--	457	*	Q	5	*	0	--	12.4
End Use Not Reported	1,418	7,337	*	*	46	Q	*	1,340	13.8
South Census Region									
RSE Column Factors:	0.9	0.6	3.2	1.2	1.5	1.1	0	0	
TOTAL FUEL CONSUMPTION	8,589	381,309	17	9	3,005	15	24	3,443	4.5
Indirect Uses-Boiler Fuel	--	1,843	9	3	1,273	1	17	--	6.9
Conventional Boiler Use	--	1,285	5	2	643	1	4	--	6.8
CHP and/or Cogeneration Process	--	558	4	1	630	*	13	--	2.4
Direct Uses-Total Process	--	305,991	6	2	1,542	11	6	--	3.5
Process Heating	--	43,974	6	1	1,375	10	6	--	3.8
Process Cooling and Refrigeration	--	27,435	*	*	35	*	*	--	3.4
Machine Drive	--	196,039	*	1	71	*	*	--	3.9
Electro-Chemical Processes	--	37,343	--	--	--	--	--	--	1
Other Process Use	--	1,200	*	*	60	*	*	--	4.2
Direct Uses-Total Nonprocess	--	62,347	*	3	153	2	*	--	4.7

Table 5.5 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

End Use	Total (trillion Btu)	Net Electricity(a) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(e) (trillion Btu)	RSE Row Factors
Facility HVAC (f)	--	33,686	*	*	106	*	*	--	8.1
Facility Lighting	--	22,460	--	--	--	--	--	--	1.2
Other Facility Support	--	5,325	*	*	8	*	*	--	3.8
Onsite Transportation	--	508	--	3	1	2	--	--	3.5
Conventional Electricity Generation	--	--	0	*	34	*	*	--	1.3
Other Nonprocess Use	--	369	*	*	3	*	0	--	8.1
End Use Not Reported	3,540	11,127	2	1	37	1	*	3,443	10.3
West Census Region									
RSE Column Factors:	1.4	0.5	3.4	1.9	1.6	0.4	0	0	
TOTAL FUEL CONSUMPTION	1,945	101,565	2	5	658	4	5	762	3.7
Indirect Uses-Boiler Fuel	--	114	1	*	244	1	2	--	3.5
Conventional Boiler Use	--	205	1	*	166	1	*	--	3.5
CHP and/or Cogeneration Process	--	-91	*	*	78	*	1	--	1.1
Direct Uses-Total Process	--	76,618	1	2	338	2	3	--	3.8
Process Heating	--	9,143	1	*	325	2	3	--	3.7
Process Cooling and Refrigeration	--	6,720	0	*	1	*	0	--	4
Machine Drive	--	51,061	0	1	9	*	0	--	5
Electro-Chemical Processes	--	9,137	--	--	--	--	--	--	1.1
Other Process Use	--	558	0	*	4	*	0	--	6
Direct Uses-Total Nonprocess	--	19,902	*	2	56	1	*	--	3.7
Facility HVAC (f)	--	10,260	0	*	41	*	*	--	5.5
Facility Lighting	--	7,096	--	--	--	--	--	--	1.2
Other Facility Support	--	2,376	*	*	3	*	0	--	4.1
Onsite Transportation	--	83	--	1	*	1	--	--	5.1
Conventional Electricity Generation	--	--	0	Q	10	*	*	--	1.5
Other Nonprocess Use	--	87	0	*	1	*	0	--	6.8
End Use Not Reported	806	4,931	*	*	20	*	*	762	9.8

(a) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

(b) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(c) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

Table 5.5 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

End Use	Total (trillion Btu)	Net Electricity(a) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(e) (trillion Btu)	RSE Row Factors

(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(e) 'Other' includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power.

(f) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes steam and hot water.

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.

-- Estimation is not applicable.

S=Negative value.

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. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.
Allocations to specific end uses are made on the basis of reasonable approximations by respondents.

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

Table 5.6 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

End Use	Total	Net Electricity(a)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(b)	Natural Gas(c)	LPG and NGL(d)	Coal (excluding Coal Coke and Breeze)	Other(e)	RSE Row Factors
Total United States									
RSE Column Factors:	1	1	2.4	1.1	1.3	1	0	0	
TOTAL FUEL CONSUMPTION	16,273	2,840	208	141	5,794	103	1,182	6,006	3.3
Indirect Uses-Boiler Fuel	--	12	127	35	2,162	8	776	--	5.5
Conventional Boiler Use	--	9	76	25	1,306	8	255	--	5.6
CHP and/or Cogeneration Process	--	4	51	10	857	*	521	--	3.7
Direct Uses-Total Process	--	2,218	60	43	2,986	64	381	--	2.9
Process Heating	--	343	58	24	2,742	60	368	--	3.2
Process Cooling and Refrigeration	--	194	*	2	45	*	*	--	3.7
Machine Drive	--	1,426	2	16	109	4	5	--	4.8
Electro-Chemical Processes	--	242	--	--	--	--	--	--	1
Other Process Use	--	13	*	1	90	*	7	--	5.3
Direct Uses-Total Nonprocess	--	514	4	50	513	24	19	--	4.6
Facility HVAC (f)	--	262	3	5	417	5	5	--	6.6
Facility Lighting	--	196	--	--	--	--	--	--	1.1
Other Facility Support	--	48	*	1	30	*	*	--	9.7
Onsite Transportation	--	4	--	35	2	18	--	--	3.1
Conventional Electricity Generation	--	--	1	Q	55	*	14	--	1.7
Other Nonprocess Use	--	3	*	Q	10	*	0	--	8.8
End Use Not Reported	6,276	96	17	12	132	6	6	6,006	8.7
Northeast Census Region									
RSE Column Factors:	1.3	1	2.7	1.2	1.8	0.6	0	0	
TOTAL FUEL CONSUMPTION	1,530	334	68	30	538	9	92	460	4.4
Indirect Uses-Boiler Fuel	--	1	44	9	188	*	37	--	5.8
Conventional Boiler Use	--	*	30	7	117	*	10	--	8.8
CHP and/or Cogeneration Process	--	1	15	2	71	0	27	--	2.6
Direct Uses-Total Process	--	241	14	11	242	4	47	--	6
Process Heating	--	41	14	9	226	4	47	--	7
Process Cooling and Refrigeration	--	23	*	*	5	*	0	--	4.3
Machine Drive	--	152	*	2	7	1	0	--	8.8
Electro-Chemical Processes	--	21	--	--	--	--	--	--	1
Other Process Use	--	Q	*	*	4	*	0	--	9.1
Direct Uses-Total Nonprocess	--	76	3	7	81	4	8	--	4.7
Facility HVAC (f)	--	38	2	3	68	1	*	--	6.4
Facility Lighting	--	30	--	--	--	--	--	--	1.3

Table 5.6 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

End Use	Total	Net Electricity(a)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(b)	Natural Gas(c)	LPG and NGL(d)	Coal (excluding Coal Coke and Breeze)	Other(e)	RSE Row Factors
Other Facility Support	--	7	*	*	9	*	0	--	12.3
Onsite Transportation	--	*	--	2	*	2	--	--	3.5
Conventional Electricity Generation	--	--	*	1	3	*	8	--	2.1
Other Nonprocess Use	--	*	0	*	1	*	0	--	10.9
End Use Not Reported	512	16	6	3	27	1	*	460	7.6
Midwest Census Region									
RSE Column Factors:	1.2	0.9	2.3	1.3	1.8	0.8	0	0	
TOTAL FUEL CONSUMPTION	4,209	858	22	29	1,494	20	445	1,340	5.8
Indirect Uses-Boiler Fuel	--	5	16	3	416	2	319	--	8.2
Conventional Boiler Use	--	3	8	3	358	2	139	--	10.7
CHP and/or Cogeneration Process	--	1	8	*	58	*	180	--	4.9
Direct Uses-Total Process	--	672	5	12	813	8	121	--	5.2
Process Heating	--	121	5	8	770	7	114	--	5.9
Process Cooling and Refrigeration	--	54	0	*	3	*	0	--	5.3
Machine Drive	--	431	0	3	20	1	1	--	8.1
Electro-Chemical Processes	--	62	--	--	--	--	--	--	1
Other Process Use	--	4	*	1	19	*	7	--	5.1
Direct Uses-Total Nonprocess	--	157	*	13	218	8	2	--	7.5
Facility HVAC (f)	--	74	*	*	198	2	1	--	5.9
Facility Lighting	--	65	--	--	--	--	--	--	1.2
Other Facility Support	--	15	*	*	9	*	*	--	4.6
Onsite Transportation	--	2	--	9	*	6	--	--	5
Conventional Electricity Generation	--	--	*	*	6	*	1	--	4.4
Other Nonprocess Use	--	2	*	Q	5	*	0	--	12.4
End Use Not Reported	1,418	25	1	1	47	Q	2	1,340	13.8
South Census Region									
RSE Column Factors:	0.9	0.6	3.3	1.2	1.5	1	0	0	
TOTAL FUEL CONSUMPTION	8,589	1,301	107	54	3,086	58	540	3,443	4.3
Indirect Uses-Boiler Fuel	--	6	59	21	1,308	3	386	--	7.4
Conventional Boiler Use	--	4	33	13	660	3	97	--	6.8
CHP and/or Cogeneration Process	--	2	26	8	647	*	289	--	2.4
Direct Uses-Total Process	--	1,044	37	9	1,583	44	144	--	3.5
Process Heating	--	150	35	5	1,412	43	139	--	3.8
Process Cooling and Refrigeration	--	94	*	*	36	*	*	--	3.4

Table 5.6 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

End Use	Total	Net Electricity(a)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(b)	Natural Gas(c)	LPG and NGL(d)	Coal (excluding Coal Coke and Breeze)	Other(e)	RSE Row Factors
Machine Drive	--	669	2	4	73	1	4	--	3.9
Electro-Chemical Processes	--	127	--	--	--	--	--	--	1
Other Process Use	--	4	*	*	62	*	1	--	4.2
Direct Uses-Total Nonprocess	--	213	Q	18	157	9	9	--	4.8
Facility HVAC (f)	--	115	Q	1	108	2	4	--	8
Facility Lighting	--	77	--	--	--	--	--	--	1.2
Other Facility Support	--	18	*	*	8	*	*	--	3.8
Onsite Transportation	--	2	--	16	1	7	--	--	3.5
Conventional Electricity Generation	--	--	0	1	35	*	5	--	1.3
Other Nonprocess Use	--	1	*	*	3	*	0	--	8.1
End Use Not Reported	3,540	38	10	7	38	3	Q	3,443	9.2
West Census Region									
RSE Column Factors:	1.4	0.5	3.4	1.9	1.6	0.4	0	0	
TOTAL FUEL CONSUMPTION	1,945	347	12	28	676	16	105	762	3.7
Indirect Uses-Boiler Fuel	--	*	8	2	250	4	33	--	3.5
Conventional Boiler Use	--	1	6	2	171	4	8	--	3.4
CHP and/or Cogeneration Process	--	*	2	*	80	*	25	--	1.1
Direct Uses-Total Process	--	261	4	11	348	8	69	--	3.7
Process Heating	--	31	4	2	334	6	69	--	3.6
Process Cooling and Refrigeration	--	23	0	Q	1	*	0	--	4
Machine Drive	--	174	0	7	9	Q	0	--	5
Electro-Chemical Processes	--	31	--	--	--	--	--	--	1.1
Other Process Use	--	2	0	*	4	*	0	--	6
Direct Uses-Total Nonprocess	--	68	*	13	57	3	*	--	3.7
Facility HVAC (f)	--	35	0	*	42	*	*	--	5.5
Facility Lighting	--	24	--	--	--	--	--	--	1.2
Other Facility Support	--	8	*	*	3	*	0	--	4.1
Onsite Transportation	--	*	--	7	*	3	--	--	5.1
Conventional Electricity Generation	--	--	0	Q	11	*	*	--	1.5
Other Nonprocess Use	--	*	0	*	1	*	0	--	6.8
End Use Not Reported	806	17	1	2	20	1	3	762	9.9

(a) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has

Table 5.6 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

End Use	Total	Net Electricity(a)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(b)	Natural Gas(c)	LPG and NGL(d)	Coal (excluding Coal Coke and Breeze)	Other(e)	RSE Row Factors

already been included as generating fuel (for example, coal).

(b) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(c) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(e) 'Other' includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power.

(f) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes steam and hot water.

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.

-- Estimation is not applicable.

S=Negative value.

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. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.
Allocations to specific end uses are made on the basis of reasonable approximations by respondents.

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

Table 5.7 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

End Use	Net Demand for Electricity(a) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
Total United States							
RSE Column Factors:	0.3	2.4	1.1	1.4	1	0	
TOTAL FUEL CONSUMPTION	966,231	33	24	5,641	26	53	3.4
Indirect Uses-Boiler Fuel	6,714	20	6	2,105	2	35	5.3
Conventional Boiler Use	3,199	12	4	1,271	2	11	5.6
CHP and/or Cogeneration Process	3,515	8	2	834	*	23	3.8
Direct Uses-Total Process	768,929	10	7	2,907	16	17	2.9
Process Heating	103,992	9	4	2,670	15	17	3.3
Process Cooling and Refrigeration	62,460	*	*	44	*	*	3.8
Machine Drive	511,864	*	3	106	1	*	4.8
Electro-Chemical Processes	86,360	--	--	--	--	--	1
Other Process Use	4,253	*	*	87	*	*	5.3
Direct Uses-Total Nonprocess	161,383	1	9	500	6	1	4.6
Facility HVAC (e)	81,980	1	1	406	1	*	6.6
Facility Lighting	62,019	--	--	--	--	--	1.1
Other Facility Support	14,872	*	*	29	*	*	9.7
Onsite Transportation	1,277	--	6	2	5	--	3.1
Conventional Electricity Generation	--	*	Q	54	*	1	1.7
Other Nonprocess Use	1,235	*	Q	10	*	0	8.8
End Use Not Reported	29,205	3	2	129	2	*	8.3
Northeast Census Region							
RSE Column Factors:	0.2	2.7	1.2	1.8	0.6	0	
TOTAL FUEL CONSUMPTION	110,652	11	5	523	2	4	4.4
Indirect Uses-Boiler Fuel	534	7	2	183	*	2	5.6
Conventional Boiler Use	188	5	1	114	*	*	8.7
CHP and/or Cogeneration Process	346	2	*	70	0	1	2.6
Direct Uses-Total Process	80,787	2	2	236	1	2	6
Process Heating	12,745	2	2	220	1	2	7.1

Table 5.7 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

End Use	Net Demand for Electricity(a) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
Process Cooling and Refrigeration	7,516	*	*	5	*	0	4.3
Machine Drive	53,477	*	*	7	*	0	8.8
Electro-Chemical Processes	6,295	--	--	--	--	--	1
Other Process Use	Q	*	*	4	*	0	9.1
Direct Uses-Total Nonprocess	24,491	*	1	79	1	*	4.7
Facility HVAC (e)	12,126	*	1	66	*	*	6.4
Facility Lighting	9,668	--	--	--	--	--	1.3
Other Facility Support	2,239	*	*	9	*	0	12.2
Onsite Transportation	150	--	*	*	1	--	3.5
Conventional Electricity Generation	--	*	*	2	*	*	2.1
Other Nonprocess Use	307	0	*	1	*	0	10.9
End Use Not Reported	4,840	1	1	26	*	*	7.6
Midwest Census Region							
RSE Column Factors:	0.2	2.3	1.3	1.8	0.8	0	
TOTAL FUEL CONSUMPTION	267,535	3	5	1,455	5	20	5.8
Indirect Uses-Boiler Fuel	1,903	3	1	405	*	14	8.1
Conventional Boiler Use	958	1	1	348	*	6	10.7
CHP and/or Cogeneration Process	945	1	*	57	*	8	4.9
Direct Uses-Total Process	210,960	1	2	792	2	5	5.2
Process Heating	35,871	1	1	750	2	5	5.9
Process Cooling and Refrigeration	16,191	0	*	3	*	0	5.3
Machine Drive	139,193	0	*	20	*	*	8.1
Electro-Chemical Processes	18,371	--	--	--	--	--	1
Other Process Use	1,334	*	*	19	*	*	5.1
Direct Uses-Total Nonprocess	47,235	*	2	213	2	*	7.6
Facility HVAC (e)	22,201	*	*	193	*	*	5.9
Facility Lighting	19,713	--	--	--	--	--	1.2
Other Facility Support	4,338	*	*	8	*	*	4.6
Onsite Transportation	517	--	2	*	2	--	5
Conventional Electricity Generation	--	*	*	6	*	*	4.4

Table 5.7 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

End Use	Net Demand for Electricity(a) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
Other Nonprocess Use	466	*	Q	5	*	0	12.4
End Use Not Reported	7,436	*	*	46	Q	*	13.8
South Census Region							
RSE Column Factors:	0.3	3.2	1.2	1.5	1.1	0	
TOTAL FUEL CONSUMPTION	473,138	17	9	3,005	15	24	4.5
Indirect Uses-Boiler Fuel	3,993	9	3	1,273	1	17	6.9
Conventional Boiler Use	1,822	5	2	643	1	4	6.8
CHP and/or Cogeneration Process	2,170	4	1	630	*	13	2.4
Direct Uses-Total Process	389,107	6	2	1,542	11	6	3.5
Process Heating	46,030	6	1	1,375	10	6	3.8
Process Cooling and Refrigeration	31,316	*	*	35	*	*	3.4
Machine Drive	257,968	*	1	71	*	*	3.9
Electro-Chemical Processes	52,240	--	--	--	--	--	1
Other Process Use	1,552	*	*	60	*	*	4.2
Direct Uses-Total Nonprocess	68,696	*	3	153	2	*	4.7
Facility HVAC (e)	36,880	*	*	106	*	*	8.1
Facility Lighting	25,101	--	--	--	--	--	1.2
Other Facility Support	5,814	*	*	8	*	*	3.8
Onsite Transportation	525	--	3	1	2	--	3.5
Conventional Electricity Generation	--	0	*	34	*	*	1.3
Other Nonprocess Use	374	*	*	3	*	0	8.1
End Use Not Reported	11,343	2	1	37	1	*	10.3
West Census Region							
RSE Column Factors:	0.3	3.4	1.9	1.6	0.4	0	
TOTAL FUEL CONSUMPTION	114,906	2	5	658	4	5	3.7
Indirect Uses-Boiler Fuel	284	1	*	244	1	2	3.5
Conventional Boiler Use	231	1	*	166	1	*	3.5

Table 5.7 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

End Use	Net Demand for Electricity(a) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors
CHP and/or Cogeneration Process	53	*	*	78	*	1	1.1
Direct Uses-Total Process	88,075	1	2	338	2	3	3.8
Process Heating	9,344	1	*	325	2	3	3.7
Process Cooling and Refrigeration	7,437	0	*	1	*	0	4
Machine Drive	61,226	0	1	9	*	0	5
Electro-Chemical Processes	9,454	--	--	--	--	--	1.1
Other Process Use	613	0	*	4	*	0	6
Direct Uses-Total Nonprocess	20,961	*	2	56	1	*	3.7
Facility HVAC (e)	10,772	0	*	41	*	*	5.5
Facility Lighting	7,536	--	--	--	--	--	1.2
Other Facility Support	2,480	*	*	3	*	0	4.1
Onsite Transportation	85	--	1	*	1	--	5.1
Conventional Electricity Generation	--	0	Q	10	*	*	1.5
Other Nonprocess Use	87	0	*	1	*	0	6.8
End Use Not Reported	5,586	*	*	20	*	*	9.8

(a) 'Net Demand for Electricity' is the sum of purchases, transfers in, and total onsite electricity generation, minus sales and transfers offsite. It is the total amount of electricity used by establishments. 'Net Demand for Electricity' is not directly comparable with 'Net Electricity,' which specifically excludes electricity generated onsite by combustible energy sources.

(b) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(c) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(e) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes steam and hot water.

Table 5.7 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

End Use	Net Demand for Electricity(a) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	RSE Row Factors

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.
-- Estimation is not applicable.
S=Negative value.

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. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.
Allocations to specific end uses are made on the basis of reasonable approximations by respondents.

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

Table 5.8 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

End Use	Net Demand for Electricity(a)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(b)	Natural Gas(c)	LPG and NGL(d)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
Total United States							
RSE Column Factors:	0.3	2.4	1.1	1.3	1	0	
TOTAL FUEL CONSUMPTION	3,297	208	141	5,794	103	1,182	3.3
Indirect Uses-Boiler Fuel	23	127	35	2,162	8	776	5.5
Conventional Boiler Use	11	76	25	1,306	8	255	5.6
CHP and/or Cogeneration Process	12	51	10	857	*	521	3.7
Direct Uses-Total Process	2,624	60	43	2,986	64	381	2.9
Process Heating	355	58	24	2,742	60	368	3.2
Process Cooling and Refrigeration	213	*	2	45	*	*	3.7
Machine Drive	1,746	2	16	109	4	5	4.8
Electro-Chemical Processes	295	--	--	--	--	--	1
Other Process Use	15	*	1	90	*	7	5.3
Direct Uses-Total Nonprocess	551	4	50	513	24	19	4.6
Facility HVAC (e)	280	3	5	417	5	5	6.6
Facility Lighting	212	--	--	--	--	--	1.1
Other Facility Support	51	*	1	30	*	*	9.7
Onsite Transportation	4	--	35	2	18	--	3.1
Conventional Electricity Generation	--	1	Q	55	*	14	1.7
Other Nonprocess Use	4	*	Q	10	*	0	8.8
End Use Not Reported	112	17	12	132	6	6	8.7
Northeast Census Region							
RSE Column Factors:	0.2	2.7	1.2	1.8	0.6	0	
TOTAL FUEL CONSUMPTION	378	68	30	538	9	92	4.4
Indirect Uses-Boiler Fuel	2	44	9	188	*	37	5.8
Conventional Boiler Use	1	30	7	117	*	10	8.8
CHP and/or Cogeneration Process	1	15	2	71	0	27	2.6
Direct Uses-Total Process	276	14	11	242	4	47	6
Process Heating	43	14	9	226	4	47	7
Process Cooling and Refrigeration	26	*	*	5	*	0	4.3

Table 5.8 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

End Use	Net Demand for Electricity(a)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(b)	Natural Gas(c)	LPG and NGL(d)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
Machine Drive	182	*	2	7	1	0	8.8
Electro-Chemical Processes	21	--	--	--	--	--	1
Other Process Use	Q	*	*	4	*	0	9.1
Direct Uses-Total Nonprocess	84	3	7	81	4	8	4.7
Facility HVAC (e)	41	2	3	68	1	*	6.4
Facility Lighting	33	--	--	--	--	--	1.3
Other Facility Support	8	*	*	9	*	0	12.3
Onsite Transportation	1	--	2	*	2	--	3.5
Conventional Electricity Generation	--	*	1	3	*	8	2.1
Other Nonprocess Use	1	0	*	1	*	0	10.9
End Use Not Reported	18	6	3	27	1	*	7.6
Midwest Census Region							
RSE Column Factors:	0.2	2.3	1.3	1.8	0.8	0	
TOTAL FUEL CONSUMPTION	913	22	29	1,494	20	445	5.8
Indirect Uses-Boiler Fuel	6	16	3	416	2	319	8.2
Conventional Boiler Use	3	8	3	358	2	139	10.7
CHP and/or Cogeneration Process	3	8	*	58	*	180	4.9
Direct Uses-Total Process	720	5	12	813	8	121	5.2
Process Heating	122	5	8	770	7	114	5.9
Process Cooling and Refrigeration	55	0	*	3	*	0	5.3
Machine Drive	475	0	3	20	1	1	8.1
Electro-Chemical Processes	63	--	--	--	--	--	1
Other Process Use	5	*	1	19	*	7	5.1
Direct Uses-Total Nonprocess	161	*	13	218	8	2	7.5
Facility HVAC (e)	76	*	*	198	2	1	5.9
Facility Lighting	67	--	--	--	--	--	1.2
Other Facility Support	15	*	*	9	*	*	4.6
Onsite Transportation	2	--	9	*	6	--	5
Conventional Electricity Generation	--	*	*	6	*	1	4.4
Other Nonprocess Use	2	*	Q	5	*	0	12.4
End Use Not Reported	29	1	1	47	Q	2	13.8

Table 5.8 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

End Use	Net Demand for Electricity(a)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(b)	Natural Gas(c)	LPG and NGL(d)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
South Census Region							
RSE Column Factors:	0.3	3.3	1.2	1.5	1	0	
TOTAL FUEL CONSUMPTION	1,614	107	54	3,086	58	540	4.3
Indirect Uses-Boiler Fuel	14	59	21	1,308	3	386	7.4
Conventional Boiler Use	6	33	13	660	3	97	6.8
CHP and/or Cogeneration Process	7	26	8	647	*	289	2.4
Direct Uses-Total Process	1,328	37	9	1,583	44	144	3.5
Process Heating	157	35	5	1,412	43	139	3.8
Process Cooling and Refrigeration	107	*	*	36	*	*	3.4
Machine Drive	880	2	4	73	1	4	3.9
Electro-Chemical Processes	178	--	--	--	--	--	1
Other Process Use	5	*	*	62	*	1	4.2
Direct Uses-Total Nonprocess	234	Q	18	157	9	9	4.8
Facility HVAC (e)	126	Q	1	108	2	4	8
Facility Lighting	86	--	--	--	--	--	1.2
Other Facility Support	20	*	*	8	*	*	3.8
Onsite Transportation	2	--	16	1	7	--	3.5
Conventional Electricity Generation	--	0	1	35	*	5	1.3
Other Nonprocess Use	1	*	*	3	*	0	8.1
End Use Not Reported	46	10	7	38	3	Q	9.2
West Census Region							
RSE Column Factors:	0.3	3.4	1.9	1.6	0.4	0	
TOTAL FUEL CONSUMPTION	392	12	28	676	16	105	3.7
Indirect Uses-Boiler Fuel	1	8	2	250	4	33	3.5
Conventional Boiler Use	1	6	2	171	4	8	3.4
CHP and/or Cogeneration Process	*	2	*	80	*	25	1.1
Direct Uses-Total Process	301	4	11	348	8	69	3.7
Process Heating	32	4	2	334	6	69	3.6

Table 5.8 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

End Use	Net Demand for Electricity(a)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(b)	Natural Gas(c)	LPG and NGL(d)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
Process Cooling and Refrigeration	25	0	Q	1	*	0	4
Machine Drive	209	0	7	9	Q	0	5
Electro-Chemical Processes	32	--	--	--	--	--	1.1
Other Process Use	2	0	*	4	*	0	6
Direct Uses-Total Nonprocess	72	*	13	57	3	*	3.7
Facility HVAC (e)	37	0	*	42	*	*	5.5
Facility Lighting	26	--	--	--	--	--	1.2
Other Facility Support	8	*	*	3	*	0	4.1
Onsite Transportation	*	--	7	*	3	--	5.1
Conventional Electricity Generation	--	0	Q	11	*	*	1.5
Other Nonprocess Use	*	0	*	1	*	0	6.8
End Use Not Reported	19	1	2	20	1	3	9.9

(a) 'Net Demand for Electricity' is the sum of purchases, transfers in, and total onsite electricity generation, minus sales and transfers offsite. It is the total amount of electricity used by establishments. 'Net Demand for Electricity' is not directly comparable with 'Net Electricity,' which specifically excludes electricity generated onsite by combustible energy sources.

(b) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(c) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

(e) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes steam and hot water.

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.

Table 5.8 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

End Use	Net Demand for Electricity(a)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(b)	Natural Gas(c)	LPG and NGL(d)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors

NA=Not available.
-- Estimation is not applicable.
S=Negative value.
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. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.
Allocations to specific end uses are made on the basis of reasonable approximations by respondents.
Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'

Table 6.1 Consumption Ratios of Fuel, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Subsector and Industry	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Total United States				
	RSE Column Factors:	1.1	0.9	1	
311	Food	867.8	6.0	2.6	5.9
311221	Wet Corn Milling	24,113.7	65.7	26.2	1.8
31131	Sugar	8,414.5	54.2	17.9	1
311421	Fruit and Vegetable Canning	824.1	5.4	2.5	10.6
312	Beverage and Tobacco Products	670.4	1.6	1.0	2.7
3121	Beverages	658.6	2.8	1.3	3.9
3122	Tobacco	729.4	0.6	0.5	1
313	Textile Mills	798.7	11.2	4.3	8
314	Textile Product Mills	345.3	4.7	1.6	10.3
315	Apparel	101.7	1.8	0.9	9.3
316	Leather and Allied Products	152.1	2.4	1.1	11.7
321	Wood Products	741.7	10.6	4.2	4.9
321113	Sawmills	1,383.0	20.3	6.5	3.6
3212	Veneer, Plywood, and Engineered Woods	1,574.9	19.1	7.2	12.8
3219	Other Wood Products	245.5	3.7	1.7	6.3
322	Paper	5,038.0	31.1	15.2	3.3
322110	Pulp Mills	24,711.6	116.6	56.0	1
322121	Paper Mills, except Newsprint	10,401.1	40.4	22.5	1.6
322122	Newsprint Mills	13,933.8	62.1	29.1	1
322130	Paperboard Mills	18,603.0	82.1	42.1	3.9
323	Printing and Related Support	152.6	1.8	1.1	5.6
324	Petroleum and Coal Products	31,369.9	91.3	15.0	3.3
324110	Petroleum Refineries	50,515.2	116.3	16.1	2.6
324199	Other Petroleum and Coal Products	10,950.9	59.8	17.5	3.1
325	Chemicals	4,824.6	15.3	8.5	3.3
325110	Petrochemicals	50,352.3	77.4	23.2	1
325120	Industrial Gases	21,565.2	44.1	28.4	11.6
325181	Alkalies and Chlorine	29,066.6	143.3	63.2	2.3
325182	Carbon Black	22,898.4	77.3	42.0	1
325188	Other Basic Inorganic Chemicals	4,156.1	21.4	11.7	4.9
325192	Cyclic Crudes and Intermediates	11,541.3	36.8	12.6	1
325193	Ethyl Alcohol	26,688.9	65.4	24.4	8.4
325199	Other Basic Organic Chemicals	13,358.7	66.8	22.8	11.4
325211	Plastics Materials and Resins	8,899.1	41.4	14.5	7.9
325212	Synthetic Rubber	4,584.0	16.7	8.0	21.3
325222	Noncellulosic Organic Fibers	3,026.0	19.1	8.4	1.3
325311	Nitrogenous Fertilizers	46,585.3	202.5	58.7	1
325312	Phosphatic Fertilizers	4,095.1	19.5	6.6	1
3254	Pharmaceuticals and Medicines	525.5	1.2	0.8	3.9
325412	Pharmaceutical Preparation	514.0	1.0	0.7	4.6
325992	Photographic Film, Paper, Plate, and Chemicals	804.1	2.7	2.2	13.1
326	Plastics and Rubber Products	375.5	3.9	2.1	4.6
327	Nonmetallic Mineral Products	2,434.9	20.7	11.7	5
3272	Glass and Glass Products	2,002.5	16.7	9.9	3.9
327211	Flat Glass	6,783.2	36.9	22.5	1
327213	Glass Containers	4,239.0	24.3	15.1	1
327310	Cements	24,086.5	95.5	56.0	3.2
327410	Lime	25,007.2	189.6	101.9	1
327993	Mineral Wool	2,400.9	18.0	10.8	9
331	Primary Metals	4,170.7	34.6	14.2	2
331111	Iron and Steel Mills	11,293.6	66.5	27.8	3.6
331112	Electrometallurgical Ferroalloy Products	5,583.6	46.1	14.3	2.1
3312	Steel Products from Purchased Steel	871.3	7.4	2.6	4.9

Table 6.1 Consumption Ratios of Fuel, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Subsector and Industry	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
3313	Alumina and Aluminum	4,496.8	34.3	12.2	5.1
331312	Primary Aluminum	16,159.7	112.3	38.5	2.3
3314	Nonferrous Metals, except Aluminum	1,373.1	12.0	4.1	6.3
3315	Foundries	866.3	10.3	5.6	2.6
331511	Iron Foundries	1,224.5	15.0	7.7	3.6
331521	Aluminum Die-Casting Foundries	814.2	9.5	4.7	7
331524	Aluminum Foundries, except Die-Casting	642.8	7.6	4.5	5.2
332	Fabricated Metal Products	258.4	3.0	1.7	6
333	Machinery	157.5	1.4	0.7	6.3
334	Computer and Electronic Products	141.1	0.9	0.5	7.3
334413	Semiconductors and Related Devices	387.7	1.3	1.0	4.1
335	Electrical Equip., Appliances, and Components	211.2	1.9	1.0	5.3
336	Transportation Equipment	278.6	1.8	0.7	3.9
336112	Light Trucks and Utility Vehicles	618.0	1.5	0.4	1
337	Furniture and Related Products	113.7	1.6	0.9	6
339	Miscellaneous	101.5	0.9	0.6	6
	Total	1,172.2	8.9	4.2	2
	Northeast Census Region				
	RSE Column Factors:	1.1	1	0.9	
311	Food	497.0	3.0	1.6	11.3
311221	Wet Corn Milling	1,829.8	18.1	6.8	1
31131	Sugar	6,383.9	23.2	4.7	1
311421	Fruit and Vegetable Canning	720.7	3.9	2.0	13.4
312	Beverage and Tobacco Products	587.1	2.9	1.4	9.4
3121	Beverages	586.9	3.0	1.3	10.1
3122	Tobacco	591.5	1.8	1.5	1
313	Textile Mills	489.1	6.1	3.1	14
314	Textile Product Mills	175.2	2.8	1.1	15
315	Apparel	72.3	1.4	0.6	22
316	Leather and Allied Products	233.9	2.1	1.2	13
321	Wood Products	354.1	5.4	2.5	11.6
321113	Sawmills	670.2	10.9	4.1	8.3
3212	Veneer, Plywood, and Engineered Woods	775.3	12.0	5.9	27.2
3219	Other Wood Products	221.6	3.4	1.7	15.6
322	Paper	3,001.3	19.9	9.3	10.6
322110	Pulp Mills	2,990.2	23.7	7.5	38
322121	Paper Mills, except Newsprint	8,502.4	35.3	16.4	2.3
322122	Newsprint Mills	7,933.3	28.7	15.1	1
322130	Paperboard Mills	8,358.9	51.6	25.2	4.6
323	Printing and Related Support	152.8	1.7	1.1	11.7
324	Petroleum and Coal Products	15,783.3	53.0	10.0	4.1
324110	Petroleum Refineries	34,946.2	74.9	11.2	1.4
324199	Other Petroleum and Coal Products	4,226.8	41.6	7.9	1
325	Chemicals	840.4	2.2	1.6	5.2
325110	Petrochemicals	977.5	5.5	2.0	5.8
325120	Industrial Gases	4,552.7	16.3	11.7	1.6
325181	Alkalies and Chlorine	12,131.8	56.2	33.4	13.4
325182	Carbon Black	0.0	0.0	0.0	0
325188	Other Basic Inorganic Chemicals	2,127.1	11.8	5.2	5.5
325192	Cyclic Crudes and Intermediates	4,378.2	8.9	4.1	1
325193	Ethyl Alcohol	2,378.4	7.3	1.6	1
325199	Other Basic Organic Chemicals	2,151.7	9.0	4.4	6.9
325211	Plastics Materials and Resins	1,312.8	10.0	3.6	29
325212	Synthetic Rubber	1,179.3	3.9	1.9	1

Table 6.1 Consumption Ratios of Fuel, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Subsector and Industry	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
325222	Noncellulosic Organic Fibers	Q	Q	Q	0
325311	Nitrogenous Fertilizers	8,984.2	54.9	20.7	1
325312	Phosphatic Fertilizers	0.0	0.0	0.0	0
3254	Pharmaceuticals and Medicines	486.2	0.9	0.7	7
325412	Pharmaceutical Preparation	428.0	0.7	0.5	7.6
325992	Photographic Film, Paper, Plate, and Chemicals	1,076.5	3.0	3.0	4.6
326	Plastics and Rubber Products	286.2	3.3	1.7	10.3
327	Nonmetallic Mineral Products	1,942.0	16.3	9.1	11.9
3272	Glass and Glass Products	1,839.3	16.5	10.7	8.5
327211	Flat Glass	7,171.3	41.0	24.1	1
327213	Glass Containers	3,306.7	20.4	13.0	1
327310	Cements	23,317.4	104.8	62.2	1
327410	Lime	12,774.6	147.8	67.9	1
327993	Mineral Wool	1,301.5	10.4	6.8	11.9
331	Primary Metals	2,743.8	23.2	9.8	4.8
331111	Iron and Steel Mills	5,935.3	37.2	17.1	8.8
331112	Electrometallurgical Ferroalloy Products	6,701.3	43.5	22.0	1
3312	Steel Products from Purchased Steel	636.7	4.9	1.9	6.6
3313	Alumina and Aluminum	2,853.1	26.0	8.3	16
331312	Primary Aluminum	24,353.8	78.8	31.1	1
3314	Nonferrous Metals, except Aluminum	1,232.1	11.2	4.3	7.7
3315	Foundries	1,007.7	13.9	8.1	3.3
331511	Iron Foundries	2,049.1	23.6	13.6	2.9
331521	Aluminum Die-Casting Foundries	398.6	5.6	3.7	4.8
331524	Aluminum Foundries, except Die-Casting	768.5	10.2	6.3	2.6
332	Fabricated Metal Products	180.1	1.7	1.1	14.2
333	Machinery	143.4	1.3	0.7	10.7
334	Computer and Electronic Products	213.8	1.6	0.9	8.6
334413	Semiconductors and Related Devices	432.0	2.3	1.5	1.4
335	Electrical Equip., Appliances, and Components	229.1	2.1	1.2	10
336	Transportation Equipment	301.5	2.3	1.1	6.9
336112	Light Trucks and Utility Vehicles	653.5	2.3	0.7	1
337	Furniture and Related Products	108.7	1.5	0.8	12
339	Miscellaneous	107.1	1.0	0.6	10.7
	Total	613.0	4.5	2.5	3
	Midwest Census Region				
	RSE Column Factors:	1.1	1	0.9	
311	Food	1,368.3	8.9	3.2	8
311221	Wet Corn Milling	25,884.2	68.6	27.2	1
31131	Sugar	10,868.3	51.1	21.0	1
311421	Fruit and Vegetable Canning	531.5	2.9	1.5	5.2
312	Beverage and Tobacco Products	884.6	3.7	1.7	6.1
3121	Beverages	894.6	4.2	1.8	6.7
3122	Tobacco	310.9	0.2	0.2	1
313	Textile Mills	347.8	4.0	2.1	13.2
314	Textile Product Mills	109.6	2.1	0.9	15.3
315	Apparel	60.4	1.0	0.6	15.9
316	Leather and Allied Products	293.1	4.7	1.7	12.4
321	Wood Products	369.4	5.0	2.4	7
321113	Sawmills	502.0	7.3	2.9	10.6
3212	Veneer, Plywood, and Engineered Woods	993.2	14.1	6.4	14.9
3219	Other Wood Products	189.7	2.5	1.3	9
322	Paper	2,392.3	15.0	7.4	5.3
322110	Pulp Mills	34,283.2	179.1	71.4	1

Table 6.1 Consumption Ratios of Fuel, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Subsector and Industry	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
322121	Paper Mills, except Newsprint	6,551.1	27.1	15.9	2.6
322122	Newsprint Mills	9,345.2	44.8	21.1	1
322130	Paperboard Mills	9,538.2	48.4	27.9	6.6
323	Printing and Related Support	149.0	1.7	1.1	9.3
324	Petroleum and Coal Products	21,394.9	84.9	13.5	5.5
324110	Petroleum Refineries	49,945.5	127.4	14.9	2.6
324199	Other Petroleum and Coal Products	9,346.9	148.3	30.2	1
325	Chemicals	2,609.6	7.8	4.8	6.5
325110	Petrochemicals	11,100.4	-84.1	36.7	1
325120	Industrial Gases	41,922.9	64.0	48.6	12
325181	Alkalies and Chlorine	9,651.6	40.5	15.3	11.1
325182	Carbon Black	7,326.5	38.3	18.2	1
325188	Other Basic Inorganic Chemicals	6,475.1	27.8	16.6	6
325192	Cyclic Crudes and Intermediates	23,326.8	129.6	21.8	1
325193	Ethyl Alcohol	31,894.1	66.1	26.3	9.8
325199	Other Basic Organic Chemicals	4,906.1	32.1	12.4	10.4
325211	Plastics Materials and Resins	2,951.8	15.9	7.4	16.6
325212	Synthetic Rubber	3,213.6	14.1	6.5	7.7
325222	Noncellulosic Organic Fibers	0.0	0.0	0.0	0
325311	Nitrogenous Fertilizers	32,234.4	105.5	34.2	1
325312	Phosphatic Fertilizers	0.0	0.0	0.0	0
3254	Pharmaceuticals and Medicines	847.5	2.0	1.4	4.8
325412	Pharmaceutical Preparation	829.3	1.8	1.3	5
325992	Photographic Film, Paper, Plate, and Chemicals	369.1	1.8	1.0	8.1
326	Plastics and Rubber Products	388.2	4.0	2.2	7
327	Nonmetallic Mineral Products	2,362.4	20.4	11.9	8
3272	Glass and Glass Products	1,847.0	14.9	8.7	5.3
327211	Flat Glass	7,927.8	44.9	29.5	1
327213	Glass Containers	4,574.3	24.9	15.9	1
327310	Cements	24,602.2	92.5	59.6	4
327410	Lime	30,884.9	311.6	135.8	1
327993	Mineral Wool	2,989.0	18.2	11.4	8.5
331	Primary Metals	5,072.5	43.4	18.6	2.3
331111	Iron and Steel Mills	14,909.3	88.3	37.0	4.8
331112	Electrometallurgical Ferroalloy Products	5,245.8	42.6	13.1	1
3312	Steel Products from Purchased Steel	1,010.2	8.8	3.2	8.1
3313	Alumina and Aluminum	4,730.7	33.7	11.2	4.3
331312	Primary Aluminum	15,640.5	133.6	41.7	1
3314	Nonferrous Metals, except Aluminum	1,386.4	13.9	5.1	7.2
3315	Foundries	858.6	10.0	5.5	3.3
331511	Iron Foundries	1,143.2	14.4	7.6	3.6
331521	Aluminum Die-Casting Foundries	899.7	9.8	4.8	8.6
331524	Aluminum Foundries, except Die-Casting	663.2	7.4	4.3	8.5
332	Fabricated Metal Products	380.4	4.5	2.5	10
333	Machinery	192.9	1.6	0.8	10.7
334	Computer and Electronic Products	152.1	1.1	0.6	12.5
334413	Semiconductors and Related Devices	578.4	6.2	3.4	19.3
335	Electrical Equip., Appliances, and Components	197.4	1.6	0.8	8.3
336	Transportation Equipment	388.7	2.1	0.8	4.9
336112	Light Trucks and Utility Vehicles	614.2	1.5	0.4	1
337	Furniture and Related Products	178.4	1.9	1.1	8.7
339	Miscellaneous	107.9	1.0	0.6	12.7
	Total	1,007.4	7.5	3.4	2.6
	South Census Region				
	RSE Column Factors:	1.1	0.9	1	

Table 6.1 Consumption Ratios of Fuel, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Subsector and Industry	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
311	Food	659.1	4.6	2.2	11.5
311221	Wet Corn Milling	23,186.1	60.1	21.8	1
31131	Sugar	9,481.7	77.9	19.5	1
311421	Fruit and Vegetable Canning	1,378.2	7.8	3.4	13.7
312	Beverage and Tobacco Products	724.2	1.0	0.7	3.3
3121	Beverages	710.5	2.5	1.3	7.2
3122	Tobacco	746.0	0.5	0.5	1
313	Textile Mills	893.6	13.3	4.7	10
314	Textile Product Mills	479.5	6.2	1.9	14.2
315	Apparel	149.4	2.8	1.4	15.3
316	Leather and Allied Products	70.4	1.5	0.7	18
321	Wood Products	1,041.8	14.8	5.4	9.4
321113	Sawmills	1,601.8	25.3	8.0	5.9
3212	Veneer, Plywood, and Engineered Woods	2,039.2	20.6	7.4	20.5
3219	Other Wood Products	357.8	5.9	2.5	11.6
322	Paper	8,352.5	46.9	24.0	4.3
322110	Pulp Mills	25,125.2	115.2	56.4	1
322121	Paper Mills, except Newsprint	15,854.0	56.9	34.6	2.5
322122	Newsprint Mills	14,279.8	62.7	33.3	1
322130	Paperboard Mills	21,190.7	83.7	44.2	4.7
323	Printing and Related Support	165.6	2.0	1.3	10
324	Petroleum and Coal Products	38,178.5	106.9	15.6	4.5
324110	Petroleum Refineries	55,186.9	134.1	16.6	3.3
324199	Other Petroleum and Coal Products	13,038.5	61.5	18.1	4.3
325	Chemicals	9,754.0	33.3	14.7	5.9
325110	Petrochemicals	53,163.0	77.1	23.3	1
325120	Industrial Gases	24,615.2	48.1	26.6	23.4
325181	Alkalies and Chlorine	32,404.6	173.8	72.2	1
325182	Carbon Black	25,034.7	80.4	44.2	1
325188	Other Basic Inorganic Chemicals	3,248.6	18.3	10.0	5.8
325192	Cyclic Crudes and Intermediates	12,922.1	47.5	15.1	1
325193	Ethyl Alcohol	1,880.6	10.0	2.5	1
325199	Other Basic Organic Chemicals	17,240.1	84.3	26.5	14.3
325211	Plastics Materials and Resins	15,800.3	60.2	18.6	7.3
325212	Synthetic Rubber	5,646.8	18.7	8.9	26.5
325222	Noncellulosic Organic Fibers	3,178.0	19.5	8.5	1
325311	Nitrogenous Fertilizers	55,477.7	227.0	67.6	1
325312	Phosphatic Fertilizers	3,691.2	17.2	5.4	1
3254	Pharmaceuticals and Medicines	548.7	1.2	0.8	5.4
325412	Pharmaceutical Preparation	517.2	1.0	0.6	5.9
325992	Photographic Film, Paper, Plate, and Chemicals	Q	Q	1.3	37.9
326	Plastics and Rubber Products	458.9	4.5	2.3	7.2
327	Nonmetallic Mineral Products	2,744.7	22.7	13.3	9
3272	Glass and Glass Products	2,310.0	18.4	10.8	7.1
327211	Flat Glass	6,326.5	31.5	19.0	1
327213	Glass Containers	5,171.6	28.0	17.2	1
327310	Cements	25,444.6	97.2	59.8	3
327410	Lime	22,910.3	145.5	91.9	1
327993	Mineral Wool	2,597.3	22.2	12.4	20.8
331	Primary Metals	4,442.3	33.6	13.1	3.6
331111	Iron and Steel Mills	9,823.4	54.3	22.7	4.4
331112	Electrometallurgical Ferroalloy Products	11,879.6	131.4	31.5	25.6
3312	Steel Products from Purchased Steel	880.4	8.4	2.7	9.4
3313	Alumina and Aluminum	5,324.8	36.4	14.1	8.6
331312	Primary Aluminum	17,228.3	121.6	43.1	1
3314	Nonferrous Metals, except Aluminum	1,430.6	12.3	3.4	15.5

Table 6.1 Consumption Ratios of Fuel, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Subsector and Industry	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
3315	Foundries	1,065.6	12.2	6.1	3.2
331511	Iron Foundries	1,148.5	13.3	6.2	3.9
331521	Aluminum Die-Casting Foundries	882.0	10.5	5.4	4.5
331524	Aluminum Foundries, except Die-Casting	724.3	9.1	5.2	3.9
332	Fabricated Metal Products	253.4	3.3	1.6	10.9
333	Machinery	137.5	1.3	0.6	11
334	Computer and Electronic Products	114.8	0.9	0.4	10.7
334413	Semiconductors and Related Devices	462.7	2.6	1.8	7.5
335	Electrical Equip., Appliances, and Components	216.2	2.1	1.0	9.6
336	Transportation Equipment	237.1	1.6	0.6	5.6
336112	Light Trucks and Utility Vehicles	623.5	1.5	0.5	1
337	Furniture and Related Products	107.0	1.8	1.0	11.7
339	Miscellaneous	130.5	1.2	0.7	11.7
	Total	1,879.6	14.3	6.3	2.6
	West Census Region				
	RSE Column Factors:	1.1	0.9	1	
311	Food	754.3	6.3	2.6	10
311221	Wet Corn Milling	7,758.4	29.3	18.2	25.6
31131	Sugar	5,437.1	35.3	16.8	1
311421	Fruit and Vegetable Canning	776.6	6.4	2.9	23.6
312	Beverage and Tobacco Products	516.4	2.1	1.1	6.9
3121	Beverages	517.6	2.1	1.1	6.9
3122	Tobacco	11.4	0.3	0.2	1
313	Textile Mills	843.9	9.6	4.8	28.7
314	Textile Product Mills	96.1	1.2	0.7	19.6
315	Apparel	86.7	1.5	0.7	14.3
316	Leather and Allied Products	Q	0.3	0.2	36.3
321	Wood Products	831.2	12.2	4.3	5.9
321113	Sawmills	1,638.8	21.0	6.2	6.6
3212	Veneer, Plywood, and Engineered Woods	1,436.7	21.8	7.3	9.9
3219	Other Wood Products	143.2	2.3	1.0	12
322	Paper	4,987.7	35.9	15.7	7.2
322110	Pulp Mills	17,826.3	100.1	47.5	1
322121	Paper Mills, except Newsprint	11,685.0	39.4	24.0	7
322122	Newsprint Mills	17,185.3	86.8	31.2	1
322130	Paperboard Mills	20,002.2	119.8	47.9	7.2
323	Printing and Related Support	139.1	1.6	1.0	12
324	Petroleum and Coal Products	38,270.9	83.8	17.1	6.8
324110	Petroleum Refineries	46,866.4	94.2	18.1	6.6
324199	Other Petroleum and Coal Products	26,296.8	47.4	27.0	1
325	Chemicals	1,621.2	7.3	4.2	5.3
325110	Petrochemicals	0.0	0.0	0.0	0
325120	Industrial Gases	13,420.5	23.9	17.4	12.6
325181	Alkalies and Chlorine	34,815.3	138.0	68.4	1
325182	Carbon Black	113.1	1.6	1.0	1
325188	Other Basic Inorganic Chemicals	13,740.8	42.4	27.4	12.6
325192	Cyclic Crudes and Intermediates	1,881.1	9.7	3.2	1
325193	Ethyl Alcohol	8,733.6	179.7	18.3	1
325199	Other Basic Organic Chemicals	2,086.6	8.8	5.7	17.4
325211	Plastics Materials and Resins	1,433.1	8.5	2.9	15.8
325212	Synthetic Rubber	151.8	1.2	0.7	1
325222	Noncellulosic Organic Fibers	13.5	0.3	0.2	1
325311	Nitrogenous Fertilizers	48,221.9	859.0	91.9	1
325312	Phosphatic Fertilizers	5,487.4	28.0	13.8	1

Table 6.1 Consumption Ratios of Fuel, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Subsector and Industry	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
3254	Pharmaceuticals and Medicines	201.1	0.9	0.5	4.3
325412	Pharmaceutical Preparation	216.8	0.7	0.4	5.6
325992	Photographic Film, Paper, Plate, and Chemicals	661.6	2.1	1.2	1
326	Plastics and Rubber Products	226.5	2.6	1.3	11.3
327	Nonmetallic Mineral Products	2,434.6	21.6	11.0	10
3272	Glass and Glass Products	1,826.7	16.9	9.8	4.6
327211	Flat Glass	5,534.4	35.9	20.6	1
327213	Glass Containers	3,808.0	22.8	13.5	1
327310	Cements	21,910.5	91.5	44.5	9.2
327410	Lime	25,167.8	137.3	75.7	1
327993	Mineral Wool	1,869.8	15.6	9.1	9.6
331	Primary Metals	1,773.8	15.9	6.3	4.9
331111	Iron and Steel Mills	5,062.0	31.0	9.6	2.7
331112	Electrometallurgical Ferroalloy Products	668.0	7.0	2.2	1
3312	Steel Products from Purchased Steel	607.0	4.2	1.5	7.4
3313	Alumina and Aluminum	3,106.5	37.0	11.6	7.2
331312	Primary Aluminum	10,126.9	85.1	26.1	10.5
3314	Nonferrous Metals, except Aluminum	1,496.0	10.5	4.1	13.1
3315	Foundries	397.0	4.8	3.0	9.3
331511	Iron Foundries	932.8	12.1	6.7	1.3
331521	Aluminum Die-Casting Foundries	227.8	4.9	1.7	21.6
331524	Aluminum Foundries, except Die-Casting	333.4	4.2	3.1	6
332	Fabricated Metal Products	123.6	1.5	0.8	10.7
333	Machinery	98.9	1.1	0.6	11.7
334	Computer and Electronic Products	116.5	0.7	0.4	12.2
334413	Semiconductors and Related Devices	338.0	0.9	0.7	4.9
335	Electrical Equip., Appliances, and Components	216.4	1.9	1.1	12.3
336	Transportation Equipment	111.6	0.9	0.4	14.2
336112	Light Trucks and Utility Vehicles	65.4	0.6	0.2	1
337	Furniture and Related Products	47.1	0.7	0.4	12.9
339	Miscellaneous	65.7	0.5	0.3	10.7
	Total	737.1	5.8	2.9	4.6

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
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.
Operating ratios were calculated using the estimates of fuel consumption reported in Table 3.2.
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.'

Table 6.2 Consumption Ratios of Fuel, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy-Consumption Ratios;
Unit: Varies.

Economic Characteristic(a)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
Total United States				
RSE Column Factors:	1.1	1	0.9	
Value of Shipments and Receipts (million dollars)				
Under 20	281.0	3.9	2.2	3
20-49	583.7	6.1	3.0	4.6
50-99	889.2	8.1	3.8	4.9
100-249	1,268.8	8.7	4.1	4.6
250-499	2,146.6	11.2	5.3	7.6
500 and Over	3,807.1	12.5	5.4	2.3
Total	1,172.2	8.9	4.2	2
Employment Size				
Under 50	395.7	4.3	2.3	3.6
50-99	663.4	6.8	3.3	5
100-249	905.8	7.9	3.8	3.6
250-499	1,407.1	11.1	5.1	4.3
500-999	1,999.6	12.4	5.9	5.6
1000 and Over	1,597.7	8.5	3.9	2.5
Total	1,172.2	8.9	4.2	2
Northeast Census Region				
RSE Column Factors:	1	1.1	0.9	
Value of Shipments and Receipts (million dollars)				
Under 20	243.6	3.3	1.9	5
20-49	408.7	3.6	2.0	10.3
50-99	720.0	5.7	2.9	9.6
100-249	858.8	6.0	3.0	8
250-499	1,077.2	4.7	2.6	8.9
500 and Over	1,819.1	5.1	2.9	2.6
Total	613.0	4.5	2.5	3
Employment Size				
Under 50	265.0	2.8	1.7	7.8
50-99	400.4	4.2	2.2	10
100-249	495.1	4.2	2.3	7.3
250-499	716.7	5.4	2.9	10
500-999	1,165.5	6.5	3.5	7.6
1000 and Over	919.0	4.2	2.5	3.3
Total	613.0	4.5	2.5	3
Midwest Census Region				

Table 6.2 Consumption Ratios of Fuel, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy-Consumption Ratios;
Unit: Varies.

Economic Characteristic(a)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
RSE Column Factors:	1	1	1	
Value of Shipments and Receipts (million dollars)				
Under 20	381.2	5.2	2.9	4.6
20-49	517.6	5.2	2.7	7.7
50-99	895.1	8.1	3.8	8.3
100-249	951.4	6.1	2.8	8.3
250-499	1,507.2	7.2	3.4	8.7
500 and Over	2,774.0	10.3	4.1	4.3
Total	1,007.4	7.5	3.4	3
Employment Size				
Under 50	495.9	5.6	2.9	5.2
50-99	606.2	5.9	2.8	8.3
100-249	826.0	7.2	3.4	6.6
250-499	1,202.4	8.9	4.1	7.3
500-999	1,139.0	6.9	3.6	8
1000 and Over	1,538.0	8.2	3.3	4.3
Total	1,007.4	7.5	3.4	3
South Census Region				
RSE Column Factors:	1.1	1	0.9	
Value of Shipments and Receipts (million dollars)				
Under 20	273.5	3.9	2.2	5
20-49	842.0	9.9	4.5	8
50-99	1,018.6	10.4	4.7	8.2
100-249	1,586.1	11.5	5.1	7.7
250-499	3,650.5	21.0	9.1	9.9
500 and Over	7,520.8	21.2	8.4	3.6
Total	1,879.6	14.3	6.3	3
Employment Size				
Under 50	506.0	5.2	2.5	6.3
50-99	1,101.7	11.0	5.1	10
100-249	1,290.4	10.9	5.0	6.6
250-499	1,842.2	15.9	6.7	6.3
500-999	3,215.0	22.6	9.1	8.5
1000 and Over	2,597.1	14.0	6.3	3.8
Total	1,879.6	14.3	6.3	3.3
West Census Region				
RSE Column Factors:	1	1	1	

Table 6.2 Consumption Ratios of Fuel, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy-Consumption Ratios;
Unit: Varies.

Economic Characteristic(a)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
Value of Shipments and Receipts (million dollars)				
Under 20	192.4	2.8	1.5	5
20-49	424.7	4.7	2.2	8.3
50-99	730.9	5.9	2.7	10.3
100-249	1,491.2	10.1	5.1	8.7
250-499	851.5	4.7	2.3	26.2
500 and Over	1,867.7	7.1	3.6	3.9
Total	737.1	5.8	2.9	4.6
Employment Size				
Under 50	257.7	3.2	1.7	5.6
50-99	482.1	5.2	2.4	9
100-249	806.0	7.8	3.6	7
250-499	1,539.3	12.1	5.5	9
500-999	1,154.0	6.2	3.3	18.7
1000 and Over	549.3	3.2	1.7	8.1
Total	737.1	5.8	2.9	4.6

(a) 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.

Operating ratios were calculated using the estimates of fuel consumption reported in Table 3.2.

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.'

Table 6.3 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Values of Shipments within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Total United States				
	RSE Column Factors:	1	1	1	
311 - 339	**ALL MANUFACTURING INDUSTRIES**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	281.0	3.9	2.2	3
	20-49	583.7	6.1	3.0	4.6
	50-99	889.2	8.1	3.8	4.9
	100-249	1,268.8	8.7	4.1	4.6
	250-499	2,146.6	11.2	5.3	7.6
	500 and Over	3,807.1	12.5	5.4	2.3
	Total	1,172.2	8.9	4.2	2
311	**FOOD**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	486.8	6.1	3.0	13.3
	20-49	563.3	5.1	2.3	16.6
	50-99	789.3	8.1	2.7	15.3
	100-249	935.7	6.0	2.6	11.6
	250-499	1,318.8	5.4	2.6	16.6
	500 and Over	1,176.8	6.3	2.4	14.9
	Total	867.8	6.0	2.6	6.6
311221	**Wet Corn Milling**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	3,479.9	21.5	7.8	1
	20-49	3,194.5	30.1	10.5	1
	50-99	12,635.3	42.3	23.5	22.2
	100-249	14,732.4	49.3	20.6	1
	250-499	18,658.9	54.9	21.5	1
	500 and Over	75,021.3	104.4	39.6	1
	Total	24,113.7	65.7	26.2	1.8
31131	**Sugar**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	27,803.8	168.0	103.7	1
	20-49	10,431.3	76.6	29.1	1
	50-99	5,320.2	54.0	27.2	1
	100-249	11,001.6	56.7	22.2	1
	250-499	4,770.0	32.6	6.4	1
	500 and Over	0.0	0.0	0.0	0
	Total	8,414.5	54.2	17.9	1
311421	**Fruit and Vegetable Canning**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	417.7	4.5	2.2	30.9
	20-49	806.0	6.2	3.0	18

Table 6.3 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Values of Shipments within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	50-99	812.8	5.5	2.8	29.3
	100-249	975.9	5.6	2.4	5
	250-499	716.3	3.3	1.8	10.1
	500 and Over	2,112.9	7.2	2.5	1
	Total	824.1	5.4	2.5	11
312	**BEVERAGE AND TOBACCO PRODUCTS**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	333.6	3.8	2.1	18.3
	20-49	341.9	3.5	1.2	20.8
	50-99	419.8	3.3	1.0	15
	100-249	717.3	2.4	1.1	6.5
	250-499	577.6	1.5	0.7	4.6
	500 and Over	1,209.8	1.1	0.9	1
	Total	670.4	1.6	1.0	3.1
3121	**Beverages**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	320.2	3.6	2.0	19
	20-49	315.4	3.3	1.1	21.8
	50-99	429.3	3.6	1.0	16.5
	100-249	629.2	2.1	0.9	7.2
	250-499	648.3	1.4	0.7	5.5
	500 and Over	1,598.5	3.4	2.1	1
	Total	658.6	2.8	1.3	4.6
3122	**Tobacco**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	611.7	11.3	4.7	1
	20-49	1,077.8	7.2	3.1	1
	50-99	297.7	1.3	0.7	1
	100-249	1,413.1	5.6	3.6	1
	250-499	333.9	2.4	0.6	1
	500 and Over	650.3	0.3	0.3	1
	Total	729.4	0.6	0.5	1
313	**TEXTILE MILLS**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	605.6	10.1	5.2	20.6
	20-49	702.6	12.1	4.3	16.6
	50-99	939.4	11.2	4.6	19.9
	100-249	847.1	9.0	3.2	20.8
	250-499	752.7	14.2	4.3	5.4
	500 and Over	4,718.7	17.9	6.8	1
	Total	798.7	11.2	4.3	9.3
314	**TEXTILE PRODUCT MILLS**				
	Value of Shipments and Receipts (million dollars)				

Table 6.3 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Values of Shipments within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Under 20	113.2	2.1	1.2	14.6
	20-49	151.6	1.7	0.8	26.9
	50-99	432.3	7.2	1.7	38.3
	100-249	582.5	8.6	2.1	27.4
	250-499	633.4	3.9	1.6	16
	500 and Over	962.2	8.3	1.1	1
	Total	345.3	4.7	1.6	11.6
315	**APPAREL**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	73.6	1.9	1.0	14.6
	20-49	175.9	2.0	1.0	18.6
	50-99	138.1	1.9	0.9	22.7
	100-249	116.3	1.9	0.6	31.5
	250-499	26.9	0.2	0.1	1
	500 and Over	0.0	0.0	0.0	0
	Total	101.7	1.8	0.9	10
316	**LEATHER AND ALLIED PRODUCTS**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	68.3	1.7	0.8	23.3
	20-49	159.4	2.3	1.0	15.2
	50-99	878.2	5.4	2.7	19.6
	100-249	145.9	1.3	0.6	13.6
	250-499	858.0	3.0	0.6	1
	500 and Over	0.0	0.0	0.0	0
	Total	152.1	2.4	1.1	12.1
321	**WOOD PRODUCTS**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	280.4	4.6	2.2	6.6
	20-49	1,051.7	14.8	5.4	7.3
	50-99	1,720.2	21.5	7.0	6
	100-249	1,494.2	13.6	4.2	21.8
	250-499	166.4	1.5	1.1	1
	500 and Over	185.5	1.5	0.7	1
	Total	741.7	10.6	4.2	4.9
321113	**Sawmills**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	514.1	8.7	3.4	8
	20-49	2,084.2	30.0	8.3	6.3
	50-99	2,772.7	30.2	8.6	5.9
	100-249	2,570.3	24.7	7.6	9.2
	250-499	0.0	0.0	0.0	0
	500 and Over	0.0	0.0	0.0	0
	Total	1,383.0	20.3	6.5	4.6
3212	**Veneer, Plywood, and Engineered Woods**				

Table 6.3 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Values of Shipments within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Value of Shipments and Receipts (million dollars)				
	Under 20	280.8	4.3	2.3	16
	20-49	2,568.6	35.5	13.0	14.2
	50-99	3,037.9	34.2	12.5	6.6
	100-249	1,568.3	Q	Q	20.2
	250-499	0.0	0.0	0.0	0
	500 and Over	0.0	0.0	0.0	0
	Total	1,574.9	19.1	7.2	13.1
3219	**Other Wood Products**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	195.1	3.3	1.6	10
	20-49	172.0	2.4	1.1	12.3
	50-99	316.0	4.7	1.8	11.7
	100-249	1,145.6	16.1	7.2	9.3
	250-499	166.4	1.5	1.1	1
	500 and Over	185.5	1.5	0.7	1
	Total	245.5	3.7	1.7	6.3
322	**PAPER**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	489.0	6.3	3.0	12.7
	20-49	874.4	9.1	3.4	9
	50-99	1,921.2	14.2	6.1	10.7
	100-249	8,363.0	41.6	20.7	12.6
	250-499	16,035.6	61.7	33.9	3.6
	500 and Over	11,349.3	28.4	16.9	1
	Total	5,038.0	31.1	15.2	4.3
322110	**Pulp Mills**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	2,950.3	30.7	10.7	1
	20-49	5,139.5	33.3	11.9	9
	50-99	10,891.6	76.4	30.4	1
	100-249	34,589.1	158.5	71.2	1
	250-499	25,873.3	104.4	58.4	1
	500 and Over	0.0	0.0	0.0	0
	Total	24,711.6	116.6	56.0	1
322121	**Paper Mills, except Newsprint**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	5,447.5	46.4	35.4	29.9
	20-49	3,178.4	30.2	14.3	25.3
	50-99	3,372.4	20.9	11.1	14.9
	100-249	8,676.2	45.1	24.7	4.3
	250-499	14,325.1	61.1	32.6	1.3
	500 and Over	10,873.6	27.1	15.7	1
	Total	10,401.1	40.4	22.5	2

Table 6.3 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Values of Shipments within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
322122	**Newsprint Mills**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	2,098.0	53.0	10.9	1
	20-49	0.0	0.0	0.0	0
	50-99	15,433.0	88.1	42.0	1
	100-249	13,108.0	60.3	27.0	1
	250-499	15,204.4	56.4	28.3	1
	500 and Over	0.0	0.0	0.0	0
	Total	13,933.8	62.1	29.1	1
322130	**Paperboard Mills**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	1,976.3	20.8	Q	40.8
	20-49	6,533.5	48.8	25.0	13.9
	50-99	10,906.9	51.3	27.2	8
	100-249	22,868.5	89.2	45.1	3.4
	250-499	24,685.3	97.4	50.5	1
	500 and Over	31,772.5	89.0	49.2	1
	Total	18,603.0	82.1	42.1	4.2
323	**PRINTING AND RELATED SUPPORT**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	102.0	1.4	0.9	8
	20-49	180.4	2.0	1.1	15
	50-99	202.9	2.0	1.2	17.2
	100-249	315.5	2.5	1.6	13.9
	250-499	317.4	2.8	1.4	34
	500 and Over	0.0	0.0	0.0	0
	Total	152.6	1.8	1.1	6
324	**PETROLEUM AND COAL PRODUCTS**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	3,106.0	20.0	7.3	14
	20-49	1,615.5	7.8	3.5	23.3
	50-99	8,191.8	40.3	12.4	18.6
	100-249	6,282.1	17.2	6.0	19.6
	250-499	22,148.9	45.3	7.0	24.5
	500 and Over	54,190.4	120.4	16.5	2.6
	Total	31,369.9	91.3	15.0	3.9
324110	**Petroleum Refineries**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	Q	Q	Q	0
	20-49	1,085.5	3.8	1.9	35.2
	50-99	22,038.6	Q	Q	49.4
	100-249	19,409.8	95.1	18.2	14.3
	250-499	25,654.8	55.0	7.9	28.8
	500 and Over	54,190.4	120.4	16.5	2.6

Table 6.3 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Values of Shipments within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Total	50,515.2	116.3	16.1	3
324199	**Other Petroleum and Coal Products**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	11,577.4	157.7	42.7	1
	20-49	5,186.3	34.5	12.8	1
	50-99	14,822.6	53.9	25.1	1
	100-249	0.0	0.0	0.0	0
	250-499	11,463.4	45.7	2.7	11.1
	500 and Over	0.0	0.0	0.0	0
	Total	10,950.9	59.8	17.5	3.1
325	**CHEMICALS**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	1,454.8	11.7	6.5	10.3
	20-49	2,569.2	15.4	8.5	11.6
	50-99	3,484.6	17.2	8.4	9.6
	100-249	5,256.0	19.4	9.6	9
	250-499	5,779.5	18.7	9.3	14
	500 and Over	8,279.1	13.4	8.1	3.6
	Total	4,824.6	15.3	8.5	3.6
325110	**Petrochemicals**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	3,712.0	Q	17.3	12.8
	20-49	11,722.4	16.8	12.4	1
	50-99	4,880.1	149.8	12.2	1
	100-249	38,375.2	94.2	34.0	1
	250-499	84,419.3	121.2	49.4	1
	500 and Over	50,564.2	71.0	20.6	1
	Total	50,352.3	77.4	23.2	1
325120	**Industrial Gases**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	23,998.3	69.5	47.7	14
	20-49	39,328.0	39.2	27.4	36.9
	50-99	20,952.9	56.1	20.9	1
	100-249	20,830.4	30.3	18.5	1
	250-499	19,347.7	18.7	9.8	1
	500 and Over	1,998.2	7.6	5.6	1
	Total	21,565.2	44.1	28.4	11.9
325181	**Alkalies and Chlorine**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	34,965.6	251.6	89.7	17
	20-49	10,666.5	82.2	36.5	14
	50-99	32,098.8	233.4	70.3	1
	100-249	29,286.0	106.2	56.9	1

Table 6.3 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Values of Shipments within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	250-499	0.0	0.0	0.0	0
	500 and Over	35,052.8	194.9	73.3	1
	Total	29,066.6	143.3	63.2	2.3
325182	**Carbon Black**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	3,678.3	39.4	19.4	1
	20-49	38,533.4	169.1	70.6	1
	50-99	9,427.3	24.0	16.3	1
	100-249	15,566.7	30.7	18.9	1
	250-499	0.0	0.0	0.0	0
	500 and Over	0.0	0.0	0.0	0
	Total	22,898.4	77.3	42.0	1
325188	**Other Basic Inorganic Chemicals**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	2,247.0	10.8	6.2	18
	20-49	7,600.7	33.5	17.4	10.6
	50-99	3,808.5	18.6	8.6	17.7
	100-249	9,279.0	27.5	16.3	10.3
	250-499	733.0	4.3	2.4	11.5
	500 and Over	3,453.6	28.4	15.8	1
	Total	4,156.1	21.4	11.7	5.2
325192	**Cyclic Crudes and Intermediates**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	2,352.7	20.1	9.3	1
	20-49	3,931.3	17.2	6.1	1
	50-99	14,271.4	22.9	29.2	1
	100-249	9,968.3	53.4	22.8	1
	250-499	14,582.8	255.4	17.1	1
	500 and Over	8,547.1	12.5	5.5	1
	Total	11,541.3	36.8	12.6	1
325193	**Ethyl Alcohol**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	12,811.4	161.7	28.7	1
	20-49	31,926.8	Q	41.8	38.8
	50-99	31,133.7	80.2	33.2	1
	100-249	12,425.3	46.1	11.9	1
	250-499	32,710.5	48.5	15.9	1
	500 and Over	0.0	0.0	0.0	0
	Total	26,688.9	65.4	24.4	8.4
325199	**Other Basic Organic Chemicals**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	3,562.7	43.7	22.6	40.4
	20-49	9,592.5	51.8	28.0	18.3

Table 6.3 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Values of Shipments within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	50-99	5,685.8	22.7	10.2	14.6
	100-249	9,489.5	32.7	15.5	13.3
	250-499	Q	165.9	Q	14.1
	500 and Over	23,873.4	83.0	28.9	1
	Total	13,358.7	66.8	22.8	12.2
325211	**Plastics Materials and Resins**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	269.2	3.2	1.6	33.9
	20-49	1,600.1	9.5	4.3	33.1
	50-99	3,033.1	11.0	4.1	22.1
	100-249	7,371.0	27.2	6.7	13.7
	250-499	7,356.6	33.5	7.7	3
	500 and Over	26,056.7	75.6	28.6	1
	Total	8,899.1	41.4	14.5	8.4
325212	**Synthetic Rubber**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	389.3	4.5	1.9	12.9
	20-49	1,202.5	9.3	5.8	8.2
	50-99	4,774.0	17.7	7.4	24.6
	100-249	5,698.3	19.5	7.9	11.3
	250-499	Q	12.8	7.2	43.8
	500 and Over	17,007.7	39.9	15.7	1
	Total	4,584.0	16.7	8.0	21.3
325222	**Noncellulosic Organic Fibers**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	509.2	7.4	3.9	1
	20-49	690.0	8.1	3.5	17.9
	50-99	1,573.4	12.4	5.7	1
	100-249	1,638.7	13.1	5.1	1
	250-499	5,608.4	31.8	13.5	1
	500 and Over	3,588.3	13.8	6.7	1
	Total	3,026.0	19.1	8.4	1.3
325311	**Nitrogenous Fertilizers**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	9,383.1	104.6	43.8	1
	20-49	8,775.1	57.2	15.2	1
	50-99	59,851.3	330.8	72.3	1
	100-249	49,174.9	159.3	51.7	1
	250-499	123,736.2	282.8	78.4	1
	500 and Over	0.0	0.0	0.0	0
	Total	46,585.3	202.5	58.7	1
325312	**Phosphatic Fertilizers**				
	Value of Shipments and Receipts (million dollars)				

Table 6.3 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Values of Shipments within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Under 20	714.3	-76.8	2.3	1
	20-49	0.0	0.0	0.0	0
	50-99	5,125.0	25.3	9.3	1
	100-249	3,735.4	19.2	7.6	1
	250-499	4,869.4	20.4	7.0	1
	500 and Over	2,776.9	12.3	3.4	1
	Total	4,095.1	19.5	6.6	1
3254	**Pharmaceuticals and Medicines**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	183.0	1.5	1.1	20.6
	20-49	476.6	3.5	2.2	22
	50-99	670.8	3.9	2.4	22.6
	100-249	627.7	3.3	2.1	12.9
	250-499	711.5	1.9	1.5	14.9
	500 and Over	437.6	0.5	0.4	2
	Total	525.5	1.2	0.8	3.9
325412	**Pharmaceutical Preparation**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	150.9	1.1	0.9	27.6
	20-49	656.9	4.4	2.7	27.3
	50-99	676.0	3.3	2.0	34.5
	100-249	690.1	3.2	2.1	14.9
	250-499	654.4	1.6	1.3	19
	500 and Over	396.0	0.4	0.3	2
	Total	514.0	1.0	0.7	4.9
325992	**Photographic Film, Paper, Plate, and Chemicals**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	Q	Q	Q	0
	20-49	1,081.2	10.6	5.1	24.3
	50-99	434.9	2.8	1.2	24.8
	100-249	702.1	3.0	1.5	1
	250-499	913.2	2.4	1.1	1
	500 and Over	1,126.5	2.8	2.8	1
	Total	804.1	2.7	2.2	13.3
326	**PLASTICS AND RUBBER PRODUCTS**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	237.0	3.4	1.8	8.7
	20-49	347.4	3.5	1.8	10
	50-99	500.1	4.4	2.3	11.7
	100-249	472.1	4.1	2.3	16.3
	250-499	686.4	5.1	2.8	6.3
	500 and Over	660.8	4.2	2.3	11.5
	Total	375.5	3.9	2.1	5.3
327	**NONMETALLIC MINERAL PRODUCTS**				

Table 6.3 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Values of Shipments within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Value of Shipments and Receipts (million dollars)				
	Under 20	690.6	7.3	4.1	8.3
	20-49	3,987.7	32.3	17.9	13.3
	50-99	6,613.7	38.4	20.9	7.7
	100-249	4,365.6	27.5	16.6	3.3
	250-499	4,046.8	16.4	11.1	1
	500 and Over	0.0	0.0	0.0	0
	Total	2,434.9	20.7	11.7	5.3
3272	**Glass and Glass Products**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	388.4	5.4	3.5	16.6
	20-49	1,718.7	15.4	8.8	8
	50-99	3,267.3	20.8	12.7	6.6
	100-249	2,365.1	18.4	10.4	4.5
	250-499	2,542.8	14.2	8.6	1
	500 and Over	0.0	0.0	0.0	0
	Total	2,002.5	16.7	9.9	4.3
327211	**Flat Glass**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	2,211.1	25.5	16.4	1
	20-49	4,080.1	31.7	20.2	1
	50-99	7,109.9	40.7	26.2	1
	100-249	7,155.4	33.7	19.3	1
	250-499	0.0	0.0	0.0	0
	500 and Over	0.0	0.0	0.0	0
	Total	6,783.2	36.9	22.5	1
327213	**Glass Containers**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	0.0	0.0	0.0	0
	20-49	3,484.3	24.6	15.0	1
	50-99	4,073.0	22.8	14.4	1
	100-249	4,836.7	27.1	16.2	1
	250-499	0.0	0.0	0.0	0
	500 and Over	0.0	0.0	0.0	0
	Total	4,239.0	24.3	15.1	1
327310	**Cements**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	3,691.1	36.6	Q	45.8
	20-49	24,441.5	124.9	73.7	4
	50-99	23,593.3	87.7	53.0	1
	100-249	34,856.1	89.1	57.8	1
	250-499	0.0	0.0	0.0	0
	500 and Over	0.0	0.0	0.0	0
	Total	24,086.5	95.5	56.0	3.2

Table 6.3 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Values of Shipments within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
327410	**Lime**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	30,521.5	225.4	115.0	1
	20-49	23,515.6	190.7	95.3	1
	50-99	23,780.5	135.8	77.6	1
	100-249	19,647.3	156.7	114.6	1
	250-499	0.0	0.0	0.0	0
	500 and Over	0.0	0.0	0.0	0
	Total	25,007.2	189.6	101.9	1
327993	**Mineral Wool**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	686.2	11.2	5.6	41.8
	20-49	2,045.6	24.1	12.7	17.7
	50-99	3,195.9	22.7	12.8	1
	100-249	3,838.4	17.2	11.4	1
	250-499	2,943.3	12.6	9.8	1
	500 and Over	0.0	0.0	0.0	0
	Total	2,400.9	18.0	10.8	9
331	**PRIMARY METALS**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	750.8	10.6	5.7	8.7
	20-49	868.5	9.8	4.3	6.3
	50-99	1,411.2	14.5	5.5	4.6
	100-249	3,254.5	23.5	8.9	3.3
	250-499	5,220.8	34.9	11.7	1.3
	500 and Over	13,451.1	68.6	29.6	2
	Total	4,170.7	34.6	14.2	2.3
331111	**Iron and Steel Mills**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	2,588.8	26.9	15.3	36.5
	20-49	1,089.1	11.6	4.1	42.3
	50-99	2,596.5	27.2	9.3	23.6
	100-249	5,028.4	33.1	12.6	5.6
	250-499	5,036.6	36.4	9.4	3
	500 and Over	15,829.9	80.8	36.3	2.5
	Total	11,293.6	66.5	27.8	3.6
331112	**Electrometallurgical Ferroalloy Products**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	8,070.1	66.7	29.7	1
	20-49	2,502.4	19.0	8.5	1
	50-99	16,997.9	272.5	39.1	8.3
	100-249	0.0	0.0	0.0	0
	250-499	1,132.9	7.8	2.7	1
	500 and Over	0.0	0.0	0.0	0

Table 6.3 Consumption Ratios of Fuel, 2002;
Level: National Data;
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Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Total	5,583.6	46.1	14.3	2.1
3312	**Steel Products from Purchased Steel**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	457.1	5.9	2.8	20.5
	20-49	687.3	7.4	2.4	11.3
	50-99	631.5	5.4	2.0	10
	100-249	2,463.8	15.2	5.0	8
	250-499	1,103.6	5.4	1.8	1
	500 and Over	0.0	0.0	0.0	0
	Total	871.3	7.4	2.6	5.3
3313	**Alumina and Aluminum**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	555.7	9.8	4.7	31.9
	20-49	1,182.2	13.6	4.8	19.4
	50-99	1,589.5	19.0	5.5	15.9
	100-249	7,902.3	42.1	13.9	4.8
	250-499	11,594.4	80.0	22.6	1.4
	500 and Over	5,300.0	16.9	7.7	1
	Total	4,496.8	34.3	12.2	5.8
331312	**Primary Aluminum**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	Q	Q	Q	0
	20-49	0.0	0.0	0.0	0
	50-99	11,687.9	398.0	38.2	1
	100-249	16,482.7	98.9	35.0	1
	250-499	17,603.0	128.6	41.8	1
	500 and Over	12,137.6	63.8	31.0	1
	Total	16,159.7	112.3	38.5	2.3
3314	**Nonferrous Metals, except Aluminum**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	569.9	6.4	2.8	25
	20-49	1,140.9	12.1	4.5	17.3
	50-99	1,185.7	12.0	3.9	11.3
	100-249	1,753.7	15.0	4.5	11.5
	250-499	2,277.0	13.4	5.2	1
	500 and Over	4,749.9	11.2	2.7	1
	Total	1,373.1	12.0	4.1	7
3315	**Foundries**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	607.4	9.1	5.5	6.6
	20-49	675.7	8.1	5.0	5.6
	50-99	1,107.8	11.8	6.2	1.6
	100-249	1,114.1	9.6	4.9	2

Table 6.3 Consumption Ratios of Fuel, 2002;
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Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	250-499	1,991.9	15.9	8.6	1
	500 and Over	649.0	29.4	4.1	1
	Total	866.3	10.3	5.6	3
331511	**Iron Foundries**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	1,093.0	17.3	10.6	8.7
	20-49	813.6	10.6	6.4	8.3
	50-99	1,561.7	15.1	8.2	1
	100-249	1,758.9	14.6	7.2	2.5
	250-499	1,762.0	16.5	9.3	1
	500 and Over	217.1	-25.3	1.7	1
	Total	1,224.5	15.0	7.7	3.6
331521	**Aluminum Die-Casting Foundries**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	479.5	7.0	3.7	24
	20-49	701.5	7.8	4.5	7
	50-99	1,002.7	10.3	5.1	1
	100-249	789.8	7.5	3.4	1
	250-499	1,921.6	19.8	7.5	1
	500 and Over	1,476.4	18.3	6.9	1
	Total	814.2	9.5	4.7	7
331524	**Aluminum Foundries, except Die-Casting**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	444.4	6.7	4.5	7
	20-49	614.9	7.2	4.7	15.7
	50-99	754.1	11.0	4.5	1
	100-249	1,097.1	8.8	4.8	1
	250-499	897.2	6.4	3.9	1
	500 and Over	0.0	0.0	0.0	0
	Total	642.8	7.6	4.5	5.2
332	**FABRICATED METAL PRODUCTS**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	225.4	3.2	1.9	6
	20-49	220.1	2.2	1.2	18.3
	50-99	376.7	3.7	1.9	22.7
	100-249	546.3	3.5	1.4	20
	250-499	719.6	3.8	2.0	29.7
	500 and Over	422.6	5.2	1.6	34
	Total	258.4	3.0	1.7	6.3
333	**MACHINERY**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	98.4	1.4	0.8	9.3
	20-49	133.4	1.3	0.7	17.6

Table 6.3 Consumption Ratios of Fuel, 2002;
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Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	50-99	181.0	1.8	0.9	19.7
	100-249	190.0	1.6	0.7	18.3
	250-499	232.1	1.3	0.6	19.3
	500 and Over	282.4	1.2	0.5	14.6
	Total	157.5	1.4	0.7	7
334	**COMPUTER AND ELECTRONIC PRODUCTS**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	162.6	1.9	1.2	12.3
	20-49	98.4	1.2	0.6	17.3
	50-99	100.5	1.0	0.5	24.8
	100-249	180.5	1.4	0.8	15.6
	250-499	137.6	0.9	0.4	29.1
	500 and Over	153.5	0.5	0.3	4.9
	Total	141.1	0.9	0.5	7.3
334413	**Semiconductors and Related Devices**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	523.4	4.7	3.9	32.6
	20-49	225.6	3.6	1.8	27.9
	50-99	431.7	4.8	3.2	10.3
	100-249	451.3	4.6	1.8	9.5
	250-499	343.2	1.8	1.2	6.6
	500 and Over	400.3	0.7	0.6	2
	Total	387.7	1.3	1.0	4.1
335	**ELEC. EQUIP., APPLIANCES, COMPONENTS**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	178.8	2.5	1.2	17.2
	20-49	207.5	2.3	1.3	16
	50-99	303.3	2.7	1.3	12.6
	100-249	237.9	1.7	0.9	12.7
	250-499	146.1	0.9	0.5	14.3
	500 and Over	223.2	1.7	0.8	1
	Total	211.2	1.9	1.0	6.3
336	**TRANSPORTATION EQUIPMENT**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	145.7	2.3	1.2	13
	20-49	211.7	2.6	1.3	19.3
	50-99	249.9	2.4	1.2	19.3
	100-249	329.6	2.7	1.3	16.6
	250-499	241.7	2.1	0.7	29.4
	500 and Over	329.3	1.5	0.5	3.3
	Total	278.6	1.8	0.7	4.6
336112	**Light Trucks and Utility Vehicles**				
	Value of Shipments and Receipts (million dollars)				

Table 6.3 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Values of Shipments within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Under 20	54.7	0.5	0.1	1
	20-49	219.1	0.0	1.3	1
	50-99	0.0	0.0	0.0	0
	100-249	0.0	0.0	0.0	0
	250-499	691.5	15.1	2.4	1
	500 and Over	616.8	1.5	0.4	1
	Total	618.0	1.5	0.4	1
337	**FURNITURE AND RELATED PRODUCTS**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	74.1	1.3	0.7	8.7
	20-49	91.0	1.4	0.7	18.6
	50-99	185.7	2.6	1.4	14.3
	100-249	175.2	1.3	0.8	22.3
	250-499	221.4	1.9	1.1	17.9
	500 and Over	263.3	2.1	1.2	1
	Total	113.7	1.6	0.9	7
339	**MISCELLANEOUS**				
	Value of Shipments and Receipts (million dollars)				
	Under 20	67.3	1.1	0.7	9.7
	20-49	119.2	1.2	0.7	20.6
	50-99	179.6	1.3	0.8	19.6
	100-249	113.4	0.7	0.4	13.7
	250-499	143.2	0.6	0.4	16
	500 and Over	95.5	0.3	0.2	9.5
	Total	101.5	0.9	0.6	6.3

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) Value of Shipments and Receipts 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.
Operating ratios were calculated using the estimates of fuel consumption reported in Table N3.2.
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.'

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Total United States				
	RSE Column Factors:	1.1	1	1	
311 - 339	**ALL MANUFACTURING INDUSTRIES**				
	Employment Size				
	Under 50	395.7	4.3	2.3	3.6
	50-99	663.4	6.8	3.3	5
	100-249	905.8	7.9	3.8	3.6
	250-499	1,407.1	11.1	5.1	4.3
	500-999	1,999.6	12.4	5.9	5.6
	1000 and Over	1,597.7	8.5	3.9	2.5
	Total	1,172.2	8.9	4.2	2
311	**FOOD**				
	Employment Size				
	Under 50	893.5	6.6	2.4	13.5
	50-99	1,435.0	6.2	2.9	19.7
	100-249	1,031.0	7.6	2.9	11.6
	250-499	1,392.0	8.9	3.9	13.6
	500-999	581.2	3.3	1.8	18.3
	1000 and Over	365.0	3.8	1.4	13.7
	Total	867.8	6.0	2.6	6.6
311221	**Wet Corn Milling**				
	Employment Size				
	Under 50	4,139.1	22.3	8.1	1
	50-99	16,459.1	67.2	23.3	1
	100-249	20,431.1	51.1	21.4	1
	250-499	37,891.9	86.1	33.4	3.6
	500-999	12,505.9	44.0	18.2	1
	1000 and Over	0.0	0.0	0.0	0
	Total	24,113.7	65.7	26.2	1.8
31131	**Sugar**				
	Employment Size				
	Under 50	14,475.5	70.6	27.0	1
	50-99	4,753.7	26.6	11.6	1
	100-249	12,060.1	81.3	21.6	1
	250-499	9,638.3	52.5	17.1	1
	500-999	2,123.2	29.6	22.2	1
	1000 and Over	2,589.6	23.8	8.8	1
	Total	8,414.5	54.2	17.9	1
311421	**Fruit and Vegetable Canning**				
	Employment Size				
	Under 50	627.2	2.6	1.5	41.9
	50-99	1,118.6	9.2	4.3	28.9
	100-249	801.4	6.1	2.8	10
	250-499	754.4	5.6	2.5	31.9
	500-999	674.2	3.2	1.6	1
	1000 and Over	1,209.5	8.5	3.1	1
	Total	824.1	5.4	2.5	11

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
312	**BEVERAGE AND TOBACCO PRODUCTS**				
	Employment Size				
	Under 50	436.0	2.8	1.5	20
	50-99	616.0	2.4	1.1	20.9
	100-249	457.7	2.2	0.9	9.1
	250-499	521.7	2.1	1.1	6.2
	500-999	1,391.4	3.4	2.0	1
	1000 and Over	899.4	0.7	0.6	1
	Total	670.4	1.6	1.0	3.1
3121	**Beverages**				
	Employment Size				
	Under 50	442.1	3.0	1.6	21.3
	50-99	620.0	2.4	1.1	21.9
	100-249	439.6	2.2	0.8	10.1
	250-499	452.1	2.2	1.0	7.6
	500-999	1,511.0	3.2	2.0	1
	1000 and Over	1,212.7	4.0	2.3	1
	Total	658.6	2.8	1.3	4.6
3122	**Tobacco**				
	Employment Size				
	Under 50	245.6	0.5	0.3	1
	50-99	563.1	2.8	1.5	1
	100-249	848.8	2.2	1.0	1
	250-499	1,043.6	1.8	1.3	1
	500-999	831.0	5.8	2.0	1
	1000 and Over	629.1	0.3	0.3	1
	Total	729.4	0.6	0.5	1
313	**TEXTILE MILLS**				
	Employment Size				
	Under 50	333.6	3.2	1.8	34.8
	50-99	596.3	8.5	4.2	23.3
	100-249	828.7	11.8	3.8	22.6
	250-499	768.5	11.8	4.4	14.3
	500-999	1,146.9	14.2	5.6	16.9
	1000 and Over	736.0	10.8	4.8	17.2
	Total	798.7	11.2	4.3	9.3
314	**TEXTILE PRODUCT MILLS**				
	Employment Size				
	Under 50	113.4	1.9	1.1	18.9
	50-99	136.4	2.2	1.2	30
	100-249	87.6	1.5	0.5	31.6
	250-499	570.1	5.5	1.7	19.3
	500-999	567.7	7.8	1.9	25.3
	1000 and Over	856.2	6.8	2.8	23.5
	Total	345.3	4.7	1.6	11.6
315	**APPAREL**				

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Employment Size				
	Under 50	106.2	2.5	1.0	20.2
	50-99	75.5	1.4	0.6	23.8
	100-249	113.2	1.6	1.0	20.9
	250-499	131.8	2.6	1.4	21.1
	500-999	120.6	1.8	0.8	19.3
	1000 and Over	61.3	1.6	0.6	42.2
	Total	101.7	1.8	0.9	10
316	**LEATHER AND ALLIED PRODUCTS**				
	Employment Size				
	Under 50	55.6	1.4	0.6	30.5
	50-99	536.4	8.6	4.8	43.2
	100-249	181.2	1.9	0.9	12.6
	250-499	158.0	1.5	0.6	15
	500-999	60.3	0.8	0.4	36.3
	1000 and Over	135.5	2.0	0.8	14
	Total	152.1	2.4	1.1	12.1
321	**WOOD PRODUCTS**				
	Employment Size				
	Under 50	293.5	4.5	2.0	7.6
	50-99	503.2	6.4	2.3	17.2
	100-249	1,215.5	17.3	6.4	7.3
	250-499	899.3	13.6	5.1	9.7
	500-999	1,282.6	20.4	8.5	6.3
	1000 and Over	155.8	1.9	0.9	1
	Total	741.7	10.6	4.2	4.9
321113	**Sawmills**				
	Employment Size				
	Under 50	484.1	8.1	3.0	10.3
	50-99	1,267.3	17.8	6.2	10.6
	100-249	1,943.5	26.6	7.8	5.9
	250-499	1,885.6	26.6	7.5	2.3
	500-999	3,183.2	62.6	20.5	1
	1000 and Over	0.0	0.0	0.0	0
	Total	1,383.0	20.3	6.5	4.6
3212	**Veneer, Plywood, and Engineered Woods**				
	Employment Size				
	Under 50	109.0	1.6	0.9	24.6
	50-99	543.9	5.0	Q	30
	100-249	3,709.5	41.4	16.0	7
	250-499	1,537.8	23.1	8.2	14.9
	500-999	1,479.1	24.0	7.5	1
	1000 and Over	0.0	0.0	0.0	0
	Total	1,574.9	19.1	7.2	13.1
3219	**Other Wood Products**				
	Employment Size				
	Under 50	248.6	3.8	1.9	11
	50-99	176.8	2.7	1.2	20.6

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	100-249	156.0	2.4	1.1	13.3
	250-499	222.4	3.4	1.5	15
	500-999	1,033.0	16.1	7.7	9
	1000 and Over	155.8	1.9	0.9	1
	Total	245.5	3.7	1.7	6.3
322	**PAPER**				
	Employment Size				
	Under 50	463.6	5.2	2.4	16.6
	50-99	1,258.4	12.4	4.7	14.6
	100-249	1,403.7	11.9	4.9	7.3
	250-499	6,572.7	32.9	17.3	13.7
	500-999	12,832.3	56.7	29.3	4
	1000 and Over	10,910.4	39.0	23.8	1
	Total	5,038.0	31.1	15.2	4.3
322110	**Pulp Mills**				
	Employment Size				
	Under 50	4,553.3	37.7	10.1	1
	50-99	3,218.9	22.2	7.2	33.9
	100-249	21,284.1	114.9	40.0	1
	250-499	26,771.1	122.3	61.8	1
	500-999	25,761.2	116.8	61.6	1
	1000 and Over	0.0	0.0	0.0	0
	Total	24,711.6	116.6	56.0	1
322121	**Paper Mills, except Newsprint**				
	Employment Size				
	Under 50	Q	28.4	73.8	37.1
	50-99	4,285.0	Q	21.3	28.1
	100-249	2,968.1	14.9	8.5	14.9
	250-499	8,033.1	34.8	18.9	5
	500-999	12,833.6	52.5	24.7	1
	1000 and Over	11,595.3	38.5	24.0	1
	Total	10,401.1	40.4	22.5	2
322122	**Newsprint Mills**				
	Employment Size				
	Under 50	0.0	0.0	0.0	0
	50-99	2,098.0	53.0	10.9	1
	100-249	13,954.8	49.7	26.5	1
	250-499	14,373.4	62.7	28.2	1
	500-999	0.0	0.0	0.0	0
	1000 and Over	12,866.4	82.9	41.0	1
	Total	13,933.8	62.1	29.1	1
322130	**Paperboard Mills**				
	Employment Size				
	Under 50	Q	Q	Q	0
	50-99	9,157.2	39.1	22.2	10.5
	100-249	9,513.9	49.3	26.0	8.7
	250-499	22,106.7	80.4	40.6	1
	500-999	28,966.1	101.7	54.9	1

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	1000 and Over	18,361.3	113.8	51.1	1
	Total	18,603.0	82.1	42.1	4.2
323	**PRINTING AND RELATED SUPPORT**				
	Employment Size				
	Under 50	116.3	1.6	1.1	8.7
	50-99	101.8	1.2	0.7	16.3
	100-249	169.4	1.8	1.0	13.7
	250-499	167.8	1.9	1.2	16.9
	500-999	206.5	2.3	1.5	19.9
	1000 and Over	348.0	3.4	2.1	11.6
	Total	152.6	1.8	1.1	6
324	**PETROLEUM AND COAL PRODUCTS**				
	Employment Size				
	Under 50	4,718.1	20.0	6.0	15.6
	50-99	4,188.8	19.5	6.3	22.3
	100-249	16,998.3	56.0	12.1	8.3
	250-499	38,801.2	108.0	13.8	10
	500-999	52,258.4	149.0	16.4	1
	1000 and Over	58,905.3	103.6	18.8	1
	Total	31,369.9	91.3	15.0	3.9
324110	**Petroleum Refineries**				
	Employment Size				
	Under 50	24,477.5	Q	Q	38.4
	50-99	Q	75.2	13.4	47.5
	100-249	42,558.3	94.2	14.5	9.9
	250-499	45,976.5	110.7	13.7	10.3
	500-999	52,258.4	149.0	16.4	1
	1000 and Over	58,905.3	103.6	18.8	1
	Total	50,515.2	116.3	16.1	3
324199	**Other Petroleum and Coal Products**				
	Employment Size				
	Under 50	9,728.5	23.8	10.4	1
	50-99	10,335.9	57.0	9.6	5.7
	100-249	5,510.3	83.8	22.2	1
	250-499	23,081.1	174.0	81.7	1
	500-999	0.0	0.0	0.0	0
	1000 and Over	0.0	0.0	0.0	0
	Total	10,950.9	59.8	17.5	3.1
325	**CHEMICALS**				
	Employment Size				
	Under 50	2,757.4	12.5	6.7	11.6
	50-99	4,727.4	24.0	10.3	10.4
	100-249	3,835.1	13.2	7.1	9.6
	250-499	7,352.4	23.2	11.9	5.9
	500-999	6,720.0	14.8	8.3	9
	1000 and Over	4,175.0	12.4	7.8	4.6
	Total	4,824.6	15.3	8.5	3.6

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
325110	**Petrochemicals**				
	Employment Size				
	Under 50	93,098.2	114.9	42.3	4.9
	50-99	439,677.1	117.8	73.8	1
	100-249	37,251.8	82.9	21.6	1
	250-499	72,328.0	182.0	39.9	1
	500-999	54,493.6	68.6	22.0	1
	1000 and Over	26,058.9	32.0	10.6	1
	Total	50,352.3	77.4	23.2	1
325120	**Industrial Gases**				
	Employment Size				
	Under 50	32,418.0	50.1	35.3	18.5
	50-99	11,882.9	27.8	16.8	3.6
	100-249	17,882.9	46.7	22.6	4.2
	250-499	12,026.5	276.9	19.1	1
	500-999	0.0	0.0	0.0	0
	1000 and Over	1,998.2	7.6	5.6	1
	Total	21,565.2	44.1	28.4	11.9
325181	**Alkalies and Chlorine**				
	Employment Size				
	Under 50	32,609.3	196.0	76.6	13.3
	50-99	17,768.4	49.9	29.3	1
	100-249	28,615.7	128.9	54.5	3.8
	250-499	28,101.2	121.3	63.9	1
	500-999	18,724.2	124.1	71.6	1
	1000 and Over	35,052.8	194.9	73.3	1
	Total	29,066.6	143.3	63.2	2.3
325182	**Carbon Black**				
	Employment Size				
	Under 50	209.4	1.2	1.0	1
	50-99	33,747.9	165.1	68.4	1
	100-249	10,834.6	25.8	17.1	1
	250-499	0.0	0.0	0.0	0
	500-999	0.0	0.0	0.0	0
	1000 and Over	0.0	0.0	0.0	0
	Total	22,898.4	77.3	42.0	1
325188	**Other Basic Inorganic Chemicals**				
	Employment Size				
	Under 50	3,681.0	13.2	6.6	17.1
	50-99	10,663.9	52.0	25.7	16.6
	100-249	7,492.8	27.2	14.9	7
	250-499	3,300.2	12.9	8.0	13
	500-999	1,023.2	17.6	3.5	1
	1000 and Over	2,808.3	20.2	12.8	4.9
	Total	4,156.1	21.4	11.7	5.2
325192	**Cyclic Crudes and Intermediates**				
	Employment Size				

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Under 50	4,537.9	25.4	9.4	1
	50-99	6,466.7	8.6	10.0	1
	100-249	29,663.8	36.7	12.9	1
	250-499	13,612.1	1,132.3	20.5	1
	500-999	6,006.8	31.7	9.1	1
	1000 and Over	9,440.1	15.9	8.1	1
	Total	11,541.3	36.8	12.6	1
325193	**Ethyl Alcohol**				
	Employment Size				
	Under 50	23,138.8	83.1	29.4	1
	50-99	Q	Q	46.6	42.6
	100-249	24,525.9	56.7	18.3	1
	250-499	0.0	0.0	0.0	0
	500-999	0.0	0.0	0.0	0
	1000 and Over	0.0	0.0	0.0	0
	Total	26,688.9	65.4	24.4	8.4
325199	**Other Basic Organic Chemicals**				
	Employment Size				
	Under 50	3,767.7	12.1	4.9	18.4
	50-99	9,422.5	35.6	13.6	12.2
	100-249	9,345.0	34.3	16.7	13.2
	250-499	19,845.4	84.0	29.7	4.9
	500-999	Q	105.6	29.4	17.5
	1000 and Over	7,161.6	84.3	16.4	1
	Total	13,358.7	66.8	22.8	12.2
325211	**Plastics Materials and Resins**				
	Employment Size				
	Under 50	1,935.1	8.6	3.5	26.8
	50-99	2,538.9	17.7	5.8	27.4
	100-249	2,455.5	12.3	4.0	18.2
	250-499	11,066.1	38.0	12.3	1.8
	500-999	8,591.3	104.1	11.3	1
	1000 and Over	24,721.0	90.5	37.4	1
	Total	8,899.1	41.4	14.5	8.4
325212	**Synthetic Rubber**				
	Employment Size				
	Under 50	393.5	2.9	1.4	20
	50-99	3,040.0	6.2	2.9	25
	100-249	5,419.5	19.0	8.4	6.1
	250-499	5,849.7	26.0	11.8	1
	500-999	Q	Q	Q	0
	1000 and Over	0.0	0.0	0.0	0
	Total	4,584.0	16.7	8.0	21.3
325222	**Noncellulosic Organic Fibers**				
	Employment Size				
	Under 50	154.1	2.4	1.3	1
	50-99	1,009.6	9.7	4.2	1
	100-249	928.1	5.6	2.6	12.1

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	250-499	2,406.2	17.7	6.9	1
	500-999	2,747.2	14.7	7.2	1
	1000 and Over	4,919.3	33.6	12.7	1
	Total	3,026.0	19.1	8.4	1.3
325311	**Nitrogenous Fertilizers**				
	Employment Size				
	Under 50	4,821.3	18.0	7.4	1
	50-99	50,567.2	272.8	66.3	1
	100-249	52,166.2	166.1	58.0	1
	250-499	62,938.2	370.5	77.5	1
	500-999	0.0	0.0	0.0	0
	1000 and Over	0.0	0.0	0.0	0
	Total	46,585.3	202.5	58.7	1
325312	**Phosphatic Fertilizers**				
	Employment Size				
	Under 50	2,344.0	15.8	3.4	1
	50-99	517.3	21.2	2.7	1
	100-249	8,415.7	40.9	9.0	1
	250-499	3,305.0	14.9	6.3	1
	500-999	2,776.9	12.3	3.4	1
	1000 and Over	3,542.2	18.3	7.9	1
	Total	4,095.1	19.5	6.6	1
3254	**Pharmaceuticals and Medicines**				
	Employment Size				
	Under 50	179.2	1.1	0.7	24.3
	50-99	973.9	4.6	2.7	25.5
	100-249	495.2	1.4	1.0	15.9
	250-499	668.3	1.7	1.3	9.3
	500-999	653.1	0.9	0.6	7.7
	1000 and Over	444.1	1.2	0.8	3.8
	Total	525.5	1.2	0.8	3.9
325412	**Pharmaceutical Preparation**				
	Employment Size				
	Under 50	125.7	0.7	0.5	33.6
	50-99	935.8	4.4	2.7	30.4
	100-249	480.1	1.1	0.8	18.6
	250-499	402.9	0.9	0.7	11.6
	500-999	632.3	0.8	0.6	9.2
	1000 and Over	491.2	1.1	0.8	4
	Total	514.0	1.0	0.7	4.9
325992	**Photographic Film, Paper, Plate, and Chemicals**				
	Employment Size				
	Under 50	Q	Q	Q	0
	50-99	300.6	2.0	1.0	24
	100-249	907.3	2.7	1.7	14.9
	250-499	613.2	2.7	1.5	1
	500-999	606.1	-21.3	1.1	1
	1000 and Over	1,126.5	2.8	2.8	1

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Total	804.1	2.7	2.2	13.3
326	**PLASTICS AND RUBBER PRODUCTS**				
	Employment Size				
	Under 50	280.9	3.1	1.6	11.7
	50-99	297.6	3.5	1.7	12.7
	100-249	357.5	3.5	1.9	9
	250-499	470.1	4.7	2.8	14.3
	500-999	389.4	3.8	2.2	13
	1000 and Over	478.6	5.2	2.6	10.8
	Total	375.5	3.9	2.1	5.3
327	**NONMETALLIC MINERAL PRODUCTS**				
	Employment Size				
	Under 50	672.6	6.1	3.1	10.3
	50-99	1,871.7	18.5	10.2	16.3
	100-249	5,169.3	37.5	23.3	9
	250-499	3,227.0	25.1	14.7	6.1
	500-999	2,519.2	20.4	12.9	5.2
	1000 and Over	1,061.5	11.3	7.0	1
	Total	2,434.9	20.7	11.7	5.3
3272	**Glass and Glass Products**				
	Employment Size				
	Under 50	318.9	3.6	2.6	32
	50-99	609.0	7.4	4.5	25.4
	100-249	2,462.7	18.0	10.7	8.3
	250-499	2,863.0	20.6	12.1	5.2
	500-999	1,902.9	16.8	9.7	6.8
	1000 and Over	1,061.0	11.5	6.9	1
	Total	2,002.5	16.7	9.9	4.3
327211	**Flat Glass**				
	Employment Size				
	Under 50	1,718.1	20.9	14.0	1
	50-99	5,083.6	41.8	22.9	1
	100-249	8,424.1	38.3	22.3	1
	250-499	6,545.9	36.3	22.8	1
	500-999	5,520.9	36.6	22.3	1
	1000 and Over	0.0	0.0	0.0	0
	Total	6,783.2	36.9	22.5	1
327213	**Glass Containers**				
	Employment Size				
	Under 50	0.0	0.0	0.0	0
	50-99	0.0	0.0	0.0	0
	100-249	4,703.6	24.6	14.7	1
	250-499	4,135.1	23.8	15.2	1
	500-999	2,941.6	32.4	15.9	1
	1000 and Over	0.0	0.0	0.0	0
	Total	4,239.0	24.3	15.1	1
327310	**Cements**				

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Employment Size				
	Under 50	Q	Q	Q	0
	50-99	26,066.7	101.4	58.3	7.7
	100-249	24,525.2	92.8	57.8	1.6
	250-499	34,100.1	145.7	80.6	1
	500-999	0.0	0.0	0.0	0
	1000 and Over	0.0	0.0	0.0	0
	Total	24,086.5	95.5	56.0	3.2
327410	**Lime**				
	Employment Size				
	Under 50	47,374.2	262.3	130.0	1
	50-99	25,329.1	158.0	91.3	1
	100-249	17,607.1	176.6	84.8	1
	250-499	0.0	0.0	0.0	0
	500-999	19,647.3	156.7	114.6	1
	1000 and Over	0.0	0.0	0.0	0
	Total	25,007.2	189.6	101.9	1
327993	**Mineral Wool**				
	Employment Size				
	Under 50	538.1	6.6	3.5	38.5
	50-99	Q	Q	Q	0
	100-249	4,459.9	23.9	15.0	1.3
	250-499	2,746.0	17.5	10.5	4.9
	500-999	3,337.2	19.8	13.3	1
	1000 and Over	0.0	0.0	0.0	0
	Total	2,400.9	18.0	10.8	9
331	**PRIMARY METALS**				
	Employment Size				
	Under 50	931.1	10.7	4.5	13.3
	50-99	1,148.6	13.3	4.9	9.9
	100-249	1,127.7	11.3	4.5	5.9
	250-499	2,602.7	20.3	8.5	4.6
	500-999	4,245.0	28.0	11.0	2
	1000 and Over	10,737.9	76.3	33.8	1
	Total	4,170.7	34.6	14.2	2.3
331111	**Iron and Steel Mills**				
	Employment Size				
	Under 50	3,552.0	40.3	18.6	47.3
	50-99	1,220.4	Q	4.4	31.6
	100-249	1,410.2	14.1	4.7	35
	250-499	4,935.1	22.2	9.7	8.8
	500-999	7,840.7	35.3	12.0	1
	1000 and Over	15,979.6	101.3	45.3	1
	Total	11,293.6	66.5	27.8	3.6
331112	**Electrometallurgical Ferroalloy Products**				
	Employment Size				
	Under 50	6,272.0	77.5	25.0	1

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	50-99	9,266.4	65.6	28.1	1
	100-249	10,588.2	117.2	28.5	5.2
	250-499	0.0	0.0	0.0	0
	500-999	1,132.9	7.8	2.7	1
	1000 and Over	0.0	0.0	0.0	0
	Total	5,583.6	46.1	14.3	2.1
3312	**Steel Products from Purchased Steel**				
	Employment Size				
	Under 50	821.0	5.4	1.4	27.7
	50-99	684.7	6.3	2.2	15.7
	100-249	739.3	7.1	2.7	9.3
	250-499	1,150.3	8.9	3.3	7.5
	500-999	1,047.6	7.2	2.2	2.3
	1000 and Over	0.0	0.0	0.0	0
	Total	871.3	7.4	2.6	5.3
3313	**Alumina and Aluminum**				
	Employment Size				
	Under 50	Q	7.9	3.2	33.7
	50-99	1,502.1	21.7	6.1	32.9
	100-249	1,503.8	14.5	4.5	14.8
	250-499	5,375.8	49.3	17.8	10.6
	500-999	10,244.6	48.3	18.8	1.4
	1000 and Over	6,156.4	36.4	13.9	1
	Total	4,496.8	34.3	12.2	5.8
331312	**Primary Aluminum**				
	Employment Size				
	Under 50	Q	Q	Q	0
	50-99	0.0	0.0	0.0	0
	100-249	12,943.1	30.5	22.8	1
	250-499	21,423.3	167.7	44.1	1
	500-999	16,775.3	121.2	39.3	1
	1000 and Over	14,200.6	97.6	37.4	1
	Total	16,159.7	112.3	38.5	2.3
3314	**Nonferrous Metals, except Aluminum**				
	Employment Size				
	Under 50	682.4	5.6	2.2	34
	50-99	1,353.1	12.6	3.3	17.5
	100-249	1,099.8	9.6	3.2	14.3
	250-499	1,629.9	14.4	4.4	5.4
	500-999	1,883.8	19.2	7.7	15.9
	1000 and Over	1,834.4	14.0	7.5	1
	Total	1,373.1	12.0	4.1	7
3315	**Foundries**				
	Employment Size				
	Under 50	338.5	5.1	2.7	14.4
	50-99	916.7	12.0	6.7	12.6
	100-249	732.1	8.4	5.2	4.9
	250-499	1,117.1	12.9	7.0	3.6

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	500-999	906.2	9.1	5.1	1
	1000 and Over	1,091.9	13.4	6.3	1
	Total	866.3	10.3	5.6	3
331511	**Iron Foundries**				
	Employment Size				
	Under 50	444.4	8.3	Q	22.5
	50-99	1,631.7	23.9	13.4	17.3
	100-249	947.0	11.2	7.2	5.9
	250-499	1,378.9	15.3	8.5	5.9
	500-999	1,363.5	13.4	7.6	1
	1000 and Over	1,193.5	17.3	7.2	1
	Total	1,224.5	15.0	7.7	3.6
331521	**Aluminum Die-Casting Foundries**				
	Employment Size				
	Under 50	303.7	7.3	2.4	38.2
	50-99	646.8	7.0	4.0	34.3
	100-249	686.7	7.7	4.4	6.6
	250-499	866.2	9.8	5.1	1
	500-999	741.5	7.7	3.6	1
	1000 and Over	1,608.5	18.8	7.1	1
	Total	814.2	9.5	4.7	7
331524	**Aluminum Foundries, except Die-Casting**				
	Employment Size				
	Under 50	352.2	5.1	3.6	11.3
	50-99	508.0	8.2	5.1	9
	100-249	562.0	6.4	4.1	17.9
	250-499	675.0	9.3	5.0	1.6
	500-999	877.7	8.2	4.6	1
	1000 and Over	915.1	9.1	5.5	1
	Total	642.8	7.6	4.5	5.2
332	**FABRICATED METAL PRODUCTS**				
	Employment Size				
	Under 50	173.5	2.0	1.3	8.4
	50-99	218.3	2.7	1.4	12.7
	100-249	241.3	2.8	1.5	12.7
	250-499	546.0	6.9	3.5	23.3
	500-999	265.4	2.9	1.7	26.7
	1000 and Over	297.3	2.9	1.4	27.6
	Total	258.4	3.0	1.7	6.3
333	**MACHINERY**				
	Employment Size				
	Under 50	90.3	1.2	0.7	10.9
	50-99	124.5	1.5	0.8	18.3
	100-249	148.9	1.3	0.7	15.6
	250-499	199.5	1.7	0.7	18.6
	500-999	150.8	1.4	0.6	18
	1000 and Over	231.4	1.4	0.6	12.6
	Total	157.5	1.4	0.7	7

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
334	**COMPUTER AND ELECTRONIC PRODUCTS**				
	Employment Size				
	Under 50	100.5	0.9	0.6	16.5
	50-99	258.7	2.8	1.4	21
	100-249	85.3	0.9	0.5	16.3
	250-499	153.0	1.2	0.5	16
	500-999	138.9	0.8	0.4	25.9
	1000 and Over	145.2	0.7	0.4	6.2
	Total	141.1	0.9	0.5	7.3
334413	**Semiconductors and Related Devices**				
	Employment Size				
	Under 50	Q	Q	Q	0
	50-99	Q	Q	Q	0
	100-249	265.1	3.0	1.6	21.7
	250-499	472.9	4.1	2.8	13
	500-999	378.8	1.2	0.8	10.9
	1000 and Over	375.4	1.1	0.9	1.3
	Total	387.7	1.3	1.0	4.1
335	**ELEC. EQUIP., APPLIANCES, COMPONENTS**				
	Employment Size				
	Under 50	129.5	1.4	0.7	26.9
	50-99	221.0	2.7	1.2	24.9
	100-249	258.0	2.6	1.3	13.3
	250-499	241.9	1.8	1.1	14
	500-999	169.5	1.3	0.7	14.6
	1000 and Over	186.2	1.6	0.8	10
	Total	211.2	1.9	1.0	6.3
336	**TRANSPORTATION EQUIPMENT**				
	Employment Size				
	Under 50	156.9	2.0	1.0	14.7
	50-99	158.9	2.1	1.1	27.3
	100-249	211.8	2.1	1.1	18.3
	250-499	282.6	2.4	1.0	14.7
	500-999	361.8	2.4	1.2	15.3
	1000 and Over	292.9	1.5	0.6	4.8
	Total	278.6	1.8	0.7	4.6
336112	**Light Trucks and Utility Vehicles**				
	Employment Size				
	Under 50	54.7	0.5	0.1	1
	50-99	0.0	0.0	0.0	0
	100-249	219.1	0.0	1.3	1
	250-499	0.0	0.0	0.0	0
	500-999	0.0	0.0	0.0	0
	1000 and Over	619.6	1.5	0.4	1
	Total	618.0	1.5	0.4	1
337	**FURNITURE AND RELATED PRODUCTS**				

Table 6.4 Consumption Ratios of Fuel, 2002;
Level: National Data;
Row: Employment Sizes within NAICS Codes;
Column: Energy-Consumption Ratios;
Unit: Varies.

NAICS Code(a)	Economic Characteristic(b)	Consumption per Employee (million Btu)	Consumption per Dollar of Value Added (thousand Btu)	Consumption per Dollar of Value of Shipments (thousand Btu)	RSE Row Factors
	Employment Size				
	Under 50	61.8	1.0	0.6	10.7
	50-99	60.8	0.9	0.5	22.3
	100-249	109.6	1.7	1.0	15
	250-499	131.7	1.6	0.9	17.6
	500-999	149.2	1.8	1.0	21.2
	1000 and Over	208.5	2.5	1.4	12.5
	Total	113.7	1.6	0.9	7
339	**MISCELLANEOUS**				
	Employment Size				
	Under 50	68.1	1.0	0.6	10.9
	50-99	56.1	0.6	0.4	23.9
	100-249	109.9	0.9	0.5	19.6
	250-499	131.6	1.2	0.7	15.9
	500-999	148.2	0.9	0.6	13.7
	1000 and Over	111.7	0.6	0.4	8.6
	Total	101.5	0.9	0.6	6.3

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) 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.
Operating ratios were calculated using the estimates of fuel consumption reported in Table N3.2.
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.'

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL (million Btu)	Acetylene (cu ft)	Breeze (short tons)	Coal Total (short tons)	Anthracite (short tons)	Bituminous and Subbituminous Coal (short tons)	Lignite (short tons)	Coal Coke (short tons)	Petroleum Coke (gallons)
	Total United States									
	RSE Column Factors:	1.1	2.1	0.6	1	0.6	0.9	1.4	0.7	0.9
311	Food	6.42	0.17	0	32.31	W	32.28	0	128.39	0
311221	Wet Corn Milling	3.11	0.16	0	29.3	0	29.3	0	0	0
31131	Sugar	3.14	0.12	0	36.51	W	36.4	0	128.39	0
311421	Fruit and Vegetable Canning	7.09	0.15	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	7.53	0.19	0	51.41	0	51.41	0	0	0
3121	Beverages	7.96	0.19	0	46.52	0	46.52	0	0	0
3122	Tobacco	5.75	0.17	0	55.29	0	55.29	0	0	0
313	Textile Mills	7.73	0.18	0	50.42	0	50.42	0	0	0
314	Textile Product Mills	7.38	Q	0	W	W	Q	0	0	0
315	Apparel	11.16	0.29	0	0	0	0	0	0	0
316	Leather and Allied Products	9.66	0.17	0	0	0	0	0	0	0
321	Wood Products	3.95	0.15	0	W	0	W	0	W	0
321113	Sawmills	6.22	0.15	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	2.36	0.14	0	W	0	W	0	W	0
3219	Other Wood Products	11.25	0.17	0	0	0	0	0	0	0
322	Paper	4.78	0.12	0	43.68	W	43.44	0	W	0.21
322110	Pulp Mills	3.88	W	0	0	0	W	0	0	W
322121	Paper Mills, except Newsprint	4.33	Q	0	42.35	0	42.35	0	W	0.21
322122	Newsprint Mills	6.49	0.12	0	45	0	45	0	0	0
322130	Paperboard Mills	4.11	0.13	0	46.61	W	46.09	0	0	W
323	Printing and Related Support	12.54	0.24	0	0	0	0	0	0	0
324	Petroleum and Coal Products	3.97	Q	W	Q	W	Q	0	W	0.33
324110	Petroleum Refineries	4.59	W	0	W	0	W	0	0	0
324199	Other Petroleum and Coal Products	1.9	0.12	W	Q	W	W	0	W	0.33
325	Chemicals	5.03	Q	W	44.53	65.46	41.71	W	W	0.44
325110	Petrochemicals	5.34	0	0	W	0	W	0	0	0
325120	Industrial Gases	4.44	W	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	5.03	0.14	0	33.7	0	33.7	0	0	0
325182	Carbon Black	3.69	W	0	0	0	0	0	0	W
325188	Other Basic Inorganic Chemicals	5.87	0.17	0	25.22	0	25.22	0	W	W
325192	Cyclic Crudes and Intermediates	5.19	W	0	W	0	W	0	0	0
325193	Ethyl Alcohol	3.71	W	0	36.77	W	37.93	0	0	0
325199	Other Basic Organic Chemicals	5.03	Q	0	Q	0	Q	0	0	0
325211	Plastics Materials and Resins	4.94	W	0	W	0	48.25	0	W	0
325212	Synthetic Rubber	5.56	W	0	41.93	0	W	0	0	0
325222	Noncellulosic Organic Fibers	5.39	0.14	0	W	0	W	0	0	0
325311	Nitrogenous Fertilizers	3.27	0.14	0	193.98	0	0	W	0	0
325312	Phosphatic Fertilizers	5.05	W	0	50.81	0	0	W	W	0
3254	Pharmaceuticals and Medicines	8.29	W	0	40.88	0	40.88	0	0	0
325412	Pharmaceutical Preparation	8.3	W	0	40.88	0	40.88	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	5.59	W	0	W	0	W	0	0	0
326	Plastics and Rubber Products	10.9	0.16	0	W	W	W	0	0	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity Components: Electricity from Local Utility(b) (kWh)	Electricity Components: Electricity from Sources Other than Local Utility(c) (kWh)	Total Diesel Fuel and Distillate Fuel Oil (gallons)	Diesel Fuel (gallons)	Distillate Fuel Oil (gallons)	Residual Fuel Oil (gallons)
	RSE Column Factors:	1	1.1	1.5	1.8	1.7	1.6	1.4
311	Food	W	0.054	0.066	0.98	1.02	0.86	0.64
311221	Wet Corn Milling	W	0.036	0.037	0.88	0.87	W	0.66
31131	Sugar	0.053	0.053	0.052	1.14	0.96	W	0.71
311421	Fruit and Vegetable Canning	0.07	0.07	0.068	0.81	0.95	Q	0.67
312	Beverage and Tobacco Products	0.061	0.061	0.053	1.35	Q	0.84	0.69
3121	Beverages	0.063	0.065	0.053	Q	Q	0.89	0.64
3122	Tobacco	0.047	0.047	0	0.82	W	0.8	0.74
313	Textile Mills	0.044	0.043	0.05	0.93	1.23	W	0.73
314	Textile Product Mills	0.054	0.054	0.053	Q	1.17	Q	W
315	Apparel	0.067	0.067	0.083	0.93	Q	Q	0.75
316	Leather and Allied Products	0.068	0.068	0.073	0.81	W	0.8	0.58
321	Wood Products	0.057	0.057	0.053	0.97	0.98	0.95	W
321113	Sawmills	0.06	0.06	0.061	1.03	1.04	0.94	0.58
3212	Veneer, Plywood, and Engineered Woods	0.048	0.048	0.046	0.96	0.96	0.91	W
3219	Other Wood Products	0.068	0.068	0.071	1.08	1.08	1.06	Q
322	Paper	W	0.043	0.045	0.71	0.98	0.65	0.55
322110	Pulp Mills	W	0.04	0.048	0.6	0.93	W	0.56
322121	Paper Mills, except Newsprint	0.04	0.04	0.043	0.8	1.01	0.74	0.58
322122	Newsprint Mills	0.037	0.037	W	0.98	1.01	W	0.66
322130	Paperboard Mills	W	0.04	0.041	0.72	0.94	0.64	0.5
323	Printing and Related Support	0.067	0.067	0.071	0.87	Q	0.86	Q
324	Petroleum and Coal Products	0.045	0.047	0.039	0.84	0.9	0.77	0.48
324110	Petroleum Refineries	0.043	0.044	0.038	0.99	W	0	0
324199	Other Petroleum and Coal Products	0.052	0.052	0	0.85	0.84	W	0.47
325	Chemicals	0.04	0.04	0.038	0.85	0.87	0.83	0.54
325110	Petrochemicals	W	0.037	0.038	W	W	W	W
325120	Industrial Gases	W	0.035	0.039	W	W	W	0
325181	Alkalies and Chlorine	0.03	0.031	W	0.86	1.08	W	Q
325182	Carbon Black	0.046	0.046	0	1.13	1.13	0	0.52
325188	Other Basic Inorganic Chemicals	W	0.029	0.033	0.93	0.88	1	W
325192	Cyclic Crudes and Intermediates	0.035	0.041	W	1.11	1.29	W	0.55
325193	Ethyl Alcohol	0.04	0.041	0.031	0.9	1.14	W	0
325199	Other Basic Organic Chemicals	W	0.039	0.036	0.89	1.05	0.79	0.62
325211	Plastics Materials and Resins	W	0.042	0.039	0.86	1	0.76	0.7
325212	Synthetic Rubber	0.047	0.044	0.067	0.78	0.81	W	0.66
325222	Noncellulosic Organic Fibers	0.038	0.038	0.036	0.86	0.97	0.83	W
325311	Nitrogenous Fertilizers	0.041	0.041	0.062	0.87	0.89	W	0
325312	Phosphatic Fertilizers	0.044	0.049	0.036	0.83	0.77	W	0.57
3254	Pharmaceuticals and Medicines	0.057	0.056	0.061	0.83	1.13	0.78	0.59
325412	Pharmaceutical Preparation	0.055	0.054	0.061	0.81	1.09	0.79	0.56
325992	Photographic Film, Paper, Plate, and Chemicals	W	0.056	0.06	0.71	W	Q	W
326	Plastics and Rubber Products	0.056	0.056	0.061	0.92	1.11	0.88	0.58

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas (million Btu)	Coke Oven Gas (million Btu)	Motor Gasoline (excluding Highway Usage) (gallons)	Hydrogen (million Btu)	Kerosene (gallons)	Pulping Liquor or Black Liquor (million Btu)	LPG and NGL(d) (gallons)	Natural Gas Total (1000 cu ft)
	RSE Column Factors:	0	0.4	1.9	0.7	1.1	0.6	1.8	1.1
311	Food	0	0	Q	Q	Q	0	0.72	4.5
311221	Wet Corn Milling	0	0	1.02	0	W	0	1.03	3.99
31131	Sugar	0	0	1.49	0	W	0	0.96	3.89
311421	Fruit and Vegetable Canning	0	0	1.21	W	W	0	Q	4.81
312	Beverage and Tobacco Products	0	0	1.45	W	Q	0	0.79	4.51
3121	Beverages	0	0	1.47	*	Q	0	0.79	4.46
3122	Tobacco	0	0	1.27	W	W	0	0.8	5.08
313	Textile Mills	0	0	1.52	W	0	0	0.8	4.73
314	Textile Product Mills	0	0	Q	W	W	0	0.78	4.58
315	Apparel	0	0	1.51	0	W	0	1.04	5.34
316	Leather and Allied Products	0	0	Q	0	W	0	0.92	4.7
321	Wood Products	0	0	1.32	W	Q	0	0.8	4.87
321113	Sawmills	0	0	1.25	W	1.62	0	0.73	4.63
3212	Veneer, Plywood, and Engineered Woods	0	0	1.31	0	Q	0	0.74	4.78
3219	Other Wood Products	0	0	1.56	0	Q	0	0.93	5.47
322	Paper	0	0	1.21	3	0.87	2.17	0.82	4.26
322110	Pulp Mills	0	0	1.37	0	W	W	W	4
322121	Paper Mills, except Newsprint	0	0	1.18	42.88	0.85	0	0.72	4.26
322122	Newsprint Mills	0	0	1.13	0	W	W	0.86	4.03
322130	Paperboard Mills	0	0	1.24	1.61	1.36	W	0.86	4.11
323	Printing and Related Support	0	0	1.36	W	W	0	1.01	5.12
324	Petroleum and Coal Products	0	0	1.19	5.24	Q	W	0.61	3.52
324110	Petroleum Refineries	0	0	0	5.24	0	0	1.13	3.44
324199	Other Petroleum and Coal Products	0	0	1.41	0	1.15	0	1.2	4.03
325	Chemicals	0	0	1.14	1.28	W	W	0.49	3.46
325110	Petrochemicals	0	0	1	8.29	W	0	0.5	3.51
325120	Industrial Gases	0	0	W	W	W	0	W	3.69
325181	Alkalies and Chlorine	0	0	1.56	W	W	0	W	3.53
325182	Carbon Black	0	0	1.27	0	W	W	1.04	3.28
325188	Other Basic Inorganic Chemicals	0	0	1.11	5.13	1.78	0	0.57	4.15
325192	Cyclic Crudes and Intermediates	0	0	1.18	6.18	0	0	0.51	3.86
325193	Ethyl Alcohol	0	0	W	0	0	0	0.71	3.67
325199	Other Basic Organic Chemicals	0	0	1.16	6.26	W	0	0.6	3.47
325211	Plastics Materials and Resins	0	0	1.28	2.47	W	0	0.43	2.96
325212	Synthetic Rubber	0	0	1.37	34.35	W	0	0.93	3.48
325222	Noncellulosic Organic Fibers	0	0	1.44	W	1.26	0	0.78	3.86
325311	Nitrogenous Fertilizers	0	0	1.39	W	W	0	1.35	3.13
325312	Phosphatic Fertilizers	0	0	1.3	0	0	0	0.97	3.44
3254	Pharmaceuticals and Medicines	0	0	Q	11.66	Q	0	Q	4.66
325412	Pharmaceutical Preparation	0	0	Q	35.31	W	0	1.08	4.66
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	W	W	W	0	0.97	5.24
326	Plastics and Rubber Products	0	0	1.2	Q	Q	0	0.97	5.12

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	Waste Gases and Byproduct Gases (million Btu)	Waste Oils and Tars (million Btu)	Industrial Hot Water Total (million Btu)
	RSE Column Factors:	1.6	1.1	1.4	0.7	1.3	0.9	0.8	1.3
311	Food	4.81	4.27	4.07	3.99	4.12	0	3.72	W
311221	Wet Corn Milling	4.51	3.94	3.32	3.63	2	0	0	0
31131	Sugar	3.96	3.86	3.02	0	3.02	0	0	0
311421	Fruit and Vegetable Canning	4.6	4.9	5.59	0	5.59	0	W	0
312	Beverage and Tobacco Products	4.82	4.3	4.55	0	4.55	0	0	0
3121	Beverages	4.76	4.27	4.55	0	4.55	0	0	0
3122	Tobacco	5.31	4.82	0	0	0	0	0	0
313	Textile Mills	4.72	4.76	4.25	W	4.15	0	0	0
314	Textile Product Mills	4.58	4.58	0	0	0	0	0	W
315	Apparel	5.41	5.08	0	0	0	0	0	0
316	Leather and Allied Products	5.88	4.31	3.51	0	3.51	0	0	0
321	Wood Products	5.12	4.48	3.84	4.32	3.82	0	W	W
321113	Sawmills	4.71	4.5	4.63	0	4.63	0	W	0
3212	Veneer, Plywood, and Engineered Woods	5.03	4.47	3.89	4.32	3.86	0	0	0
3219	Other Wood Products	5.56	5.05	3.29	0	3.29	0	W	W
322	Paper	4.63	4.16	4.64	4.04	4.89	0	3.21	W
322110	Pulp Mills	5.13	3.68	5.79	0	5.79	0	0	0
322121	Paper Mills, except Newsprint	4.44	4.23	4.93	3.33	4.93	0	3.33	W
322122	Newsprint Mills	4.17	3.98	5.46	W	5.63	0	0	0
322130	Paperboard Mills	4.4	4.07	4.17	3.98	4.44	0	3	W
323	Printing and Related Support	5.08	5.17	Q	4.79	Q	0	0	0
324	Petroleum and Coal Products	3.76	3.49	4.24	7.25	4.09	W	Q	W
324110	Petroleum Refineries	3.48	3.44	4.24	7.25	4.09	0	0	W
324199	Other Petroleum and Coal Products	4.09	3.96	2.21	0	2.21	W	0	0
325	Chemicals	4.12	3.37	4.05	4.25	4.03	3.94	3.54	Q
325110	Petrochemicals	4.59	3.49	W	0	W	0	0	0
325120	Industrial Gases	3.61	3.71	Q	4.22	Q	0	0	0
325181	Alkalies and Chlorine	4.13	3.47	4.36	W	5.9	0	0	0
325182	Carbon Black	3.14	3.52	0	0	0	0	W	0
325188	Other Basic Inorganic Chemicals	4.27	4.13	5.49	6.53	4.92	W	W	0
325192	Cyclic Crudes and Intermediates	3.89	3.83	4.44	0	4.44	W	W	0
325193	Ethyl Alcohol	3.93	3.55	4.55	5.35	Q	0	0	0
325199	Other Basic Organic Chemicals	3.74	3.45	3.75	3.42	3.79	3.98	W	0
325211	Plastics Materials and Resins	4.28	2.79	4.71	5.13	4.67	W	0	W
325212	Synthetic Rubber	3.52	3.48	5.32	0	5.32	0	0	W
325222	Noncellulosic Organic Fibers	4.3	3.62	4.39	0	4.39	W	0	W
325311	Nitrogenous Fertilizers	3.91	3.13	6.12	0	6.12	0	0	0
325312	Phosphatic Fertilizers	3.79	3.35	5.98	0	5.98	0	0	0
3254	Pharmaceuticals and Medicines	4.67	4.64	5.51	21.32	4.92	0	0	W
325412	Pharmaceutical Preparation	4.68	4.64	5.65	23.31	4.86	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	6.01	4.94	0	0	0	0	0	0
326	Plastics and Rubber Products	5.15	5.08	2.91	3.25	2.57	W	0	W

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Biomass Total(e) (million Btu)	Selected Wood and Other Biomass Components: Agricultural Waste (million Btu)	Wood Harvested Directly from Trees (million Btu)	Wood Residues and Byproducts from Mill Processing (million Btu)	Wood-Related and Paper-Related Refuse (million Btu)	All Other Energy Sources (million Btu)	RSE Row Factors
	RSE Column Factors:	0.9	0.4	0.6	0.6	1.2	1	
311	Food	3.9	W	W	W	W	W	6.4
311221	Wet Corn Milling	W	0	W	W	W	0	0.9
31131	Sugar	0	0	0	0	0	0	0.8
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	5.2
312	Beverage and Tobacco Products	W	0	0	W	W	0	2.9
3121	Beverages	W	0	0	W	W	0	3.6
3122	Tobacco	0	0	0	0	0	0	0.8
313	Textile Mills	W	0	0	W	W	W	11.1
314	Textile Product Mills	W	0	0	W	0	0	11.7
315	Apparel	0	0	0	0	0	0	20
316	Leather and Allied Products	0	0	0	0	0	W	5.6
321	Wood Products	1.27	W	4.37	0.42	2.56	W	4.2
321113	Sawmills	2.09	W	W	1.83	0	0	7.2
3212	Veneer, Plywood, and Engineered Woods	0.79	W	4.78	0.27	3.34	0	3.2
3219	Other Wood Products	8.66	0	20.21	2.62	W	W	12.9
322	Paper	2.41	1.22	1.97	1.52	8.53	2.23	2.2
322110	Pulp Mills	1.63	0	0	1.61	W	W	0.9
322121	Paper Mills, except Newsprint	2.33	W	2.2	1.42	16.33	W	1.8
322122	Newsprint Mills	3.25	W	W	2.04	W	W	0.9
322130	Paperboard Mills	2.35	W	W	1.55	6.45	1.66	2.5
323	Printing and Related Support	0	0	0	0	0	0	7.3
324	Petroleum and Coal Products	W	0	0	W	W	W	4.8
324110	Petroleum Refineries	0	0	0	0	0	W	2.2
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	1.4
325	Chemicals	2.3	0	W	W	W	1.42	5.1
325110	Petrochemicals	0	0	0	0	0	0	0.8
325120	Industrial Gases	0	0	0	0	0	0	2.7
325181	Alkalies and Chlorine	0	0	0	0	0	0	1.1
325182	Carbon Black	0	0	0	0	0	0	0.8
325188	Other Basic Inorganic Chemicals	W	0	0	W	0	W	2
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0.8
325193	Ethyl Alcohol	0	0	0	0	0	0	2.3
325199	Other Basic Organic Chemicals	0	0	0	0	0	W	5.7
325211	Plastics Materials and Resins	W	0	0	0	W	W	3.1
325212	Synthetic Rubber	0	0	0	0	0	0	3.5
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	1
325311	Nitrogenous Fertilizers	0	0	0	0	0	W	0.8
325312	Phosphatic Fertilizers	0	0	0	0	0	W	0.8
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	3.6
325412	Pharmaceutical Preparation	0	0	0	0	0	0	5.2
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	W	W	W	0	2.9
326	Plastics and Rubber Products	Q	0	0	0	Q	W	10.7

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL (million Btu)	Acetylene (cu ft)	Breeze (short tons)	Coal Total (short tons)	Anthracite (short tons)	Bituminous and Subbituminous Coal (short tons)	Lignite (short tons)	Coal Coke (short tons)	Petroleum Coke (gallons)
327	Nonmetallic Mineral Products	4.66	0.16	W	38.51	W	38.38	W	48.57	0.14
3272	Glass and Glass Products	6.12	0.13	0	W	W	0	0	0	0
327211	Flat Glass	4.84	0.19	0	W	W	0	0	0	0
327213	Glass Containers	6.07	W	0	0	0	0	0	0	0
327310	Cements	2.96	0.19	W	37.89	W	37.82	0	W	0.13
327410	Lime	2.28	0.13	0	39.14	0	39.09	W	W	0.15
327993	Mineral Wool	6.2	0.21	0	0	0	0	0	122.68	0
331	Primary Metals	4.94	0.1	72.69	51.26	102.06	50.5	W	115.51	0.17
331111	Iron and Steel Mills	4.18	0.08	77.01	50.99	101.87	50.38	0	111.31	0.39
331112	Electrometallurgical Ferroalloy Products	6.04	W	0	58.74	0	58.74	0	W	W
3312	Steel Products from Purchased Steel	7.73	0.12	W	52.63	W	W	0	0	0
3313	Alumina and Aluminum	5.38	0.13	0	W	W	0	0	W	0.16
331312	Primary Aluminum	5.15	0.11	0	W	W	0	0	0	0.16
3314	Nonferrous Metals, except Aluminum	6.99	0.13	W	47.01	W	47.27	0	104.04	0.15
3315	Foundries	8.34	0.15	W	100.05	W	77.76	W	180.32	0.19
331511	Iron Foundries	8.36	0.12	W	W	W	76.17	0	180.32	0.19
331521	Aluminum Die-Casting Foundries	7.46	0.16	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	7.36	0.17	0	0	0	0	0	0	0
332	Fabricated Metal Products	10.39	0.12	0	123.24	W	0	0	Q	0
333	Machinery	11.38	0.1	0	33	0	W	0	0	0
334	Computer and Electronic Products	9.24	Q	0	76.07	W	0	0	0	0
334413	Semiconductors and Related Devices	4.82	0.42	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	6.84	0.15	W	62.93	0	W	0	0	W
336	Transportation Equipment	8.6	0.17	0	49.99	0	49.99	0	W	W
336112	Light Trucks and Utility Vehicles	6.9	W	0	W	0	W	0	0	0
337	Furniture and Related Products	8.82	0.15	0	57.76	W	57.2	0	0	0
339	Miscellaneous	13.26	0.17	0	0	0	0	0	0	0
	Total	5.58	0.07	64.03	44.46	69.54	43.69	W	113.58	0.23
	Northeast Census Region									
	RSE Column Factors:	1.7	1.6	0.5	1	0.8	1	0	0.6	1
311	Food	9.14	Q	0	64.84	0	W	0	0	0
311221	Wet Corn Milling	W	W	0	0	0	0	0	0	0
31131	Sugar	W	W	0	0	0	0	0	0	0
311421	Fruit and Vegetable Canning	8.01	W	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	9.27	0.29	0	0	0	0	0	0	0
3121	Beverages	W	0.29	0	0	0	0	0	0	0
3122	Tobacco	W	0.26	0	0	0	0	0	0	0
313	Textile Mills	8.08	0.21	0	0	0	0	0	0	0
314	Textile Product Mills	9.99	0.15	0	59.68	W	0	0	0	0
315	Apparel	10.01	0	0	0	0	0	0	0	0
316	Leather and Allied Products	10.06	W	0	0	0	0	0	0	0
321	Wood Products	7.57	0.2	0	0	0	0	0	0	0
321113	Sawmills	9.48	0.26	0	0	0	0	0	0	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

			Electricity Components					
NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity from Local Utility(b) (kWh)	Electricity from Sources Other than Local Utility(c) (kWh)	Total Diesel Fuel and Distillate Fuel Oil (gallons)	Diesel Fuel (gallons)	Distillate Fuel Oil (gallons)	Residual Fuel Oil (gallons)
327	Nonmetallic Mineral Products	0.051	0.05	0.059	1.04	1.06	0.82	0.6
3272	Glass and Glass Products	0.048	0.047	0.062	0.88	0.89	0.74	W
327211	Flat Glass	0.046	0.045	0.058	W	W	W	W
327213	Glass Containers	0.05	0.048	0.064	1	W	W	0
327310	Cements	0.044	0.043	0.053	0.87	0.95	0.72	0.52
327410	Lime	0.047	0.047	0	0.87	0.88	0.79	W
327993	Mineral Wool	0.043	0.041	0.055	Q	Q	W	0
331	Primary Metals	W	0.037	0.03	0.66	0.9	0.41	0.64
331111	Iron and Steel Mills	0.035	0.035	0.038	0.56	0.89	0.35	0.64
331112	Electrometallurgical Ferroalloy Products	0.032	0.033	W	1.13	1	W	0
3312	Steel Products from Purchased Steel	0.05	0.049	0.053	1.05	1.18	0.98	0.63
3313	Alumina and Aluminum	W	0.03	0.025	0.91	1	W	W
331312	Primary Aluminum	W	0.025	0.024	1.04	1.04	W	W
3314	Nonferrous Metals, except Aluminum	W	0.044	0.035	0.82	0.82	0.87	0.61
3315	Foundries	0.049	0.049	0.054	0.95	0.97	0.86	Q
331511	Iron Foundries	0.045	0.045	0.052	0.96	0.98	0.85	0
331521	Aluminum Die-Casting Foundries	0.051	0.05	0.065	0.91	0.91	W	W
331524	Aluminum Foundries, except Die-Casting	0.053	0.053	0.052	0.89	1.01	0.8	Q
332	Fabricated Metal Products	0.061	0.06	0.079	0.94	Q	0.95	Q
333	Machinery	0.061	0.061	0.066	1.2	1.15	1.45	0.62
334	Computer and Electronic Products	0.063	0.063	0.062	0.95	1.14	0.93	0.74
334413	Semiconductors and Related Devices	0.054	0.054	0.055	0.9	1.39	W	1
335	Electrical Equip., Appliances, and Components	W	0.056	0.058	0.93	Q	0.84	0.69
336	Transportation Equipment	W	0.051	0.056	1.07	1.16	0.73	0.63
336112	Light Trucks and Utility Vehicles	0.043	0.043	0	W	W	W	W
337	Furniture and Related Products	0.07	0.071	0.058	1.14	1.38	W	Q
339	Miscellaneous	0.071	0.072	0.065	0.98	Q	0.9	W
	Total	0.048	0.049	0.043	0.91	1.01	0.75	0.57
	RSE Column Factors:	1.9	2	2.1	2.7	2	2.7	1.6
311	Food	0.074	0.074	0.081	0.85	0.98	W	0.76
311221	Wet Corn Milling	W	0.08	0	W	W	W	W
31131	Sugar	W	0.104	0	W	W	W	W
311421	Fruit and Vegetable Canning	0.07	0.072	0.049	0.91	1.26	W	W
312	Beverage and Tobacco Products	0.07	0.071	Q	0.93	1.39	0.87	W
3121	Beverages	0.07	0.071	Q	0.9	1.19	W	W
3122	Tobacco	0.072	0.072	0	W	W	W	W
313	Textile Mills	0.076	0.074	0.084	0.93	W	W	W
314	Textile Product Mills	0.069	0.067	0.102	0.73	W	0.72	0.72
315	Apparel	0.075	0.075	Q	Q	0	Q	0
316	Leather and Allied Products	0.094	0.094	Q	0.99	W	0.98	0.58
321	Wood Products	0.083	0.085	0.073	1	1.03	0.92	0.75
321113	Sawmills	0.089	0.088	0.118	0.95	0.98	0.84	0.67

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas (million Btu)	Coke Oven Gas (million Btu)	Motor Gasoline (excluding Highway Usage) (gallons)	Hydrogen (million Btu)	Kerosene (gallons)	Pulping Liquor or Black Liquor (million Btu)	LPG and NGL(d) (gallons)	Natural Gas Total (1000 cu ft)
327	Nonmetallic Mineral Products	0	0	1.28	2.13	1.28	0	0.88	4.32
3272	Glass and Glass Products	0	0	1.26	1.7	1.25	0	0.86	4.25
327211	Flat Glass	0	0	1.42	1.75	2.15	0	1.08	4.14
327213	Glass Containers	0	0	W	0	W	0	0.81	3.96
327310	Cements	0	0	1.11	0	1.43	0	1.21	3.99
327410	Lime	0	0	1.24	0	1.17	0	0.94	3.68
327993	Mineral Wool	0	0	1.16	W	W	0	0.82	4.04
331	Primary Metals	0	W	1.19	5.04	1.47	0	0.77	4.19
331111	Iron and Steel Mills	0	W	1.15	6.92	1.04	0	0.86	4
331112	Electrometallurgical Ferroalloy Products	0	0	1.36	W	W	0	0.86	4.65
3312	Steel Products from Purchased Steel	0	0	1.45	2.34	1.49	0	0.92	4.74
3313	Alumina and Aluminum	0	0	1.16	W	1.8	0	0.86	4.25
331312	Primary Aluminum	0	0	1.1	W	W	0	0.74	3.89
3314	Nonferrous Metals, except Aluminum	0	0	1.24	20.78	1.18	0	0.62	4.46
3315	Foundries	0	0	1.21	4.38	1.45	0	0.85	4.76
331511	Iron Foundries	0	0	1.14	W	1.29	0	W	4.73
331521	Aluminum Die-Casting Foundries	0	0	1.55	W	1.93	0	W	4.59
331524	Aluminum Foundries, except Die-Casting	0	0	1.56	0	1.55	0	0.92	4.72
332	Fabricated Metal Products	0	0	1.33	39.8	1.46	0	1.09	5.05
333	Machinery	0	0	1.41	Q	W	0	0.92	5.43
334	Computer and Electronic Products	0	0	1.47	0.35	Q	0	0.82	5.62
334413	Semiconductors and Related Devices	0	0	1.55	0.14	W	0	0.98	5.32
335	Electrical Equip., Appliances, and Components	0	0	1.43	32.14	1.53	0	0.94	5.04
336	Transportation Equipment	0	0	1.17	Q	W	0	0.81	4.38
336112	Light Trucks and Utility Vehicles	0	0	W	0	W	0	0.84	4.31
337	Furniture and Related Products	0	0	1.33	W	Q	0	0.88	5.29
339	Miscellaneous	0	0	Q	W	Q	0	1.05	5.2
	Total	0	W	1.27	1.84	W	2.82	0.5	4.01
	RSE Column Factors:	0	0	1.9	0.7	1.1	0	2.8	1.7
311	Food	0	0	Q	W	1.44	0	0.88	5.05
311221	Wet Corn Milling	0	0	0	0	0	0	0	0
31131	Sugar	0	0	W	0	0	0	W	W
311421	Fruit and Vegetable Canning	0	0	0	W	W	0	1	4.75
312	Beverage and Tobacco Products	0	0	W	0	W	0	W	5.2
3121	Beverages	0	0	W	0	0	0	W	5.21
3122	Tobacco	0	0	0	0	W	0	0.9	5.02
313	Textile Mills	0	0	0	0	0	0	W	4.09
314	Textile Product Mills	0	0	W	0	0	0	0.69	5.63
315	Apparel	0	0	0	0	0	0	Q	4.2
316	Leather and Allied Products	0	0	W	0	0	0	1	6.07
321	Wood Products	0	0	1.29	0	Q	0	0.79	5.21
321113	Sawmills	0	0	1.27	0	1.13	0	1.01	4.97

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	Waste Gases and Byproduct Gases (million Btu)	Waste Oils and Tars (million Btu)	Industrial Hot Water Total (million Btu)
327	Nonmetallic Mineral Products	4.3	4.32	Q	5.16	Q	W	2.08	W
3272	Glass and Glass Products	4.27	4.22	5.3	5.3	0	0	W	W
327211	Flat Glass	4.28	4.07	0	0	0	0	0	0
327213	Glass Containers	4.08	3.95	0	0	0	0	0	0
327310	Cements	4.03	3.96	3.28	0	3.28	W	1.99	0
327410	Lime	3.57	3.74	0	0	0	W	W	0
327993	Mineral Wool	4.25	3.98	0	0	0	0	0	0
331	Primary Metals	4.64	4.08	3.79	2.58	3.87	0	6.7	W
331111	Iron and Steel Mills	4.37	3.93	3.83	3.85	3.82	0	W	0
331112	Electrometallurgical Ferroalloy Products	5.08	4.63	5.36	0	5.36	0	0	0
3312	Steel Products from Purchased Steel	4.72	4.76	7.5	7.5	0	0	0	0
3313	Alumina and Aluminum	5.18	4.08	3.6	2.31	W	0	W	W
331312	Primary Aluminum	4.34	3.87	W	0	W	0	W	0
3314	Nonferrous Metals, except Aluminum	4.36	4.53	6.23	0	6.23	0	0	0
3315	Foundries	4.95	4.65	7.29	10.33	7.28	0	W	W
331511	Iron Foundries	4.61	4.81	7.28	0	7.28	0	W	0
331521	Aluminum Die-Casting Foundries	5.21	4.37	0	0	0	0	W	0
331524	Aluminum Foundries, except Die-Casting	4.87	4.63	0	0	0	0	0	W
332	Fabricated Metal Products	5.18	4.82	Q	Q	Q	0	0	W
333	Machinery	5.76	5.08	6.03	5.61	Q	W	W	0
334	Computer and Electronic Products	6.18	4.69	4.02	6.46	3.21	0	0	W
334413	Semiconductors and Related Devices	5.61	4.88	Q	11.77	Q	0	0	0
335	Electrical Equip., Appliances, and Components	5.28	4.78	4.74	5.58	3.2	0	0	0
336	Transportation Equipment	4.37	4.38	6.25	7.91	5.71	W	W	W
336112	Light Trucks and Utility Vehicles	4.74	4.13	8.71	0	8.71	W	0	0
337	Furniture and Related Products	5.3	5.27	1.95	0	1.95	W	0	0
339	Miscellaneous	5.21	5.17	4.75	19.42	4.04	0	0	W
	Total	4.68	3.79	4.17	4.42	4.14	3.68	4	0.8
	RSE Column Factors:	2.8	1.4	0.8	0.7	0.8	0.3	0.8	0.3
311	Food	5.41	4.78	Q	Q	Q	0	W	W
311221	Wet Corn Milling	0	0	0	0	0	0	0	0
31131	Sugar	3.39	W	0	0	0	0	0	0
311421	Fruit and Vegetable Canning	4.86	4.64	3.78	0	3.78	0	W	0
312	Beverage and Tobacco Products	5.64	5.06	4.87	0	4.87	0	0	0
3121	Beverages	5.75	5.04	4.87	0	4.87	0	0	0
3122	Tobacco	4.45	5.93	0	0	0	0	0	0
313	Textile Mills	3.31	5.45	0	0	0	0	0	0
314	Textile Product Mills	4.94	6.86	0	0	0	0	0	0
315	Apparel	4.1	Q	0	0	0	0	0	0
316	Leather and Allied Products	6.59	5.86	0	0	0	0	0	0
321	Wood Products	5.7	4.79	Q	0	Q	0	0	W
321113	Sawmills	5.32	4.25	0	0	0	0	0	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

			Selected Wood and Other Biomass Components					
NAICS Code(a)	**Subsector and Industry**	**Biomass Total(e) (million Btu)**	**Agricultural Waste (million Btu)**	**Wood Harvested Directly from Trees (million Btu)**	**Wood Residues and Byproducts from Mill Processing (million Btu)**	**Wood-Related and Paper-Related Refuse (million Btu)**	**All Other Energy Sources (million Btu)**	**RSE Row Factors**
327	Nonmetallic Mineral Products	W	W	0	W	W	0.83	4.3
3272	Glass and Glass Products	W	W	0	0	0	W	1.8
327211	Flat Glass	0	0	0	0	0	W	0.8
327213	Glass Containers	W	W	0	0	0	0	0.8
327310	Cements	0	0	0	0	0	0.85	1.7
327410	Lime	0	0	0	0	0	W	0.8
327993	Mineral Wool	W	0	0	0	W	0	1.4
331	Primary Metals	W	W	W	W	W	Q	2.1
331111	Iron and Steel Mills	W	W	0	0	0	0	1.9
331112	Electrometallurgical Ferroalloy Products	W	0	W	W	0	0	2.4
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	7.5
3313	Alumina and Aluminum	0	0	0	0	0	0	1.8
331312	Primary Aluminum	0	0	0	0	0	0	0.9
3314	Nonferrous Metals, except Aluminum	W	0	0	W	W	22.81	3.5
3315	Foundries	2.27	W	W	0	W	W	2.5
331511	Iron Foundries	W	0	0	0	W	W	2.8
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	W	3
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	3.3
332	Fabricated Metal Products	W	0	0	W	W	Q	16.4
333	Machinery	0	0	0	0	0	Q	7.4
334	Computer and Electronic Products	W	0	W	W	W	0	13
334413	Semiconductors and Related Devices	0	0	0	0	0	0	2.3
335	Electrical Equip., Appliances, and Components	W	0	0	W	W	W	13.4
336	Transportation Equipment	0	0	0	0	0	1.76	6.3
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	W	0.8
337	Furniture and Related Products	Q	0	W	Q	0	W	12
339	Miscellaneous	W	0	W	W	0	W	7.4
	Total	1.81	Q	3.23	0.9	7.28	1.42	5.1
	RSE Column Factors:	0.5	0	0.2	0.4	0.4	0.6	
311	Food	W	0	0	W	0	0	9.3
311221	Wet Corn Milling	W	0	0	W	0	0	0.7
31131	Sugar	0	0	0	0	0	0	0.5
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	2.9
312	Beverage and Tobacco Products	0	0	0	0	0	0	3.3
3121	Beverages	0	0	0	0	0	0	3.8
3122	Tobacco	0	0	0	0	0	0	0.5
313	Textile Mills	0	0	0	0	0	0	13.5
314	Textile Product Mills	0	0	0	0	0	0	2.5
315	Apparel	0	0	0	0	0	0	15.2
316	Leather and Allied Products	0	0	0	0	0	W	8.4
321	Wood Products	2.05	0	1.98	W	W	W	5.4
321113	Sawmills	W	0	W	W	0	0	5.5

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL (million Btu)	Acetylene (cu ft)	Breeze (short tons)	Coal Total (short tons)	Anthracite (short tons)	Bituminous and Subbituminous Coal (short tons)	Lignite (short tons)	Coal Coke (short tons)	Petroleum Coke (gallons)
3212	Veneer, Plywood, and Engineered Woods	5.25	0	0	0	0	0	0	0	0
3219	Other Wood Products	7.93	0.16	0	0	0	0	0	0	0
322	Paper	6.13	0.13	0	W	0	41.82	0	0	W
322110	Pulp Mills	W	W	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	5.05	0.13	0	41.21	0	41.21	0	0	W
322122	Newsprint Mills	11.17	0	0	0	0	0	0	0	0
322130	Paperboard Mills	6.06	0.09	0	54.15	0	W	0	0	0
323	Printing and Related Support	13.66	Q	0	0	0	0	0	0	0
324	Petroleum and Coal Products	5.07	W	W	W	W	72.25	0	W	0
324110	Petroleum Refineries	5.85	0	0	W	0	W	0	0	0
324199	Other Petroleum and Coal Products	2.06	0	W	W	W	W	0	W	0
325	Chemicals	8	Q	0	W	0	W	0	0	0
325110	Petrochemicals	W	0	0	0	0	0	0	0	0
325120	Industrial Gases	8.67	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	W	0	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	6.81	0.17	0	0	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	6.3	W	0	0	0	0	0	0	0
325193	Ethyl Alcohol	W	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	6.96	0.2	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	8.87	W	0	0	0	0	0	0	0
325212	Synthetic Rubber	11.42	0	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	W	W	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	7.72	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	8.71	W	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	9.08	W	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	W	0	W	0	0	0
326	Plastics and Rubber Products	13.99	Q	0	W	W	W	0	0	0
327	Nonmetallic Mineral Products	5.54	0.14	0	37.56	W	37.97	0	65.68	0.14
3272	Glass and Glass Products	6.28	0.13	0	W	W	0	0	0	0
327211	Flat Glass	5.64	W	0	W	W	0	0	0	0
327213	Glass Containers	6.43	W	0	0	0	0	0	0	0
327310	Cements	2.86	W	0	W	W	36.44	0	W	0.14
327410	Lime	2.4	W	0	W	0	W	0	0	W
327993	Mineral Wool	6.79	W	0	0	0	0	0	W	0
331	Primary Metals	3.78	0.14	W	48.32	69.08	W	0	119.38	W
331111	Iron and Steel Mills	3.07	0.17	0	48.51	W	W	0	W	W
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	0	W	0	0	W
3312	Steel Products from Purchased Steel	6.01	0.19	W	W	W	0	0	0	0
3313	Alumina and Aluminum	W	W	0	0	0	0	0	0	W
331312	Primary Aluminum	W	0	0	0	0	0	0	0	W
3314	Nonferrous Metals, except Aluminum	6.84	0.1	W	W	W	W	0	W	W
3315	Foundries	9.54	0.15	0	Q	W	W	0	191.92	W
331511	Iron Foundries	9.54	0.13	0	Q	W	W	0	191.92	W
331521	Aluminum Die-Casting Foundries	11.39	0.35	0	0	0	0	0	0	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity Components: Electricity from Local Utility(b) (kWh)	Electricity Components: Electricity from Sources Other than Local Utility(c) (kWh)	Total Diesel Fuel and Distillate Fuel Oil (gallons)	Diesel Fuel (gallons)	Distillate Fuel Oil (gallons)	Residual Fuel Oil (gallons)
3212	Veneer, Plywood, and Engineered Woods	0.062	0.061	0.069	0.78	0.75	0.84	0.76
3219	Other Wood Products	0.089	0.096	0.069	1.16	1.22	1.05	Q
322	Paper	W	0.06	0.053	0.86	1	W	0.61
322110	Pulp Mills	0.069	0	0.069	1.33	W	0	Q
322121	Paper Mills, except Newsprint	W	0.054	0.053	0.84	0.93	0.82	0.6
322122	Newsprint Mills	0.068	0.068	0	1.43	0	W	W
322130	Paperboard Mills	0.059	0.067	0.045	0.95	0.92	0.96	0.63
323	Printing and Related Support	0.08	0.08	0.074	0.97	W	0.97	Q
324	Petroleum and Coal Products	0.058	0.057	0.084	0.91	1.37	0.75	Q
324110	Petroleum Refineries	W	0.052	W	0	0	0	0
324199	Other Petroleum and Coal Products	0.047	0.047	0	1.17	W	W	0.47
325	Chemicals	0.057	0.059	0.05	0.86	1	0.85	0.62
325110	Petrochemicals	W	0.088	0	Q	0	W	0
325120	Industrial Gases	0.036	0.031	0.063	W	W	W	0
325181	Alkalies and Chlorine	W	W	W	W	W	W	Q
325182	Carbon Black	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	0.041	0.061	0.91	0.99	W	0.58
325192	Cyclic Crudes and Intermediates	W	0.049	0.059	W	W	W	W
325193	Ethyl Alcohol	0.109	0.109	0	0	0	0	0
325199	Other Basic Organic Chemicals	0.067	0.069	0.064	0.96	1.36	0.95	0.69
325211	Plastics Materials and Resins	W	0.066	0.05	0.89	0.87	0.9	W
325212	Synthetic Rubber	0.064	0.064	0	1.13	W	0	0
325222	Noncellulosic Organic Fibers	W	0.086	0.05	0	0	0	Q
325311	Nitrogenous Fertilizers	W	0.044	0.084	W	W	W	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0.074	0.075	0.069	1.02	1.06	1	0.59
325412	Pharmaceutical Preparation	0.075	0.077	0.065	1.01	1.09	1.01	W
325992	Photographic Film, Paper, Plate, and Chemicals	W	0.067	0	Q	W	Q	W
326	Plastics and Rubber Products	0.071	0.071	0.066	0.9	Q	W	W
327	Nonmetallic Mineral Products	0.061	0.059	0.072	1.02	1.15	0.83	W
3272	Glass and Glass Products	W	0.049	0.075	0.93	Q	W	0.74
327211	Flat Glass	W	0.051	0.059	W	W	W	0
327213	Glass Containers	W	0.049	0.084	1.19	1.19	W	0
327310	Cements	W	0.047	0.059	1.12	1.26	W	W
327410	Lime	W	0.046	0	W	W	W	0
327993	Mineral Wool	0.045	0.045	0.045	Q	W	W	0
331	Primary Metals	0.04	0.05	0.024	0.84	0.88	0.8	0.63
331111	Iron and Steel Mills	0.045	0.044	0.049	0.84	0.85	0.81	0
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	W	W	0
3312	Steel Products from Purchased Steel	W	0.064	Q	0.9	1.12	W	0.63
3313	Alumina and Aluminum	0.022	0.056	W	W	W	W	W
331312	Primary Aluminum	W	0.09	W	W	W	W	W
3314	Nonferrous Metals, except Aluminum	0.059	0.06	0.057	0.87	0.91	W	0.62
3315	Foundries	W	0.06	0.062	0.88	0.92	0.86	Q
331511	Iron Foundries	0.057	0.057	0.064	0.85	0.82	0.87	0
331521	Aluminum Die-Casting Foundries	W	0.084	0	Q	0	W	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas (million Btu)	Coke Oven Gas (million Btu)	Motor Gasoline (excluding Highway Usage) (gallons)	Hydrogen (million Btu)	Kerosene (gallons)	Pulping Liquor or Black Liquor (million Btu)	LPG and NGL(d) (gallons)	Natural Gas Total (1000 cu ft)
3212	Veneer, Plywood, and Engineered Woods	0	0	1.04	0	W	0	0.65	5.02
3219	Other Wood Products	0	0	1.38	0	1.14	0	0.92	5.51
322	Paper	0	0	1.07	W	1.32	0	0.64	4.71
322110	Pulp Mills	0	0	0	0	0	0	1.7	W
322121	Paper Mills, except Newsprint	0	0	1.06	W	W	0	0.62	4.38
322122	Newsprint Mills	0	0	0	0	0	0	0	0
322130	Paperboard Mills	0	0	W	0	W	0	0.94	4.75
323	Printing and Related Support	0	0	W	0	0	0	1.13	4.86
324	Petroleum and Coal Products	0	0	Q	W	W	0	1.09	4.31
324110	Petroleum Refineries	0	0	0	W	0	0	0	4.09
324199	Other Petroleum and Coal Products	0	0	W	0	W	0	1.22	5.06
325	Chemicals	0	0	Q	12.21	Q	0	0.84	4.99
325110	Petrochemicals	0	0	W	0	0	0	0	W
325120	Industrial Gases	0	0	W	W	0	0	0	W
325181	Alkalies and Chlorine	0	0	W	0	0	0	W	W
325182	Carbon Black	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	0	0	1.3	W	W	0	1.21	5.07
325192	Cyclic Crudes and Intermediates	0	0	W	W	0	0	W	W
325193	Ethyl Alcohol	0	0	W	0	0	0	0	1.08
325199	Other Basic Organic Chemicals	0	0	1.32	W	W	0	1.38	4.84
325211	Plastics Materials and Resins	0	0	1.35	W	0	0	0.82	4.71
325212	Synthetic Rubber	0	0	0	0	0	0	1.28	6.11
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	Q	9.43
325311	Nitrogenous Fertilizers	0	0	W	0	W	0	W	6.22
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	Q	W	W	0	Q	4.53
325412	Pharmaceutical Preparation	0	0	W	W	W	0	0.95	4.51
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	W	W	0	Q	5.76
326	Plastics and Rubber Products	0	0	1.24	W	W	0	W	5.73
327	Nonmetallic Mineral Products	0	0	Q	0.91	1.3	0	0.89	4.89
3272	Glass and Glass Products	0	0	1.39	0.92	W	0	W	4.48
327211	Flat Glass	0	0	W	W	W	0	W	4.52
327213	Glass Containers	0	0	W	0	0	0	0.97	4.14
327310	Cements	0	0	1.42	0	1.16	0	1.2	5.58
327410	Lime	0	0	1.36	0	W	0	0.79	5.44
327993	Mineral Wool	0	0	W	0	0	0	1.04	4.61
331	Primary Metals	0	0	1.07	Q	0.96	0	0.76	4.76
331111	Iron and Steel Mills	0	0	1.33	23.28	W	0	0.83	4.5
331112	Electrometallurgical Ferroalloy Products	0	0	W	0	0	0	W	W
3312	Steel Products from Purchased Steel	0	0	1.34	Q	1.35	0	1	5.04
3313	Alumina and Aluminum	0	0	W	0	W	0	W	W
331312	Primary Aluminum	0	0	0	0	0	0	W	W
3314	Nonferrous Metals, except Aluminum	0	0	1.21	28.72	1.18	0	0.73	W
3315	Foundries	0	0	1.32	W	1.12	0	0.74	5.44
331511	Iron Foundries	0	0	1.31	0	1.12	0	0.75	5.5
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0.78	W

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	Waste Gases and Byproduct Gases (million Btu)	Waste Oils and Tars (million Btu)	Industrial Hot Water Total (million Btu)
3212	Veneer, Plywood, and Engineered Woods	6.32	4.44	0	0	0	0	0	0
3219	Other Wood Products	5.55	5.44	Q	0	Q	0	0	W
322	Paper	5.53	4.51	4.61	8.67	4.53	0	W	0
322110	Pulp Mills	6.62	4.82	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	4.69	4.35	4.53	0	4.53	0	W	0
322122	Newsprint Mills	0	0	0	0	0	0	0	0
322130	Paperboard Mills	4.92	4.69	5.16	8.67	4.5	0	0	0
323	Printing and Related Support	4.4	5.5	0	0	0	0	0	0
324	Petroleum and Coal Products	5	4.24	3.46	0	3.46	0	W	0
324110	Petroleum Refineries	4.75	4.06	3.45	0	3.45	0	0	0
324199	Other Petroleum and Coal Products	5.66	4.59	0	0	0	0	0	0
325	Chemicals	4.93	5.04	4.98	7.57	4.81	W	0	0
325110	Petrochemicals	10	0	0	0	0	0	0	0
325120	Industrial Gases	5.06	21.13	3.28	0	3.28	0	0	0
325181	Alkalies and Chlorine	2.75	4.86	W	0	W	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	5.62	4.92	Q	3.18	Q	0	0	0
325192	Cyclic Crudes and Intermediates	5.05	W	5.79	0	5.79	0	0	0
325193	Ethyl Alcohol	1.08	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	4.9	4.82	3.89	0	3.89	W	0	0
325211	Plastics Materials and Resins	4.41	4.88	4.49	W	4.46	W	0	0
325212	Synthetic Rubber	7.09	W	6.57	0	6.57	0	0	0
325222	Noncellulosic Organic Fibers	9.43	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	6.22	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	4.44	4.68	10.03	23.31	7.67	0	0	0
325412	Pharmaceutical Preparation	4.43	4.61	9.85	23.31	W	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	6.75	5.67	0	0	0	0	0	0
326	Plastics and Rubber Products	5.95	5.59	5.2	0	5.2	0	0	0
327	Nonmetallic Mineral Products	4.6	4.96	Q	0	Q	0	W	0
3272	Glass and Glass Products	4	4.59	0	0	0	0	W	0
327211	Flat Glass	0	4.52	0	0	0	0	0	0
327213	Glass Containers	3.81	4.37	0	0	0	0	0	0
327310	Cements	5.15	6.36	0	0	0	0	W	0
327410	Lime	6.53	5.37	0	0	0	0	0	0
327993	Mineral Wool	6.93	4.35	0	0	0	0	0	0
331	Primary Metals	4.66	4.81	3.8	3.85	3.65	0	0	W
331111	Iron and Steel Mills	4.48	4.51	3.85	3.85	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	6.94	4.89	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	5.1	5.02	0	0	0	0	0	0
3313	Alumina and Aluminum	4.95	4.75	0	0	0	0	0	0
331312	Primary Aluminum	6.26	W	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	5.13	5.25	3.65	0	3.65	0	0	0
3315	Foundries	5.28	5.51	0	0	0	0	0	W
331511	Iron Foundries	6.53	5.45	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	3.88	5.66	0	0	0	0	0	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Biomass Total(e) (million Btu)	Selected Wood and Other Biomass Components: Agricultural Waste (million Btu)	Wood Harvested Directly from Trees (million Btu)	Wood Residues and Byproducts from Mill Processing (million Btu)	Wood-Related and Paper-Related Refuse (million Btu)	All Other Energy Sources (million Btu)	RSE Row Factors
3212	Veneer, Plywood, and Engineered Woods	W	0	W	W	W	0	4.2
3219	Other Wood Products	W	0	W	W	0	W	8.6
322	Paper	2.61	0	W	1.12	W	W	2.7
322110	Pulp Mills	0	0	0	0	0	0	1.8
322121	Paper Mills, except Newsprint	1.62	0	W	1.12	0	W	2.1
322122	Newsprint Mills	0	0	0	0	0	0	0.5
322130	Paperboard Mills	W	0	0	0	W	0	1.6
323	Printing and Related Support	0	0	0	0	0	0	9.5
324	Petroleum and Coal Products	0	0	0	0	0	0	3.3
324110	Petroleum Refineries	0	0	0	0	0	0	1.5
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0.7
325	Chemicals	W	0	0	0	W	0	3.7
325110	Petrochemicals	0	0	0	0	0	0	0.9
325120	Industrial Gases	0	0	0	0	0	0	0.7
325181	Alkalies and Chlorine	0	0	0	0	0	0	0.6
325182	Carbon Black	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	0	0	0	0	0	0	1.8
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0.6
325193	Ethyl Alcohol	0	0	0	0	0	0	0.5
325199	Other Basic Organic Chemicals	0	0	0	0	0	0	3.5
325211	Plastics Materials and Resins	W	0	0	0	W	0	3.8
325212	Synthetic Rubber	0	0	0	0	0	0	0.6
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	2.1
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0.5
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	2.8
325412	Pharmaceutical Preparation	0	0	0	0	0	0	3.7
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	3.1
326	Plastics and Rubber Products	W	0	0	0	W	W	6.5
327	Nonmetallic Mineral Products	0	0	0	0	0	W	4
3272	Glass and Glass Products	0	0	0	0	0	0	1.7
327211	Flat Glass	0	0	0	0	0	0	0.6
327213	Glass Containers	0	0	0	0	0	0	0.5
327310	Cements	0	0	0	0	0	W	0.7
327410	Lime	0	0	0	0	0	0	0.6
327993	Mineral Wool	0	0	0	0	0	0	1.9
331	Primary Metals	W	0	0	W	W	Q	2.1
331111	Iron and Steel Mills	0	0	0	0	0	0	2.4
331112	Electrometallurgical Ferroalloy Products	W	0	0	W	0	0	0.7
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	8.9
3313	Alumina and Aluminum	0	0	0	0	0	0	0.9
331312	Primary Aluminum	0	0	0	0	0	0	0.5
3314	Nonferrous Metals, except Aluminum	W	0	0	0	W	22.81	2.5
3315	Foundries	0	0	0	0	0	W	2.3
331511	Iron Foundries	0	0	0	0	0	0	2.4
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	2.6

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL (million Btu)	Acetylene (cu ft)	Breeze (short tons)	Coal Total (short tons)	Anthracite (short tons)	Bituminous and Subbituminous Coal (short tons)	Lignite (short tons)	Coal Coke (short tons)	Petroleum Coke (gallons)
331524	Aluminum Foundries, except Die-Casting	6.96	0.16	0	0	0	0	0	0	0
332	Fabricated Metal Products	13.43	Q	0	Q	W	0	0	W	0
333	Machinery	12.5	W	0	0	0	0	0	0	0
334	Computer and Electronic Products	15.42	Q	0	76.07	W	0	0	0	0
334413	Semiconductors and Related Devices	12.44	W	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	11.7	Q	0	0	0	0	0	0	0
336	Transportation Equipment	7.47	0.12	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	W	W	0	0	0	0	0	0	0
337	Furniture and Related Products	14.24	0.33	0	0	0	0	0	0	0
339	Miscellaneous	13.95	Q	0	0	0	0	0	0	0
	Total	7.31	0.14	48.84	49.26	46.32	49.29	0	111.71	0.14
	Midwest Census Region									
	RSE Column Factors:	1.1	1.9	0.7	0.6	0.6	0.6	0	0.9	1
311	Food	4.94	0.16	0	W	W	30.38	0	130.21	0
311221	Wet Corn Milling	W	W	0	W	0	27.87	0	0	0
31131	Sugar	2.64	W	0	34.65	W	34.47	0	130.21	0
311421	Fruit and Vegetable Canning	7.28	0.14	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	5.79	0.15	0	45.06	0	45.06	0	0	0
3121	Beverages	W	0.14	0	45.06	0	45.06	0	0	0
3122	Tobacco	W	W	0	0	0	0	0	0	0
313	Textile Mills	10.17	0.16	0	0	0	0	0	0	0
314	Textile Product Mills	11.29	W	0	0	0	0	0	0	0
315	Apparel	12.77	W	0	0	0	0	0	0	0
316	Leather and Allied Products	8.21	0.16	0	0	0	0	0	0	0
321	Wood Products	4.74	0.21	0	W	0	W	0	W	0
321113	Sawmills	12.4	0.31	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	2.68	0.17	0	W	0	W	0	W	0
3219	Other Wood Products	10.57	0.19	0	0	0	0	0	0	0
322	Paper	5.05	0.16	0	45	W	44.75	0	W	W
322110	Pulp Mills	W	W	0	W	0	W	0	0	0
322121	Paper Mills, except Newsprint	4.5	0.19	0	W	0	45.71	0	W	W
322122	Newsprint Mills	W	0	0	W	0	W	0	0	0
322130	Paperboard Mills	4.87	0.09	0	W	W	45.66	0	0	0
323	Printing and Related Support	11.54	0.34	0	0	0	0	0	0	0
324	Petroleum and Coal Products	4.78	Q	0	0	0	0	0	0	W
324110	Petroleum Refineries	4.92	0	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	W	W	0	0	0	0	0	0	W
325	Chemicals	4.96	W	W	W	65.45	38.95	W	W	W
325110	Petrochemicals	W	0	0	0	0	0	0	0	0
325120	Industrial Gases	Q	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	W	W	0	W	0	W	0	0	0
325182	Carbon Black	W	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	5.45	W	0	W	0	W	0	W	W

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity Components: Electricity from Local Utility(b) (kWh)	Electricity Components: Electricity from Sources Other than Local Utility(c) (kWh)	Total Diesel Fuel and Distillate Fuel Oil (gallons)	Diesel Fuel (gallons)	Distillate Fuel Oil (gallons)	Residual Fuel Oil (gallons)
331524	Aluminum Foundries, except Die-Casting	0.045	0.045	0.055	0.85	1.09	0.8	Q
332	Fabricated Metal Products	0.083	0.082	0.091	0.93	Q	0.94	0.64
333	Machinery	0.072	0.072	0.069	0.93	0.91	0.96	0.62
334	Computer and Electronic Products	0.07	0.071	0.064	0.91	1.43	0.91	0.74
334413	Semiconductors and Related Devices	W	0.059	0.061	0.84	1.57	W	1
335	Electrical Equip., Appliances, and Components	W	0.075	0.076	0.84	1.21	0.84	0.69
336	Transportation Equipment	0.063	0.068	0.047	0.98	1.18	0.91	0.69
336112	Light Trucks and Utility Vehicles	W	W	0	W	W	W	0
337	Furniture and Related Products	0.089	0.09	0.078	1.02	1.27	1	0
339	Miscellaneous	0.084	0.085	0.071	0.98	Q	W	W
	Total	0.064	0.067	0.05	0.91	1.1	0.85	0.64
	RSE Column Factors:	1.3	1.3	1.5	1.6	1.6	1	1.1
311	Food	W	0.045	0.051	1.07	1.14	W	0.48
311221	Wet Corn Milling	W	0.036	0.037	0.75	0.69	W	W
31131	Sugar	0.043	0.043	0	0.94	0.9	1.08	W
311421	Fruit and Vegetable Canning	0.06	0.06	0.055	1.04	1.04	W	Q
312	Beverage and Tobacco Products	0.05	0.05	Q	1.27	1.3	W	W
3121	Beverages	W	0.05	Q	1.27	1.3	W	W
3122	Tobacco	W	0.075	0	W	0	W	0
313	Textile Mills	0.061	0.061	0	Q	1.34	W	0
314	Textile Product Mills	0.056	0.055	0.067	0	0	0	0
315	Apparel	0.068	0.068	0.065	0	0	0	0
316	Leather and Allied Products	0.057	0.057	0.063	1.34	1.16	W	0
321	Wood Products	0.056	0.056	0.056	0.97	0.97	0.92	W
321113	Sawmills	0.066	0.065	0.092	1.11	1.11	W	0.53
3212	Veneer, Plywood, and Engineered Woods	0.047	0.047	0.05	1.07	1.08	W	W
3219	Other Wood Products	0.06	0.06	Q	Q	Q	W	0
322	Paper	W	0.043	0.054	0.94	1.02	0.81	0.5
322110	Pulp Mills	W	W	0	W	W	W	0
322121	Paper Mills, except Newsprint	W	0.039	0.049	0.94	1.05	0.8	W
322122	Newsprint Mills	W	W	0	W	W	W	0
322130	Paperboard Mills	0.043	0.043	0.042	1.01	1	W	W
323	Printing and Related Support	0.058	0.058	0.058	1.09	W	W	0
324	Petroleum and Coal Products	0.037	0.036	0.051	0.81	Q	0.8	0.54
324110	Petroleum Refineries	0.034	0.033	W	0	0	0	0
324199	Other Petroleum and Coal Products	0.057	0.057	0	0.9	W	0	0
325	Chemicals	0.04	0.041	0.036	0.92	1.08	W	0.54
325110	Petrochemicals	W	0.041	W	W	W	W	0
325120	Industrial Gases	0.033	0.033	W	0	0	0	0
325181	Alkalies and Chlorine	0.041	0.04	Q	1.46	W	0	0
325182	Carbon Black	0.048	0.048	0	0	0	0	W
325188	Other Basic Inorganic Chemicals	0.039	0.04	0.032	1.08	1.16	W	W

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas (million Btu)	Coke Oven Gas (million Btu)	Motor Gasoline (excluding Highway Usage) (gallons)	Hydrogen (million Btu)	Kerosene (gallons)	Pulping Liquor or Black Liquor (million Btu)	LPG and NGL(d) (gallons)	Natural Gas Total (1000 cu ft)
331524	Aluminum Foundries, except Die-Casting	0	0	W	0	W	0	1.02	4.79
332	Fabricated Metal Products	0	0	Q	W	W	0	1.11	6
333	Machinery	0	0	1.2	39.34	W	0	1.09	5.88
334	Computer and Electronic Products	0	0	1.87	Q	W	0	0.61	6.58
334413	Semiconductors and Related Devices	0	0	1.54	11.14	W	0	1.61	W
335	Electrical Equip., Appliances, and Components	0	0	1.49	25.97	W	0	0.82	5.03
336	Transportation Equipment	0	0	1.08	W	W	0	0.74	3.98
336112	Light Trucks and Utility Vehicles	0	0	W	0	0	0	W	W
337	Furniture and Related Products	0	0	1.44	0	0	0	0.81	6.06
339	Miscellaneous	0	0	Q	0	W	0	1.2	5.88
	Total	0	0	1.35	7.39	1.29	0	0.84	4.98
	RSE Column Factors:	0	0.3	1.5	1.2	1.1	0	1.9	1.4
311	Food	0	0	1.19	W	W	0	0.78	4.22
311221	Wet Corn Milling	0	0	1	0	0	0	1.04	3.95
31131	Sugar	0	0	1.42	0	W	0	0.96	4.27
311421	Fruit and Vegetable Canning	0	0	1.31	0	0	0	1.03	4.62
312	Beverage and Tobacco Products	0	0	Q	W	W	0	W	4.29
3121	Beverages	0	0	Q	W	W	0	W	W
3122	Tobacco	0	0	0	W	0	0	W	W
313	Textile Mills	0	0	W	0	0	0	0.89	5.02
314	Textile Product Mills	0	0	W	0	0	0	1.18	6.31
315	Apparel	0	0	W	0	0	0	Q	6.27
316	Leather and Allied Products	0	0	W	0	W	0	0.85	4.12
321	Wood Products	0	0	1.4	0	Q	0	W	4.7
321113	Sawmills	0	0	1.41	0	1.35	0	0.84	4.48
3212	Veneer, Plywood, and Engineered Woods	0	0	1.33	0	W	0	W	4.41
3219	Other Wood Products	0	0	1.42	0	Q	0	0.92	5.1
322	Paper	0	0	1.23	W	1.12	0	Q	4.31
322110	Pulp Mills	0	0	0	0	0	0	W	W
322121	Paper Mills, except Newsprint	0	0	1.29	W	1.04	0	0.94	4.36
322122	Newsprint Mills	0	0	W	0	0	0	W	W
322130	Paperboard Mills	0	0	1.38	0	1.19	0	1.01	4.12
323	Printing and Related Support	0	0	Q	0	0	0	1	5.21
324	Petroleum and Coal Products	0	0	1.31	W	W	W	Q	3.88
324110	Petroleum Refineries	0	0	0	W	0	0	1.26	3.81
324199	Other Petroleum and Coal Products	0	0	W	0	0	0	1.04	4.33
325	Chemicals	0	0	0.89	30.32	Q	0	0.37	3.91
325110	Petrochemicals	0	0	W	0	0	0	W	W
325120	Industrial Gases	0	0	0	0	0	0	0	W
325181	Alkalies and Chlorine	0	0	W	W	W	0	1.02	4.59
325182	Carbon Black	0	0	W	0	0	0	W	W
325188	Other Basic Inorganic Chemicals	0	0	1.5	23.95	W	0	W	4.14

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	Waste Gases and Byproduct Gases (million Btu)	Waste Oils and Tars (million Btu)	Industrial Hot Water Total (million Btu)
331524	Aluminum Foundries, except Die-Casting	4.49	5.48	0	0	0	0	0	W
332	Fabricated Metal Products	7.06	4.97	Q	0	Q	0	0	W
333	Machinery	6.69	5.28	3.33	0	3.33	W	W	0
334	Computer and Electronic Products	7.71	5.02	Q	7.25	Q	0	0	W
334413	Semiconductors and Related Devices	6.07	5.29	Q	11.77	Q	0	0	0
335	Electrical Equip., Appliances, and Components	4.38	5.44	2.77	0	2.77	0	0	0
336	Transportation Equipment	3.21	5.05	4.12	0	4.12	0	0	W
336112	Light Trucks and Utility Vehicles	7.71	4.74	W	0	W	0	0	0
337	Furniture and Related Products	5.8	6.6	Q	0	Q	0	0	0
339	Miscellaneous	6.39	5.03	4.75	19.42	4.04	0	0	W
	Total	5.23	4.83	4.66	8.07	4.53	Q	3.09	0.26
	RSE Column Factors:	2.1	1.4	1.2	1.1	0.9	1	0.7	2.9
311	Food	4.45	4.09	3.81	3.8	Q	0	0	0
311221	Wet Corn Milling	4.2	3.93	3.63	3.63	0	0	0	0
31131	Sugar	4.21	4.29	0	0	0	0	0	0
311421	Fruit and Vegetable Canning	4.54	4.72	6.44	0	6.44	0	0	0
312	Beverage and Tobacco Products	4.72	4.1	0	0	0	0	0	0
3121	Beverages	4.71	4.1	0	0	0	0	0	0
3122	Tobacco	4.77	0	0	0	0	0	0	0
313	Textile Mills	4.42	5.3	0	0	0	0	0	0
314	Textile Product Mills	6.52	5.12	0	0	0	0	0	0
315	Apparel	6.9	5.52	0	0	0	0	0	0
316	Leather and Allied Products	5.66	3.84	3.51	0	3.51	0	0	0
321	Wood Products	4.81	4.45	3.91	0	3.91	0	W	0
321113	Sawmills	4.26	4.91	5.14	0	5.14	0	W	0
3212	Veneer, Plywood, and Engineered Woods	4.49	4.29	1.57	0	1.57	0	0	0
3219	Other Wood Products	5.18	4.76	4.47	0	4.47	0	0	0
322	Paper	4.4	4.27	4.08	4.08	4.11	0	W	W
322110	Pulp Mills	W	5.45	5.79	0	5.79	0	0	0
322121	Paper Mills, except Newsprint	4.41	4.34	4.09	3.33	4.1	0	W	W
322122	Newsprint Mills	6.7	4.82	W	W	0	0	0	0
322130	Paperboard Mills	4.63	4	Q	Q	3.09	0	0	W
323	Printing and Related Support	5.72	4.84	Q	0	Q	0	0	0
324	Petroleum and Coal Products	4	3.85	2.93	2.9	2.94	W	W	0
324110	Petroleum Refineries	3.92	3.8	2.89	2.9	2.87	0	0	0
324199	Other Petroleum and Coal Products	4.25	4.58	2.21	0	2.21	W	0	0
325	Chemicals	4.31	3.81	Q	5.76	Q	0	W	W
325110	Petrochemicals	0	3.68	0	0	0	0	0	0
325120	Industrial Gases	3.84	W	Q	4.22	Q	0	0	0
325181	Alkalies and Chlorine	5.12	4.47	8.03	8.03	0	0	0	0
325182	Carbon Black	7.51	3.46	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	4.19	4.12	4.68	4.06	4.72	0	W	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Biomass Total(e) (million Btu)	Selected Wood and Other Biomass Components: Agricultural Waste (million Btu)	Wood Harvested Directly from Trees (million Btu)	Wood Residues and Byproducts from Mill Processing (million Btu)	Wood-Related and Paper-Related Refuse (million Btu)	All Other Energy Sources (million Btu)	RSE Row Factors
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0.7
332	Fabricated Metal Products	W	0	0	0	W	W	10.9
333	Machinery	0	0	0	0	0	0	8
334	Computer and Electronic Products	0	0	0	0	0	0	9.7
334413	Semiconductors and Related Devices	0	0	0	0	0	0	1.1
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	8.3
336	Transportation Equipment	0	0	0	0	0	W	4.8
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0.6
337	Furniture and Related Products	W	0	W	W	0	W	9.6
339	Miscellaneous	W	0	W	W	0	W	7.1
	Total	2.79	0	1.96	2.65	W	3.6	4.9
	RSE Column Factors:	0.5	0.2	0.4	0.4	1	1.9	
311	Food	W	W	0	0	0	0	9.2
311221	Wet Corn Milling	0	0	0	0	0	0	0.8
31131	Sugar	0	0	0	0	0	0	0.8
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	2.3
312	Beverage and Tobacco Products	0	0	0	0	0	0	5.4
3121	Beverages	0	0	0	0	0	0	6.2
3122	Tobacco	0	0	0	0	0	0	0.7
313	Textile Mills	0	0	0	0	0	0	7.9
314	Textile Product Mills	0	0	0	0	0	0	10.5
315	Apparel	0	0	0	0	0	0	8.9
316	Leather and Allied Products	0	0	0	0	0	0	11.3
321	Wood Products	1.84	0	3.05	0.8	W	0	5.7
321113	Sawmills	W	0	0	W	0	0	6
3212	Veneer, Plywood, and Engineered Woods	1.34	0	W	0.45	W	0	4.1
3219	Other Wood Products	W	0	W	W	W	0	14.7
322	Paper	4.38	0	W	1.18	10.85	0	3.3
322110	Pulp Mills	W	0	0	0	W	0	0.8
322121	Paper Mills, except Newsprint	3.82	0	W	1.18	W	0	1.9
322122	Newsprint Mills	0	0	0	0	0	0	0.8
322130	Paperboard Mills	5.24	0	W	W	7.99	0	2.8
323	Printing and Related Support	0	0	0	0	0	0	12.3
324	Petroleum and Coal Products	W	0	0	0	W	W	3.7
324110	Petroleum Refineries	0	0	0	0	0	W	1.4
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0.7
325	Chemicals	W	0	0	W	W	W	3.2
325110	Petrochemicals	0	0	0	0	0	0	0.7
325120	Industrial Gases	0	0	0	0	0	0	1.4
325181	Alkalies and Chlorine	0	0	0	0	0	0	1.6
325182	Carbon Black	0	0	0	0	0	0	0.7
325188	Other Basic Inorganic Chemicals	0	0	0	0	0	W	1.8

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL (million Btu)	Acetylene (cu ft)	Breeze (short tons)	Coal Total (short tons)	Anthracite (short tons)	Bituminous and Subbituminous Coal (short tons)	Lignite (short tons)	Coal Coke (short tons)	Petroleum Coke (gallons)
325192	Cyclic Crudes and Intermediates	5.00	W	0	0	0	0	0	0	0
325193	Ethyl Alcohol	3.65	W	0	36.77	W	37.93	0	0	0
325199	Other Basic Organic Chemicals	5.75	W	0	38.31	0	38.31	0	0	0
325211	Plastics Materials and Resins	4.45	Q	0	W	0	W	0	W	0
325212	Synthetic Rubber	6.00	W	0	W	0	W	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	3.72	W	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	6.61	Q	0	40.88	0	40.88	0	0	0
325412	Pharmaceutical Preparation	6.65	Q	0	40.88	0	40.88	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	10.13	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	9.94	0.15	0	W	0	W	0	0	0
327	Nonmetallic Mineral Products	4.1	0.15	0	W	0	35.16	0	89.39	0.12
3272	Glass and Glass Products	5.84	W	0	0	0	0	0	0	0
327211	Flat Glass	4.29	W	0	0	0	0	0	0	0
327213	Glass Containers	5.5	W	0	0	0	0	0	0	0
327310	Cements	2.46	0.14	0	W	0	33.93	0	W	0.11
327410	Lime	2.23	0.12	0	37.51	0	37.51	0	W	0.15
327993	Mineral Wool	5.76	W	0	0	0	0	0	130.14	0
331	Primary Metals	4.77	0.1	51.14	52.67	85.88	52.41	0	112.91	0.17
331111	Iron and Steel Mills	4	0.09	W	52.51	W	52.25	0	109.26	0.31
331112	Electrometallurgical Ferroalloy Products	6.47	W	0	W	0	W	0	W	W
3312	Steel Products from Purchased Steel	7.47	0.09	0	79.5	W	0	0	0	0
3313	Alumina and Aluminum	6.02	0.15	0	0	0	0	0	0	W
331312	Primary Aluminum	5.97	0.14	0	0	0	0	0	0	W
3314	Nonferrous Metals, except Aluminum	7.23	0.1	33.11	W	W	0	0	W	W
3315	Foundries	8.17	0.12	W	W	W	W	0	180.52	W
331511	Iron Foundries	8.41	0.09	W	W	W	W	0	180.52	W
331521	Aluminum Die-Casting Foundries	7.07	0.13	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	7.43	0.16	0	0	0	0	0	0	0
332	Fabricated Metal Products	8.88	0.14	0	125.43	W	0	0	W	0
333	Machinery	9.83	0.12	0	33	0	W	0	0	0
334	Computer and Electronic Products	10.06	W	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	9.17	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	8.98	0.17	0	73.01	0	W	0	0	W
336	Transportation Equipment	7.71	0.26	0	50.18	0	50.18	0	W	W
336112	Light Trucks and Utility Vehicles	6.57	W	0	W	0	W	0	0	0
337	Furniture and Related Products	9.47	0.13	0	W	W	W	0	0	0
339	Miscellaneous	11.47	W	0	0	0	0	0	0	0
	Total	5.69	0.14	54.12	43.76	70.73	42.07	W	111.72	0.19
	South Census Region									
	RSE Column Factors:	1.4	2.1	0.7	0.9	0.7	0.9	0.5	0.8	0.8
311	Food	7.19	Q	0	53.29	0	53.29	0	0	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity Components: Electricity from Local Utility(b) (kWh)	Electricity Components: Electricity from Sources Other than Local Utility(c) (kWh)	Total Diesel Fuel and Distillate Fuel Oil (gallons)	Diesel Fuel (gallons)	Distillate Fuel Oil (gallons)	Residual Fuel Oil (gallons)
325192	Cyclic Crudes and Intermediates	W	0.034	0	W	W	W	W
325193	Ethyl Alcohol	0.038	0.038	0.031	0.89	1.15	W	0
325199	Other Basic Organic Chemicals	0.037	0.041	0.032	0.84	1.26	0.76	0
325211	Plastics Materials and Resins	0.037	0.036	0.039	1.01	1.02	W	0.49
325212	Synthetic Rubber	W	0.035	0	0.82	W	W	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	W	0.036	0.043	0.86	0.86	W	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0.042	0.042	0.044	1.14	1.16	1.09	0.62
325412	Pharmaceutical Preparation	0.041	0.041	0.043	1.16	W	1.05	0.65
325992	Photographic Film, Paper, Plate, and Chemicals	W	0.055	0.052	0	0	0	0
326	Plastics and Rubber Products	0.053	0.053	0.058	1.21	1.25	Q	W
327	Nonmetallic Mineral Products	0.046	0.046	0.045	0.87	Q	Q	0.57
3272	Glass and Glass Products	0.044	0.043	0.048	0.85	W	W	0
327211	Flat Glass	W	0.044	0	W	W	W	0
327213	Glass Containers	W	0.039	0.049	1.16	W	0	0
327310	Cements	0.038	0.037	0.043	0.94	0.95	W	0.57
327410	Lime	0.056	0.056	0	0.88	0.87	W	W
327993	Mineral Wool	0.038	0.038	0	1.09	1.09	0	0
331	Primary Metals	W	0.038	0.031	0.49	0.94	0.34	0.58
331111	Iron and Steel Mills	0.034	0.035	0.031	0.44	0.9	0.33	0.58
331112	Electrometallurgical Ferroalloy Products	0.034	0.034	0	0.83	W	W	0
3312	Steel Products from Purchased Steel	0.05	0.048	0.056	1.25	1.17	W	0
3313	Alumina and Aluminum	W	0.027	0.027	0.91	0.92	W	0
331312	Primary Aluminum	W	W	W	1	1	W	0
3314	Nonferrous Metals, except Aluminum	W	0.042	0.041	0.95	0.95	W	Q
3315	Foundries	0.047	0.047	0.052	1.14	1.16	0.82	W
331511	Iron Foundries	0.043	0.043	0.049	1.16	1.19	W	0
331521	Aluminum Die-Casting Foundries	0.047	0.047	0.052	1.33	1.33	W	W
331524	Aluminum Foundries, except Die-Casting	0.054	0.054	0.05	1.02	1.02	W	0
332	Fabricated Metal Products	0.051	0.05	0.068	Q	Q	W	Q
333	Machinery	0.054	0.054	0.055	1.22	1.23	Q	0
334	Computer and Electronic Products	0.048	0.048	0.046	0.93	Q	W	0
334413	Semiconductors and Related Devices	W	0.041	0	1.06	W	W	0
335	Electrical Equip., Appliances, and Components	0.051	0.05	0.061	Q	Q	W	0.7
336	Transportation Equipment	W	0.045	0.052	0.94	1.02	W	0.71
336112	Light Trucks and Utility Vehicles	W	0.043	0	W	W	W	W
337	Furniture and Related Products	0.063	0.065	0.049	1.14	1.08	W	0
339	Miscellaneous	0.06	0.061	Q	1.17	W	W	0
	Total	0.045	0.046	0.041	0.81	0.95	0.54	0.51
	RSE Column Factors:	1.4	1.3	1.6	1.7	1.8	1.5	1.2
311	Food	0.049	0.049	Q	0.97	1.02	W	Q

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas (million Btu)	Coke Oven Gas (million Btu)	Motor Gasoline (excluding Highway Usage) (gallons)	Hydrogen (million Btu)	Kerosene (gallons)	Pulping Liquor or Black Liquor (million Btu)	LPG and NGL(d) (gallons)	Natural Gas Total (1000 cu ft)
325192	Cyclic Crudes and Intermediates	0	0	1.29	W	0	0	W	4.28
325193	Ethyl Alcohol	0	0	W	0	0	0	0.69	W
325199	Other Basic Organic Chemicals	0	0	1.27	24.75	W	0	0.86	4.4
325211	Plastics Materials and Resins	0	0	1.18	W	0	0	W	4.23
325212	Synthetic Rubber	0	0	W	W	W	0	W	4.34
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	1.3	W	0	0	0	3.46
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	1.17	96.87	W	0	0.81	4.46
325412	Pharmaceutical Preparation	0	0	1.14	W	W	0	0.88	4.59
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	Q	4.57
326	Plastics and Rubber Products	0	0	1.33	W	Q	0	0.97	5.11
327	Nonmetallic Mineral Products	0	0	1.21	1.99	1.19	0	0.77	4.15
3272	Glass and Glass Products	0	0	1.16	1.99	W	0	0.86	4.08
327211	Flat Glass	0	0	W	1.67	W	0	1.17	3.69
327213	Glass Containers	0	0	W	0	W	0	0.82	3.96
327310	Cements	0	0	0.8	0	1.46	0	0.88	4.07
327410	Lime	0	0	1.09	0	1.73	0	1.1	W
327993	Mineral Wool	0	0	1.27	W	W	0	0.73	4.02
331	Primary Metals	0	W	1.15	4.28	1.74	0	0.73	4.07
331111	Iron and Steel Mills	0	W	1.04	4.68	1.18	0	0.75	3.84
331112	Electrometallurgical Ferroalloy Products	0	0	W	W	W	0	0.62	4.66
3312	Steel Products from Purchased Steel	0	0	Q	1.58	Q	0	0.96	4.55
3313	Alumina and Aluminum	0	0	1.41	W	W	0	1.08	4.39
331312	Primary Aluminum	0	0	W	W	0	0	0.79	4.03
3314	Nonferrous Metals, except Aluminum	0	0	1.41	13.96	1.19	0	0.57	4.65
3315	Foundries	0	0	1.23	6.23	1.61	0	0.9	4.67
331511	Iron Foundries	0	0	1.17	0	1.51	0	W	4.79
331521	Aluminum Die-Casting Foundries	0	0	W	W	2.04	0	W	W
331524	Aluminum Foundries, except Die-Casting	0	0	Q	0	2.14	0	0.87	4.71
332	Fabricated Metal Products	0	0	1.22	Q	Q	0	1.16	4.81
333	Machinery	0	0	1.4	W	2.23	0	0.82	5.19
334	Computer and Electronic Products	0	0	1.1	31.79	0	0	1.28	4.96
334413	Semiconductors and Related Devices	0	0	W	W	0	0	W	W
335	Electrical Equip., Appliances, and Components	0	0	Q	W	1.42	0	1.22	4.96
336	Transportation Equipment	0	0	1.07	Q	W	0	0.72	4.16
336112	Light Trucks and Utility Vehicles	0	0	W	0	0	0	W	4.36
337	Furniture and Related Products	0	0	1.1	W	W	0	0.96	5.31
339	Miscellaneous	0	0	W	W	W	0	1.05	5.3
	Total	0	W	1.15	4.81	1.21	W	0.42	4.25
	RSE Column Factors:	0	0	2	0.6	1.3	0.6	2	1.4
311	Food	0	0	Q	W	Q	0	0.75	4.49

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	Waste Gases and Byproduct Gases (million Btu)	Waste Oils and Tars (million Btu)	Industrial Hot Water Total (million Btu)
325192	Cyclic Crudes and Intermediates	3.77	W	0	0	0	0	0	0
325193	Ethyl Alcohol	3.98	3.58	4.62	5.81	Q	0	0	0
325199	Other Basic Organic Chemicals	4.32	4.42	4.07	6.64	3.96	0	W	0
325211	Plastics Materials and Resins	4.32	4.14	5.3	5.23	5.31	0	0	W
325212	Synthetic Rubber	7.82	4.22	0	0	0	0	0	W
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	3.62	3.46	6.12	0	6.12	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	4.82	4.27	5.38	0	5.38	0	0	0
325412	Pharmaceutical Preparation	4.73	4.49	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	4.61	4.27	0	0	0	0	0	0
326	Plastics and Rubber Products	5.1	5.12	3.08	3.08	0	0	0	W
327	Nonmetallic Mineral Products	4.18	4.14	0	0	0	0	W	0
3272	Glass and Glass Products	4.19	4.07	0	0	0	0	0	0
327211	Flat Glass	W	3.69	0	0	0	0	0	0
327213	Glass Containers	8.95	3.93	0	0	0	0	0	0
327310	Cements	4.67	3.93	0	0	0	0	W	0
327410	Lime	3.71	3.67	0	0	0	0	0	0
327993	Mineral Wool	4.43	3.94	0	0	0	0	0	0
331	Primary Metals	4.75	3.98	3.83	2.31	4.03	0	W	W
331111	Iron and Steel Mills	4.31	3.82	3.86	0	3.86	0	W	0
331112	Electrometallurgical Ferroalloy Products	6.57	4.63	5.36	0	5.36	0	0	0
3312	Steel Products from Purchased Steel	4.54	4.55	0	0	0	0	0	0
3313	Alumina and Aluminum	4.84	4.28	2.31	2.31	0	0	W	W
331312	Primary Aluminum	5.78	4.02	0	0	0	0	W	0
3314	Nonferrous Metals, except Aluminum	5.21	4.3	7.91	0	7.91	0	0	0
3315	Foundries	5.02	4.55	7.29	10.33	7.28	0	0	0
331511	Iron Foundries	5	4.7	7.28	0	7.28	0	0	0
331521	Aluminum Die-Casting Foundries	4.85	4.25	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	4.54	4.76	0	0	0	0	0	0
332	Fabricated Metal Products	4.92	4.64	Q	0	Q	0	0	0
333	Machinery	5.36	5.08	6.04	5.61	Q	0	0	0
334	Computer and Electronic Products	5.16	4.53	4.12	0	4.12	0	0	W
334413	Semiconductors and Related Devices	2.43	4.34	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	5.45	4.61	4.65	4.54	7.13	0	0	0
336	Transportation Equipment	4.04	4.24	6.36	7.91	5.22	W	W	0
336112	Light Trucks and Utility Vehicles	4.68	4.16	4.36	0	4.36	W	0	0
337	Furniture and Related Products	5.93	4.84	0	0	0	0	0	0
339	Miscellaneous	5.11	5.75	0	0	0	0	0	0
	Total	4.6	4.1	3.7	4.22	3.53	W	8.55	Q
	RSE Column Factors:	1.9	1.2	1.2	0.4	1.3	0.4	0.9	0.7
311	Food	4.88	4.02	3.85	0	3.85	0	0	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

			Selected Wood and Other Biomass Components					
NAICS Code(a)	Subsector and Industry	Biomass Total(e) (million Btu)	Agricultural Waste (million Btu)	Wood Harvested Directly from Trees (million Btu)	Wood Residues and Byproducts from Mill Processing (million Btu)	Wood-Related and Paper-Related Refuse (million Btu)	All Other Energy Sources (million Btu)	RSE Row Factors
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0.7
325193	Ethyl Alcohol	0	0	0	0	0	0	2.4
325199	Other Basic Organic Chemicals	0	0	0	0	0	W	1.7
325211	Plastics Materials and Resins	0	0	0	0	0	0	1.6
325212	Synthetic Rubber	0	0	0	0	0	0	1.8
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0.7
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	3.6
325412	Pharmaceutical Preparation	0	0	0	0	0	0	2
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	2.7
326	Plastics and Rubber Products	W	0	0	0	W	0	13.7
327	Nonmetallic Mineral Products	W	0	0	0	W	W	4
3272	Glass and Glass Products	0	0	0	0	0	0	1.4
327211	Flat Glass	0	0	0	0	0	0	0.7
327213	Glass Containers	0	0	0	0	0	0	0.7
327310	Cements	0	0	0	0	0	W	2
327410	Lime	0	0	0	0	0	0	0.8
327993	Mineral Wool	W	0	0	0	W	0	1
331	Primary Metals	W	W	W	0	W	W	2.3
331111	Iron and Steel Mills	0	0	0	0	0	0	2.2
331112	Electrometallurgical Ferroalloy Products	W	0	W	0	0	0	0.9
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	9.6
3313	Alumina and Aluminum	0	0	0	0	0	0	2.4
331312	Primary Aluminum	0	0	0	0	0	0	0.7
3314	Nonferrous Metals, except Aluminum	0	0	0	0	0	0	3.6
3315	Foundries	W	W	W	0	W	W	3.4
331511	Iron Foundries	W	0	0	0	W	0	4.3
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	W	2.8
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	2.5
332	Fabricated Metal Products	W	0	0	W	0	0	12.8
333	Machinery	0	0	0	0	0	0	9.5
334	Computer and Electronic Products	W	0	W	W	W	0	5
334413	Semiconductors and Related Devices	0	0	0	0	0	0	1.1
335	Electrical Equip., Appliances, and Components	W	0	0	W	W	W	5.1
336	Transportation Equipment	0	0	0	0	0	1.83	9.5
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	W	0.8
337	Furniture and Related Products	W	0	W	W	0	0	11.5
339	Miscellaneous	0	0	0	0	0	W	8.2
	Total	3	W	2.79	0.91	8.78	0.7	6.4
	RSE Column Factors:	1	0.6	0.7	0.7	0.8	0.7	
311	Food	W	W	W	W	W	W	6.7

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL (million Btu)	Acetylene (cu ft)	Breeze (short tons)	Coal Total (short tons)	Anthracite (short tons)	Bituminous and Subbituminous Coal (short tons)	Lignite (short tons)	Coal Coke (short tons)	Petroleum Coke (gallons)
311221	Wet Corn Milling	3.96	W	0	W	0	51.19	0	0	0
31131	Sugar	W	W	0	W	0	W	0	0	0
311421	Fruit and Vegetable Canning	6.25	Q	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	6.8	0.17	0	54.99	0	54.99	0	0	0
3121	Beverages	7.43	0.19	0	52.93	0	52.93	0	0	0
3122	Tobacco	5.9	W	0	55.29	0	55.29	0	0	0
313	Textile Mills	7.61	0.15	0	50.42	0	50.42	0	0	0
314	Textile Product Mills	6.7	Q	0	W	W	Q	0	0	0
315	Apparel	10.18	W	0	0	0	0	0	0	0
316	Leather and Allied Products	13.16	W	0	0	0	0	0	0	0
321	Wood Products	7.66	0.14	0	W	0	W	0	0	0
321113	Sawmills	6.85	0.15	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	8.04	0.13	0	W	0	W	0	0	0
3219	Other Wood Products	8.9	Q	0	0	0	0	0	0	0
322	Paper	3.92	0.11	0	43.07	W	42.8	0	0	W
322110	Pulp Mills	3.75	0	0	54.94	0	W	0	0	W
322121	Paper Mills, except Newsprint	3.46	Q	0	W	0	39.18	0	0	W
322122	Newsprint Mills	5.26	0.11	0	W	0	43.25	0	0	0
322130	Paperboard Mills	3.55	0.14	0	46.43	W	46.05	0	0	W
323	Printing and Related Support	11.99	0.18	0	0	0	0	0	0	0
324	Petroleum and Coal Products	3.6	Q	W	W	0	W	0	0	W
324110	Petroleum Refineries	4.35	0	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	Q	0.12	W	W	0	W	0	0	W
325	Chemicals	4.95	Q	0	43.79	W	43.77	W	W	0.46
325110	Petrochemicals	W	0	0	W	0	W	0	0	0
325120	Industrial Gases	3.75	W	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	5.18	0	0	W	0	W	0	0	0
325182	Carbon Black	W	W	0	0	0	0	0	0	W
325188	Other Basic Inorganic Chemicals	6.6	0.15	0	W	0	50.88	0	0	0
325192	Cyclic Crudes and Intermediates	5.14	0	0	W	0	W	0	0	0
325193	Ethyl Alcohol	W	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	4.99	W	0	Q	0	Q	0	0	0
325211	Plastics Materials and Resins	4.9	W	0	W	0	Q	0	0	0
325212	Synthetic Rubber	5.43	W	0	W	0	W	0	0	0
325222	Noncellulosic Organic Fibers	5.36	0.14	0	W	0	W	0	0	0
325311	Nitrogenous Fertilizers	3.4	W	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	4.94	W	0	50.81	0	0	W	W	0
3254	Pharmaceuticals and Medicines	8.45	W	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	8.56	W	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	0	0	0	0	0	0
326	Plastics and Rubber Products	9.38	0.14	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	4.51	0.18	0	W	W	42.4	W	29.28	0.15
3272	Glass and Glass Products	5.86	0.15	0	W	W	0	0	0	0
327211	Flat Glass	4.68	0.2	0	W	W	0	0	0	0
327213	Glass Containers	5.59	W	0	0	0	0	0	0	0
327310	Cements	3.02	0.14	0	41.92	W	41.73	0	W	0.14

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity Components: Electricity from Local Utility(b) (kWh)	Electricity Components: Electricity from Sources Other than Local Utility(c) (kWh)	Total Diesel Fuel and Distillate Fuel Oil (gallons)	Diesel Fuel (gallons)	Distillate Fuel Oil (gallons)	Residual Fuel Oil (gallons)
311221	Wet Corn Milling	0.034	0.034	0	1.17	W	W	0
31131	Sugar	0.065	0.065	0.052	1.21	0.99	W	0.9
311421	Fruit and Vegetable Canning	0.055	0.055	0	Q	1.21	W	W
312	Beverage and Tobacco Products	0.05	0.05	0.056	Q	Q	0.81	0.76
3121	Beverages	0.053	0.053	0.056	Q	Q	W	W
3122	Tobacco	0.047	0.047	0	0.8	W	0.8	W
313	Textile Mills	0.041	0.041	0.04	0.95	1.23	W	W
314	Textile Product Mills	0.05	0.05	0.046	Q	1.14	Q	W
315	Apparel	0.057	0.056	Q	Q	W	W	0.75
316	Leather and Allied Products	0.071	0.071	0	0.74	0	W	0
321	Wood Products	W	0.054	0.045	0.91	0.91	Q	0.81
321113	Sawmills	W	0.059	0.054	0.98	0.98	Q	0
3212	Veneer, Plywood, and Engineered Woods	0.047	0.047	0.04	0.91	0.92	W	0.81
3219	Other Wood Products	0.065	0.065	Q	1.13	1.13	W	0
322	Paper	W	0.038	0.038	0.69	0.95	0.65	0.52
322110	Pulp Mills	W	0.043	0	0.6	0.91	W	0.55
322121	Paper Mills, except Newsprint	W	0.034	0.039	0.72	0.99	0.68	W
322122	Newsprint Mills	0.031	0.03	W	1.1	1.2	W	W
322130	Paperboard Mills	W	0.037	0.035	0.8	0.93	0.75	0.48
323	Printing and Related Support	0.058	0.058	0.076	0.81	Q	0.79	Q
324	Petroleum and Coal Products	0.04	0.041	0.037	0.78	0.77	Q	0.47
324110	Petroleum Refineries	0.039	0.04	0.036	0.99	W	W	0
324199	Other Petroleum and Coal Products	0.044	0.044	0	0.77	0.77	W	0
325	Chemicals	0.037	0.037	0.036	0.82	0.82	0.82	0.53
325110	Petrochemicals	W	0.037	0.037	W	W	W	W
325120	Industrial Gases	W	0.036	0.038	W	W	W	0
325181	Alkalies and Chlorine	0.031	0.031	W	W	W	W	0
325182	Carbon Black	W	0.045	0	1.13	1.13	W	0.52
325188	Other Basic Inorganic Chemicals	W	0.028	0.031	0.97	W	1.8	W
325192	Cyclic Crudes and Intermediates	0.033	0.041	W	1.22	1.46	W	W
325193	Ethyl Alcohol	0.041	0.041	0	W	W	0	0
325199	Other Basic Organic Chemicals	W	0.037	0.036	0.88	1.02	Q	0.61
325211	Plastics Materials and Resins	W	0.042	0.038	0.83	1.04	W	W
325212	Synthetic Rubber	W	0.043	0.067	0.71	0.79	W	0.66
325222	Noncellulosic Organic Fibers	W	0.038	0.036	0.86	0.97	0.83	W
325311	Nitrogenous Fertilizers	0.039	0.039	0.038	0.87	0.89	W	0
325312	Phosphatic Fertilizers	W	0.055	0.036	0.82	0.73	W	0.57
3254	Pharmaceuticals and Medicines	0.047	0.048	0.043	0.67	1.2	0.64	0.59
325412	Pharmaceutical Preparation	0.047	0.047	0.044	0.66	0.91	0.65	W
325992	Photographic Film, Paper, Plate, and Chemicals	W	0.053	0.067	0.86	W	W	0.61
326	Plastics and Rubber Products	0.046	0.046	0.055	0.92	1.04	W	W
327	Nonmetallic Mineral Products	0.044	0.044	0.048	1.07	1.11	W	W
3272	Glass and Glass Products	0.042	0.042	0.043	0.96	0.98	W	W
327211	Flat Glass	0.037	0.037	0	1	1.09	W	W
327213	Glass Containers	0.042	0.042	0.047	0.9	W	0	0
327310	Cements	0.039	0.039	0.041	0.79	0.88	W	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas (million Btu)	Coke Oven Gas (million Btu)	Motor Gasoline (excluding Highway Usage) (gallons)	Hydrogen (million Btu)	Kerosene (gallons)	Pulping Liquor or Black Liquor (million Btu)	LPG and NGL(d) (gallons)	Natural Gas Total (1000 cu ft)
311221	Wet Corn Milling	0	0	W	0	W	0	1.25	W
31131	Sugar	0	0	W	0	0	0	0.89	W
311421	Fruit and Vegetable Canning	0	0	1.18	0	W	0	Q	4.57
312	Beverage and Tobacco Products	0	0	1.27	W	1.89	0	0.6	4.35
3121	Beverages	0	0	1.28	W	W	0	W	W
3122	Tobacco	0	0	1.27	0	W	0	W	W
313	Textile Mills	0	0	1.36	W	0	0	W	5.08
314	Textile Product Mills	0	0	Q	W	W	0	Q	4.34
315	Apparel	0	0	W	0	W	0	Q	4.63
316	Leather and Allied Products	0	0	W	0	0	0	0.96	6.18
321	Wood Products	0	0	1.24	W	2.07	0	W	4.72
321113	Sawmills	0	0	1.15	W	2.52	0	0.84	3.92
3212	Veneer, Plywood, and Engineered Woods	0	0	1.26	0	1.28	0	W	4.82
3219	Other Wood Products	0	0	1.88	0	1.96	0	0.99	5.46
322	Paper	0	0	1.23	1.7	0.86	2.17	0.79	4.05
322110	Pulp Mills	0	0	1.33	0	W	W	W	3.84
322121	Paper Mills, except Newsprint	0	0	1.25	W	0.85	0	0.73	4.07
322122	Newsprint Mills	0	0	0.93	0	W	W	0.83	3.88
322130	Paperboard Mills	0	0	1.21	1.47	1.42	W	0.85	3.91
323	Printing and Related Support	0	0	Q	W	W	0	0.93	5.53
324	Petroleum and Coal Products	0	0	0.99	4.59	1.17	0	Q	3.48
324110	Petroleum Refineries	0	0	0	4.59	0	0	0.93	3.44
324199	Other Petroleum and Coal Products	0	0	1.39	0	W	0	1.24	4.17
325	Chemicals	0	0	1.16	1.09	W	W	0.5	3.39
325110	Petrochemicals	0	0	1	8.29	W	0	0.49	3.5
325120	Industrial Gases	0	0	W	W	W	0	W	3.74
325181	Alkalies and Chlorine	0	0	W	W	0	0	W	W
325182	Carbon Black	0	0	1.24	0	W	W	0.95	3.26
325188	Other Basic Inorganic Chemicals	0	0	0.95	4.92	W	0	W	4.03
325192	Cyclic Crudes and Intermediates	0	0	W	6.11	0	0	W	3.58
325193	Ethyl Alcohol	0	0	W	0	0	0	1.05	W
325199	Other Basic Organic Chemicals	0	0	1.14	6.77	W	0	0.6	3.42
325211	Plastics Materials and Resins	0	0	1.32	2.31	W	0	0.44	2.83
325212	Synthetic Rubber	0	0	1.37	37.83	W	0	W	3.45
325222	Noncellulosic Organic Fibers	0	0	1.44	W	1.26	0	0.79	3.85
325311	Nitrogenous Fertilizers	0	0	1.39	0	0	0	1.51	3.33
325312	Phosphatic Fertilizers	0	0	W	0	0	0	1.09	3.52
3254	Pharmaceuticals and Medicines	0	0	1.32	W	W	0	0.9	4.88
325412	Pharmaceutical Preparation	0	0	W	W	0	0	1.2	4.76
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	W	0	0	0	0.81	5.55
326	Plastics and Rubber Products	0	0	Q	1342.07	W	0	W	4.95
327	Nonmetallic Mineral Products	0	0	1.38	1.76	Q	0	0.98	4.2
3272	Glass and Glass Products	0	0	1.29	1.7	2.09	0	W	4.27
327211	Flat Glass	0	0	1.46	1.47	2.29	0	1.16	4.27
327213	Glass Containers	0	0	W	0	0	0	0.75	3.98
327310	Cements	0	0	1.35	0	W	0	2.12	3.92

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	Waste Gases and Byproduct Gases (million Btu)	Waste Oils and Tars (million Btu)	Industrial Hot Water Total (million Btu)
311221	Wet Corn Milling	5.42	3.62	2	0	2	0	0	0
31131	Sugar	4.17	3.81	0	0	0	0	0	0
311421	Fruit and Vegetable Canning	4.69	4.49	0	0	0	0	0	0
312	Beverage and Tobacco Products	4.35	4.35	0	0	0	0	0	0
3121	Beverages	4.12	4.25	0	0	0	0	0	0
3122	Tobacco	5.4	4.75	0	0	0	0	0	0
313	Textile Mills	5.41	4.53	4.25	W	4.15	0	0	0
314	Textile Product Mills	4.27	4.41	0	0	0	0	0	W
315	Apparel	4.99	3.92	0	0	0	0	0	0
316	Leather and Allied Products	6.45	5.61	0	0	0	0	0	0
321	Wood Products	4.99	4.24	3.3	0	3.3	0	W	0
321113	Sawmills	4.16	3.67	3.83	0	3.83	0	0	0
3212	Veneer, Plywood, and Engineered Woods	5.01	4.5	4.71	0	4.71	0	0	0
3219	Other Wood Products	5.46	5.29	Q	0	Q	0	0	0
322	Paper	4.45	3.94	4.95	Q	5.43	0	2.81	0
322110	Pulp Mills	4.5	3.73	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	4.37	3.99	9.94	0	9.94	0	W	0
322122	Newsprint Mills	W	3.88	W	0	W	0	0	0
322130	Paperboard Mills	4.2	3.89	4.17	Q	W	0	W	0
323	Printing and Related Support	5.69	5.19	5.07	5.07	0	0	0	0
324	Petroleum and Coal Products	3.69	3.46	4.31	9.29	4.08	W	0	W
324110	Petroleum Refineries	3.42	3.44	4.31	9.29	4.08	0	0	W
324199	Other Petroleum and Coal Products	4.29	4.09	0	0	0	0	0	0
325	Chemicals	3.87	3.34	4.28	3.79	4.34	3.96	W	W
325110	Petrochemicals	4.03	3.49	W	0	W	0	0	0
325120	Industrial Gases	3.41	3.83	4.23	0	4.23	0	0	0
325181	Alkalies and Chlorine	4.36	W	W	W	0	0	0	0
325182	Carbon Black	3.14	3.53	0	0	0	0	W	0
325188	Other Basic Inorganic Chemicals	3.86	4.06	7.11	W	6.44	W	0	0
325192	Cyclic Crudes and Intermediates	3.52	3.62	4.41	0	4.41	W	W	0
325193	Ethyl Alcohol	3.79	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	3.64	3.4	3.64	W	3.7	3.98	W	0
325211	Plastics Materials and Resins	4.21	2.72	4.58	W	4.53	0	0	0
325212	Synthetic Rubber	3.49	3.44	5.29	0	5.29	0	0	0
325222	Noncellulosic Organic Fibers	4.29	3.62	4.39	0	4.39	W	0	W
325311	Nitrogenous Fertilizers	3.91	3.33	5.95	0	5.95	0	0	0
325312	Phosphatic Fertilizers	4.7	3.38	5.98	0	5.98	0	0	0
3254	Pharmaceuticals and Medicines	5.08	4.51	4.09	7.24	4.07	0	0	0
325412	Pharmaceutical Preparation	4.99	4.29	4.27	0	4.27	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	6.24	4.52	0	0	0	0	0	0
326	Plastics and Rubber Products	4.97	4.9	2.26	3.59	Q	0	0	W
327	Nonmetallic Mineral Products	4.3	4.09	3.41	5.16	3.28	W	1.84	W
3272	Glass and Glass Products	4.34	4.18	5.3	5.3	0	0	0	W
327211	Flat Glass	4.27	4.11	0	0	0	0	0	0
327213	Glass Containers	5.4	3.88	0	0	0	0	0	0
327310	Cements	4.22	3.55	3.28	0	3.28	W	1.74	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Biomass Total(e) (million Btu)	Selected Wood and Other Biomass Components: Agricultural Waste (million Btu)	Wood Harvested Directly from Trees (million Btu)	Wood Residues and Byproducts from Mill Processing (million Btu)	Wood-Related and Paper-Related Refuse (million Btu)	All Other Energy Sources (million Btu)	RSE Row Factors
311221	Wet Corn Milling	W	0	W	W	W	0	0.8
31131	Sugar	0	0	0	0	0	0	0.7
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	7.5
312	Beverage and Tobacco Products	W	0	0	W	0	0	3
3121	Beverages	W	0	0	W	0	0	4
3122	Tobacco	0	0	0	0	0	0	0.7
313	Textile Mills	W	0	0	W	W	W	12.3
314	Textile Product Mills	W	0	0	W	0	0	14.6
315	Apparel	0	0	0	0	0	0	16.8
316	Leather and Allied Products	0	0	0	0	0	0	6
321	Wood Products	3.93	W	5.44	2.1	2.69	0	8.5
321113	Sawmills	W	0	W	1.63	0	0	10.9
3212	Veneer, Plywood, and Engineered Woods	6.03	W	8.92	2.74	W	0	6.2
3219	Other Wood Products	1.4	0	W	1.44	W	0	11.7
322	Paper	1.56	1.21	1.76	1.23	Q	1.46	1.9
322110	Pulp Mills	1.68	0	0	1.68	0	W	0.8
322121	Paper Mills, except Newsprint	1.2	W	W	0.82	W	W	1.6
322122	Newsprint Mills	W	W	W	1.19	0	W	0.8
322130	Paperboard Mills	1.64	W	W	1.41	W	1.66	2.5
323	Printing and Related Support	0	0	0	0	0	0	6.3
324	Petroleum and Coal Products	W	0	0	W	W	0	3.9
324110	Petroleum Refineries	0	0	0	0	0	0	1.6
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	1.5
325	Chemicals	W	0	W	W	W	0.6	3.5
325110	Petrochemicals	0	0	0	0	0	0	0.7
325120	Industrial Gases	0	0	0	0	0	0	2
325181	Alkalies and Chlorine	0	0	0	0	0	0	0.8
325182	Carbon Black	0	0	0	0	0	0	0.7
325188	Other Basic Inorganic Chemicals	W	0	0	W	0	0	2.6
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0.8
325193	Ethyl Alcohol	0	0	0	0	0	0	0.6
325199	Other Basic Organic Chemicals	0	0	0	0	0	W	5.9
325211	Plastics Materials and Resins	0	0	0	0	0	W	2.7
325212	Synthetic Rubber	0	0	0	0	0	0	2.9
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0.8
325311	Nitrogenous Fertilizers	0	0	0	0	0	W	0.7
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0.7
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	4
325412	Pharmaceutical Preparation	0	0	0	0	0	0	5.9
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	W	W	W	0	2
326	Plastics and Rubber Products	W	0	0	0	W	0	13.3
327	Nonmetallic Mineral Products	W	W	0	W	W	0.87	4.6
3272	Glass and Glass Products	W	W	0	0	0	W	1.7
327211	Flat Glass	0	0	0	0	0	W	0.8
327213	Glass Containers	W	W	0	0	0	0	0.7
327310	Cements	0	0	0	0	0	0.96	2.5

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL (million Btu)	Acetylene (cu ft)	Breeze (short tons)	Coal Total (short tons)	Anthracite (short tons)	Bituminous and Subbituminous Coal (short tons)	Lignite (short tons)	Coal Coke (short tons)	Petroleum Coke (gallons)
327410	Lime	2.35	W	0	43.88	0	43.74	W	0	0.14
327993	Mineral Wool	5.88	0.25	0	0	0	0	0	W	0
331	Primary Metals	5.45	0.13	W	55.37	107.73	51.08	W	121.01	0.16
331111	Iron and Steel Mills	5.2	0.11	W	52.5	99	W	0	116.48	0.51
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	0	W	0	W	0
3312	Steel Products from Purchased Steel	8.58	0.15	0	197.4	0	W	0	0	0
3313	Alumina and Aluminum	5.17	0.14	0	W	W	0	0	W	0.16
331312	Primary Aluminum	5.03	W	0	W	W	0	0	0	0.16
3314	Nonferrous Metals, except Aluminum	6.8	Q	W	80	0	W	0	W	0
3315	Foundries	7.6	0.15	0	W	W	106.64	W	176.34	W
331511	Iron Foundries	7.8	0.14	0	74.11	0	W	0	176.34	W
331521	Aluminum Die-Casting Foundries	7.09	0.13	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	6.3	W	0	0	0	0	0	0	0
332	Fabricated Metal Products	9.81	0.12	0	Q	W	0	0	0	0
333	Machinery	11.94	Q	0	0	0	0	0	0	0
334	Computer and Electronic Products	12.42	Q	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	11.35	0.55	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	4.74	0.13	W	62	0	W	0	0	W
336	Transportation Equipment	9.08	0.12	0	48.63	0	W	0	0	0
336112	Light Trucks and Utility Vehicles	W	W	0	0	0	0	0	0	0
337	Furniture and Related Products	6.14	Q	0	W	0	64.08	0	0	0
339	Miscellaneous	10.96	Q	0	0	0	0	0	0	0
	Total	5.17	Q	W	44.64	68.66	44.32	W	116.63	0.26
	West Census Region									
	RSE Column Factors:	1.3	2.4	0.4	0.7	0.5	0.7	0.8	0.5	0.6
311	Food	8.38	0.21	0	W	0	W	0	W	0
311221	Wet Corn Milling	4.95	0	0	0	0	0	0	0	0
31131	Sugar	W	W	0	W	0	W	0	W	0
311421	Fruit and Vegetable Canning	7.37	0.15	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	9.69	0.19	0	0	0	0	0	0	0
3121	Beverages	9.69	0.19	0	0	0	0	0	0	0
3122	Tobacco	W	0	0	0	0	0	0	0	0
313	Textile Mills	8.26	W	0	0	0	0	0	0	0
314	Textile Product Mills	14.15	0	0	0	0	0	0	0	0
315	Apparel	13.55	0	0	0	0	0	0	0	0
316	Leather and Allied Products	20	0	0	0	0	0	0	0	0
321	Wood Products	1.9	0.15	0	0	0	0	0	0	0
321113	Sawmills	4.84	0.14	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	0.76	0.14	0	0	0	0	0	0	0
3219	Other Wood Products	25.97	0.26	0	0	0	0	0	0	0
322	Paper	6.31	0.14	0	W	W	W	0	0	0
322110	Pulp Mills	W	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	5.79	W	0	0	0	0	0	0	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity Components: Electricity from Local Utility(b) (kWh)	Electricity Components: Electricity from Sources Other than Local Utility(c) (kWh)	Total Diesel Fuel and Distillate Fuel Oil (gallons)	Diesel Fuel (gallons)	Distillate Fuel Oil (gallons)	Residual Fuel Oil (gallons)
327410	Lime	0.039	0.039	0	0.9	0.91	W	0
327993	Mineral Wool	0.041	0.04	0.045	1.25	1.25	0	0
331	Primary Metals	W	0.032	0.028	0.91	0.91	0.97	0.72
331111	Iron and Steel Mills	0.033	0.033	0.038	0.89	0.89	W	0.72
331112	Electrometallurgical Ferroalloy Products	W	W	W	W	W	W	0
3312	Steel Products from Purchased Steel	W	0.041	0.044	1.02	1.08	W	0
3313	Alumina and Aluminum	0.028	0.028	0.026	1.04	1.04	W	0
331312	Primary Aluminum	W	0.025	W	0.95	0.95	W	0
3314	Nonferrous Metals, except Aluminum	0.037	0.04	0.028	0.84	0.84	W	0
3315	Foundries	0.042	0.041	0.053	0.88	0.88	W	0
331511	Iron Foundries	0.045	0.044	Q	0.86	0.86	W	0
331521	Aluminum Die-Casting Foundries	0.05	0.05	0.074	0.82	W	0	0
331524	Aluminum Foundries, except Die-Casting	0.044	0.044	Q	Q	Q	0	0
332	Fabricated Metal Products	0.055	0.055	Q	1.11	1.03	W	Q
333	Machinery	0.055	0.055	Q	Q	0.99	W	0
334	Computer and Electronic Products	0.048	0.049	0.041	Q	0.82	W	0
334413	Semiconductors and Related Devices	0.044	0.045	0.04	1.05	1.05	W	0
335	Electrical Equip., Appliances, and Components	0.049	0.048	0.051	0.84	0.89	W	Q
336	Transportation Equipment	0.047	0.047	Q	1.16	1.21	0.81	0.5
336112	Light Trucks and Utility Vehicles	0.04	0.04	0	W	W	W	0
337	Furniture and Related Products	0.061	0.061	Q	1.01	1.17	W	0
339	Miscellaneous	0.054	0.054	0.059	0.92	1.55	W	Q
	Total	0.041	0.042	0.037	0.9	0.98	0.75	0.53
	RSE Column Factors:	1.4	1.7	0.9	1.6	1.6	0.8	0.9
311	Food	W	0.079	0.092	1.01	1.01	W	0.61
311221	Wet Corn Milling	W	0.044	0	W	W	W	0
31131	Sugar	0.06	0.06	0	0.93	0.93	W	W
311421	Fruit and Vegetable Canning	0.087	0.087	0.093	0.88	W	W	Q
312	Beverage and Tobacco Products	0.083	0.091	0.045	1.16	1.18	W	0
3121	Beverages	0.083	0.091	0.045	1.16	1.18	W	0
3122	Tobacco	0.103	0.103	0	0	0	0	0
313	Textile Mills	0.067	0.066	0.095	0	0	0	0
314	Textile Product Mills	0.105	0.105	0.105	0	0	0	0
315	Apparel	0.085	0.085	0	Q	W	W	0
316	Leather and Allied Products	0.112	0.112	0	Q	W	W	0
321	Wood Products	W	0.058	0.052	1.09	1.12	0.96	0.57
321113	Sawmills	W	0.056	W	1.11	1.15	1	W
3212	Veneer, Plywood, and Engineered Woods	0.05	0.051	0.048	1.01	1.02	W	0
3219	Other Wood Products	0.077	0.076	0.083	1.19	1.2	W	0
322	Paper	W	0.045	0.042	0.59	0.99	W	0.56
322110	Pulp Mills	0.032	0.028	0.041	1.01	W	W	0.59
322121	Paper Mills, except Newsprint	0.039	0.042	0.031	1.08	1.08	W	0.59

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas (million Btu)	Coke Oven Gas (million Btu)	Motor Gasoline (excluding Highway Usage) (gallons)	Hydrogen (million Btu)	Kerosene (gallons)	Pulping Liquor or Black Liquor (million Btu)	LPG and NGL(d) (gallons)	Natural Gas Total (1000 cu ft)
327410	Lime	0	0	1.2	0	W	0	1.73	3.75
327993	Mineral Wool	0	0	1.09	0	W	0	0.85	4
331	Primary Metals	0	0	1.23	12.07	1.5	0	0.83	4.13
331111	Iron and Steel Mills	0	0	1.24	17.46	1.89	0	1.05	3.96
331112	Electrometallurgical Ferroalloy Products	0	0	W	0	0	0	W	W
3312	Steel Products from Purchased Steel	0	0	1.39	9.7	1.54	0	0.9	4.85
3313	Alumina and Aluminum	0	0	1.25	W	1.38	0	W	W
331312	Primary Aluminum	0	0	1.25	W	W	0	0.79	W
3314	Nonferrous Metals, except Aluminum	0	0	1.27	W	1.45	0	0.72	4.44
3315	Foundries	0	0	1.09	W	1.54	0	W	W
331511	Iron Foundries	0	0	1.04	W	1.16	0	0.77	4.33
331521	Aluminum Die-Casting Foundries	0	0	W	0	1.81	0	0.8	5.11
331524	Aluminum Foundries, except Die-Casting	0	0	1.27	0	W	0	0.86	4.42
332	Fabricated Metal Products	0	0	1.29	0	1.47	0	1.03	4.83
333	Machinery	0	0	1.41	W	Q	0	0.97	5.78
334	Computer and Electronic Products	0	0	1.55	37.78	W	0	0.96	5.45
334413	Semiconductors and Related Devices	0	0	1.41	33.71	W	0	Q	5.11
335	Electrical Equip., Appliances, and Components	0	0	Q	Q	1.62	0	0.85	5.02
336	Transportation Equipment	0	0	1.21	W	Q	0	0.82	4.81
336112	Light Trucks and Utility Vehicles	0	0	W	0	0	0	W	W
337	Furniture and Related Products	0	0	Q	0	Q	0	0.77	4.86
339	Miscellaneous	0	0	1.53	W	W	0	0.86	4.84
	Total	0	0	1.27	2.08	W	2.69	0.5	3.75
	RSE Column Factors:	0	0	1.7	0.7	1	0	2.1	1.5
311	Food	0	0	1.45	W	W	0	Q	4.87
311221	Wet Corn Milling	0	0	W	0	0	0	0.95	W
31131	Sugar	0	0	W	0	0	0	0.96	W
311421	Fruit and Vegetable Canning	0	0	1.63	0	W	0	0.81	5.02
312	Beverage and Tobacco Products	0	0	1.57	W	W	0	0.95	4.51
3121	Beverages	0	0	1.57	W	W	0	W	W
3122	Tobacco	0	0	0	0	0	0	0	0
313	Textile Mills	0	0	W	0	0	0	0.91	Q
314	Textile Product Mills	0	0	0	0	0	0	1.45	5.71
315	Apparel	0	0	W	0	0	0	1.74	Q
316	Leather and Allied Products	0	0	0	0	0	0	0	Q
321	Wood Products	0	0	1.41	0	1.26	0	0.74	5.19
321113	Sawmills	0	0	1.37	0	W	0	0.62	5.04
3212	Veneer, Plywood, and Engineered Woods	0	0	1.42	0	W	0	0.73	4.94
3219	Other Wood Products	0	0	1.55	0	W	0	0.91	6.6
322	Paper	0	0	1.3	W	W	0	0.83	4.44
322110	Pulp Mills	0	0	W	0	0	0	1.11	5.09
322121	Paper Mills, except Newsprint	0	0	W	0	W	0	0.72	4.44

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	Waste Gases and Byproduct Gases (million Btu)	Waste Oils and Tars (million Btu)	Industrial Hot Water Total (million Btu)
327410	Lime	3.62	3.8	0	0	0	0	W	0
327993	Mineral Wool	4.13	3.96	0	0	0	0	0	0
331	Primary Metals	4.68	3.91	W	7.5	W	0	W	0
331111	Iron and Steel Mills	4.32	3.82	0	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	4.37	Q	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	4.86	4.82	7.5	7.5	0	0	0	0
3313	Alumina and Aluminum	5.44	3.94	W	0	W	0	W	0
331312	Primary Aluminum	W	3.75	W	0	W	0	W	0
3314	Nonferrous Metals, except Aluminum	4.99	4.03	0	0	0	0	0	0
3315	Foundries	4.67	4.36	0	0	0	0	W	0
331511	Iron Foundries	4.27	4.87	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	5.74	4.5	0	0	0	0	W	0
331524	Aluminum Foundries, except Die-Casting	5.41	3.88	0	0	0	0	0	0
332	Fabricated Metal Products	4.78	4.95	0	0	0	0	0	0
333	Machinery	6	4.58	Q	0	Q	W	0	0
334	Computer and Electronic Products	5.88	4.74	6.11	6.11	0	0	0	W
334413	Semiconductors and Related Devices	5.68	4.6	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	5.46	4.53	0	0	0	0	0	0
336	Transportation Equipment	5.03	4.55	8.81	0	8.81	0	0	W
336112	Light Trucks and Utility Vehicles	W	4.03	8.81	0	8.81	0	0	0
337	Furniture and Related Products	4.7	Q	1.92	0	1.92	0	0	0
339	Miscellaneous	4.81	5.6	0	0	0	0	0	0
	Total	4.54	3.54	4.27	4.39	4.26	3.92	3.55	W
	RSE Column Factors:	1.9	1.2	1	0.8	1.1	1.9	0.9	0
311	Food	5.16	4.73	3.55	0	3.55	0	W	0
311221	Wet Corn Milling	4.97	W	0	0	0	0	0	0
31131	Sugar	3.61	2.97	3.02	0	3.02	0	0	0
311421	Fruit and Vegetable Canning	4.41	5.14	0	0	0	0	W	0
312	Beverage and Tobacco Products	6.27	3.84	4.52	0	4.52	0	0	0
3121	Beverages	6.27	3.84	4.52	0	4.52	0	0	0
3122	Tobacco	0	0	0	0	0	0	0	0
313	Textile Mills	Q	5.05	4.49	4.49	0	0	0	0
314	Textile Product Mills	6.19	4.83	0	0	0	0	0	0
315	Apparel	Q	Q	0	0	0	0	0	0
316	Leather and Allied Products	Q	0	0	0	0	0	0	0
321	Wood Products	5.59	4.72	4.29	4.32	4.29	0	W	0
321113	Sawmills	4.98	5.15	5.38	0	5.38	0	0	0
3212	Veneer, Plywood, and Engineered Woods	5.71	4.54	4.05	4.32	4.02	0	0	0
3219	Other Wood Products	6.87	4.96	Q	0	Q	0	W	0
322	Paper	5.15	4.32	5.24	3.53	5.47	0	W	0
322110	Pulp Mills	10.34	3.17	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	4.9	4.41	4.9	0	4.9	0	0	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

			Selected Wood and Other Biomass Components					
NAICS Code(a)	**Subsector and Industry**	**Biomass Total(e) (million Btu)**	**Agricultural Waste (million Btu)**	**Wood Harvested Directly from Trees (million Btu)**	**Wood Residues and Byproducts from Mill Processing (million Btu)**	**Wood-Related and Paper-Related Refuse (million Btu)**	**All Other Energy Sources (million Btu)**	**RSE Row Factors**
327410	Lime	0	0	0	0	0	0	0.8
327993	Mineral Wool	W	0	0	0	W	0	1.9
331	Primary Metals	W	0	0	W	0	W	2.1
331111	Iron and Steel Mills	0	0	0	0	0	0	1.5
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	7.9
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	6.7
3313	Alumina and Aluminum	0	0	0	0	0	0	2.2
331312	Primary Aluminum	0	0	0	0	0	0	0.8
3314	Nonferrous Metals, except Aluminum	W	0	0	W	0	0	3.4
3315	Foundries	0	0	0	0	0	W	1.5
331511	Iron Foundries	0	0	0	0	0	W	1.5
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	1.5
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	1.8
332	Fabricated Metal Products	W	0	0	0	W	W	14.4
333	Machinery	0	0	0	0	0	W	10.8
334	Computer and Electronic Products	0	0	0	0	0	0	4.7
334413	Semiconductors and Related Devices	0	0	0	0	0	0	1.4
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	W	12.2
336	Transportation Equipment	0	0	0	0	0	W	3.7
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0.6
337	Furniture and Related Products	W	0	0	W	0	0	19.2
339	Miscellaneous	0	0	0	0	0	0	10.2
	Total	1.98	Q	3.23	1.27	5.54	1.15	5.1
	RSE Column Factors:	0.9	0.4	1.8	0.5	1.1	1.1	
311	Food	W	W	0	0	0	0	8.1
311221	Wet Corn Milling	0	0	0	0	0	0	2.5
31131	Sugar	0	0	0	0	0	0	0.8
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	6.4
312	Beverage and Tobacco Products	W	0	0	0	W	0	4
3121	Beverages	W	0	0	0	W	0	4
3122	Tobacco	0	0	0	0	0	0	0.7
313	Textile Mills	0	0	0	0	0	0	6.3
314	Textile Product Mills	0	0	0	0	0	0	7.5
315	Apparel	0	0	0	0	0	0	22.2
316	Leather and Allied Products	0	0	0	0	0	0	23.9
321	Wood Products	0.59	W	4.71	0.18	W	0	5.7
321113	Sawmills	1.53	W	W	1.17	0	0	6.6
3212	Veneer, Plywood, and Engineered Woods	W	0	W	W	W	0	3.2
3219	Other Wood Products	W	0	W	W	0	0	13.8
322	Paper	4.21	W	0	2.71	8.19	W	1.8
322110	Pulp Mills	W	0	0	W	0	0	0.8
322121	Paper Mills, except Newsprint	4.76	0	0	W	W	W	1.3

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL (million Btu)	Acetylene (cu ft)	Breeze (short tons)	Coal Total (short tons)	Anthracite (short tons)	Bituminous and Subbituminous Coal (short tons)	Lignite (short tons)	Coal Coke (short tons)	Petroleum Coke (gallons)
322122	Newsprint Mills	7.16	W	0	0	0	0	0	0	0
322130	Paperboard Mills	5.24	W	0	W	W	W	0	0	0
323	Printing and Related Support	14.13	0.31	0	0	0	0	0	0	0
324	Petroleum and Coal Products	4.6	0.2	0	0	0	0	0	0	W
324110	Petroleum Refineries	4.89	W	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	W	0	0	0	0	0	0	0	W
325	Chemicals	4.83	0.16	0	W	0	W	W	W	W
325110	Petrochemicals	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	10.65	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	4.23	W	0	28.14	0	W	0	0	0
325182	Carbon Black	W	W	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	4.07	W	0	W	0	W	0	W	W
325192	Cyclic Crudes and Intermediates	5.42	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	W	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	4.37	0	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	12.46	W	0	0	0	0	0	0	0
325212	Synthetic Rubber	16.23	W	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	W	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	1.9	W	0	193.98	0	0	W	0	0
325312	Phosphatic Fertilizers	5.75	W	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	13.7	0.24	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	13.74	W	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	9	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	19.53	0.2	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	5.14	0.17	W	W	0	35.49	W	38.35	0.15
3272	Glass and Glass Products	7.43	0.16	0	0	0	0	0	0	0
327211	Flat Glass	5.62	0.16	0	0	0	0	0	0	0
327213	Glass Containers	7.34	W	0	0	0	0	0	0	0
327310	Cements	3.51	0.33	W	35.93	0	35.93	0	W	0.15
327410	Lime	2.2	W	0	W	0	W	0	0	W
327993	Mineral Wool	8.55	W	0	0	0	0	0	W	0
331	Primary Metals	7.5	0.08	W	133.46	W	W	0	195.2	0.21
331111	Iron and Steel Mills	7.84	W	W	132.49	W	0	0	W	W
331112	Electrometallurgical Ferroalloy Products	W	W	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	13.36	0.15	0	0	0	0	0	0	0
3313	Alumina and Aluminum	W	0.12	0	0	0	0	0	0	W
331312	Primary Aluminum	W	0	0	0	0	0	0	0	W
3314	Nonferrous Metals, except Aluminum	7.13	0.2	0	0	0	0	0	W	W
3315	Foundries	11.95	0.3	0	W	0	W	0	W	0
331511	Iron Foundries	8.78	0.19	0	W	0	W	0	W	0
331521	Aluminum Die-Casting Foundries	18.67	Q	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	11.15	0.16	0	0	0	0	0	0	0
332	Fabricated Metal Products	16.38	0.19	0	0	0	0	0	0	0
333	Machinery	17.74	W	0	0	0	0	0	0	0
334	Computer and Electronic Products	6.17	Q	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	3.22	0.38	0	0	0	0	0	0	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity Components: Electricity from Local Utility(b) (kWh)	Electricity Components: Electricity from Sources Other than Local Utility(c) (kWh)	Total Diesel Fuel and Distillate Fuel Oil (gallons)	Diesel Fuel (gallons)	Distillate Fuel Oil (gallons)	Residual Fuel Oil (gallons)
322122	Newsprint Mills	0.039	0.039	0	0.86	W	W	W
322130	Paperboard Mills	W	0.041	0.079	0.5	0.91	W	W
323	Printing and Related Support	0.089	0.088	0.132	1.53	W	0	0
324	Petroleum and Coal Products	0.065	0.073	0.043	0.83	0.84	W	0
324110	Petroleum Refineries	W	0.069	0.042	0	0	0	0
324199	Other Petroleum and Coal Products	0.1	0.1	0	0.95	W	W	0
325	Chemicals	0.047	0.046	0.053	0.92	0.97	W	0.72
325110	Petrochemicals	0	0	0	0	0	0	0
325120	Industrial Gases	0.042	0.042	0.045	0	0	0	0
325181	Alkalies and Chlorine	W	0.035	0	1	W	W	0
325182	Carbon Black	W	0.16	0	0	0	0	W
325188	Other Basic Inorganic Chemicals	0.029	0.028	W	0.85	0.9	W	Q
325192	Cyclic Crudes and Intermediates	W	0.115	0	W	W	W	W
325193	Ethyl Alcohol	0.1	0.1	0	1.47	W	W	0
325199	Other Basic Organic Chemicals	0.039	0.04	0.037	1.27	W	W	0.53
325211	Plastics Materials and Resins	W	0.069	0.111	1.78	1.78	W	0
325212	Synthetic Rubber	0.162	0.162	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0.116	0.116	0	0	0	0	0
325311	Nitrogenous Fertilizers	0.059	0.057	0.125	1.04	W	W	0
325312	Phosphatic Fertilizers	W	0.041	0	1.06	W	W	0
3254	Pharmaceuticals and Medicines	0.086	0.087	0.079	1.53	1.59	W	0
325412	Pharmaceutical Preparation	0.079	0.081	0.076	1.28	1.32	W	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	0.047	0	0.94	W	W	0
326	Plastics and Rubber Products	0.095	0.096	0.077	1.07	1.07	W	0
327	Nonmetallic Mineral Products	0.067	0.069	0.063	1.13	1.16	W	0.62
3272	Glass and Glass Products	W	0.071	0.064	1	1.05	W	W
327211	Flat Glass	W	0.085	W	1.04	1.04	W	W
327213	Glass Containers	W	0.064	W	W	W	W	0
327310	Cements	W	0.058	0.059	0.84	0.92	W	W
327410	Lime	W	0.049	0	W	W	W	W
327993	Mineral Wool	0.06	0.058	0.062	0.89	W	W	0
331	Primary Metals	W	0.049	0.035	0.86	0.86	1.43	0
331111	Iron and Steel Mills	0.042	0.038	0.049	1.07	1.07	W	0
331112	Electrometallurgical Ferroalloy Products	W	0.092	0	W	W	W	0
3312	Steel Products from Purchased Steel	W	0.099	0.078	1.41	1.41	W	0
3313	Alumina and Aluminum	W	0.05	0.03	1	1.01	W	0
331312	Primary Aluminum	0.032	0.042	0.029	1.03	1.03	W	0
3314	Nonferrous Metals, except Aluminum	0.038	0.041	0.023	0.81	W	W	0
3315	Foundries	W	0.091	0.099	1.12	1.12	W	0
331511	Iron Foundries	0.085	0.085	0.09	1.11	1.11	W	0
331521	Aluminum Die-Casting Foundries	W	0.126	0.14	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0.107	0.107	0	2.3	2.3	W	0
332	Fabricated Metal Products	0.097	0.097	0.099	Q	Q	0	0
333	Machinery	0.097	0.097	0.096	1.05	W	W	0
334	Computer and Electronic Products	0.073	0.073	0.074	1.55	1.52	W	0.57
334413	Semiconductors and Related Devices	0.059	0.059	0.062	1.49	1.49	W	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas (million Btu)	Coke Oven Gas (million Btu)	Motor Gasoline (excluding Highway Usage) (gallons)	Hydrogen (million Btu)	Kerosene (gallons)	Pulping Liquor or Black Liquor (million Btu)	LPG and NGL(d) (gallons)	Natural Gas Total (1000 cu ft)
322122	Newsprint Mills	0	0	W	0	W	0	W	W
322130	Paperboard Mills	0	0	1.26	W	0	0	0.71	4.39
323	Printing and Related Support	0	0	Q	0	0	0	1.05	4.75
324	Petroleum and Coal Products	0	0	W	W	0	0	Q	3.27
324110	Petroleum Refineries	0	0	0	W	0	0	0	3.18
324199	Other Petroleum and Coal Products	0	0	W	0	0	0	0	3.66
325	Chemicals	0	0	1.27	W	W	0	Q	2.64
325110	Petrochemicals	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0.49	W
325181	Alkalies and Chlorine	0	0	W	0	0	0	1.11	W
325182	Carbon Black	0	0	0	0	0	0	W	W
325188	Other Basic Inorganic Chemicals	0	0	1.43	W	0	0	1.09	4.08
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	W	W
325193	Ethyl Alcohol	0	0	1.52	0	0	0	1.12	3
325199	Other Basic Organic Chemicals	0	0	W	W	W	0	Q	3.78
325211	Plastics Materials and Resins	0	0	W	0	0	0	1.34	4.98
325212	Synthetic Rubber	0	0	0	0	0	0	1.45	1.58
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	2.26	0
325311	Nitrogenous Fertilizers	0	0	1.78	0	W	0	0.57	1.57
325312	Phosphatic Fertilizers	0	0	W	0	0	0	0.9	3.13
3254	Pharmaceuticals and Medicines	0	0	Q	W	0	0	1.27	5.7
325412	Pharmaceutical Preparation	0	0	0	W	0	0	1.27	5.98
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0.92	4.2
326	Plastics and Rubber Products	0	0	1.56	W	W	0	1.14	5.29
327	Nonmetallic Mineral Products	0	0	1.28	5.07	1.34	0	1.01	4.37
3272	Glass and Glass Products	0	0	W	2.82	W	0	0.84	4.19
327211	Flat Glass	0	0	W	0.89	0	0	0.98	4.4
327213	Glass Containers	0	0	W	0	0	0	0.76	3.77
327310	Cements	0	0	1.35	0	W	0	1.09	3.98
327410	Lime	0	0	W	0	W	0	W	W
327993	Mineral Wool	0	0	W	0	0	0	0.84	3.77
331	Primary Metals	0	0	1.35	7.01	1.13	0	0.91	4.66
331111	Iron and Steel Mills	0	0	1.47	W	0	0	1.17	5.3
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	W	W
3312	Steel Products from Purchased Steel	0	0	1.6	0	W	0	0.8	5.6
3313	Alumina and Aluminum	0	0	1.41	0	W	0	0.82	3.96
331312	Primary Aluminum	0	0	1.37	0	0	0	W	3.65
3314	Nonferrous Metals, except Aluminum	0	0	1.15	102.38	W	0	1.04	W
3315	Foundries	0	0	1.62	W	W	0	W	W
331511	Iron Foundries	0	0	1.45	0	0	0	1.23	4.74
331521	Aluminum Die-Casting Foundries	0	0	0	0	W	0	Q	W
331524	Aluminum Foundries, except Die-Casting	0	0	W	0	0	0	1.29	5.64
332	Fabricated Metal Products	0	0	Q	W	W	0	1.15	5.82
333	Machinery	0	0	Q	W	W	0	1.28	5.35
334	Computer and Electronic Products	0	0	1.31	0.13	W	0	1.12	5.21
334413	Semiconductors and Related Devices	0	0	1.65	0.1	0	0	1.39	5.44

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	Waste Gases and Byproduct Gases (million Btu)	Waste Oils and Tars (million Btu)	Industrial Hot Water Total (million Btu)
322122	Newsprint Mills	5.35	4.13	5.81	0	5.81	0	0	0
322130	Paperboard Mills	5.18	4.31	W	W	0	0	W	0
323	Printing and Related Support	4.42	5.74	0	0	0	0	0	0
324	Petroleum and Coal Products	3.51	3.23	W	0	W	0	W	0
324110	Petroleum Refineries	3.36	3.16	W	0	W	0	0	0
324199	Other Petroleum and Coal Products	3.68	3.64	0	0	0	0	0	0
325	Chemicals	4.15	2.33	4.09	4.35	3.97	W	W	W
325110	Petrochemicals	0	0	0	0	0	0	0	0
325120	Industrial Gases	3.58	3.21	0	0	0	0	0	0
325181	Alkalies and Chlorine	4.09	3.05	2.16	0	2.16	0	0	0
325182	Carbon Black	6.62	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	4.49	4.01	4.86	4.76	5.12	W	0	0
325192	Cyclic Crudes and Intermediates	3.74	W	0	0	0	0	W	0
325193	Ethyl Alcohol	3.49	2.54	W	W	0	0	0	0
325199	Other Basic Organic Chemicals	6.08	3.69	6.12	0	6.12	0	0	0
325211	Plastics Materials and Resins	5.69	4.37	0	0	0	0	0	0
325212	Synthetic Rubber	1.58	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	6.63	1.57	0	0	0	0	0	0
325312	Phosphatic Fertilizers	W	2.98	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	5.06	6.38	0	0	0	0	0	W
325412	Pharmaceutical Preparation	5.73	6.41	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	5.89	4.01	0	0	0	0	0	0
326	Plastics and Rubber Products	5.75	4.67	0	0	0	W	0	0
327	Nonmetallic Mineral Products	4.17	4.41	0	0	0	W	W	0
3272	Glass and Glass Products	4.42	4.17	0	0	0	0	0	0
327211	Flat Glass	5.28	4.39	0	0	0	0	0	0
327213	Glass Containers	3.09	3.82	0	0	0	0	0	0
327310	Cements	3.01	4.53	0	0	0	0	W	0
327410	Lime	W	0	0	0	0	W	0	0
327993	Mineral Wool	3.39	3.91	0	0	0	0	0	0
331	Primary Metals	3.82	4.97	3.89	0	3.89	0	W	0
331111	Iron and Steel Mills	5.05	5.31	3.33	0	3.33	0	0	0
331112	Electrometallurgical Ferroalloy Products	4.95	4.64	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	6.19	5.52	0	0	0	0	0	0
3313	Alumina and Aluminum	4.36	3.89	0	0	0	0	0	0
331312	Primary Aluminum	Q	3.58	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	2.91	5.18	7.53	0	7.53	0	0	0
3315	Foundries	5.9	5.09	0	0	0	0	W	0
331511	Iron Foundries	6.18	4.35	0	0	0	0	W	0
331521	Aluminum Die-Casting Foundries	5.88	7.1	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	5.96	4.87	0	0	0	0	0	0
332	Fabricated Metal Products	6.04	5.38	Q	Q	0	0	0	0
333	Machinery	5.51	5.06	0	0	0	0	0	0
334	Computer and Electronic Products	5.66	4.4	Q	Q	0	0	0	0
334413	Semiconductors and Related Devices	5.69	4.75	0	0	0	0	0	0

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Biomass Total(e) (million Btu)	Selected Wood and Other Biomass Components: Agricultural Waste (million Btu)	Wood Harvested Directly from Trees (million Btu)	Wood Residues and Byproducts from Mill Processing (million Btu)	Wood-Related and Paper-Related Refuse (million Btu)	All Other Energy Sources (million Btu)	RSE Row Factors
322122	Newsprint Mills	W	W	0	2.38	W	W	0.8
322130	Paperboard Mills	3.37	0	0	2.11	W	0	1.3
323	Printing and Related Support	0	0	0	0	0	0	15.5
324	Petroleum and Coal Products	0	0	0	0	0	W	4.4
324110	Petroleum Refineries	0	0	0	0	0	0	3.9
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0.7
325	Chemicals	W	0	0	W	W	W	2.4
325110	Petrochemicals	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	1.4
325181	Alkalies and Chlorine	0	0	0	0	0	0	0.7
325182	Carbon Black	0	0	0	0	0	0	0.6
325188	Other Basic Inorganic Chemicals	0	0	0	0	0	0	1.7
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0.7
325193	Ethyl Alcohol	0	0	0	0	0	0	0.7
325199	Other Basic Organic Chemicals	0	0	0	0	0	W	2.7
325211	Plastics Materials and Resins	W	0	0	0	W	0	2.2
325212	Synthetic Rubber	0	0	0	0	0	0	0.6
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0.6
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0.7
325312	Phosphatic Fertilizers	0	0	0	0	0	W	0.6
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	3.1
325412	Pharmaceutical Preparation	0	0	0	0	0	0	2.9
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0.6
326	Plastics and Rubber Products	W	0	0	0	W	0	9.3
327	Nonmetallic Mineral Products	0	0	0	0	0	0.51	3.3
3272	Glass and Glass Products	0	0	0	0	0	0	1
327211	Flat Glass	0	0	0	0	0	0	0.7
327213	Glass Containers	0	0	0	0	0	0	0.7
327310	Cements	0	0	0	0	0	0.48	1.3
327410	Lime	0	0	0	0	0	W	0.8
327993	Mineral Wool	0	0	0	0	0	0	0.9
331	Primary Metals	W	W	0	0	W	0	2.6
331111	Iron and Steel Mills	W	W	0	0	0	0	2
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0.6
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	2.4
3313	Alumina and Aluminum	0	0	0	0	0	0	2.5
331312	Primary Aluminum	0	0	0	0	0	0	0.9
3314	Nonferrous Metals, except Aluminum	0	0	0	0	0	0	5.4
3315	Foundries	W	0	0	0	W	0	2
331511	Iron Foundries	W	0	0	0	W	0	0.9
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	3.6
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	1.9
332	Fabricated Metal Products	W	0	0	0	W	W	10.2
333	Machinery	0	0	0	0	0	W	13.5
334	Computer and Electronic Products	0	0	0	0	0	0	5.2
334413	Semiconductors and Related Devices	0	0	0	0	0	0	4.1

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL (million Btu)	Acetylene (cu ft)	Breeze (short tons)	Coal Total (short tons)	Anthracite (short tons)	Bituminous and Subbituminous Coal (short tons)	Lignite (short tons)	Coal Coke (short tons)	Petroleum Coke (gallons)
335	Electrical Equip., Appliances, and Components	12.7	0.15	0	0	0	0	0	0	0
336	Transportation Equipment	14.68	0.17	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	33.17	W	0	0	0	0	0	0	0
337	Furniture and Related Products	18.65	Q	0	0	0	0	0	0	0
339	Miscellaneous	18.49	Q	0	0	0	0	0	0	0
	Total	6.15	0.13	W	34.3	W	33.12	W	162.35	0.22

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) A 'Local Utility' is an entity that produces and/or delivers a particular energy source (for example, electricity, natural gas, steam) and is legally obligated to provide service to the general public within its franchise area.
(c) 'Sources Other than Local Utility' include independent producers, brokers, marketers, and marketing subsidiaries of utilities; for the case of electricity sources, also include small power producers and cogenerators not located at the establishment site.
(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'
(e) Four components of 'Biomass' are collected: agricultural waste, wood harvested directly from trees, wood residues and byproducts from mill processing, and wood-related and paper-related refuse. The average price of 'Biomass Total' is computed as the sum of the dollar expenditures for those four components divided by the sum of the Btu quantities purchased of those four components. The 'Biomass Total' does not include pulping liquor or black liquor.
(f) The price estimates for coal in NAICS 3313 and 331312 include anthracite coal for the production of carbon anodes. Due to the high cost of transporting anthracite from the East Coast to the South and West, the prices of coal in those regions are relatively high.
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.
-- Estimation is not applicable.
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.'

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity Components: Electricity from Local Utility(b) (kWh)	Electricity Components: Electricity from Sources Other than Local Utility(c) (kWh)	Total Diesel Fuel and Distillate Fuel Oil (gallons)	Diesel Fuel (gallons)	Distillate Fuel Oil (gallons)	Residual Fuel Oil (gallons)
335	Electrical Equip., Appliances, and Components	0.096	0.095	0.123	3.35	W	W	0
336	Transportation Equipment	0.087	0.089	0.075	1.37	1.72	W	0
336112	Light Trucks and Utility Vehicles	W	0.145	0	1.21	W	W	0
337	Furniture and Related Products	0.107	0.107	Q	Q	W	W	Q
339	Miscellaneous	0.097	0.098	0.088	0.92	0.92	W	0
	Total	0.066	0.069	0.052	1.03	1.07	0.69	0.58

(a) The Bureau of the Census classifies establishments using the North
Industry Classification System (NAICS).
(b) A 'Local Utility' is an entity that produces and/or delivers a particular
(for example, electricity, natural gas, steam) and is legally obligated to prov
to the general public within its franchise area.
(c) 'Sources Other than Local Utility' include independent producers, bro
marketers, and marketing subsidiaries of utilities; for the case of electricity
also include small power producers and cogenerators not located at the es
(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene
normal butane, butylene, ethane-propane mixtures, propane-butane mixtur
produced at refineries or natural gas processing plants, including plants tha
Natural Gas Liquids '(NGL).'
(e) Four components of 'Biomass' are collected: agricultural waste, wood
harvested directly from trees, wood residues and byproducts from mill proc
and wood-related and paper-related refuse. The average price of 'Biomass
is computed as the sum of the dollar expenditures for those four componer
divided by the sum of the Btu quantities purchased of those four componer
The 'Biomass Total' does not include pulping liquor or black liquor.
(f) The price estimates for coal in NAICS 3313 and 331312 include anthra
production of carbon anodes. Due to the high cost of transporting anthraci
East Coast to the South and West, the prices of coal in those regions are r
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
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Notes: To obtain the RSE percentage for any table cell, multiply the cell
corresponding RSE column and RSE row factors. Totals may not equal su
components because of independent rounding.
Source: Energy Information Administration, Office of Energy Markets
and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufa
Energy Consumption Survey.'

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas (million Btu)	Coke Oven Gas (million Btu)	Motor Gasoline (excluding Highway Usage) (gallons)	Hydrogen (million Btu)	Kerosene (gallons)	Pulping Liquor or Black Liquor (million Btu)	LPG and NGL(d) (gallons)	Natural Gas Total (1000 cu ft)
335	Electrical Equip., Appliances, and Components	0	0	W	W	0	0	Q	Q
336	Transportation Equipment	0	0	Q	W	W	0	1.17	5.15
336112	Light Trucks and Utility Vehicles	0	0	W	0	W	0	2.59	7.91
337	Furniture and Related Products	0	0	W	0	0	0	1.4	5.66
339	Miscellaneous	0	0	Q	W	0	0	Q	4.24
	Total	0	0	1.48	0.87	Q	0	0.88	4.03

(a) The Bureau of the Census classifies establishments using the North
Industry Classification System (NAICS).
(b) A 'Local Utility' is an entity that produces and/or delivers a particular
(for example, electricity, natural gas, steam) and is legally obligated to prov
to the general public within its franchise area.
(c) 'Sources Other than Local Utility' include independent producers, bro
marketers, and marketing subsidiaries of utilities; for the case of electricity
also include small power producers and cogenerators not located at the es
(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene
normal butane, butylene, ethane-propane mixtures, propane-butane mixtur
produced at refineries or natural gas processing plants, including plants tha
Natural Gas Liquids '(NGL).'
(e) Four components of 'Biomass' are collected: agricultural waste, wood
harvested directly from trees, wood residues and byproducts from mill proc
and wood-related and paper-related refuse. The average price of 'Biomass
is computed as the sum of the dollar expenditures for those four componer
divided by the sum of the Btu quantities purchased of those four componer
The 'Biomass Total' does not include pulping liquor or black liquor.
(f) The price estimates for coal in NAICS 3313 and 331312 include anthra
production of carbon anodes. Due to the high cost of transporting anthraci
East Coast to the South and West, the prices of coal in those regions are r
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* Estimate less than 0.5.
W=Withheld to avoid disclosing data for individual establishments.
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Notes: To obtain the RSE percentage for any table cell, multiply the cell
corresponding RSE column and RSE row factors. Totals may not equal su
components because of independent rounding.
Source: Energy Information Administration, Office of Energy Markets
and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufa
Energy Consumption Survey.'

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	Waste Gases and Byproduct Gases (million Btu)	Waste Oils and Tars (million Btu)	Industrial Hot Water Total (million Btu)
335	Electrical Equip., Appliances, and Components	Q	5.07	6.35	7.81	3.37	0	0	0
336	Transportation Equipment	6.24	4.47	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	7.91	0	0	0	0	0	0	0
337	Furniture and Related Products	5.4	9.78	0	0	0	W	0	0
339	Miscellaneous	4.37	3.67	0	0	0	0	0	0
	Total	4.82	3.75	4.48	4.39	4.48	0.49	2.06	W

(a) The Bureau of the Census classifies establishments using the North
Industry Classification System (NAICS).
(b) A 'Local Utility' is an entity that produces and/or delivers a particular
(for example, electricity, natural gas, steam) and is legally obligated to prov
to the general public within its franchise area.
(c) 'Sources Other than Local Utility' include independent producers, bro
marketers, and marketing subsidiaries of utilities; for the case of electricity
also include small power producers and cogenerators not located at the es
(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene
normal butane, butylene, ethane-propane mixtures, propane-butane mixtur
produced at refineries or natural gas processing plants, including plants tha
Natural Gas Liquids '(NGL).'
(e) Four components of 'Biomass' are collected: agricultural waste, wood
harvested directly from trees, wood residues and byproducts from mill proc
and wood-related and paper-related refuse. The average price of 'Biomass
is computed as the sum of the dollar expenditures for those four componer
divided by the sum of the Btu quantities purchased of those four componer
The 'Biomass Total' does not include pulping liquor or black liquor.
(f) The price estimates for coal in NAICS 3313 and 331312 include anthra
production of carbon anodes. Due to the high cost of transporting anthraci
East Coast to the South and West, the prices of coal in those regions are r
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.
-- Estimation is not applicable.
Notes: To obtain the RSE percentage for any table cell, multiply the cell
corresponding RSE column and RSE row factors. Totals may not equal su
components because of independent rounding.
Source: Energy Information Administration, Office of Energy Markets
and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufa
Energy Consumption Survey.'

Table 7.1 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Physical Units.

			Selected Wood and Other Biomass Components					
NAICS Code(a)	**Subsector and Industry**	**Biomass Total(e) (million Btu)**	**Agricultural Waste (million Btu)**	**Wood Harvested Directly from Trees (million Btu)**	**Wood Residues and Byproducts from Mill Processing (million Btu)**	**Wood-Related and Paper-Related Refuse (million Btu)**	**All Other Energy Sources (million Btu)**	**RSE Row Factors**
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	3.9
336	Transportation Equipment	0	0	0	0	0	0	7
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0.6
337	Furniture and Related Products	0	0	0	0	0	0	7.9
339	Miscellaneous	0	0	0	0	0	0	16.4
	Total	1.27	W	4.71	0.57	8.14	2.35	4.3

(a) The Bureau of the Census classifies establishments using the North
Industry Classification System (NAICS).
(b) A 'Local Utility' is an entity that produces and/or delivers a particular
(for example, electricity, natural gas, steam) and is legally obligated to prov
to the general public within its franchise area.
(c) 'Sources Other than Local Utility' include independent producers, bro
marketers, and marketing subsidiaries of utilities; for the case of electricity
also include small power producers and cogenerators not located at the es
(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene
normal butane, butylene, ethane-propane mixtures, propane-butane mixtur
produced at refineries or natural gas processing plants, including plants tha
Natural Gas Liquids '(NGL).'
(e) Four components of 'Biomass' are collected: agricultural waste, wood
harvested directly from trees, wood residues and byproducts from mill proc
and wood-related and paper-related refuse. The average price of 'Biomass
is computed as the sum of the dollar expenditures for those four componer
divided by the sum of the Btu quantities purchased of those four componer
The 'Biomass Total' does not include pulping liquor or black liquor.
(f) The price estimates for coal in NAICS 3313 and 331312 include anthra
production of carbon anodes. Due to the high cost of transporting anthraci
East Coast to the South and West, the prices of coal in those regions are r
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.
-- Estimation is not applicable.
Notes: To obtain the RSE percentage for any table cell, multiply the cell
corresponding RSE column and RSE row factors. Totals may not equal su
components because of independent rounding.
Source: Energy Information Administration, Office of Energy Markets
and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufa
Energy Consumption Survey.'

Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Million U.S. Dollars.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity from Local Utility(b)	Electricity from Sources Other than Local Utility(c)	Natural Gas Total	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	RSE Row Factors
	Total United States										
	RSE Column Factors:	0.9	1	1.3	1	1.4	1	1.2	0.5	1.1	
311	Food	3,707	3,435	272	2,546	1,141	1,405	135	47	88	11
311221	Wet Corn Milling	252	222	30	237	23	214	23	20	3	1.3
31131	Sugar	39	38	1	84	26	59	10	0	10	0.9
311421	Fruit and Vegetable Canning	139	134	6	168	50	118	2	0	2	4.8
312	Beverage and Tobacco Products	479	444	34	201	85	116	23	0	23	3
3121	Beverages	413	379	34	182	74	108	23	0	23	3.1
3122	Tobacco	66	66	0	19	11	8	0	0	0	1
313	Textile Mills	1,111	1,037	74	345	218	127	W	W	W	8.8
314	Textile Product Mills	264	246	18	128	67	62	0	0	0	13.6
315	Apparel	241	235	Q	85	69	16	0	0	0	17.5
316	Leather and Allied Products	49	49	*	19	6	14	*	0	*	7.9
321	Wood Products	1,224	1,157	68	272	175	97	33	1	32	5
321113	Sawmills	376	361	15	46	29	17	10	0	10	7.6
3212	Veneer, Plywood, and Engineered Woods	467	430	37	153	88	65	12	1	11	5.2
3219	Other Wood Products	361	345	16	59	50	9	11	0	11	10.8
322	Paper	3,050	2,748	302	2,091	545	1,546	270	69	201	3.5
322110	Pulp Mills	100	93	7	93	27	66	W	0	W	1.2
322121	Paper Mills, except Newsprint	995	831	164	852	155	697	127	*	127	3
322122	Newsprint Mills	401	W	W	62	17	45	W	W	W	1
322130	Paperboard Mills	766	698	67	754	160	594	106	60	47	4.6
323	Printing and Related Support	984	943	40	229	132	96	Q	1	Q	6.4
324	Petroleum and Coal Products	1,864	1,523	340	3,110	331	2,778	378	31	347	2.9
324110	Petroleum Refineries	1,662	1,336	326	2,855	217	2,638	375	31	344	3.1
324199	Other Petroleum and Coal Products	22	22	0	18	9	9	1	0	1	0.9
325	Chemicals	6,386	5,189	1,196	7,448	1,039	6,409	1,058	109	949	5
325110	Petrochemicals	194	157	37	709	11	698	W	0	W	0.9
325120	Industrial Gases	898	632	266	236	49	187	Q	*	Q	8.8
325181	Alkalies and Chlorine	395	W	W	343	32	311	W	W	W	1.1
325182	Carbon Black	28	28	0	64	39	25	0	0	0	1
325188	Other Basic Inorganic Chemicals	774	687	88	307	59	248	37	16	22	4.3
325192	Cyclic Crudes and Intermediates	119	W	W	160	60	101	79	0	79	0.9
325193	Ethyl Alcohol	52	49	3	107	38	69	31	17	Q	3.8
325199	Other Basic Organic Chemicals	926	771	155	1,983	192	1,790	319	27	292	7.7
325211	Plastics Materials and Resins	919	614	305	941	153	788	180	17	163	4.6
325212	Synthetic Rubber	90	72	18	97	9	88	63	0	63	4
325222	Noncellulosic Organic Fibers	167	160	7	118	46	72	8	0	8	0.9
325311	Nitrogenous Fertilizers	144	137	7	1,474	5	1,469	8	0	8	0.9
325312	Phosphatic Fertilizers	88	63	25	102	24	77	2	0	2	0.9
3254	Pharmaceuticals and Medicines	620	545	75	282	151	130	29	4	25	5.5
325412	Pharmaceutical Preparation	464	407	58	183	98	85	22	W	W	6.9
325992	Photographic Film, Paper, Plate, and Chemicals	86	85	1	36	11	25	0	0	0	7.6
326	Plastics and Rubber Products	3,002	2,796	207	640	354	286	12	W	W	11.1
327	Nonmetallic Mineral Products	2,104	1,850	254	1,773	570	1,204	W	*	W	3.6
3272	Glass and Glass Products	583	531	52	632	131	502	*	*	0	2

Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Million U.S. Dollars.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity from Local Utility(b)	Electricity from Sources Other than Local Utility(c)	Natural Gas Total	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	RSE Row Factors
327211	Flat Glass	84	77	8	210	32	179	0	0	0	0.9
327213	Glass Containers	195	165	31	201	24	177	0	0	0	0.9
327310	Cements	560	462	99	83	35	48	*	0	*	2.1
327410	Lime	64	64	0	27	10	17	0	0	0	1
327993	Mineral Wool	159	130	28	137	31	106	0	0	0	1.5
331	Primary Metals	4,889	4,018	871	2,871	629	2,242	116	5	111	1.7
331111	Iron and Steel Mills	1,928	1,703	225	1,623	255	1,369	W	W	W	2.1
331112	Electrometallurgical Ferroalloy Products	112	W	W	32	2	31	W	0	W	1.3
3312	Steel Products from Purchased Steel	230	W	W	110	49	61	*	*	0	3.9
3313	Alumina and Aluminum	1,422	921	500	560	104	456	60	W	W	2
331312	Primary Aluminum	1,082	659	422	75	4	71	W	0	W	1.2
3314	Nonferrous Metals, except Aluminum	422	368	53	190	81	109	2	0	2	7.4
3315	Foundries	775	740	35	356	139	218	W	W	2	3.8
331511	Iron Foundries	373	352	22	126	53	73	2	0	2	5
331521	Aluminum Die-Casting Foundries	96	94	2	72	22	50	0	0	0	3.9
331524	Aluminum Foundries, except Die-Casting	72	69	3	64	23	41	0	0	0	3.9
332	Fabricated Metal Products	2,862	2,715	147	1,033	679	354	Q	*	Q	12.4
333	Machinery	1,493	1,368	125	432	234	198	11	W	W	8.6
334	Computer and Electronic Products	2,422	2,198	224	357	245	112	6	2	4	15.2
334413	Semiconductors and Related Devices	705	616	89	111	71	40	2	*	Q	5.4
335	Electrical Equip., Appliances, and Components	782	736	47	260	139	122	2	2	1	7.7
336	Transportation Equipment	2,583	2,413	170	859	382	478	43	13	29	5.1
336112	Light Trucks and Utility Vehicles	212	212	0	150	47	102	14	0	14	0.9
337	Furniture and Related Products	497	471	26	129	86	44	2	0	2	12.2
339	Miscellaneous	739	689	50	162	122	39	3	1	3	9.9
	Total	40,732	36,259	4,473	24,992	7,248	17,744	2,153	300	1,852	3.3
	Northeast Census Region										
	RSE Column Factors:	1.4	1.5	1.5	1.1	1.8	1	0.7	0.4	0.5	
311	Food	488	441	47	274	124	150	Q	Q	Q	12.2
311221	Wet Corn Milling	W	W	0	0	0	0	0	0	0	0.7
31131	Sugar	W	W	0	W	3	W	0	0	0	0.7
311421	Fruit and Vegetable Canning	24	23	1	14	7	7	*	0	*	4.3
312	Beverage and Tobacco Products	70	59	Q	37	10	28	2	0	2	3.6
3121	Beverages	W	W	Q	W	W	27	2	0	2	3.6
3122	Tobacco	W	W	0	W	W	1	0	0	0	0.7
313	Textile Mills	102	77	25	54	28	26	0	0	0	12.9
314	Textile Product Mills	29	27	3	12	7	5	0	0	0	6.6
315	Apparel	43	41	Q	15	14	Q	0	0	0	21.3
316	Leather and Allied Products	10	10	*	6	2	4	0	0	0	15.7
321	Wood Products	115	99	17	19	10	10	*	0	*	7.5
321113	Sawmills	34	32	2	1	1	*	0	0	0	12.7
3212	Veneer, Plywood, and Engineered Woods	20	W	W	9	4	6	0	0	0	7.7
3219	Other Wood Products	61	W	W	10	6	4	*	0	*	9.3
322	Paper	554	434	120	337	79	258	103	4	100	5.6
322110	Pulp Mills	3	0	3	1	*	1	0	0	0	2.4

Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Million U.S. Dollars.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity from Local Utility(b)	Electricity from Sources Other than Local Utility(c)	Natural Gas Total	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	RSE Row Factors
322121	Paper Mills, except Newsprint	245	161	84	203	19	184	90	0	90	3.7
322122	Newsprint Mills	W	W	0	0	0	0	0	0	0	0.7
322130	Paperboard Mills	58	42	16	69	20	48	13	4	10	4.2
323	Printing and Related Support	252	240	12	55	29	26	0	0	0	11.4
324	Petroleum and Coal Products	194	180	14	187	20	167	29	0	29	3.4
324110	Petroleum Refineries	148	W	W	146	7	139	28	0	28	1.2
324199	Other Petroleum and Coal Products	3	3	0	2	1	1	0	0	0	0.7
325	Chemicals	721	562	160	353	163	190	76	7	69	4.7
325110	Petrochemicals	W	W	0	W	W	0	0	0	0	1.2
325120	Industrial Gases	W	51	W	7	7	*	7	0	7	1.4
325181	Alkalies and Chlorine	W	W	W	W	*	W	W	0	W	1.2
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	46	W	W	30	7	23	Q	W	W	3.2
325192	Cyclic Crudes and Intermediates	10	8	2	W	19	W	2	0	2	0.9
325193	Ethyl Alcohol	*	*	0	*	*	0	0	0	0	0.7
325199	Other Basic Organic Chemicals	52	34	18	34	9	26	21	0	21	5.4
325211	Plastics Materials and Resins	63	41	22	27	9	18	13	W	W	13.1
325212	Synthetic Rubber	3	3	0	*	*	*	2	0	2	0.9
325222	Noncellulosic Organic Fibers	2	2	*	*	*	0	0	0	0	3
325311	Nitrogenous Fertilizers	4	2	2	8	0	8	0	0	0	0.8
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	225	186	38	135	81	53	W	W	W	3.9
325412	Pharmaceutical Preparation	174	140	34	91	50	41	W	W	W	4.5
325992	Photographic Film, Paper, Plate, and Chemicals	28	28	0	16	2	14	0	0	0	16.8
326	Plastics and Rubber Products	534	460	74	81	32	49	3	0	3	5.7
327	Nonmetallic Mineral Products	401	332	69	302	58	244	W	0	W	8
3272	Glass and Glass Products	111	87	24	132	23	109	0	0	0	3.1
327211	Flat Glass	17	W	W	41	0	41	0	0	0	0.8
327213	Glass Containers	41	30	11	42	16	27	0	0	0	0.7
327310	Cements	79	75	4	1	1	*	0	0	0	0.7
327410	Lime	4	4	0	*	*	*	0	0	0	0.7
327993	Mineral Wool	16	11	4	13	2	11	0	0	0	3.6
331	Primary Metals	609	475	134	318	100	217	W	W	*	1.8
331111	Iron and Steel Mills	272	245	27	166	72	94	W	W	0	2.5
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	*	W	0	0	0	0.7
3312	Steel Products from Purchased Steel	35	30	Q	W	W	W	0	0	0	6.5
3313	Alumina and Aluminum	112	W	W	52	2	49	0	0	0	3.3
331312	Primary Aluminum	W	*	W	W	W	W	0	0	0	0.7
3314	Nonferrous Metals, except Aluminum	104	88	16	43	8	35	*	0	*	3.8
3315	Foundries	78	75	3	39	12	27	0	0	0	3.1
331511	Iron Foundries	34	34	1	14	1	13	0	0	0	1.8
331521	Aluminum Die-Casting Foundries	4	4	0	2	*	2	0	0	0	4.3
331524	Aluminum Foundries, except Die-Casting	9	9	*	9	6	3	0	0	0	1.4
332	Fabricated Metal Products	536	490	46	169	98	71	*	0	*	14.3
333	Machinery	265	223	42	70	34	37	*	0	*	6.2
334	Computer and Electronic Products	788	704	84	133	90	43	2	1	Q	14.4
334413	Semiconductors and Related Devices	142	106	36	26	12	15	2	*	Q	3.6
335	Electrical Equip., Appliances, and Components	151	144	7	48	16	32	*	0	*	21.9

Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Million U.S. Dollars.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity from Local Utility(b)	Electricity from Sources Other than Local Utility(c)	Natural Gas Total	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	RSE Row Factors
336	Transportation Equipment	256	213	43	78	37	42	W	0	W	4.5
336112	Light Trucks and Utility Vehicles	W	W	0	W	*	W	W	0	W	0.9
337	Furniture and Related Products	74	67	6	19	12	7	*	0	*	11.6
339	Miscellaneous	212	198	14	56	38	18	3	1	3	14.7
	Total	6,404	5,476	929	2,622	999	1,623	251	16	235	5.6
	Midwest Census Region										
	RSE Column Factors:	1	1	1.2	1	1.5	1	1	0.7	0.8	
311	Food	1,286	1,190	96	1,032	393	639	75	44	Q	12.9
311221	Wet Corn Milling	214	184	30	200	16	184	20	20	0	1
31131	Sugar	16	16	0	20	6	14	0	0	0	0.9
311421	Fruit and Vegetable Canning	24	22	1	23	13	10	2	0	2	2.2
312	Beverage and Tobacco Products	70	69	Q	42	14	28	0	0	0	7.8
3121	Beverages	W	W	Q	W	W	28	0	0	0	8.2
3122	Tobacco	W	W	0	W	W	0	0	0	0	0.9
313	Textile Mills	19	19	0	7	2	5	0	0	0	11.4
314	Textile Product Mills	17	16	1	6	6	1	0	0	0	17.8
315	Apparel	13	11	1	4	2	2	0	0	0	17.4
316	Leather and Allied Products	24	24	*	12	3	9	*	0	*	11.5
321	Wood Products	176	169	7	58	42	16	5	0	5	7.7
321113	Sawmills	28	W	W	4	2	1	2	0	2	7.5
3212	Veneer, Plywood, and Engineered Woods	52	W	W	27	17	10	1	0	1	7.1
3219	Other Wood Products	93	92	Q	25	21	4	3	0	3	13.2
322	Paper	656	639	17	419	135	284	W	W	9	7.1
322110	Pulp Mills	W	W	0	W	W	*	W	0	W	1
322121	Paper Mills, except Newsprint	318	307	11	221	57	164	7	*	7	4.5
322122	Newsprint Mills	W	W	0	*	*	*	W	W	0	1
322130	Paperboard Mills	104	103	1	86	18	68	W	W	W	2.9
323	Printing and Related Support	302	286	15	75	34	41	Q	0	Q	11.6
324	Petroleum and Coal Products	253	238	15	377	72	304	W	4	W	4.5
324110	Petroleum Refineries	208	W	W	301	21	280	W	4	W	2
324199	Other Petroleum and Coal Products	3	3	0	2	2	1	1	0	1	1
325	Chemicals	1,181	1,005	177	941	211	730	267	22	245	6.1
325110	Petrochemicals	W	*	W	W	0	W	0	0	0	1
325120	Industrial Gases	W	180	W	W	3	W	Q	*	Q	2.1
325181	Alkalies and Chlorine	W	10	W	3	1	3	*	*	0	5.5
325182	Carbon Black	3	3	0	W	*	W	0	0	0	0.9
325188	Other Basic Inorganic Chemicals	82	70	12	77	27	51	8	*	8	5.3
325192	Cyclic Crudes and Intermediates	W	W	0	W	2	W	0	0	0	0.9
325193	Ethyl Alcohol	W	W	3	102	W	W	W	W	Q	3.8
325199	Other Basic Organic Chemicals	150	94	56	87	19	68	51	W	W	3.6
325211	Plastics Materials and Resins	159	124	35	84	46	38	37	4	33	3.1
325212	Synthetic Rubber	8	8	0	5	*	5	0	0	0	5.7
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	39	36	3	279	1	278	8	0	8	1
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0

Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Million U.S. Dollars.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity from Local Utility(b)	Electricity from Sources Other than Local Utility(c)	Natural Gas Total	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	RSE Row Factors
3254	Pharmaceuticals and Medicines	174	163	10	78	30	48	4	0	4	5.4
325412	Pharmaceutical Preparation	151	146	5	57	25	32	0	0	0	4.3
325992	Photographic Film, Paper, Plate, and Chemicals	5	5	*	2	1	*	0	0	0	4.7
326	Plastics and Rubber Products	1,058	995	63	238	124	114	4	4	0	17
327	Nonmetallic Mineral Products	488	459	29	454	118	336	0	0	0	5.4
3272	Glass and Glass Products	158	153	5	175	15	159	0	0	0	3.7
327211	Flat Glass	21	21	0	59	*	59	0	0	0	0.9
327213	Glass Containers	39	W	W	50	1	50	0	0	0	0.9
327310	Cements	116	99	17	22	5	17	0	0	0	2
327410	Lime	27	27	0	14	4	10	0	0	0	0.9
327993	Mineral Wool	54	54	0	54	10	43	0	0	0	1.5
331	Primary Metals	1,852	1,544	308	1,435	187	1,248	54	W	W	2.1
331111	Iron and Steel Mills	785	689	97	939	46	893	45	0	45	3.4
331112	Electrometallurgical Ferroalloy Products	79	79	0	30	W	W	W	0	W	1
3312	Steel Products from Purchased Steel	107	W	W	63	29	34	0	0	0	5.3
3313	Alumina and Aluminum	306	156	150	131	29	102	W	W	0	2.6
331312	Primary Aluminum	233	W	W	19	*	19	0	0	0	0.9
3314	Nonferrous Metals, except Aluminum	113	99	14	60	W	W	*	0	*	3.4
3315	Foundries	461	438	23	213	57	155	W	W	2	4.9
331511	Iron Foundries	244	229	15	75	23	52	2	0	2	6.1
331521	Aluminum Die-Casting Foundries	70	69	1	52	12	40	0	0	0	3.1
331524	Aluminum Foundries, except Die-Casting	44	42	3	38	9	29	0	0	0	5.8
332	Fabricated Metal Products	1,090	1,023	67	470	295	175	Q	0	Q	23
333	Machinery	624	581	43	237	97	140	10	W	W	11.8
334	Computer and Electronic Products	252	231	21	63	45	19	2	0	2	6.6
334413	Semiconductors and Related Devices	25	25	0	4	1	2	0	0	0	2.6
335	Electrical Equip., Appliances, and Components	251	233	18	91	42	49	1	1	*	4.8
336	Transportation Equipment	1,249	1,183	66	483	186	297	25	13	12	8
336112	Light Trucks and Utility Vehicles	127	127	0	100	W	W	*	0	*	1
337	Furniture and Related Products	144	129	14	60	29	31	0	0	0	11
339	Miscellaneous	167	149	18	48	32	16	0	0	0	15.1
	Total	11,172	10,192	980	6,554	2,071	4,483	519	145	373	7
	South Census Region										
	RSE Column Factors:	1.2	1.2	1.3	1.2	1.6	1	0.9	0.3	0.9	
311	Food	1,126	1,101	Q	741	447	294	W	0	W	8.6
311221	Wet Corn Milling	W	W	0	21	7	15	3	0	3	0.9
31131	Sugar	14	13	1	39	12	27	0	0	0	0.8
311421	Fruit and Vegetable Canning	30	30	0	47	18	29	0	0	0	9.4
312	Beverage and Tobacco Products	183	176	7	79	44	35	0	0	0	5
3121	Beverages	120	113	7	62	34	27	0	0	0	6
3122	Tobacco	63	63	0	17	10	8	0	0	0	0.8
313	Textile Mills	927	881	46	261	175	87	W	W	W	10.3
314	Textile Product Mills	195	182	14	102	49	53	0	0	0	14.5
315	Apparel	111	108	Q	31	22	9	0	0	0	16.5
316	Leather and Allied Products	10	10	0	2	1	1	0	0	0	11.1

Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Million U.S. Dollars.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity from Local Utility(b)	Electricity from Sources Other than Local Utility(c)	Natural Gas Total	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	RSE Row Factors
321	Wood Products	621	599	22	117	78	38	11	0	11	10.2
321113	Sawmills	189	180	9	13	7	6	4	0	4	10.7
3212	Veneer, Plywood, and Engineered Woods	280	266	13	81	53	28	2	0	2	8.2
3219	Other Wood Products	140	140	*	14	14	*	Q	0	Q	6.2
322	Paper	1,208	1,105	103	959	270	689	71	Q	58	3.1
322110	Pulp Mills	68	68	0	71	12	59	0	0	0	0.8
322121	Paper Mills, except Newsprint	292	257	36	315	73	242	19	0	19	2.8
322122	Newsprint Mills	149	W	W	38	W	W	W	0	W	0.9
322130	Paperboard Mills	441	402	40	414	101	313	W	Q	W	3.4
323	Printing and Related Support	264	256	8	61	43	18	1	1	0	7.7
324	Petroleum and Coal Products	951	717	235	1,919	145	1,774	283	27	256	2.7
324110	Petroleum Refineries	886	654	233	1,832	113	1,719	282	27	255	2.7
324199	Other Petroleum and Coal Products	11	11	0	7	3	4	0	0	0	1.1
325	Chemicals	3,938	3,129	810	5,849	583	5,266	696	74	622	5.1
325110	Petrochemicals	182	W	W	700	W	W	W	0	W	0.9
325120	Industrial Gases	485	288	197	202	37	165	4	0	4	4.6
325181	Alkalies and Chlorine	295	W	W	W	3	W	W	W	0	1
325182	Carbon Black	25	25	0	W	39	W	0	0	0	0.8
325188	Other Basic Inorganic Chemicals	564	500	65	146	16	129	23	W	W	5.1
325192	Cyclic Crudes and Intermediates	99	W	W	111	39	73	77	0	77	0.9
325193	Ethyl Alcohol	*	*	0	1	1	0	0	0	0	0.8
325199	Other Basic Organic Chemicals	713	636	77	1,852	164	1,687	240	W	W	9.3
325211	Plastics Materials and Resins	673	426	246	824	94	729	130	W	W	5.4
325212	Synthetic Rubber	76	58	18	91	8	83	61	0	61	4
325222	Noncellulosic Organic Fibers	165	158	7	118	46	72	8	0	8	0.9
325311	Nitrogenous Fertilizers	74	74	*	1,087	4	1,084	*	0	*	0.9
325312	Phosphatic Fertilizers	65	40	25	84	W	W	2	0	2	0.9
3254	Pharmaceuticals and Medicines	130	119	11	41	28	13	W	W	W	7.3
325412	Pharmaceutical Preparation	87	80	7	19	13	6	W	0	W	11
325992	Photographic Film, Paper, Plate, and Chemicals	39	39	*	11	7	4	0	0	0	6.2
326	Plastics and Rubber Products	993	942	51	277	171	106	5	W	W	14.4
327	Nonmetallic Mineral Products	776	732	44	756	352	404	*	*	*	3.7
3272	Glass and Glass Products	214	206	8	257	88	170	*	*	0	3.2
327211	Flat Glass	31	31	0	89	31	58	0	0	0	0.8
327213	Glass Containers	52	46	5	70	6	64	0	0	0	0.8
327310	Cements	194	184	10	40	24	16	*	0	*	3.4
327410	Lime	23	23	0	W	W	7	0	0	0	0.8
327993	Mineral Wool	57	52	5	58	15	43	0	0	0	1.7
331	Primary Metals	1,870	1,676	193	939	303	636	W	*	W	2
331111	Iron and Steel Mills	716	688	28	426	135	291	0	0	0	1.1
331112	Electrometallurgical Ferroalloy Products	W	W	W	W	W	*	0	0	0	3.9
3312	Steel Products from Purchased Steel	W	W	W	23	14	9	*	*	0	6.7
3313	Alumina and Aluminum	774	652	123	346	67	279	W	0	W	2.1
331312	Primary Aluminum	W	522	W	W	W	39	W	0	W	0.9
3314	Nonferrous Metals, except Aluminum	120	104	16	61	29	32	0	0	0	6.2
3315	Foundries	171	163	8	82	57	25	0	0	0	2.5
331511	Iron Foundries	81	76	Q	32	28	4	0	0	0	1.8
331521	Aluminum Die-Casting Foundries	14	13	1	16	9	7	0	0	0	4.8

Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Million U.S. Dollars.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity from Local Utility(b)	Electricity from Sources Other than Local Utility(c)	Natural Gas Total	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	RSE Row Factors
331524	Aluminum Foundries, except Die-Casting	11	11	*	12	5	7	0	0	0	2.9
332	Fabricated Metal Products	837	827	Q	309	227	82	0	0	0	12.5
333	Machinery	393	376	Q	95	83	12	*	0	*	11.1
334	Computer and Electronic Products	446	425	21	42	28	14	*	*	0	5.1
334413	Semiconductors and Related Devices	162	142	20	17	9	8	0	0	0	1.6
335	Electrical Equip., Appliances, and Components	293	272	21	89	51	38	0	0	0	9.6
336	Transportation Equipment	664	652	Q	206	116	90	W	0	W	3.3
336112	Light Trucks and Utility Vehicles	W	W	0	W	W	W	W	0	W	0.9
337	Furniture and Related Products	193	188	Q	39	34	Q	2	0	2	15.9
339	Miscellaneous	164	161	3	38	36	2	0	0	0	11.8
	Total	16,163	14,516	1,647	12,911	3,259	9,652	1,201	125	1,076	3.2
	West Census Region										
	RSE Column Factors:	1.3	1.4	0.9	1.2	1.5	0.9	0.8	0.5	0.9	
311	Food	807	703	104	499	176	322	W	0	W	16.1
311221	Wet Corn Milling	1	1	0	16	*	16	0	0	0	7.7
31131	Sugar	W	W	0	W	4	W	10	0	10	0.9
311421	Fruit and Vegetable Canning	62	58	3	84	13	71	0	0	0	11.8
312	Beverage and Tobacco Products	156	140	15	43	16	26	20	0	20	4.1
3121	Beverages	156	140	15	43	16	26	20	0	20	4.1
3122	Tobacco	*	*	0	0	0	0	0	0	0	0.7
313	Textile Mills	63	60	3	22	Q	9	W	W	0	7.5
314	Textile Product Mills	23	22	1	8	6	2	0	0	0	7.5
315	Apparel	75	75	0	Q	Q	Q	0	0	0	15
316	Leather and Allied Products	4	4	0	*	*	0	0	0	0	27.3
321	Wood Products	312	289	22	78	45	33	17	1	16	5.7
321113	Sawmills	125	W	W	29	19	10	5	0	5	5.3
3212	Veneer, Plywood, and Engineered Woods	116	99	16	35	14	21	9	1	8	3.8
3219	Other Wood Products	67	W	W	10	9	1	Q	0	Q	10.1
322	Paper	632	570	62	376	60	315	W	W	34	4.3
322110	Pulp Mills	W	W	4	W	W	6	0	0	0	0.8
322121	Paper Mills, except Newsprint	139	106	33	113	6	107	12	0	12	2.6
322122	Newsprint Mills	185	185	0	23	W	W	23	0	23	0.9
322130	Paperboard Mills	162	152	10	185	20	165	W	W	0	2.1
323	Printing and Related Support	167	162	5	37	26	11	0	0	0	15.2
324	Petroleum and Coal Products	465	388	77	626	94	533	W	0	W	4.6
324110	Petroleum Refineries	420	345	75	576	76	500	W	0	W	4.6
324199	Other Petroleum and Coal Products	4	4	0	7	4	3	0	0	0	0.8
325	Chemicals	545	494	50	305	82	223	19	6	13	2.9
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	134	114	20	W	2	W	0	0	0	1.8
325181	Alkalies and Chlorine	63	63	0	54	28	26	3	0	3	0.9
325182	Carbon Black	*	*	0	*	*	0	0	0	0	0.7
325188	Other Basic Inorganic Chemicals	83	W	W	54	9	45	4	3	1	3.2
325192	Cyclic Crudes and Intermediates	W	W	0	1	*	*	0	0	0	0.8
325193	Ethyl Alcohol	W	W	0	4	W	W	W	W	0	1

Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Million U.S. Dollars.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity from Local Utility(b)	Electricity from Sources Other than Local Utility(c)	Natural Gas Total	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	RSE Row Factors
325199	Other Basic Organic Chemicals	12	8	4	10	1	9	7	0	7	2.9
325211	Plastics Materials and Resins	24	23	1	7	4	3	0	0	0	7.2
325212	Synthetic Rubber	3	3	0	*	*	0	0	0	0	0.7
325222	Noncellulosic Organic Fibers	*	*	0	0	0	0	0	0	0	0.7
325311	Nitrogenous Fertilizers	27	25	2	99	*	99	0	0	0	0.8
325312	Phosphatic Fertilizers	24	24	0	18	W	W	0	0	0	0.8
3254	Pharmaceuticals and Medicines	92	76	15	28	13	15	0	0	0	2.4
325412	Pharmaceutical Preparation	53	40	13	16	10	6	0	0	0	2.3
325992	Photographic Film, Paper, Plate, and Chemicals	13	13	0	7	1	6	0	0	0	0.8
326	Plastics and Rubber Products	418	398	19	44	28	17	0	0	0	12.3
327	Nonmetallic Mineral Products	439	327	112	262	42	220	0	0	0	5.4
3272	Glass and Glass Products	100	85	15	68	4	64	0	0	0	1.8
327211	Flat Glass	16	W	W	21	*	21	0	0	0	0.8
327213	Glass Containers	63	W	W	39	2	37	0	0	0	0.8
327310	Cements	171	104	68	20	5	14	0	0	0	1.3
327410	Lime	10	10	0	W	W	0	0	0	0	0.7
327993	Mineral Wool	32	13	19	12	3	9	0	0	0	1.4
331	Primary Metals	559	323	236	179	38	141	W	0	W	3
331111	Iron and Steel Mills	155	81	74	91	2	90	W	0	W	1.6
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	*	*	0	0	0	0.8
3312	Steel Products from Purchased Steel	W	W	8	W	W	W	0	0	0	8
3313	Alumina and Aluminum	229	W	W	31	6	26	0	0	0	2.4
331312	Primary Aluminum	181	W	W	W	*	W	0	0	0	1.6
3314	Nonferrous Metals, except Aluminum	84	77	7	26	W	W	1	0	1	11.6
3315	Foundries	66	64	2	22	12	11	0	0	0	2.2
331511	Iron Foundries	14	13	2	5	1	4	0	0	0	1.5
331521	Aluminum Die-Casting Foundries	8	7	*	2	1	1	0	0	0	5.6
331524	Aluminum Foundries, except Die-Casting	7	7	0	5	3	1	0	0	0	3.7
332	Fabricated Metal Products	399	375	25	85	59	26	*	*	0	12
333	Machinery	211	188	23	30	20	10	0	0	0	13.6
334	Computer and Electronic Products	936	838	97	119	83	36	Q	Q	0	11.1
334413	Semiconductors and Related Devices	376	344	32	64	50	15	0	0	0	6.5
335	Electrical Equip., Appliances, and Components	87	86	1	32	Q	3	1	1	*	5.1
336	Transportation Equipment	413	364	49	93	43	49	0	0	0	11.5
336112	Light Trucks and Utility Vehicles	*	*	0	*	*	0	0	0	0	0.7
337	Furniture and Related Products	86	86	*	12	11	1	0	0	0	6.9
339	Miscellaneous	196	181	15	20	17	3	0	0	0	13.2
	Total	6,992	6,075	917	2,905	919	1,986	182	14	169	4.9

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) A 'Local Utility' is an entity that produces and/or delivers a particular energy source (for example, electricity, natural gas, steam) and is legally obligated to provide service to the general public within its franchise area.
(c) 'Sources Other than Local Utility' include independent producers, brokers, marketers, and marketing subsidiaries of utilities; for the case of electricity sources, also include small power producers and cogenerators not located at the establishment site.

Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Million U.S. Dollars.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity from Local Utility(b)	Electricity from Sources Other than Local Utility(c)	Natural Gas Total	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	RSE Row Factors

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.
Purchased energy sources exclude quantities delivered from any other establishment(s) in the company, quantities transferred from other establishments of the company for which payment was not made, quantities purchased centrally within the company but separate from the reporting establishment, and quantities for which payment was made in-kind.
Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL	Acetylene	Breeze	Coal Total	Anthracite	Bituminous and Subbituminous Coal	Lignite	Coal Coke	Petroleum Coke
	Total United States									
	RSE Column Factors:	1.1	2.1	0.6	0.9	0.6	0.9	1.4	0.7	0.9
311	Food	6.42	113.78	0	1.46	W	1.46	0	5.18	0
311221	Wet Corn Milling	3.11	106.84	0	1.32	0	1.32	0	0	0
31131	Sugar	3.14	80.39	0	1.65	W	1.64	0	5.18	0
311421	Fruit and Vegetable Canning	7.09	103.28	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	7.53	123.52	0	2.32	0	2.32	0	0	0
3121	Beverages	7.96	124.83	0	2.1	0	2.1	0	0	0
3122	Tobacco	5.75	116.65	0	2.5	0	2.5	0	0	0
313	Textile Mills	7.73	118.95	0	2.28	0	2.28	0	0	0
314	Textile Product Mills	7.38	Q	0	W	W	Q	0	0	0
315	Apparel	11.16	191.47	0	0	0	0	0	0	0
316	Leather and Allied Products	9.66	114.46	0	0	0	0	0	0	0
321	Wood Products	3.95	100.5	0	W	0	W	0	W	0
321113	Sawmills	6.22	101.29	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	2.36	90.41	0	W	0	W	0	W	0
3219	Other Wood Products	11.25	116.32	0	0	0	0	0	0	0
322	Paper	4.78	79.13	0	1.97	W	1.96	0	W	1.47
322110	Pulp Mills	3.88	W	0	0	0	W	0	0	W
322121	Paper Mills, except Newsprint	4.33	Q	0	1.91	0	1.91	0	W	1.43
322122	Newsprint Mills	6.49	78.1	0	2.03	0	2.03	0	0	0
322130	Paperboard Mills	4.11	86.93	0	2.08	W	2.08	0	0	W
323	Printing and Related Support	12.54	162.87	0	0	0	0	0	0	0
324	Petroleum and Coal Products	3.97	Q	W	Q	W	Q	0	W	2.28
324110	Petroleum Refineries	4.59	W	0	W	0	W	0	0	0
324199	Other Petroleum and Coal Products	1.9	78.8	W	Q	W	W	0	W	2.28
325	Chemicals	5.03	Q	W	1.99	2.67	1.86	W	W	3.08
325110	Petrochemicals	5.34	0	0	W	0	W	0	0	0
325120	Industrial Gases	4.44	W	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	5.03	90.93	0	1.52	0	1.52	0	0	0
325182	Carbon Black	3.69	W	0	0	0	0	0	0	W
325188	Other Basic Inorganic Chemicals	5.87	110.41	0	1.14	0	1.14	0	W	W
325192	Cyclic Crudes and Intermediates	5.19	W	0	W	0	W	0	0	0
325193	Ethyl Alcohol	3.71	W	0	1.65	W	1.71	0	0	0
325199	Other Basic Organic Chemicals	5.03	Q	0	Q	0	Q	0	0	0
325211	Plastics Materials and Resins	4.94	W	0	W	0	2.18	0	W	0
325212	Synthetic Rubber	5.56	W	0	1.89	0	W	0	0	0
325222	Noncellulosic Organic Fibers	5.39	91.99	0	W	0	W	0	0	0
325311	Nitrogenous Fertilizers	3.27	93.42	0	8.75	0	0	W	0	0
325312	Phosphatic Fertilizers	5.05	W	0	2.29	0	0	W	W	0
3254	Pharmaceuticals and Medicines	8.29	W	0	1.84	0	1.84	0	0	0
325412	Pharmaceutical Preparation	8.3	W	0	1.84	0	1.84	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	5.59	W	0	W	0	W	0	0	0
326	Plastics and Rubber Products	10.9	105.53	0	W	W	W	0	0	0
327	Nonmetallic Mineral Products	4.66	103.89	W	1.75	W	1.75	W	1.96	0.95

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity Components: Electricity from Local Utility(b)	Electricity Components: Electricity from Sources Other than Local Utility(c)	Total Diesel Fuel and Distillate Fuel Oil	Diesel Fuel	Distillate Fuel Oil	Residual Fuel Oil
	RSE Column Factors:	1	1.1	1.5	1.8	1.7	1.6	1.4
311	Food	W	15.76	19.47	7.04	7.38	6.21	4.29
311221	Wet Corn Milling	W	10.41	10.93	6.37	6.31	W	4.38
31131	Sugar	15.5	15.51	15.15	8.24	6.91	W	4.77
311421	Fruit and Vegetable Canning	20.56	20.58	19.93	5.83	6.82	Q	4.49
312	Beverage and Tobacco Products	17.76	17.97	15.39	9.75	Q	6.07	4.59
3121	Beverages	18.6	18.96	15.39	Q	Q	6.41	4.28
3122	Tobacco	13.86	13.86	0	5.94	W	5.76	4.95
313	Textile Mills	12.82	12.71	14.69	6.73	8.87	W	4.89
314	Textile Product Mills	15.9	15.93	15.43	Q	8.43	Q	W
315	Apparel	19.73	19.64	24.32	6.74	Q	Q	5
316	Leather and Allied Products	20	19.99	21.41	5.87	W	5.78	3.87
321	Wood Products	16.67	16.74	15.6	7.02	7.05	6.84	W
321113	Sawmills	17.67	17.66	17.85	7.39	7.53	6.75	3.85
3212	Veneer, Plywood, and Engineered Woods	14.11	14.18	13.44	6.9	6.92	6.57	W
3219	Other Wood Products	20.03	19.99	20.95	7.76	7.78	7.64	Q
322	Paper	W	12.58	13.18	5.13	7.05	4.72	3.71
322110	Pulp Mills	W	11.74	14.15	4.32	6.68	W	3.72
322121	Paper Mills, except Newsprint	11.78	11.62	12.67	5.77	7.26	5.3	3.86
322122	Newsprint Mills	10.87	10.87	W	7.06	7.3	W	4.39
322130	Paperboard Mills	W	11.67	12.04	5.16	6.75	4.64	3.36
323	Printing and Related Support	19.57	19.52	20.85	6.28	Q	6.21	Q
324	Petroleum and Coal Products	13.23	13.69	11.5	6.08	6.5	5.56	3.23
324110	Petroleum Refineries	12.62	13.01	11.24	7.15	W	0	0
324199	Other Petroleum and Coal Products	15.12	15.12	0	6.11	6.08	W	3.15
325	Chemicals	11.67	11.8	11.14	6.1	6.24	5.99	3.64
325110	Petrochemicals	W	10.86	11.15	W	W	W	W
325120	Industrial Gases	W	10.4	11.52	W	W	W	0
325181	Alkalies and Chlorine	8.71	8.96	W	6.22	7.79	W	Q
325182	Carbon Black	13.34	13.34	0	8.16	8.16	0	3.49
325188	Other Basic Inorganic Chemicals	W	8.59	9.54	6.73	6.36	7.2	W
325192	Cyclic Crudes and Intermediates	10.12	12.12	W	8.03	9.29	W	3.65
325193	Ethyl Alcohol	11.74	11.96	9.16	6.52	8.26	W	0
325199	Other Basic Organic Chemicals	W	11.32	10.57	6.4	7.55	5.67	4.13
325211	Plastics Materials and Resins	W	12.42	11.41	6.17	7.18	5.47	4.68
325212	Synthetic Rubber	13.76	12.8	19.78	5.61	5.85	W	4.41
325222	Noncellulosic Organic Fibers	11.19	11.22	10.48	6.2	6.98	5.96	W
325311	Nitrogenous Fertilizers	12.08	11.88	18.1	6.3	6.39	W	0
325312	Phosphatic Fertilizers	12.93	14.24	10.48	6	5.56	W	3.82
3254	Pharmaceuticals and Medicines	16.57	16.42	17.74	5.96	8.13	5.62	3.93
325412	Pharmaceutical Preparation	16.02	15.78	17.9	5.85	7.83	5.69	3.75
325992	Photographic Film, Paper, Plate, and Chemicals	W	16.31	17.62	5.09	W	Q	W
326	Plastics and Rubber Products	16.54	16.45	17.87	6.66	8.03	6.36	3.86
327	Nonmetallic Mineral Products	14.84	14.55	17.31	7.5	7.67	5.89	3.99

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas	Coke Oven Gas	Motor Gasoline (excluding Highway Usage)	Hydrogen	Kerosene	Pulping Liquor or Black Liquor	LPG and NGL(d)	Natural Gas Total
	RSE Column Factors:	0	0.4	1.9	0.7	1.1	0.6	1.8	1.1
311	Food	0	0	Q	Q	Q	0	8.31	4.38
311221	Wet Corn Milling	0	0	8.16	0	W	0	11.98	3.89
31131	Sugar	0	0	11.92	0	W	0	11.19	3.79
311421	Fruit and Vegetable Canning	0	0	9.7	W	W	0	Q	4.68
312	Beverage and Tobacco Products	0	0	11.61	W	Q	0	9.15	4.39
3121	Beverages	0	0	11.72	*	Q	0	9.14	4.34
3122	Tobacco	0	0	10.18	W	W	0	9.25	4.95
313	Textile Mills	0	0	12.11	W	0	0	9.35	4.61
314	Textile Product Mills	0	0	Q	W	W	0	9.1	4.46
315	Apparel	0	0	12.05	0	W	0	12.07	5.2
316	Leather and Allied Products	0	0	Q	0	W	0	10.65	4.57
321	Wood Products	0	0	10.52	W	Q	0	8.71	4.74
321113	Sawmills	0	0	9.97	W	12.01	0	7.85	4.5
3212	Veneer, Plywood, and Engineered Woods	0	0	10.48	0	Q	0	8.08	4.65
3219	Other Wood Products	0	0	12.44	0	Q	0	10.27	5.33
322	Paper	0	0	9.65	3	6.43	2.17	8.97	4.15
322110	Pulp Mills	0	0	10.98	0	W	W	W	3.9
322121	Paper Mills, except Newsprint	0	0	9.45	42.88	6.32	0	7.87	4.15
322122	Newsprint Mills	0	0	9.02	0	W	W	9.38	3.93
322130	Paperboard Mills	0	0	9.89	1.61	10.06	W	9.46	4
323	Printing and Related Support	0	0	10.88	W	W	0	11.68	4.98
324	Petroleum and Coal Products	0	0	9.51	5.24	Q	W	6.68	3.42
324110	Petroleum Refineries	0	0	0	5.24	0	0	12.41	3.35
324199	Other Petroleum and Coal Products	0	0	11.31	0	8.55	0	13.09	3.92
325	Chemicals	0	0	9.13	1.28	W	W	5.77	3.37
325110	Petrochemicals	0	0	7.99	8.29	W	0	5.82	3.41
325120	Industrial Gases	0	0	W	W	W	0	W	3.59
325181	Alkalies and Chlorine	0	0	12.47	W	W	0	W	3.43
325182	Carbon Black	0	0	10.13	0	W	W	11.43	3.19
325188	Other Basic Inorganic Chemicals	0	0	8.88	5.13	13.2	0	6.19	4.04
325192	Cyclic Crudes and Intermediates	0	0	9.45	6.18	0	0	5.83	3.75
325193	Ethyl Alcohol	0	0	W	0	0	0	8.12	3.58
325199	Other Basic Organic Chemicals	0	0	9.25	6.26	W	0	6.87	3.38
325211	Plastics Materials and Resins	0	0	10.24	2.47	W	0	5.11	2.88
325212	Synthetic Rubber	0	0	10.94	34.35	W	0	11.01	3.39
325222	Noncellulosic Organic Fibers	0	0	11.47	W	9.32	0	8.71	3.75
325311	Nitrogenous Fertilizers	0	0	11.08	W	W	0	15.13	3.05
325312	Phosphatic Fertilizers	0	0	10.43	0	0	0	10.67	3.35
3254	Pharmaceuticals and Medicines	0	0	Q	11.66	Q	0	Q	4.53
325412	Pharmaceutical Preparation	0	0	Q	35.31	W	0	12	4.54
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	W	W	W	0	10.67	5.1
326	Plastics and Rubber Products	0	0	9.58	Q	Q	0	11.26	4.98
327	Nonmetallic Mineral Products	0	0	10.25	2.13	9.48	0	10.21	4.2

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	Waste Gases and Byproduct Gases	Waste Oils and Tars	Industrial Hot Water Total
	RSE Column Factors:	1.6	1.1	1.4	0.7	1.3	0.9	0.8	1.3
311	Food	4.68	4.16	4.07	3.99	4.12	0	3.72	W
311221	Wet Corn Milling	4.39	3.84	3.32	3.63	2	0	0	0
31131	Sugar	3.86	3.76	3.02	0	3.02	0	0	0
311421	Fruit and Vegetable Canning	4.48	4.77	5.59	0	5.59	0	W	0
312	Beverage and Tobacco Products	4.7	4.19	4.55	0	4.55	0	0	0
3121	Beverages	4.64	4.16	4.55	0	4.55	0	0	0
3122	Tobacco	5.17	4.69	0	0	0	0	0	0
313	Textile Mills	4.59	4.63	4.25	W	4.15	0	0	0
314	Textile Product Mills	4.46	4.46	0	0	0	0	0	W
315	Apparel	5.27	4.95	0	0	0	0	0	0
316	Leather and Allied Products	5.73	4.2	3.51	0	3.51	0	0	0
321	Wood Products	4.98	4.36	3.84	4.32	3.82	0	W	W
321113	Sawmills	4.58	4.38	4.63	0	4.63	0	W	0
3212	Veneer, Plywood, and Engineered Woods	4.9	4.36	3.89	4.32	3.86	0	0	0
3219	Other Wood Products	5.41	4.91	3.29	0	3.29	0	W	W
322	Paper	4.51	4.05	4.64	4.04	4.89	0	3.21	W
322110	Pulp Mills	4.99	3.58	5.79	0	5.79	0	0	0
322121	Paper Mills, except Newsprint	4.32	4.11	4.93	3.33	4.93	0	3.33	W
322122	Newsprint Mills	4.06	3.88	5.46	W	5.63	0	0	0
322130	Paperboard Mills	4.28	3.96	4.17	3.98	4.44	0	3	W
323	Printing and Related Support	4.95	5.03	Q	4.79	Q	0	0	0
324	Petroleum and Coal Products	3.66	3.4	4.24	7.25	4.09	W	Q	W
324110	Petroleum Refineries	3.38	3.35	4.24	7.25	4.09	0	0	W
324199	Other Petroleum and Coal Products	3.98	3.86	2.21	0	2.21	W	0	0
325	Chemicals	4.01	3.28	4.05	4.25	4.03	3.94	3.54	Q
325110	Petrochemicals	4.47	3.4	W	0	W	0	0	0
325120	Industrial Gases	3.51	3.61	Q	4.22	Q	0	0	0
325181	Alkalies and Chlorine	4.02	3.38	4.36	W	5.9	0	0	0
325182	Carbon Black	3.05	3.43	0	0	0	0	W	0
325188	Other Basic Inorganic Chemicals	4.15	4.02	5.49	6.53	4.92	W	W	0
325192	Cyclic Crudes and Intermediates	3.79	3.73	4.44	0	4.44	W	W	0
325193	Ethyl Alcohol	3.83	3.45	4.55	5.35	Q	0	0	0
325199	Other Basic Organic Chemicals	3.65	3.36	3.75	3.42	3.79	3.98	W	0
325211	Plastics Materials and Resins	4.17	2.72	4.71	5.13	4.67	W	0	W
325212	Synthetic Rubber	3.42	3.39	5.32	0	5.32	0	0	W
325222	Noncellulosic Organic Fibers	4.18	3.52	4.39	0	4.39	W	0	W
325311	Nitrogenous Fertilizers	3.81	3.04	6.12	0	6.12	0	0	0
325312	Phosphatic Fertilizers	3.69	3.26	5.98	0	5.98	0	0	0
3254	Pharmaceuticals and Medicines	4.55	4.52	5.51	21.32	4.92	0	0	W
325412	Pharmaceutical Preparation	4.56	4.52	5.65	23.31	4.86	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	5.85	4.81	0	0	0	0	0	0
326	Plastics and Rubber Products	5.01	4.95	2.91	3.25	2.57	W	0	W
327	Nonmetallic Mineral Products	4.18	4.2	Q	5.16	Q	W	2.08	W

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Biomass Total(e)	Selected Wood and Other Biomass Components: Agricultural Waste	Wood Harvested Directly from Trees	Wood Residues and Byproducts from Mill Processing	Wood-Related and Paper-Related Refuse	All Other Energy Sources	RSE Row Factors
	RSE Column Factors:	0.9	0.4	0.6	0.6	1.2	1	
311	Food	3.9	W	W	W	W	W	6.4
311221	Wet Corn Milling	W	0	W	W	W	0	0.9
31131	Sugar	0	0	0	0	0	0	0.8
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	5.1
312	Beverage and Tobacco Products	W	0	0	W	W	0	2.9
3121	Beverages	W	0	0	W	W	0	3.6
3122	Tobacco	0	0	0	0	0	0	0.8
313	Textile Mills	W	0	0	W	W	W	11.1
314	Textile Product Mills	W	0	0	W	0	0	11.7
315	Apparel	0	0	0	0	0	0	19.9
316	Leather and Allied Products	0	0	0	0	0	W	5.6
321	Wood Products	1.27	W	4.37	0.42	2.56	W	4.2
321113	Sawmills	2.09	W	W	1.83	0	0	7.2
3212	Veneer, Plywood, and Engineered Woods	0.79	W	4.78	0.27	3.34	0	3.2
3219	Other Wood Products	8.66	0	20.21	2.62	W	W	12.8
322	Paper	2.41	1.22	1.97	1.52	8.53	2.23	2.2
322110	Pulp Mills	1.63	0	0	1.61	W	W	0.9
322121	Paper Mills, except Newsprint	2.33	W	2.2	1.42	16.33	W	1.8
322122	Newsprint Mills	3.25	W	W	2.04	W	W	0.9
322130	Paperboard Mills	2.35	W	W	1.55	6.45	1.66	2.5
323	Printing and Related Support	0	0	0	0	0	0	7.3
324	Petroleum and Coal Products	W	0	0	W	W	W	4.8
324110	Petroleum Refineries	0	0	0	0	0	W	2.2
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	1.4
325	Chemicals	2.3	0	W	W	W	1.42	5.1
325110	Petrochemicals	0	0	0	0	0	0	0.8
325120	Industrial Gases	0	0	0	0	0	0	2.7
325181	Alkalies and Chlorine	0	0	0	0	0	0	1.1
325182	Carbon Black	0	0	0	0	0	0	0.8
325188	Other Basic Inorganic Chemicals	W	0	0	W	0	W	2
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0.8
325193	Ethyl Alcohol	0	0	0	0	0	0	2.3
325199	Other Basic Organic Chemicals	0	0	0	0	0	W	5.7
325211	Plastics Materials and Resins	W	0	0	0	W	W	3.1
325212	Synthetic Rubber	0	0	0	0	0	0	3.5
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	1
325311	Nitrogenous Fertilizers	0	0	0	0	0	W	0.8
325312	Phosphatic Fertilizers	0	0	0	0	0	W	0.8
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	3.6
325412	Pharmaceutical Preparation	0	0	0	0	0	0	5.2
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	W	W	W	0	2.9
326	Plastics and Rubber Products	Q	0	0	0	Q	W	10.7
327	Nonmetallic Mineral Products	W	W	0	W	W	0.83	4.3

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL	Acetylene	Breeze	Coal Total	Anthracite	Bituminous and Subbituminous Coal	Lignite	Coal Coke	Petroleum Coke
3272	Glass and Glass Products	6.12	85.54	0	W	W	0	0	0	0
327211	Flat Glass	4.84	123.83	0	W	W	0	0	0	0
327213	Glass Containers	6.07	W	0	0	0	0	0	0	0
327310	Cements	2.96	129.04	W	1.73	W	1.73	0	W	0.91
327410	Lime	2.28	87.69	0	1.77	0	1.76	W	W	1.01
327993	Mineral Wool	6.2	140.12	0	0	0	0	0	4.95	0
331	Primary Metals	4.94	68.32	3.67	1.95	4.17	1.92	W	4.66	1.15
331111	Iron and Steel Mills	4.18	51.83	3.89	1.93	4.16	1.91	0	4.49	2.69
331112	Electrometallurgical Ferroalloy Products	6.04	W	0	2.38	0	2.38	0	W	W
3312	Steel Products from Purchased Steel	7.73	82.19	W	2.15	W	W	0	0	0
3313	Alumina and Aluminum	5.38	87.91	0	W	W	0	0	W	1.1
331312	Primary Aluminum	5.15	74.07	0	W	W	0	0	0	1.1
3314	Nonferrous Metals, except Aluminum	6.99	86.43	W	2.07	W	2.09	0	4.2	1.04
3315	Foundries	8.34	99.72	W	4.29	W	3.49	W	7.27	1.3
331511	Iron Foundries	8.36	77.24	W	W	W	3.42	0	7.27	1.3
331521	Aluminum Die-Casting Foundries	7.46	109.93	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	7.36	112.57	0	0	0	0	0	0	0
332	Fabricated Metal Products	10.39	79.81	0	5.03	W	0	0	Q	0
333	Machinery	11.38	69.97	0	1.49	0	W	0	0	0
334	Computer and Electronic Products	9.24	Q	0	3.11	W	0	0	0	0
334413	Semiconductors and Related Devices	4.82	279.17	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	6.84	102.85	W	33.57	0	W	0	0	W
336	Transportation Equipment	8.6	111.23	0	2.26	0	2.26	0	W	W
336112	Light Trucks and Utility Vehicles	6.9	W	0	W	0	W	0	0	0
337	Furniture and Related Products	8.82	98.08	0	2.6	W	2.58	0	0	0
339	Miscellaneous	13.26	116.56	0	0	0	0	0	0	0
	Total	5.58	47.7	3.23	1.87	2.84	1.84	W	4.58	1.62
	Northeast Census Region									
	RSE Column Factors:	1.7	1.6	0.5	1	0.8	1	0	0.6	1
311	Food	9.14	Q	0	2.93	0	W	0	0	0
311221	Wet Corn Milling	W	W	0	0	0	0	0	0	0
31131	Sugar	W	W	0	0	0	0	0	0	0
311421	Fruit and Vegetable Canning	8.01	W	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	9.27	193.25	0	0	0	0	0	0	0
3121	Beverages	W	196.22	0	0	0	0	0	0	0
3122	Tobacco	W	173.88	0	0	0	0	0	0	0
313	Textile Mills	8.08	138.29	0	0	0	0	0	0	0
314	Textile Product Mills	9.99	96.7	0	2.44	W	0	0	0	0
315	Apparel	10.01	0	0	0	0	0	0	0	0
316	Leather and Allied Products	10.06	W	0	0	0	0	0	0	0
321	Wood Products	7.57	135.07	0	0	0	0	0	0	0
321113	Sawmills	9.48	170.8	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	5.25	0	0	0	0	0	0	0	0
3219	Other Wood Products	7.93	103.38	0	0	0	0	0	0	0

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity Components: Electricity from Local Utility(b)	Electricity Components: Electricity from Sources Other than Local Utility(c)	Total Diesel Fuel and Distillate Fuel Oil	Diesel Fuel	Distillate Fuel Oil	Residual Fuel Oil
3272	Glass and Glass Products	13.98	13.68	18.05	6.37	6.45	5.36	W
327211	Flat Glass	13.39	13.11	17	W	W	W	W
327213	Glass Containers	14.56	13.97	18.85	7.21	W	W	0
327310	Cements	13.02	12.58	15.5	6.28	6.85	5.22	3.46
327410	Lime	13.86	13.86	0	6.27	6.38	5.68	W
327993	Mineral Wool	12.5	11.91	16.21	Q	Q	W	0
331	Primary Metals	W	10.71	8.75	4.73	6.47	2.95	4.25
331111	Iron and Steel Mills	10.4	10.31	11.15	4.01	6.45	2.5	4.28
331112	Electrometallurgical Ferroalloy Products	9.26	9.66	W	8.12	7.21	W	0
3312	Steel Products from Purchased Steel	14.62	14.42	15.55	7.59	8.47	7.08	4.19
3313	Alumina and Aluminum	W	8.67	7.44	6.57	7.22	W	W
331312	Primary Aluminum	W	7.41	7.13	7.48	7.48	W	W
3314	Nonferrous Metals, except Aluminum	W	12.92	10.38	5.94	5.91	6.3	4.07
3315	Foundries	14.29	14.22	15.88	6.87	7.02	6.17	Q
331511	Iron Foundries	13.32	13.22	15.16	6.96	7.06	6.13	0
331521	Aluminum Die-Casting Foundries	14.86	14.78	19.15	6.55	6.54	W	W
331524	Aluminum Foundries, except Die-Casting	15.61	15.63	15.14	6.43	7.28	5.78	Q
332	Fabricated Metal Products	17.8	17.58	23.08	6.77	Q	6.83	Q
333	Machinery	17.87	17.75	19.27	8.69	8.32	10.44	4.15
334	Computer and Electronic Products	18.47	18.5	18.24	6.88	8.22	6.72	4.97
334413	Semiconductors and Related Devices	15.86	15.84	16.03	6.48	10.02	W	6.67
335	Electrical Equip., Appliances, and Components	W	16.47	17.04	6.73	Q	6.03	4.6
336	Transportation Equipment	W	14.95	16.4	7.73	8.33	5.3	4.24
336112	Light Trucks and Utility Vehicles	12.72	12.72	0	W	W	W	W
337	Furniture and Related Products	20.48	20.73	16.88	8.22	9.92	W	Q
339	Miscellaneous	20.89	21.04	19.02	7.07	Q	6.5	W
	Total	14.13	14.36	12.52	6.56	7.3	5.37	3.78
	RSE Column Factors:	1.9	2	2.1	2.7	2	2.7	1.6
311	Food	21.78	21.61	23.6	6.15	7.06	W	5.07
311221	Wet Corn Milling	W	23.39	0	W	W	W	W
31131	Sugar	W	30.43	0	W	W	W	W
311421	Fruit and Vegetable Canning	20.61	21.1	14.44	6.56	9.08	W	W
312	Beverage and Tobacco Products	20.46	20.89	Q	6.73	10.01	6.29	W
3121	Beverages	20.45	20.88	Q	6.51	8.56	W	W
3122	Tobacco	21.15	21.15	0	W	W	W	W
313	Textile Mills	22.35	21.71	24.56	6.7	W	W	W
314	Textile Product Mills	20.27	19.66	29.87	5.28	W	5.22	4.83
315	Apparel	21.97	21.85	Q	Q	0	Q	0
316	Leather and Allied Products	27.58	27.49	Q	7.12	W	7.1	3.87
321	Wood Products	24.34	24.92	21.39	7.19	7.41	6.63	5
321113	Sawmills	26.05	25.7	34.45	6.84	7.08	6.02	4.47
3212	Veneer, Plywood, and Engineered Woods	18.25	17.98	20.29	5.65	5.42	6.06	5.08
3219	Other Wood Products	26.14	28.1	20.36	8.33	8.79	7.6	Q

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas	Coke Oven Gas	Motor Gasoline (excluding Highway Usage)	Hydrogen	Kerosene	Pulping Liquor or Black Liquor	LPG and NGL(d)	Natural Gas Total
3272	Glass and Glass Products	0	0	10.06	1.7	9.27	0	9.93	4.14
327211	Flat Glass	0	0	11.35	1.75	15.92	0	12.5	4.03
327213	Glass Containers	0	0	W	0	W	0	9.4	3.86
327310	Cements	0	0	8.91	0	10.57	0	14.05	3.88
327410	Lime	0	0	9.91	0	8.65	0	10.97	3.58
327993	Mineral Wool	0	0	9.29	W	W	0	9.54	3.93
331	Primary Metals	0	W	9.51	5.04	10.91	0	8.98	4.08
331111	Iron and Steel Mills	0	W	9.17	6.92	7.72	0	9.67	3.89
331112	Electrometallurgical Ferroalloy Products	0	0	10.9	W	W	0	9.94	4.53
3312	Steel Products from Purchased Steel	0	0	11.57	2.34	11.01	0	10.61	4.62
3313	Alumina and Aluminum	0	0	9.27	W	13.33	0	9.94	4.14
331312	Primary Aluminum	0	0	8.76	W	W	0	8.61	3.79
3314	Nonferrous Metals, except Aluminum	0	0	9.93	20.78	8.74	0	7.19	4.34
3315	Foundries	0	0	9.7	4.38	10.71	0	9.88	4.64
331511	Iron Foundries	0	0	9.11	W	9.53	0	W	4.6
331521	Aluminum Die-Casting Foundries	0	0	12.36	W	14.29	0	W	4.47
331524	Aluminum Foundries, except Die-Casting	0	0	12.48	0	11.51	0	10.66	4.59
332	Fabricated Metal Products	0	0	10.62	39.8	10.82	0	12.66	4.92
333	Machinery	0	0	11.24	Q	W	0	10.7	5.28
334	Computer and Electronic Products	0	0	11.75	0.35	Q	0	9.47	5.47
334413	Semiconductors and Related Devices	0	0	12.39	0.14	W	0	11.43	5.18
335	Electrical Equip., Appliances, and Components	0	0	11.4	32.14	11.32	0	10.87	4.9
336	Transportation Equipment	0	0	9.36	Q	W	0	9.44	4.26
336112	Light Trucks and Utility Vehicles	0	0	W	0	W	0	9.8	4.2
337	Furniture and Related Products	0	0	10.65	W	Q	0	10.22	5.15
339	Miscellaneous	0	0	Q	W	Q	0	12.17	5.07
	Total	0	W	10.17	1.84	W	2.82	5.84	3.9
	RSE Column Factors:	0	0	1.9	0.7	1.2	0	2.8	1.7
311	Food	0	0	Q	W	10.65	0	10.26	4.92
311221	Wet Corn Milling	0	0	0	0	0	0	0	0
31131	Sugar	0	0	W	0	0	0	W	W
311421	Fruit and Vegetable Canning	0	0	0	W	W	0	11.64	4.63
312	Beverage and Tobacco Products	0	0	W	0	W	0	W	5.06
3121	Beverages	0	0	W	0	0	0	W	5.07
3122	Tobacco	0	0	0	0	W	0	10.45	4.89
313	Textile Mills	0	0	0	0	0	0	W	3.98
314	Textile Product Mills	0	0	W	0	0	0	8.02	5.49
315	Apparel	0	0	0	0	0	0	Q	4.09
316	Leather and Allied Products	0	0	W	0	0	0	11.56	5.91
321	Wood Products	0	0	10.31	0	Q	0	8.74	5.07
321113	Sawmills	0	0	10.18	0	8.34	0	11.06	4.84
3212	Veneer, Plywood, and Engineered Woods	0	0	8.29	0	W	0	7.16	4.89
3219	Other Wood Products	0	0	11.02	0	8.41	0	10.16	5.36

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	Waste Gases and Byproduct Gases	Waste Oils and Tars	Industrial Hot Water Total
3272	Glass and Glass Products	4.16	4.11	5.3	5.3	0	0	W	W
327211	Flat Glass	4.17	3.97	0	0	0	0	0	0
327213	Glass Containers	3.97	3.85	0	0	0	0	0	0
327310	Cements	3.93	3.85	3.28	0	3.28	W	1.99	0
327410	Lime	3.48	3.64	0	0	0	W	W	0
327993	Mineral Wool	4.13	3.88	0	0	0	0	0	0
331	Primary Metals	4.51	3.97	3.79	2.58	3.87	0	6.7	W
331111	Iron and Steel Mills	4.25	3.83	3.83	3.85	3.82	0	W	0
331112	Electrometallurgical Ferroalloy Products	4.95	4.51	5.36	0	5.36	0	0	0
3312	Steel Products from Purchased Steel	4.59	4.64	7.5	7.5	0	0	0	0
3313	Alumina and Aluminum	5.04	3.97	3.6	2.31	W	0	W	W
331312	Primary Aluminum	4.23	3.77	W	0	W	0	W	0
3314	Nonferrous Metals, except Aluminum	4.24	4.41	6.23	0	6.23	0	0	0
3315	Foundries	4.82	4.53	7.29	10.33	7.28	0	W	W
331511	Iron Foundries	4.49	4.69	7.28	0	7.28	0	W	0
331521	Aluminum Die-Casting Foundries	5.07	4.25	0	0	0	0	W	0
331524	Aluminum Foundries, except Die-Casting	4.75	4.51	0	0	0	0	0	W
332	Fabricated Metal Products	5.04	4.7	Q	Q	Q	0	0	W
333	Machinery	5.61	4.94	6.03	5.61	Q	W	W	0
334	Computer and Electronic Products	6.02	4.57	4.02	6.46	3.21	0	0	W
334413	Semiconductors and Related Devices	5.46	4.75	Q	11.77	Q	0	0	0
335	Electrical Equip., Appliances, and Components	5.14	4.66	4.74	5.58	3.2	0	0	0
336	Transportation Equipment	4.25	4.27	6.25	7.91	5.71	W	W	W
336112	Light Trucks and Utility Vehicles	4.62	4.03	8.71	0	8.71	W	0	0
337	Furniture and Related Products	5.16	5.13	1.95	0	1.95	W	0	0
339	Miscellaneous	5.08	5.04	4.75	19.42	4.04	0	0	W
	Total	4.55	3.69	4.17	4.42	4.14	3.68	4	0.8
	RSE Column Factors:	2.8	1.4	0.8	0.7	0.8	0.3	0.8	0.3
311	Food	5.27	4.66	Q	Q	Q	0	W	W
311221	Wet Corn Milling	0	0	0	0	0	0	0	0
31131	Sugar	3.3	W	0	0	0	0	0	0
311421	Fruit and Vegetable Canning	4.74	4.52	3.78	0	3.78	0	W	0
312	Beverage and Tobacco Products	5.49	4.93	4.87	0	4.87	0	0	0
3121	Beverages	5.6	4.91	4.87	0	4.87	0	0	0
3122	Tobacco	4.34	5.77	0	0	0	0	0	0
313	Textile Mills	3.23	5.31	0	0	0	0	0	0
314	Textile Product Mills	4.81	6.68	0	0	0	0	0	0
315	Apparel	4	Q	0	0	0	0	0	0
316	Leather and Allied Products	6.42	5.7	0	0	0	0	0	0
321	Wood Products	5.55	4.66	Q	0	Q	0	0	W
321113	Sawmills	5.18	4.14	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	6.15	4.32	0	0	0	0	0	0
3219	Other Wood Products	5.41	5.29	Q	0	Q	0	0	W

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

			Selected Wood and Other Biomass Components					
NAICS Code(a)	**Subsector and Industry**	**Biomass Total(e)**	**Agricultural Waste**	**Wood Harvested Directly from Trees**	**Wood Residues and Byproducts from Mill Processing**	**Wood-Related and Paper-Related Refuse**	**All Other Energy Sources**	**RSE Row Factors**
3272	Glass and Glass Products	W	W	0	0	0	W	1.8
327211	Flat Glass	0	0	0	0	0	W	0.8
327213	Glass Containers	W	W	0	0	0	0	0.8
327310	Cements	0	0	0	0	0	0.85	1.7
327410	Lime	0	0	0	0	0	W	0.8
327993	Mineral Wool	W	0	0	0	W	0	1.4
331	Primary Metals	W	W	W	W	W	Q	2.1
331111	Iron and Steel Mills	W	W	0	0	0	0	1.9
331112	Electrometallurgical Ferroalloy Products	W	0	W	W	0	0	2.4
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	7.5
3313	Alumina and Aluminum	0	0	0	0	0	0	1.8
331312	Primary Aluminum	0	0	0	0	0	0	0.9
3314	Nonferrous Metals, except Aluminum	W	0	0	W	W	22.81	3.5
3315	Foundries	2.27	W	W	0	W	W	2.5
331511	Iron Foundries	W	0	0	0	W	W	2.8
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	W	3
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	3.3
332	Fabricated Metal Products	W	0	0	W	W	Q	16.4
333	Machinery	0	0	0	0	0	Q	7.4
334	Computer and Electronic Products	W	0	W	W	W	0	13
334413	Semiconductors and Related Devices	0	0	0	0	0	0	2.2
335	Electrical Equip., Appliances, and Components	W	0	0	W	W	W	10.1
336	Transportation Equipment	0	0	0	0	0	1.76	6.3
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	W	0.8
337	Furniture and Related Products	Q	0	W	Q	0	W	12.1
339	Miscellaneous	W	0	W	W	0	W	7.3
	Total	1.81	Q	3.23	0.9	7.28	1.42	5.1
	RSE Column Factors:	0.5	0	0.2	0.4	0.4	0.6	
311	Food	W	0	0	W	0	0	9.3
311221	Wet Corn Milling	W	0	0	W	0	0	0.7
31131	Sugar	0	0	0	0	0	0	0.5
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	2.9
312	Beverage and Tobacco Products	0	0	0	0	0	0	3.3
3121	Beverages	0	0	0	0	0	0	3.8
3122	Tobacco	0	0	0	0	0	0	0.5
313	Textile Mills	0	0	0	0	0	0	13.5
314	Textile Product Mills	0	0	0	0	0	0	2.5
315	Apparel	0	0	0	0	0	0	15.2
316	Leather and Allied Products	0	0	0	0	0	W	8.4
321	Wood Products	2.05	0	1.98	W	W	W	5.4
321113	Sawmills	W	0	W	W	0	0	5.5
3212	Veneer, Plywood, and Engineered Woods	W	0	W	W	W	0	4.2
3219	Other Wood Products	W	0	W	W	0	W	8.6

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL	Acetylene	Breeze	Coal Total	Anthracite	Bituminous and Subbituminous Coal	Lignite	Coal Coke	Petroleum Coke
322	Paper	6.13	83.35	0	W	0	1.89	0	0	W
322110	Pulp Mills	W	W	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	5.05	86.88	0	1.86	0	1.86	0	0	W
322122	Newsprint Mills	11.17	0	0	0	0	0	0	0	0
322130	Paperboard Mills	6.06	60.95	0	2.44	0	W	0	0	0
323	Printing and Related Support	13.66	Q	0	0	0	0	0	0	0
324	Petroleum and Coal Products	5.07	W	W	W	W	2.73	0	W	0
324110	Petroleum Refineries	5.85	0	0	W	0	W	0	0	0
324199	Other Petroleum and Coal Products	2.06	0	W	W	W	W	0	W	0
325	Chemicals	8	Q	0	W	0	W	0	0	0
325110	Petrochemicals	W	0	0	0	0	0	0	0	0
325120	Industrial Gases	8.67	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	W	0	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	6.81	113.82	0	0	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	6.3	W	0	0	0	0	0	0	0
325193	Ethyl Alcohol	W	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	6.96	135.69	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	8.87	W	0	0	0	0	0	0	0
325212	Synthetic Rubber	11.42	0	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	W	W	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	7.72	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	8.71	W	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	9.08	W	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	W	0	W	0	0	0
326	Plastics and Rubber Products	13.99	Q	0	W	W	W	0	0	0
327	Nonmetallic Mineral Products	5.54	91.51	0	1.69	W	1.71	0	2.65	1
3272	Glass and Glass Products	6.28	86.56	0	W	W	0	0	0	0
327211	Flat Glass	5.64	W	0	W	W	0	0	0	0
327213	Glass Containers	6.43	W	0	0	0	0	0	0	0
327310	Cements	2.86	W	0	W	W	1.64	0	W	0.99
327410	Lime	2.4	W	0	W	0	W	0	0	W
327993	Mineral Wool	6.79	W	0	0	0	0	0	W	0
331	Primary Metals	3.78	91.99	W	1.82	2.82	W	0	4.81	W
331111	Iron and Steel Mills	3.07	112.58	0	1.82	W	W	0	W	W
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	0	W	0	0	W
3312	Steel Products from Purchased Steel	6.01	125.51	W	W	W	0	0	0	0
3313	Alumina and Aluminum	W	W	0	0	0	0	0	0	W
331312	Primary Aluminum	W	0	0	0	0	0	0	0	W
3314	Nonferrous Metals, except Aluminum	6.84	67.43	W	W	W	W	0	W	W
3315	Foundries	9.54	101.52	0	Q	W	W	0	7.74	W
331511	Iron Foundries	9.54	87.32	0	Q	W	W	0	7.74	W
331521	Aluminum Die-Casting Foundries	11.39	234.07	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	6.96	104.09	0	0	0	0	0	0	0
332	Fabricated Metal Products	13.43	Q	0	Q	W	0	0	W	0
333	Machinery	12.5	W	0	0	0	0	0	0	0

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity Components: Electricity from Local Utility(b)	Electricity Components: Electricity from Sources Other than Local Utility(c)	Total Diesel Fuel and Distillate Fuel Oil	Diesel Fuel	Distillate Fuel Oil	Residual Fuel Oil
322	Paper	W	17.54	15.67	6.2	7.22	W	4.11
322110	Pulp Mills	20.34	0	20.34	9.6	W	0	Q
322121	Paper Mills, except Newsprint	W	15.7	15.45	6.03	6.69	5.89	3.99
322122	Newsprint Mills	19.82	19.82	0	10.3	0	W	W
322130	Paperboard Mills	17.27	19.57	13.31	6.88	6.66	6.92	4.23
323	Printing and Related Support	23.31	23.39	21.8	7	W	7	Q
324	Petroleum and Coal Products	17.14	16.73	24.72	6.59	9.87	5.42	Q
324110	Petroleum Refineries	W	15.13	W	0	0	0	0
324199	Other Petroleum and Coal Products	13.85	13.85	0	8.44	W	W	3.15
325	Chemicals	16.61	17.32	14.52	6.17	7.21	6.1	4.13
325110	Petrochemicals	W	25.66	0	Q	0	W	0
325120	Industrial Gases	10.7	9.09	18.61	W	W	W	0
325181	Alkalies and Chlorine	W	W	W	W	W	W	Q
325182	Carbon Black	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	12.06	17.92	6.58	7.15	W	3.87
325192	Cyclic Crudes and Intermediates	W	14.28	17.35	W	W	W	W
325193	Ethyl Alcohol	31.91	31.91	0	0	0	0	0
325199	Other Basic Organic Chemicals	19.7	20.22	18.79	6.92	9.8	6.83	4.59
325211	Plastics Materials and Resins	W	19.28	14.54	6.38	6.26	6.51	W
325212	Synthetic Rubber	18.65	18.65	0	8.15	W	0	0
325222	Noncellulosic Organic Fibers	W	25.07	14.63	0	0	0	Q
325311	Nitrogenous Fertilizers	W	12.99	24.75	W	W	W	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	21.7	22.04	20.16	7.32	7.68	7.24	3.92
325412	Pharmaceutical Preparation	21.88	22.67	19.12	7.32	7.83	7.29	W
325992	Photographic Film, Paper, Plate, and Chemicals	W	19.66	0	Q	W	Q	W
326	Plastics and Rubber Products	20.69	20.95	19.21	6.5	Q	W	W
327	Nonmetallic Mineral Products	17.77	17.2	21.16	7.37	8.27	5.96	W
3272	Glass and Glass Products	W	14.46	21.91	6.68	Q	W	4.92
327211	Flat Glass	W	14.95	17.18	W	W	W	0
327213	Glass Containers	W	14.27	24.74	8.59	8.59	W	0
327310	Cements	W	13.83	17.19	8.1	9.11	W	W
327410	Lime	W	13.58	0	W	W	W	0
327993	Mineral Wool	13.22	13.23	13.18	Q	W	W	0
331	Primary Metals	11.79	14.65	6.95	6.08	6.31	5.75	4.22
331111	Iron and Steel Mills	13.14	13.01	14.38	6.08	6.12	5.85	0
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	W	W	0
3312	Steel Products from Purchased Steel	W	18.84	Q	6.49	8.05	W	4.19
3313	Alumina and Aluminum	6.41	16.55	W	W	W	W	W
331312	Primary Aluminum	W	26.38	W	W	W	W	W
3314	Nonferrous Metals, except Aluminum	17.42	17.52	16.84	6.29	6.56	W	4.15
3315	Foundries	W	17.73	18.29	6.34	6.61	6.2	Q
331511	Iron Foundries	16.61	16.58	18.65	6.09	5.95	6.29	0
331521	Aluminum Die-Casting Foundries	W	24.48	0	Q	0	W	0
331524	Aluminum Foundries, except Die-Casting	13.25	13.2	16.09	6.11	7.89	5.78	Q
332	Fabricated Metal Products	24.32	24.11	26.8	6.73	Q	6.75	4.28
333	Machinery	21.09	21.23	20.36	6.7	6.55	6.95	4.15

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas	Coke Oven Gas	Motor Gasoline (excluding Highway Usage)	Hydrogen	Kerosene	Pulping Liquor or Black Liquor	LPG and NGL(d)	Natural Gas Total
322	Paper	0	0	8.52	W	9.78	0	7.14	4.59
322110	Pulp Mills	0	0	0	0	0	0	20.74	W
322121	Paper Mills, except Newsprint	0	0	8.44	W	W	0	6.83	4.27
322122	Newsprint Mills	0	0	0	0	0	0	0	0
322130	Paperboard Mills	0	0	W	0	W	0	10.26	4.63
323	Printing and Related Support	0	0	W	0	0	0	13.12	4.73
324	Petroleum and Coal Products	0	0	Q	W	W	0	11.95	4.19
324110	Petroleum Refineries	0	0	0	W	0	0	0	3.98
324199	Other Petroleum and Coal Products	0	0	W	0	W	0	13.38	4.93
325	Chemicals	0	0	Q	12.21	Q	0	9.71	4.86
325110	Petrochemicals	0	0	W	0	0	0	0	W
325120	Industrial Gases	0	0	W	W	0	0	0	W
325181	Alkalies and Chlorine	0	0	W	0	0	0	W	W
325182	Carbon Black	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	0	0	10.37	W	W	0	13.3	4.94
325192	Cyclic Crudes and Intermediates	0	0	W	W	0	0	W	W
325193	Ethyl Alcohol	0	0	W	0	0	0	0	1.05
325199	Other Basic Organic Chemicals	0	0	10.58	W	W	0	15.95	4.71
325211	Plastics Materials and Resins	0	0	10.83	W	0	0	9.57	4.58
325212	Synthetic Rubber	0	0	0	0	0	0	14.86	5.95
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	Q	9.18
325311	Nitrogenous Fertilizers	0	0	W	0	W	0	W	6.06
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	Q	W	W	0	Q	4.41
325412	Pharmaceutical Preparation	0	0	W	W	W	0	10.37	4.39
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	W	W	0	Q	5.61
326	Plastics and Rubber Products	0	0	9.95	W	W	0	W	5.58
327	Nonmetallic Mineral Products	0	0	Q	0.91	9.63	0	10.33	4.76
3272	Glass and Glass Products	0	0	11.07	0.92	W	0	W	4.36
327211	Flat Glass	0	0	W	W	W	0	W	4.4
327213	Glass Containers	0	0	W	0	0	0	11.3	4.03
327310	Cements	0	0	11.36	0	8.61	0	13.95	5.44
327410	Lime	0	0	10.9	0	W	0	9.2	5.29
327993	Mineral Wool	0	0	W	0	0	0	12.08	4.49
331	Primary Metals	0	0	8.57	Q	7.08	0	8.72	4.63
331111	Iron and Steel Mills	0	0	10.65	23.28	W	0	9.19	4.38
331112	Electrometallurgical Ferroalloy Products	0	0	W	0	0	0	W	W
3312	Steel Products from Purchased Steel	0	0	10.72	Q	10.02	0	11.28	4.91
3313	Alumina and Aluminum	0	0	W	0	W	0	W	W
331312	Primary Aluminum	0	0	0	0	0	0	W	W
3314	Nonferrous Metals, except Aluminum	0	0	9.65	28.72	8.74	0	8.46	W
3315	Foundries	0	0	10.54	W	8.26	0	8.64	5.29
331511	Iron Foundries	0	0	10.48	0	8.32	0	8.76	5.35
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	9.07	W
331524	Aluminum Foundries, except Die-Casting	0	0	W	0	W	0	11.81	4.66
332	Fabricated Metal Products	0	0	Q	W	W	0	12.85	5.84
333	Machinery	0	0	9.6	39.34	W	0	12.65	5.72

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	Waste Gases and Byproduct Gases	Waste Oils and Tars	Industrial Hot Water Total
322	Paper	5.38	4.39	4.61	8.67	4.53	0	W	0
322110	Pulp Mills	6.45	4.7	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	4.57	4.24	4.53	0	4.53	0	W	0
322122	Newsprint Mills	0	0	0	0	0	0	0	0
322130	Paperboard Mills	4.79	4.56	5.16	8.67	4.5	0	0	0
323	Printing and Related Support	4.29	5.36	0	0	0	0	0	0
324	Petroleum and Coal Products	4.87	4.13	3.46	0	3.46	0	W	0
324110	Petroleum Refineries	4.62	3.95	3.45	0	3.45	0	0	0
324199	Other Petroleum and Coal Products	5.51	4.47	0	0	0	0	0	0
325	Chemicals	4.8	4.91	4.98	7.57	4.81	W	0	0
325110	Petrochemicals	9.74	0	0	0	0	0	0	0
325120	Industrial Gases	4.93	20.57	3.28	0	3.28	0	0	0
325181	Alkalies and Chlorine	2.67	4.74	W	0	W	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	5.48	4.79	Q	3.18	Q	0	0	0
325192	Cyclic Crudes and Intermediates	4.91	W	5.79	0	5.79	0	0	0
325193	Ethyl Alcohol	1.05	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	4.78	4.69	3.89	0	3.89	W	0	0
325211	Plastics Materials and Resins	4.29	4.75	4.49	W	4.46	W	0	0
325212	Synthetic Rubber	6.91	W	6.57	0	6.57	0	0	0
325222	Noncellulosic Organic Fibers	9.18	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	6.06	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	4.33	4.55	10.03	23.31	7.67	0	0	0
325412	Pharmaceutical Preparation	4.31	4.49	9.85	23.31	W	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	6.58	5.52	0	0	0	0	0	0
326	Plastics and Rubber Products	5.79	5.45	5.2	0	5.2	0	0	0
327	Nonmetallic Mineral Products	4.48	4.83	Q	0	Q	0	W	0
3272	Glass and Glass Products	3.9	4.47	0	0	0	0	W	0
327211	Flat Glass	0	4.4	0	0	0	0	0	0
327213	Glass Containers	3.71	4.25	0	0	0	0	0	0
327310	Cements	5.02	6.2	0	0	0	0	W	0
327410	Lime	6.36	5.23	0	0	0	0	0	0
327993	Mineral Wool	6.75	4.24	0	0	0	0	0	0
331	Primary Metals	4.54	4.68	3.8	3.85	3.65	0	0	W
331111	Iron and Steel Mills	4.36	4.39	3.85	3.85	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	6.75	4.77	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	4.97	4.88	0	0	0	0	0	0
3313	Alumina and Aluminum	4.82	4.63	0	0	0	0	0	0
331312	Primary Aluminum	6.1	W	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	5	5.11	3.65	0	3.65	0	0	0
3315	Foundries	5.14	5.37	0	0	0	0	0	W
331511	Iron Foundries	6.36	5.31	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	3.78	5.51	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	4.37	5.33	0	0	0	0	0	W
332	Fabricated Metal Products	6.87	4.84	Q	0	Q	0	0	W
333	Machinery	6.52	5.14	3.33	0	3.33	W	W	0

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

			Selected Wood and Other Biomass Components					
NAICS Code(a)	Subsector and Industry	Biomass Total(e)	Agricultural Waste	Wood Harvested Directly from Trees	Wood Residues and Byproducts from Mill Processing	Wood-Related and Paper-Related Refuse	All Other Energy Sources	RSE Row Factors
322	Paper	2.61	0	W	1.12	W	W	2.7
322110	Pulp Mills	0	0	0	0	0	0	1.8
322121	Paper Mills, except Newsprint	1.62	0	W	1.12	0	W	2.1
322122	Newsprint Mills	0	0	0	0	0	0	0.5
322130	Paperboard Mills	W	0	0	0	W	0	1.6
323	Printing and Related Support	0	0	0	0	0	0	9.5
324	Petroleum and Coal Products	0	0	0	0	0	0	3.3
324110	Petroleum Refineries	0	0	0	0	0	0	1.5
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0.7
325	Chemicals	W	0	0	0	W	0	3.7
325110	Petrochemicals	0	0	0	0	0	0	0.9
325120	Industrial Gases	0	0	0	0	0	0	0.7
325181	Alkalies and Chlorine	0	0	0	0	0	0	0.6
325182	Carbon Black	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	0	0	0	0	0	0	1.8
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0.6
325193	Ethyl Alcohol	0	0	0	0	0	0	0.5
325199	Other Basic Organic Chemicals	0	0	0	0	0	0	3.5
325211	Plastics Materials and Resins	W	0	0	0	W	0	3.8
325212	Synthetic Rubber	0	0	0	0	0	0	0.6
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	2.1
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0.5
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	2.8
325412	Pharmaceutical Preparation	0	0	0	0	0	0	3.7
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	3.1
326	Plastics and Rubber Products	W	0	0	0	W	W	6.5
327	Nonmetallic Mineral Products	0	0	0	0	0	W	4
3272	Glass and Glass Products	0	0	0	0	0	0	1.7
327211	Flat Glass	0	0	0	0	0	0	0.6
327213	Glass Containers	0	0	0	0	0	0	0.5
327310	Cements	0	0	0	0	0	W	0.7
327410	Lime	0	0	0	0	0	0	0.6
327993	Mineral Wool	0	0	0	0	0	0	1.9
331	Primary Metals	W	0	0	W	W	Q	2.1
331111	Iron and Steel Mills	0	0	0	0	0	0	2.3
331112	Electrometallurgical Ferroalloy Products	W	0	0	W	0	0	0.7
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	8.8
3313	Alumina and Aluminum	0	0	0	0	0	0	0.9
331312	Primary Aluminum	0	0	0	0	0	0	0.5
3314	Nonferrous Metals, except Aluminum	W	0	0	0	W	22.81	2.5
3315	Foundries	0	0	0	0	0	W	2.3
331511	Iron Foundries	0	0	0	0	0	0	2.4
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	2.6
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0.7
332	Fabricated Metal Products	W	0	0	0	W	W	10.9
333	Machinery	0	0	0	0	0	0	8

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL	Acetylene	Breeze	Coal Total	Anthracite	Bituminous and Subbituminous Coal	Lignite	Coal Coke	Petroleum Coke
334	Computer and Electronic Products	15.42	Q	0	3.11	W	0	0	0	0
334413	Semiconductors and Related Devices	12.44	W	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	11.7	Q	0	0	0	0	0	0	0
336	Transportation Equipment	7.47	77.3	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	W	W	0	0	0	0	0	0	0
337	Furniture and Related Products	14.24	222.65	0	0	0	0	0	0	0
339	Miscellaneous	13.95	Q	0	0	0	0	0	0	0
	Total	7.31	93.2	2.47	1.94	1.89	1.94	0	4.5	0.97
	Midwest Census Region									
	RSE Column Factors:	1.1	1.9	0.7	0.6	0.6	0.6	0	0.9	1
311	Food	4.94	109.36	0	W	W	1.37	0	5.25	0
311221	Wet Corn Milling	W	W	0	W	0	1.26	0	0	0
31131	Sugar	2.64	W	0	1.56	W	1.56	0	5.25	0
311421	Fruit and Vegetable Canning	7.28	91.61	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	5.79	97.37	0	2.03	0	2.03	0	0	0
3121	Beverages	W	95.67	0	2.03	0	2.03	0	0	0
3122	Tobacco	W	W	0	0	0	0	0	0	0
313	Textile Mills	10.17	109.86	0	0	0	0	0	0	0
314	Textile Product Mills	11.29	W	0	0	0	0	0	0	0
315	Apparel	12.77	W	0	0	0	0	0	0	0
316	Leather and Allied Products	8.21	106.21	0	0	0	0	0	0	0
321	Wood Products	4.74	141.89	0	W	0	W	0	W	0
321113	Sawmills	12.4	208.62	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	2.68	116.5	0	W	0	W	0	W	0
3219	Other Wood Products	10.57	128.85	0	0	0	0	0	0	0
322	Paper	5.05	106.95	0	2.02	W	2.01	0	W	W
322110	Pulp Mills	W	W	0	W	0	W	0	0	0
322121	Paper Mills, except Newsprint	4.5	128.67	0	W	0	2.06	0	W	W
322122	Newsprint Mills	W	0	0	W	0	W	0	0	0
322130	Paperboard Mills	4.87	62.19	0	W	W	2.03	0	0	0
323	Printing and Related Support	11.54	226.2	0	0	0	0	0	0	0
324	Petroleum and Coal Products	4.78	Q	0	0	0	0	0	0	W
324110	Petroleum Refineries	4.92	0	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	W	W	0	0	0	0	0	0	W
325	Chemicals	4.96	W	W	W	2.67	1.78	W	W	W
325110	Petrochemicals	W	0	0	0	0	0	0	0	0
325120	Industrial Gases	Q	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	W	W	0	W	0	W	0	0	0
325182	Carbon Black	W	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	5.45	W	0	W	0	W	0	W	W
325192	Cyclic Crudes and Intermediates	5.00	W	0	0	0	0	0	0	0
325193	Ethyl Alcohol	3.65	W	0	1.65	W	1.71	0	0	0
325199	Other Basic Organic Chemicals	5.75	W	0	1.73	0	1.73	0	0	0
325211	Plastics Materials and Resins	4.45	Q	0	W	0	W	0	W	0

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

			Electricity Components					
NAICS Code(a)	**Subsector and Industry**	**Electricity Total**	**Electricity from Local Utility(b)**	**Electricity from Sources Other than Local Utility(c)**	**Total Diesel Fuel and Distillate Fuel Oil**	**Diesel Fuel**	**Distillate Fuel Oil**	**Residual Fuel Oil**
334	Computer and Electronic Products	20.65	20.9	18.82	6.59	10.3	6.55	4.97
334413	Semiconductors and Related Devices	W	17.3	17.73	6.08	11.35	W	6.67
335	Electrical Equip., Appliances, and Components	W	22.03	22.28	6.08	8.73	6.05	4.6
336	Transportation Equipment	18.56	19.93	13.86	7.05	8.53	6.58	4.6
336112	Light Trucks and Utility Vehicles	W	W	0	W	W	W	0
337	Furniture and Related Products	26.05	26.4	22.86	7.37	9.15	7.18	0
339	Miscellaneous	24.7	25.03	20.82	7.06	Q	W	W
	Total	18.74	19.67	14.68	6.58	7.91	6.09	4.29
	RSE Column Factors:	1.3	1.3	1.5	1.6	1.6	1	1.1
311	Food	W	13.22	15.01	7.73	8.19	W	3.21
311221	Wet Corn Milling	W	10.46	10.93	5.38	4.98	W	W
31131	Sugar	12.63	12.63	0	6.75	6.5	7.79	W
311421	Fruit and Vegetable Canning	17.55	17.66	16	7.53	7.5	W	Q
312	Beverage and Tobacco Products	14.74	14.67	Q	9.16	9.37	W	W
3121	Beverages	W	14.58	Q	9.16	9.37	W	W
3122	Tobacco	W	22.08	0	W	0	W	0
313	Textile Mills	17.75	17.75	0	Q	9.65	W	0
314	Textile Product Mills	16.3	16.15	19.68	0	0	0	0
315	Apparel	19.96	20.06	19.19	0	0	0	0
316	Leather and Allied Products	16.68	16.66	18.52	9.67	8.38	W	0
321	Wood Products	16.48	16.48	16.41	6.97	6.97	6.62	W
321113	Sawmills	19.23	19.06	26.83	8	8.01	W	3.55
3212	Veneer, Plywood, and Engineered Woods	13.8	13.73	14.61	7.71	7.79	W	W
3219	Other Wood Products	17.48	17.45	Q	Q	Q	W	0
322	Paper	W	12.73	15.88	6.8	7.35	5.87	3.31
322110	Pulp Mills	W	W	0	W	W	W	0
322121	Paper Mills, except Newsprint	W	11.54	14.47	6.76	7.54	5.8	W
322122	Newsprint Mills	W	W	0	W	W	W	0
322130	Paperboard Mills	12.54	12.54	12.37	7.26	7.19	W	W
323	Printing and Related Support	17.1	17.1	17.13	7.86	W	W	0
324	Petroleum and Coal Products	10.79	10.61	15.09	5.84	Q	5.77	3.59
324110	Petroleum Refineries	9.91	9.81	W	0	0	0	0
324199	Other Petroleum and Coal Products	16.74	16.74	0	6.5	W	0	0
325	Chemicals	11.78	12	10.63	6.63	7.76	W	3.62
325110	Petrochemicals	W	11.99	W	W	W	W	0
325120	Industrial Gases	9.7	9.61	W	0	0	0	0
325181	Alkalies and Chlorine	12.06	11.69	Q	10.51	W	0	0
325182	Carbon Black	14.18	14.18	0	0	0	0	W
325188	Other Basic Inorganic Chemicals	11.3	11.7	9.37	7.78	8.35	W	W
325192	Cyclic Crudes and Intermediates	W	10.02	0	W	W	W	W
325193	Ethyl Alcohol	11.08	11.25	9.16	6.44	8.27	W	0
325199	Other Basic Organic Chemicals	10.78	11.92	9.3	6.04	9.1	5.48	0
325211	Plastics Materials and Resins	10.79	10.61	11.49	7.26	7.33	W	3.3

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas	Coke Oven Gas	Motor Gasoline (excluding Highway Usage)	Hydrogen	Kerosene	Pulping Liquor or Black Liquor	LPG and NGL(d)	Natural Gas Total
334	Computer and Electronic Products	0	0	14.97	Q	W	0	7.08	6.4
334413	Semiconductors and Related Devices	0	0	12.28	11.14	W	0	18.67	W
335	Electrical Equip., Appliances, and Components	0	0	11.94	25.97	W	0	9.48	4.9
336	Transportation Equipment	0	0	8.66	W	W	0	8.63	3.88
336112	Light Trucks and Utility Vehicles	0	0	W	0	0	0	W	W
337	Furniture and Related Products	0	0	11.54	0	0	0	9.43	5.9
339	Miscellaneous	0	0	Q	0	W	0	13.97	5.73
	Total	0	0	10.8	7.39	9.55	0	9.65	4.85
	RSE Column Factors:	0	0.3	1.5	1.2	1.1	0	1.9	1.4
311	Food	0	0	9.53	W	W	0	9.1	4.11
311221	Wet Corn Milling	0	0	8.03	0	0	0	12.03	3.85
31131	Sugar	0	0	11.34	0	W	0	11.14	4.15
311421	Fruit and Vegetable Canning	0	0	10.48	0	0	0	11.94	4.5
312	Beverage and Tobacco Products	0	0	Q	W	W	0	W	4.18
3121	Beverages	0	0	Q	W	W	0	W	W
3122	Tobacco	0	0	0	W	0	0	W	W
313	Textile Mills	0	0	W	0	0	0	10.34	4.88
314	Textile Product Mills	0	0	W	0	0	0	13.74	6.14
315	Apparel	0	0	W	0	0	0	Q	6.11
316	Leather and Allied Products	0	0	W	0	W	0	9.86	4.02
321	Wood Products	0	0	11.19	0	Q	0	W	4.58
321113	Sawmills	0	0	11.29	0	9.97	0	9.18	4.36
3212	Veneer, Plywood, and Engineered Woods	0	0	10.61	0	W	0	W	4.3
3219	Other Wood Products	0	0	11.37	0	Q	0	10.04	4.96
322	Paper	0	0	9.87	W	8.3	0	Q	4.2
322110	Pulp Mills	0	0	0	0	0	0	W	W
322121	Paper Mills, except Newsprint	0	0	10.28	W	7.74	0	10.31	4.25
322122	Newsprint Mills	0	0	W	0	0	0	W	W
322130	Paperboard Mills	0	0	11.02	0	8.81	0	11.06	4.01
323	Printing and Related Support	0	0	Q	0	0	0	11.62	5.07
324	Petroleum and Coal Products	0	0	10.47	W	W	W	Q	3.77
324110	Petroleum Refineries	0	0	0	W	0	0	13.81	3.71
324199	Other Petroleum and Coal Products	0	0	W	0	0	0	11.38	4.21
325	Chemicals	0	0	7.09	30.32	Q	0	4.34	3.81
325110	Petrochemicals	0	0	W	0	0	0	W	W
325120	Industrial Gases	0	0	0	0	0	0	0	W
325181	Alkalies and Chlorine	0	0	W	W	W	0	11.16	4.47
325182	Carbon Black	0	0	W	0	0	0	W	W
325188	Other Basic Inorganic Chemicals	0	0	11.99	23.95	W	0	W	4.04
325192	Cyclic Crudes and Intermediates	0	0	10.29	W	0	0	W	4.16
325193	Ethyl Alcohol	0	0	W	0	0	0	7.94	W
325199	Other Basic Organic Chemicals	0	0	10.18	24.75	W	0	9.63	4.28
325211	Plastics Materials and Resins	0	0	9.47	W	0	0	W	4.12

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	Waste Gases and Byproduct Gases	Waste Oils and Tars	Industrial Hot Water Total
334	Computer and Electronic Products	7.51	4.89	Q	7.25	Q	0	0	W
334413	Semiconductors and Related Devices	5.91	5.15	Q	11.77	Q	0	0	0
335	Electrical Equip., Appliances, and Components	4.26	5.29	2.77	0	2.77	0	0	0
336	Transportation Equipment	3.12	4.92	4.12	0	4.12	0	0	W
336112	Light Trucks and Utility Vehicles	7.51	4.61	W	0	W	0	0	0
337	Furniture and Related Products	5.65	6.43	Q	0	Q	0	0	0
339	Miscellaneous	6.23	4.9	4.75	19.42	4.04	0	0	W
	Total	5.1	4.71	4.66	8.07	4.53	Q	3.09	0.26
	RSE Column Factors:	2.1	1.4	1.2	1.1	0.9	1	0.7	2.9
311	Food	4.34	3.98	3.81	3.8	Q	0	0	0
311221	Wet Corn Milling	4.09	3.83	3.63	3.63	0	0	0	0
31131	Sugar	4.1	4.18	0	0	0	0	0	0
311421	Fruit and Vegetable Canning	4.42	4.6	6.44	0	6.44	0	0	0
312	Beverage and Tobacco Products	4.59	4	0	0	0	0	0	0
3121	Beverages	4.59	4	0	0	0	0	0	0
3122	Tobacco	4.64	0	0	0	0	0	0	0
313	Textile Mills	4.3	5.16	0	0	0	0	0	0
314	Textile Product Mills	6.35	4.99	0	0	0	0	0	0
315	Apparel	6.72	5.38	0	0	0	0	0	0
316	Leather and Allied Products	5.51	3.74	3.51	0	3.51	0	0	0
321	Wood Products	4.68	4.33	3.91	0	3.91	0	W	0
321113	Sawmills	4.15	4.78	5.14	0	5.14	0	W	0
3212	Veneer, Plywood, and Engineered Woods	4.37	4.18	1.57	0	1.57	0	0	0
3219	Other Wood Products	5.04	4.64	4.47	0	4.47	0	0	0
322	Paper	4.29	4.15	4.08	4.08	4.11	0	W	W
322110	Pulp Mills	W	5.31	5.79	0	5.79	0	0	0
322121	Paper Mills, except Newsprint	4.29	4.23	4.09	3.33	4.1	0	W	W
322122	Newsprint Mills	6.52	4.69	W	W	0	0	0	0
322130	Paperboard Mills	4.5	3.89	Q	Q	3.09	0	0	W
323	Printing and Related Support	5.57	4.71	Q	0	Q	0	0	0
324	Petroleum and Coal Products	3.89	3.75	2.93	2.9	2.94	W	W	0
324110	Petroleum Refineries	3.81	3.7	2.89	2.9	2.87	0	0	0
324199	Other Petroleum and Coal Products	4.14	4.46	2.21	0	2.21	W	0	0
325	Chemicals	4.19	3.71	Q	5.76	Q	0	W	W
325110	Petrochemicals	0	3.58	0	0	0	0	0	0
325120	Industrial Gases	3.74	W	Q	4.22	Q	0	0	0
325181	Alkalies and Chlorine	4.99	4.35	8.03	8.03	0	0	0	0
325182	Carbon Black	7.32	3.37	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	4.08	4.01	4.68	4.06	4.72	0	W	0
325192	Cyclic Crudes and Intermediates	3.67	W	0	0	0	0	0	0
325193	Ethyl Alcohol	3.87	3.49	4.62	5.81	Q	0	0	0
325199	Other Basic Organic Chemicals	4.21	4.31	4.07	6.64	3.96	0	W	0
325211	Plastics Materials and Resins	4.2	4.03	5.3	5.23	5.31	0	0	W

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

			Selected Wood and Other Biomass Components					
NAICS Code(a)	**Subsector and Industry**	**Biomass Total(e)**	**Agricultural Waste**	**Wood Harvested Directly from Trees**	**Wood Residues and Byproducts from Mill Processing**	**Wood-Related and Paper-Related Refuse**	**All Other Energy Sources**	**RSE Row Factors**
334	Computer and Electronic Products	0	0	0	0	0	0	9.7
334413	Semiconductors and Related Devices	0	0	0	0	0	0	1.1
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	8.3
336	Transportation Equipment	0	0	0	0	0	W	4.8
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0.6
337	Furniture and Related Products	W	0	W	W	0	W	9.6
339	Miscellaneous	W	0	W	W	0	W	7.1
	Total	2.79	0	1.96	2.65	W	3.6	4.9
	RSE Column Factors:	0.5	0.2	0.4	0.4	1	1.9	
311	Food	W	W	0	0	0	0	9.2
311221	Wet Corn Milling	0	0	0	0	0	0	0.8
31131	Sugar	0	0	0	0	0	0	0.8
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	2.3
312	Beverage and Tobacco Products	0	0	0	0	0	0	5.4
3121	Beverages	0	0	0	0	0	0	6.2
3122	Tobacco	0	0	0	0	0	0	0.7
313	Textile Mills	0	0	0	0	0	0	7.9
314	Textile Product Mills	0	0	0	0	0	0	10.5
315	Apparel	0	0	0	0	0	0	8.9
316	Leather and Allied Products	0	0	0	0	0	0	11.3
321	Wood Products	1.84	0	3.05	0.8	W	0	5.7
321113	Sawmills	W	0	0	W	0	0	6
3212	Veneer, Plywood, and Engineered Woods	1.34	0	W	0.45	W	0	4.1
3219	Other Wood Products	W	0	W	W	W	0	14.7
322	Paper	4.38	0	W	1.18	10.85	0	3.3
322110	Pulp Mills	W	0	0	0	W	0	0.8
322121	Paper Mills, except Newsprint	3.82	0	W	1.18	W	0	1.9
322122	Newsprint Mills	0	0	0	0	0	0	0.8
322130	Paperboard Mills	5.24	0	W	W	7.99	0	2.8
323	Printing and Related Support	0	0	0	0	0	0	12.3
324	Petroleum and Coal Products	W	0	0	0	W	W	3.7
324110	Petroleum Refineries	0	0	0	0	0	W	1.4
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0.7
325	Chemicals	W	0	0	W	W	W	3.2
325110	Petrochemicals	0	0	0	0	0	0	0.7
325120	Industrial Gases	0	0	0	0	0	0	1.4
325181	Alkalies and Chlorine	0	0	0	0	0	0	1.6
325182	Carbon Black	0	0	0	0	0	0	0.7
325188	Other Basic Inorganic Chemicals	0	0	0	0	0	W	1.8
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0.7
325193	Ethyl Alcohol	0	0	0	0	0	0	2.4
325199	Other Basic Organic Chemicals	0	0	0	0	0	W	1.7
325211	Plastics Materials and Resins	0	0	0	0	0	0	1.6

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL	Acetylene	Breeze	Coal Total	Anthracite	Bituminous and Subbituminous Coal	Lignite	Coal Coke	Petroleum Coke
325212	Synthetic Rubber	6.00	W	0	W	0	W	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	3.72	W	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	6.61	Q	0	1.84	0	1.84	0	0	0
325412	Pharmaceutical Preparation	6.65	Q	0	1.84	0	1.84	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	10.13	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	9.94	102.82	0	W	0	W	0	0	0
327	Nonmetallic Mineral Products	4.1	100.35	0	W	0	1.59	0	3.6	0.87
3272	Glass and Glass Products	5.84	W	0	0	0	0	0	0	0
327211	Flat Glass	4.29	W	0	0	0	0	0	0	0
327213	Glass Containers	5.5	W	0	0	0	0	0	0	0
327310	Cements	2.46	90.52	0	W	0	1.53	0	W	0.76
327410	Lime	2.23	81.06	0	1.69	0	1.69	0	W	1.05
327993	Mineral Wool	5.76	W	0	0	0	0	0	5.25	0
331	Primary Metals	4.77	66.36	2.58	2.01	3.51	2	0	4.55	1.18
331111	Iron and Steel Mills	4	58.52	W	2	W	1.99	0	4.41	2.14
331112	Electrometallurgical Ferroalloy Products	6.47	W	0	W	0	W	0	W	W
3312	Steel Products from Purchased Steel	7.47	61.3	0	3.25	W	0	0	0	0
3313	Alumina and Aluminum	6.02	103.31	0	0	0	0	0	0	W
331312	Primary Aluminum	5.97	93.68	0	0	0	0	0	0	W
3314	Nonferrous Metals, except Aluminum	7.23	64.68	1.67	W	W	0	0	W	W
3315	Foundries	8.17	83.01	W	W	W	W	0	7.28	W
331511	Iron Foundries	8.41	62.34	W	W	W	W	0	7.28	W
331521	Aluminum Die-Casting Foundries	7.07	84.42	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	7.43	105.8	0	0	0	0	0	0	0
332	Fabricated Metal Products	8.88	96.31	0	5.12	W	0	0	W	0
333	Machinery	9.83	83.19	0	1.49	0	W	0	0	0
334	Computer and Electronic Products	10.06	W	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	9.17	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	8.98	111.08	0	3.3	0	W	0	0	W
336	Transportation Equipment	7.71	170.87	0	2.26	0	2.26	0	W	W
336112	Light Trucks and Utility Vehicles	6.57	W	0	W	0	W	0	0	0
337	Furniture and Related Products	9.47	86.03	0	W	W	W	0	0	0
339	Miscellaneous	11.47	W	0	0	0	0	0	0	0
	Total	5.69	90.9	2.73	1.86	2.89	1.79	W	4.5	1.3
	South Census Region									
	RSE Column Factors:	1.4	2.1	0.7	0.9	0.7	0.9	0.5	0.8	0.8
311	Food	7.19	Q	0	2.41	0	2.41	0	0	0
311221	Wet Corn Milling	3.96	W	0	W	0	2.31	0	0	0
31131	Sugar	W	W	0	W	0	W	0	0	0
311421	Fruit and Vegetable Canning	6.25	Q	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	6.8	115.17	0	2.48	0	2.48	0	0	0
3121	Beverages	7.43	129.35	0	2.39	0	2.39	0	0	0

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

			Electricity Components					
NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity from Local Utility(b)	Electricity from Sources Other than Local Utility(c)	Total Diesel Fuel and Distillate Fuel Oil	Diesel Fuel	Distillate Fuel Oil	Residual Fuel Oil
325212	Synthetic Rubber	W	10.14	0	5.9	W	W	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	W	10.55	12.61	6.22	6.18	W	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	12.37	12.34	12.89	8.2	8.36	7.86	4.12
325412	Pharmaceutical Preparation	12.14	12.13	12.58	8.36	W	7.59	4.32
325992	Photographic Film, Paper, Plate, and Chemicals	W	16.13	15.2	0	0	0	0
326	Plastics and Rubber Products	15.67	15.6	16.93	8.73	8.99	Q	W
327	Nonmetallic Mineral Products	13.39	13.4	13.22	6.29	Q	Q	3.83
3272	Glass and Glass Products	12.78	12.74	14.04	6.09	W	W	0
327211	Flat Glass	W	12.95	0	W	W	W	0
327213	Glass Containers	W	11.57	14.5	8.34	W	0	0
327310	Cements	11.16	10.96	12.51	6.74	6.83	W	3.82
327410	Lime	16.47	16.47	0	6.32	6.31	W	W
327993	Mineral Wool	11.02	11.02	0	7.87	7.87	0	0
331	Primary Metals	W	11	9.15	3.5	6.74	2.43	3.9
331111	Iron and Steel Mills	10.11	10.27	9.09	3.18	6.49	2.41	3.9
331112	Electrometallurgical Ferroalloy Products	9.97	9.97	0	6	W	W	0
3312	Steel Products from Purchased Steel	14.54	14.05	16.48	9.03	8.44	W	0
3313	Alumina and Aluminum	W	8.01	7.94	6.57	6.67	W	0
331312	Primary Aluminum	W	W	W	7.22	7.22	W	0
3314	Nonferrous Metals, except Aluminum	W	12.3	12.14	6.82	6.82	W	Q
3315	Foundries	13.77	13.71	15.17	8.2	8.38	5.92	W
331511	Iron Foundries	12.69	12.59	14.42	8.35	8.55	W	0
331521	Aluminum Die-Casting Foundries	13.66	13.63	15.38	9.61	9.61	W	W
331524	Aluminum Foundries, except Die-Casting	15.72	15.78	14.78	7.34	7.34	W	0
332	Fabricated Metal Products	14.99	14.75	19.95	Q	Q	W	Q
333	Machinery	15.89	15.87	16.11	8.81	8.87	Q	0
334	Computer and Electronic Products	14.01	14.05	13.58	6.72	Q	W	0
334413	Semiconductors and Related Devices	W	12.11	0	7.64	W	W	0
335	Electrical Equip., Appliances, and Components	14.87	14.68	17.79	Q	Q	W	4.67
336	Transportation Equipment	W	13.28	15.22	6.76	7.35	W	4.77
336112	Light Trucks and Utility Vehicles	W	12.58	0	W	W	W	W
337	Furniture and Related Products	18.39	18.96	14.49	8.21	7.8	W	0
339	Miscellaneous	17.56	17.94	Q	8.43	W	W	0
	Total	13.23	13.36	12.03	5.83	6.84	3.86	3.43
	RSE Column Factors:	1.4	1.3	1.6	1.7	1.8	1.5	1.2
311	Food	14.29	14.28	Q	7.01	7.38	W	Q
311221	Wet Corn Milling	10	10	0	8.46	W	W	0
31131	Sugar	18.96	19.19	15.15	8.69	7.15	W	5.99
311421	Fruit and Vegetable Canning	16.22	16.22	0	Q	8.73	W	W
312	Beverage and Tobacco Products	14.78	14.72	16.46	Q	Q	5.82	5.08
3121	Beverages	15.47	15.41	16.46	Q	Q	W	W

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas	Coke Oven Gas	Motor Gasoline (excluding Highway Usage)	Hydrogen	Kerosene	Pulping Liquor or Black Liquor	LPG and NGL(d)	Natural Gas Total
325212	Synthetic Rubber	0	0	W	W	W	0	W	4.23
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	10.4	W	0	0	0	3.37
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	9.37	96.87	W	0	8.96	4.35
325412	Pharmaceutical Preparation	0	0	9.11	W	W	0	9.73	4.47
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	Q	4.45
326	Plastics and Rubber Products	0	0	10.64	W	Q	0	11.22	4.97
327	Nonmetallic Mineral Products	0	0	9.71	1.99	8.84	0	8.96	4.04
3272	Glass and Glass Products	0	0	9.25	1.99	W	0	10.03	3.97
327211	Flat Glass	0	0	W	1.67	W	0	13.59	3.59
327213	Glass Containers	0	0	W	0	W	0	9.57	3.85
327310	Cements	0	0	6.41	0	10.85	0	10.27	3.96
327410	Lime	0	0	8.69	0	12.82	0	12.83	W
327993	Mineral Wool	0	0	10.12	W	W	0	8.52	3.92
331	Primary Metals	0	W	9.2	4.28	12.87	0	8.44	3.96
331111	Iron and Steel Mills	0	W	8.32	4.68	8.71	0	8.45	3.74
331112	Electrometallurgical Ferroalloy Products	0	0	W	W	W	0	7.16	4.53
3312	Steel Products from Purchased Steel	0	0	Q	1.58	Q	0	11.1	4.43
3313	Alumina and Aluminum	0	0	11.3	W	W	0	12.5	4.28
331312	Primary Aluminum	0	0	W	W	0	0	9.2	3.92
3314	Nonferrous Metals, except Aluminum	0	0	11.27	13.96	8.82	0	6.67	4.53
3315	Foundries	0	0	9.84	6.23	11.93	0	10.4	4.54
331511	Iron Foundries	0	0	9.32	0	11.22	0	W	4.66
331521	Aluminum Die-Casting Foundries	0	0	W	W	15.08	0	W	W
331524	Aluminum Foundries, except Die-Casting	0	0	Q	0	15.88	0	10.12	4.58
332	Fabricated Metal Products	0	0	9.76	Q	Q	0	13.45	4.69
333	Machinery	0	0	11.18	W	16.54	0	9.48	5.05
334	Computer and Electronic Products	0	0	8.83	31.79	0	0	14.92	4.83
334413	Semiconductors and Related Devices	0	0	W	W	0	0	W	W
335	Electrical Equip., Appliances, and Components	0	0	Q	W	10.54	0	14.14	4.83
336	Transportation Equipment	0	0	8.58	Q	W	0	8.32	4.05
336112	Light Trucks and Utility Vehicles	0	0	W	0	0	0	W	4.24
337	Furniture and Related Products	0	0	8.77	W	W	0	11.19	5.17
339	Miscellaneous	0	0	W	W	W	0	12.15	5.16
	Total	0	W	9.15	4.81	8.99	W	4.95	4.14
	RSE Column Factors:	0	0	2	0.6	1.3	0.6	2	1.4
311	Food	0	0	Q	W	Q	0	8.77	4.38
311221	Wet Corn Milling	0	0	W	0	W	0	14.54	W
31131	Sugar	0	0	W	0	0	0	10.35	W
311421	Fruit and Vegetable Canning	0	0	9.44	0	W	0	Q	4.45
312	Beverage and Tobacco Products	0	0	10.19	W	13.97	0	6.97	4.23
3121	Beverages	0	0	10.2	W	W	0	W	W

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	Waste Gases and Byproduct Gases	Waste Oils and Tars	Industrial Hot Water Total
325212	Synthetic Rubber	7.61	4.11	0	0	0	0	0	W
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	3.52	3.37	6.12	0	6.12	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	4.7	4.15	5.38	0	5.38	0	0	0
325412	Pharmaceutical Preparation	4.61	4.37	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	4.49	4.16	0	0	0	0	0	0
326	Plastics and Rubber Products	4.96	4.98	3.08	3.08	0	0	0	W
327	Nonmetallic Mineral Products	4.07	4.03	0	0	0	0	W	0
3272	Glass and Glass Products	4.08	3.96	0	0	0	0	0	0
327211	Flat Glass	W	3.59	0	0	0	0	0	0
327213	Glass Containers	8.71	3.83	0	0	0	0	0	0
327310	Cements	4.55	3.83	0	0	0	0	W	0
327410	Lime	3.61	3.57	0	0	0	0	0	0
327993	Mineral Wool	4.31	3.83	0	0	0	0	0	0
331	Primary Metals	4.63	3.87	3.83	2.31	4.03	0	W	W
331111	Iron and Steel Mills	4.2	3.72	3.86	0	3.86	0	W	0
331112	Electrometallurgical Ferroalloy Products	6.4	4.51	5.36	0	5.36	0	0	0
3312	Steel Products from Purchased Steel	4.42	4.43	0	0	0	0	0	0
3313	Alumina and Aluminum	4.71	4.16	2.31	2.31	0	0	W	W
331312	Primary Aluminum	5.63	3.91	0	0	0	0	W	0
3314	Nonferrous Metals, except Aluminum	5.07	4.18	7.91	0	7.91	0	0	0
3315	Foundries	4.89	4.43	7.29	10.33	7.28	0	0	0
331511	Iron Foundries	4.87	4.58	7.28	0	7.28	0	0	0
331521	Aluminum Die-Casting Foundries	4.73	4.13	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	4.42	4.63	0	0	0	0	0	0
332	Fabricated Metal Products	4.79	4.52	Q	0	Q	0	0	0
333	Machinery	5.22	4.94	6.04	5.61	Q	0	0	0
334	Computer and Electronic Products	5.03	4.41	4.12	0	4.12	0	0	W
334413	Semiconductors and Related Devices	2.37	4.23	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	5.31	4.49	4.65	4.54	7.13	0	0	0
336	Transportation Equipment	3.93	4.13	6.36	7.91	5.22	W	W	0
336112	Light Trucks and Utility Vehicles	4.56	4.05	4.36	0	4.36	W	0	0
337	Furniture and Related Products	5.77	4.71	0	0	0	0	0	0
339	Miscellaneous	4.97	5.6	0	0	0	0	0	0
	Total	4.48	4	3.7	4.22	3.53	W	8.55	Q
	RSE Column Factors:	1.9	1.2	1.2	0.4	1.3	0.4	0.9	0.7
311	Food	4.75	3.91	3.85	0	3.85	0	0	0
311221	Wet Corn Milling	5.28	3.53	2	0	2	0	0	0
31131	Sugar	4.06	3.71	0	0	0	0	0	0
311421	Fruit and Vegetable Canning	4.57	4.37	0	0	0	0	0	0
312	Beverage and Tobacco Products	4.23	4.24	0	0	0	0	0	0
3121	Beverages	4.01	4.14	0	0	0	0	0	0

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

			Selected Wood and Other Biomass Components					
NAICS Code(a)	**Subsector and Industry**	**Biomass Total(e)**	**Agricultural Waste**	**Wood Harvested Directly from Trees**	**Wood Residues and Byproducts from Mill Processing**	**Wood-Related and Paper-Related Refuse**	**All Other Energy Sources**	**RSE Row Factors**
325212	Synthetic Rubber	0	0	0	0	0	0	1.8
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0.7
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	3.6
325412	Pharmaceutical Preparation	0	0	0	0	0	0	2
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	2.7
326	Plastics and Rubber Products	W	0	0	0	W	0	13.7
327	Nonmetallic Mineral Products	W	0	0	0	W	W	4
3272	Glass and Glass Products	0	0	0	0	0	0	1.4
327211	Flat Glass	0	0	0	0	0	0	0.7
327213	Glass Containers	0	0	0	0	0	0	0.7
327310	Cements	0	0	0	0	0	W	2
327410	Lime	0	0	0	0	0	0	0.8
327993	Mineral Wool	W	0	0	0	W	0	1
331	Primary Metals	W	W	W	0	W	W	2.3
331111	Iron and Steel Mills	0	0	0	0	0	0	2.2
331112	Electrometallurgical Ferroalloy Products	W	0	W	0	0	0	0.9
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	9.6
3313	Alumina and Aluminum	0	0	0	0	0	0	2.4
331312	Primary Aluminum	0	0	0	0	0	0	0.7
3314	Nonferrous Metals, except Aluminum	0	0	0	0	0	0	3.6
3315	Foundries	W	W	W	0	W	W	3.4
331511	Iron Foundries	W	0	0	0	W	0	4.3
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	W	2.8
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	2.5
332	Fabricated Metal Products	W	0	0	W	0	0	12.8
333	Machinery	0	0	0	0	0	0	9.5
334	Computer and Electronic Products	W	0	W	W	W	0	5
334413	Semiconductors and Related Devices	0	0	0	0	0	0	1.1
335	Electrical Equip., Appliances, and Components	W	0	0	W	W	W	5.1
336	Transportation Equipment	0	0	0	0	0	1.83	9.5
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	W	0.8
337	Furniture and Related Products	W	0	W	W	0	0	11.5
339	Miscellaneous	0	0	0	0	0	W	8.2
	Total	3	W	2.79	0.91	8.78	0.7	6.4
	RSE Column Factors:	1	0.6	0.7	0.7	0.8	0.7	
311	Food	W	W	W	W	W	W	6.7
311221	Wet Corn Milling	W	0	W	W	W	0	0.8
31131	Sugar	0	0	0	0	0	0	0.7
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	7.5
312	Beverage and Tobacco Products	W	0	0	W	0	0	3
3121	Beverages	W	0	0	W	0	0	4

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL	Acetylene	Breeze	Coal Total	Anthracite	Bituminous and Subbituminous Coal	Lignite	Coal Coke	Petroleum Coke
3122	Tobacco	5.9	W	0	2.5	0	2.5	0	0	0
313	Textile Mills	7.61	100.58	0	2.28	0	2.28	0	0	0
314	Textile Product Mills	6.7	Q	0	W	W	Q	0	0	0
315	Apparel	10.18	W	0	0	0	0	0	0	0
316	Leather and Allied Products	13.16	W	0	0	0	0	0	0	0
321	Wood Products	7.66	91.38	0	W	0	W	0	0	0
321113	Sawmills	6.85	96.78	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	8.04	85.75	0	W	0	W	0	0	0
3219	Other Wood Products	8.9	Q	0	0	0	0	0	0	0
322	Paper	3.92	73.53	0	1.94	W	1.93	0	0	W
322110	Pulp Mills	3.75	0	0	2.48	0	W	0	0	W
322121	Paper Mills, except Newsprint	3.46	Q	0	W	0	1.77	0	0	W
322122	Newsprint Mills	5.26	73.92	0	W	0	1.95	0	0	0
322130	Paperboard Mills	3.55	90.95	0	2.09	W	2.08	0	0	W
323	Printing and Related Support	11.99	120.87	0	0	0	0	0	0	0
324	Petroleum and Coal Products	3.6	Q	W	W	0	W	0	0	W
324110	Petroleum Refineries	4.35	0	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	Q	76.95	W	W	0	W	0	0	W
325	Chemicals	4.95	Q	0	1.94	W	1.94	W	W	3.21
325110	Petrochemicals	W	0	0	W	0	W	0	0	0
325120	Industrial Gases	3.75	W	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	5.18	0	0	W	0	W	0	0	0
325182	Carbon Black	W	W	0	0	0	0	0	0	W
325188	Other Basic Inorganic Chemicals	6.6	97.3	0	W	0	2.3	0	0	0
325192	Cyclic Crudes and Intermediates	5.14	0	0	W	0	W	0	0	0
325193	Ethyl Alcohol	W	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	4.99	W	0	Q	0	Q	0	0	0
325211	Plastics Materials and Resins	4.9	W	0	W	0	Q	0	0	0
325212	Synthetic Rubber	5.43	W	0	W	0	W	0	0	0
325222	Noncellulosic Organic Fibers	5.36	92.32	0	W	0	W	0	0	0
325311	Nitrogenous Fertilizers	3.4	W	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	4.94	W	0	2.29	0	0	W	W	0
3254	Pharmaceuticals and Medicines	8.45	W	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	8.56	W	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	0	0	0	0	0	0
326	Plastics and Rubber Products	9.38	94.54	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	4.51	117.38	0	W	W	1.96	W	1.18	1.02
3272	Glass and Glass Products	5.86	98.03	0	W	W	0	0	0	0
327211	Flat Glass	4.68	131.6	0	W	W	0	0	0	0
327213	Glass Containers	5.59	W	0	0	0	0	0	0	0
327310	Cements	3.02	94.48	0	1.95	W	1.95	0	W	1
327410	Lime	2.35	W	0	1.98	0	1.97	W	0	0.98
327993	Mineral Wool	5.88	168.91	0	0	0	0	0	W	0
331	Primary Metals	5.45	88.27	W	2.14	4.4	1.96	W	4.88	1.14
331111	Iron and Steel Mills	5.2	76.41	W	2.02	4.04	W	0	4.7	3.59
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	0	W	0	W	0
3312	Steel Products from Purchased Steel	8.58	99.73	0	7.37	0	W	0	0	0

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

			Electricity Components					
NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity from Local Utility(b)	Electricity from Sources Other than Local Utility(c)	Total Diesel Fuel and Distillate Fuel Oil	Diesel Fuel	Distillate Fuel Oil	Residual Fuel Oil
3122	Tobacco	13.63	13.63	0	5.8	W	5.75	W
313	Textile Mills	11.91	11.92	11.78	6.82	8.83	W	W
314	Textile Product Mills	14.57	14.66	13.53	Q	8.24	Q	W
315	Apparel	16.69	16.52	Q	Q	W	W	5
316	Leather and Allied Products	20.84	20.84	0	5.32	0	W	0
321	Wood Products	W	15.89	13.11	6.58	6.56	Q	5.41
321113	Sawmills	W	17.38	15.69	7.1	7.08	Q	0
3212	Veneer, Plywood, and Engineered Woods	13.7	13.81	11.76	6.59	6.6	W	5.41
3219	Other Wood Products	18.96	18.95	Q	8.17	8.15	W	0
322	Paper	W	11.03	11.21	4.96	6.88	4.67	3.46
322110	Pulp Mills	W	12.7	0	4.29	6.55	W	3.7
322121	Paper Mills, except Newsprint	W	9.85	11.46	5.22	7.15	4.89	W
322122	Newsprint Mills	8.95	8.83	W	7.9	8.69	W	W
322130	Paperboard Mills	W	10.9	10.37	5.8	6.72	5.43	3.21
323	Printing and Related Support	17.07	16.95	22.19	5.82	Q	5.66	Q
324	Petroleum and Coal Products	11.64	11.98	10.71	5.62	5.55	Q	3.15
324110	Petroleum Refineries	11.35	11.61	10.67	7.15	W	W	0
324199	Other Petroleum and Coal Products	12.81	12.81	0	5.53	5.53	W	0
325	Chemicals	10.84	10.9	10.58	5.92	5.94	5.9	3.57
325110	Petrochemicals	W	10.79	10.75	W	W	W	W
325120	Industrial Gases	W	10.58	11.11	W	W	W	0
325181	Alkalies and Chlorine	9.02	8.95	W	W	W	W	0
325182	Carbon Black	W	13.25	0	8.16	8.16	W	3.46
325188	Other Basic Inorganic Chemicals	W	8.15	9.02	7.02	W	12.96	W
325192	Cyclic Crudes and Intermediates	9.75	12.15	W	8.8	10.54	W	W
325193	Ethyl Alcohol	12.03	12.03	0	W	W	0	0
325199	Other Basic Organic Chemicals	W	10.97	10.53	6.33	7.38	Q	4.07
325211	Plastics Materials and Resins	W	12.35	11.15	5.98	7.49	W	W
325212	Synthetic Rubber	W	12.59	19.78	5.11	5.67	W	4.41
325222	Noncellulosic Organic Fibers	W	11.14	10.41	6.2	6.98	5.96	W
325311	Nitrogenous Fertilizers	11.44	11.44	11.22	6.27	6.45	W	0
325312	Phosphatic Fertilizers	W	16.13	10.48	5.89	5.25	W	3.82
3254	Pharmaceuticals and Medicines	13.87	14	12.58	4.83	8.68	4.61	3.94
325412	Pharmaceutical Preparation	13.66	13.73	12.89	4.74	6.58	4.67	W
325992	Photographic Film, Paper, Plate, and Chemicals	W	15.43	19.64	6.2	W	W	4.06
326	Plastics and Rubber Products	13.56	13.45	16.07	6.65	7.53	W	W
327	Nonmetallic Mineral Products	12.85	12.78	14.12	7.71	7.98	W	W
3272	Glass and Glass Products	12.36	12.35	12.53	6.9	7.03	W	W
327211	Flat Glass	10.71	10.71	0	7.24	7.88	W	W
327213	Glass Containers	12.34	12.19	13.78	6.48	W	0	0
327310	Cements	11.4	11.37	11.89	5.69	6.32	W	0
327410	Lime	11.49	11.49	0	6.51	6.57	W	0
327993	Mineral Wool	11.88	11.77	13.17	9.01	9.01	0	0
331	Primary Metals	W	9.32	8.23	6.58	6.54	6.98	4.81
331111	Iron and Steel Mills	9.61	9.56	11.12	6.39	6.39	W	4.81
331112	Electrometallurgical Ferroalloy Products	W	W	W	W	W	W	0
3312	Steel Products from Purchased Steel	W	11.89	12.84	7.37	7.8	W	0

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas	Coke Oven Gas	Motor Gasoline (excluding Highway Usage)	Hydrogen	Kerosene	Pulping Liquor or Black Liquor	LPG and NGL(d)	Natural Gas Total
3122	Tobacco	0	0	10.18	0	W	0	W	W
313	Textile Mills	0	0	10.91	W	0	0	W	4.95
314	Textile Product Mills	0	0	Q	W	W	0	Q	4.23
315	Apparel	0	0	W	0	W	0	Q	4.51
316	Leather and Allied Products	0	0	W	0	0	0	11.16	6.02
321	Wood Products	0	0	9.94	W	15.35	0	W	4.59
321113	Sawmills	0	0	9.18	W	18.66	0	9.19	3.81
3212	Veneer, Plywood, and Engineered Woods	0	0	10.07	0	9.5	0	W	4.69
3219	Other Wood Products	0	0	15.06	0	14.48	0	10.8	5.32
322	Paper	0	0	9.83	1.7	6.37	2.17	8.65	3.94
322110	Pulp Mills	0	0	10.65	0	W	W	W	3.74
322121	Paper Mills, except Newsprint	0	0	10.03	W	6.28	0	7.98	3.96
322122	Newsprint Mills	0	0	7.47	0	W	W	9.14	3.78
322130	Paperboard Mills	0	0	9.68	1.47	10.49	W	9.36	3.81
323	Printing and Related Support	0	0	Q	W	W	0	10.8	5.39
324	Petroleum and Coal Products	0	0	7.9	4.59	8.7	0	Q	3.39
324110	Petroleum Refineries	0	0	0	4.59	0	0	10.18	3.35
324199	Other Petroleum and Coal Products	0	0	11.12	0	W	0	13.63	4.06
325	Chemicals	0	0	9.24	1.09	W	W	5.82	3.3
325110	Petrochemicals	0	0	7.99	8.29	W	0	5.8	3.41
325120	Industrial Gases	0	0	W	W	W	0	W	3.65
325181	Alkalies and Chlorine	0	0	W	W	0	0	W	W
325182	Carbon Black	0	0	9.91	0	W	W	10.35	3.18
325188	Other Basic Inorganic Chemicals	0	0	7.56	4.92	W	0	W	3.93
325192	Cyclic Crudes and Intermediates	0	0	W	6.11	0	0	W	3.49
325193	Ethyl Alcohol	0	0	W	0	0	0	11.7	W
325199	Other Basic Organic Chemicals	0	0	9.09	6.77	W	0	6.86	3.33
325211	Plastics Materials and Resins	0	0	10.54	2.31	W	0	5.18	2.76
325212	Synthetic Rubber	0	0	10.93	37.83	W	0	W	3.36
325222	Noncellulosic Organic Fibers	0	0	11.47	W	9.32	0	8.63	3.75
325311	Nitrogenous Fertilizers	0	0	11.1	0	0	0	17.01	3.25
325312	Phosphatic Fertilizers	0	0	W	0	0	0	11.9	3.42
3254	Pharmaceuticals and Medicines	0	0	10.54	W	W	0	9.91	4.75
325412	Pharmaceutical Preparation	0	0	W	W	0	0	13.09	4.63
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	W	0	0	0	8.82	5.4
326	Plastics and Rubber Products	0	0	Q	1342.07	W	0	W	4.82
327	Nonmetallic Mineral Products	0	0	10.99	1.76	Q	0	11.34	4.09
3272	Glass and Glass Products	0	0	10.28	1.7	15.45	0	W	4.16
327211	Flat Glass	0	0	11.69	1.47	16.93	0	13.42	4.16
327213	Glass Containers	0	0	W	0	0	0	8.71	3.88
327310	Cements	0	0	10.79	0	W	0	24.63	3.82
327410	Lime	0	0	9.63	0	W	0	20.05	3.65
327993	Mineral Wool	0	0	8.7	0	W	0	9.83	3.9
331	Primary Metals	0	0	9.82	12.07	11.08	0	9.6	4.02
331111	Iron and Steel Mills	0	0	9.92	17.46	14	0	11.86	3.86
331112	Electrometallurgical Ferroalloy Products	0	0	W	0	0	0	W	W
3312	Steel Products from Purchased Steel	0	0	11.14	9.7	11.44	0	10.46	4.72

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	Waste Gases and Byproduct Gases	Waste Oils and Tars	Industrial Hot Water Total
3122	Tobacco	5.26	4.63	0	0	0	0	0	0
313	Textile Mills	5.27	4.41	4.25	W	4.15	0	0	0
314	Textile Product Mills	4.16	4.3	0	0	0	0	0	W
315	Apparel	4.86	3.82	0	0	0	0	0	0
316	Leather and Allied Products	6.28	5.46	0	0	0	0	0	0
321	Wood Products	4.86	4.13	3.3	0	3.3	0	W	0
321113	Sawmills	4.05	3.58	3.83	0	3.83	0	0	0
3212	Veneer, Plywood, and Engineered Woods	4.88	4.38	4.71	0	4.71	0	0	0
3219	Other Wood Products	5.32	5.15	Q	0	Q	0	0	0
322	Paper	4.33	3.83	4.95	Q	5.43	0	2.81	0
322110	Pulp Mills	4.38	3.63	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	4.25	3.88	9.94	0	9.94	0	W	0
322122	Newsprint Mills	W	3.78	W	0	W	0	0	0
322130	Paperboard Mills	4.09	3.79	4.17	Q	W	0	W	0
323	Printing and Related Support	5.54	5.05	5.07	5.07	0	0	0	0
324	Petroleum and Coal Products	3.59	3.37	4.31	9.29	4.08	W	0	W
324110	Petroleum Refineries	3.33	3.35	4.31	9.29	4.08	0	0	W
324199	Other Petroleum and Coal Products	4.18	3.98	0	0	0	0	0	0
325	Chemicals	3.77	3.25	4.28	3.79	4.34	3.96	W	W
325110	Petrochemicals	3.93	3.4	W	0	W	0	0	0
325120	Industrial Gases	3.32	3.73	4.23	0	4.23	0	0	0
325181	Alkalies and Chlorine	4.24	W	W	W	0	0	0	0
325182	Carbon Black	3.05	3.44	0	0	0	0	W	0
325188	Other Basic Inorganic Chemicals	3.76	3.95	7.11	W	6.44	W	0	0
325192	Cyclic Crudes and Intermediates	3.43	3.52	4.41	0	4.41	W	W	0
325193	Ethyl Alcohol	3.69	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	3.54	3.31	3.64	W	3.7	3.98	W	0
325211	Plastics Materials and Resins	4.1	2.65	4.58	W	4.53	0	0	0
325212	Synthetic Rubber	3.4	3.35	5.29	0	5.29	0	0	0
325222	Noncellulosic Organic Fibers	4.18	3.52	4.39	0	4.39	W	0	W
325311	Nitrogenous Fertilizers	3.81	3.24	5.95	0	5.95	0	0	0
325312	Phosphatic Fertilizers	4.57	3.29	5.98	0	5.98	0	0	0
3254	Pharmaceuticals and Medicines	4.95	4.39	4.09	7.24	4.07	0	0	0
325412	Pharmaceutical Preparation	4.86	4.18	4.27	0	4.27	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	6.08	4.4	0	0	0	0	0	0
326	Plastics and Rubber Products	4.84	4.77	2.26	3.59	Q	0	0	W
327	Nonmetallic Mineral Products	4.19	3.98	3.41	5.16	3.28	W	1.84	W
3272	Glass and Glass Products	4.23	4.07	5.3	5.3	0	0	0	W
327211	Flat Glass	4.15	4.01	0	0	0	0	0	0
327213	Glass Containers	5.26	3.78	0	0	0	0	0	0
327310	Cements	4.11	3.46	3.28	0	3.28	W	1.74	0
327410	Lime	3.53	3.7	0	0	0	0	W	0
327993	Mineral Wool	4.02	3.85	0	0	0	0	0	0
331	Primary Metals	4.56	3.81	W	7.5	W	0	W	0
331111	Iron and Steel Mills	4.21	3.72	0	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	4.25	Q	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	4.73	4.7	7.5	7.5	0	0	0	0

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

			Selected Wood and Other Biomass Components					
NAICS Code(a)	Subsector and Industry	Biomass Total(e)	Agricultural Waste	Wood Harvested Directly from Trees	Wood Residues and Byproducts from Mill Processing	Wood-Related and Paper-Related Refuse	All Other Energy Sources	RSE Row Factors
3122	Tobacco	0	0	0	0	0	0	0.7
313	Textile Mills	W	0	0	W	W	W	12.3
314	Textile Product Mills	W	0	0	W	0	0	14.6
315	Apparel	0	0	0	0	0	0	16.7
316	Leather and Allied Products	0	0	0	0	0	0	6
321	Wood Products	3.93	W	5.44	2.1	2.69	0	8.5
321113	Sawmills	W	0	W	1.63	0	0	10.8
3212	Veneer, Plywood, and Engineered Woods	6.03	W	8.92	2.74	W	0	6.2
3219	Other Wood Products	1.4	0	W	1.44	W	0	11.7
322	Paper	1.56	1.21	1.76	1.23	Q	1.46	1.9
322110	Pulp Mills	1.68	0	0	1.68	0	W	0.8
322121	Paper Mills, except Newsprint	1.2	W	W	0.82	W	W	1.6
322122	Newsprint Mills	W	W	W	1.19	0	W	0.8
322130	Paperboard Mills	1.64	W	W	1.41	W	1.66	2.4
323	Printing and Related Support	0	0	0	0	0	0	6.2
324	Petroleum and Coal Products	W	0	0	W	W	0	3.9
324110	Petroleum Refineries	0	0	0	0	0	0	1.6
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	1.5
325	Chemicals	W	0	W	W	W	0.6	3.5
325110	Petrochemicals	0	0	0	0	0	0	0.7
325120	Industrial Gases	0	0	0	0	0	0	2
325181	Alkalies and Chlorine	0	0	0	0	0	0	0.8
325182	Carbon Black	0	0	0	0	0	0	0.7
325188	Other Basic Inorganic Chemicals	W	0	0	W	0	0	2.6
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0.8
325193	Ethyl Alcohol	0	0	0	0	0	0	0.6
325199	Other Basic Organic Chemicals	0	0	0	0	0	W	5.9
325211	Plastics Materials and Resins	0	0	0	0	0	W	2.7
325212	Synthetic Rubber	0	0	0	0	0	0	2.9
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0.8
325311	Nitrogenous Fertilizers	0	0	0	0	0	W	0.7
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0.7
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	4
325412	Pharmaceutical Preparation	0	0	0	0	0	0	5.9
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	W	W	W	0	2
326	Plastics and Rubber Products	W	0	0	0	W	0	13.3
327	Nonmetallic Mineral Products	W	W	0	W	W	0.87	4.6
3272	Glass and Glass Products	W	W	0	0	0	W	1.7
327211	Flat Glass	0	0	0	0	0	W	0.8
327213	Glass Containers	W	W	0	0	0	0	0.7
327310	Cements	0	0	0	0	0	0.96	2.5
327410	Lime	0	0	0	0	0	0	0.8
327993	Mineral Wool	W	0	0	0	W	0	1.9
331	Primary Metals	W	0	0	W	0	W	2.1
331111	Iron and Steel Mills	0	0	0	0	0	0	1.5
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	7.9
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	6.7

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL	Acetylene	Breeze	Coal Total	Anthracite	Bituminous and Subbituminous Coal	Lignite	Coal Coke	Petroleum Coke
3313	Alumina and Aluminum	5.17	90.77	0	W	W	0	0	W	1.09
331312	Primary Aluminum	5.03	W	0	W	W	0	0	0	1.09
3314	Nonferrous Metals, except Aluminum	6.8	Q	W	3.24	0	W	0	W	0
3315	Foundries	7.6	99.25	0	W	W	4.26	W	7.11	W
331511	Iron Foundries	7.8	95.38	0	2.77	0	W	0	7.11	W
331521	Aluminum Die-Casting Foundries	7.09	86.31	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	6.3	W	0	0	0	0	0	0	0
332	Fabricated Metal Products	9.81	78.85	0	Q	W	0	0	0	0
333	Machinery	11.94	Q	0	0	0	0	0	0	0
334	Computer and Electronic Products	12.42	Q	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	11.35	366.23	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	4.74	85.89	W	0	0	W	0	0	W
336	Transportation Equipment	9.08	82.24	0	2.19	0	W	0	0	0
336112	Light Trucks and Utility Vehicles	W	W	0	0	0	0	0	0	0
337	Furniture and Related Products	6.14	Q	0	W	0	2.89	0	0	0
339	Miscellaneous	10.96	Q	0	0	0	0	0	0	0
	Total	5.17	Q	W	1.88	2.8	1.87	W	4.7	1.84
	West Census Region									
	RSE Column Factors:	1.3	2.4	0.4	0.7	0.5	0.7	0.8	0.5	0.6
311	Food	8.38	137.05	0	1.63	0	W	0	W	0
311221	Wet Corn Milling	4.95	0	0	0	0	0	0	0	0
31131	Sugar	W	W	0	W	0	W	0	W	0
311421	Fruit and Vegetable Canning	7.37	98.06	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	9.69	127.77	0	0	0	0	0	0	0
3121	Beverages	9.69	127.77	0	0	0	0	0	0	0
3122	Tobacco	W	0	0	0	0	0	0	0	0
313	Textile Mills	8.26	W	0	0	0	0	0	0	0
314	Textile Product Mills	14.15	0	0	0	0	0	0	0	0
315	Apparel	13.55	0	0	0	0	0	0	0	0
316	Leather and Allied Products	20	0	0	0	0	0	0	0	0
321	Wood Products	1.9	97.59	0	0	0	0	0	0	0
321113	Sawmills	4.84	94.82	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	0.76	91.78	0	0	0	0	0	0	0
3219	Other Wood Products	25.97	174.91	0	0	0	0	0	0	0
322	Paper	6.31	95.13	0	W	W	W	0	0	0
322110	Pulp Mills	W	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	5.79	W	0	0	0	0	0	0	0
322122	Newsprint Mills	7.16	W	0	0	0	0	0	0	0
322130	Paperboard Mills	5.24	W	0	W	W	W	0	0	0
323	Printing and Related Support	14.13	204.48	0	0	0	0	0	0	0
324	Petroleum and Coal Products	4.6	133.12	0	0	0	0	0	0	W
324110	Petroleum Refineries	4.89	W	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	W	0	0	0	0	0	0	0	W
325	Chemicals	4.83	107.94	0	W	0	W	W	W	W

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity Components: Electricity from Local Utility(b)	Electricity Components: Electricity from Sources Other than Local Utility(c)	Total Diesel Fuel and Distillate Fuel Oil	Diesel Fuel	Distillate Fuel Oil	Residual Fuel Oil
3313	Alumina and Aluminum	8.12	8.22	7.59	7.48	7.5	W	0
331312	Primary Aluminum	W	7.4	W	6.88	6.88	W	0
3314	Nonferrous Metals, except Aluminum	10.98	11.59	8.13	6.05	6.09	W	0
3315	Foundries	12.26	12.14	15.44	6.34	6.35	W	0
331511	Iron Foundries	13.1	12.99	Q	6.2	6.21	W	0
331521	Aluminum Die-Casting Foundries	14.71	14.51	21.63	5.94	W	0	0
331524	Aluminum Foundries, except Die-Casting	12.85	12.77	Q	Q	Q	0	0
332	Fabricated Metal Products	16.1	16.05	Q	7.98	7.43	W	Q
333	Machinery	16.17	16.09	Q	Q	7.12	W	0
334	Computer and Electronic Products	14.21	14.35	11.97	Q	5.88	W	0
334413	Semiconductors and Related Devices	12.97	13.17	11.73	7.56	7.57	W	0
335	Electrical Equip., Appliances, and Components	14.24	14.2	14.87	6.09	6.4	W	Q
336	Transportation Equipment	13.74	13.69	Q	8.33	8.71	5.84	3.32
336112	Light Trucks and Utility Vehicles	11.62	11.62	0	W	W	W	0
337	Furniture and Related Products	17.77	17.74	Q	7.26	8.44	W	0
339	Miscellaneous	15.8	15.78	17.37	6.62	11.15	W	Q
	Total	12.12	12.29	10.83	6.47	7.1	5.43	3.57
	RSE Column Factors:	1.4	1.7	0.9	1.6	1.6	0.8	0.9
311	Food	W	23.01	26.99	7.3	7.3	W	4.06
311221	Wet Corn Milling	W	12.88	0	W	W	W	0
31131	Sugar	17.52	17.52	0	6.74	6.74	W	W
311421	Fruit and Vegetable Canning	25.54	25.46	27.13	6.37	W	W	Q
312	Beverage and Tobacco Products	24.34	26.8	13.29	8.35	8.51	W	0
3121	Beverages	24.34	26.8	13.29	8.35	8.51	W	0
3122	Tobacco	30.22	30.22	0	0	0	0	0
313	Textile Mills	19.72	19.48	27.83	0	0	0	0
314	Textile Product Mills	30.81	30.8	30.91	0	0	0	0
315	Apparel	25.06	25.06	0	Q	W	W	0
316	Leather and Allied Products	32.96	32.96	0	Q	W	W	0
321	Wood Products	W	16.85	15.21	7.84	8.1	6.93	3.84
321113	Sawmills	W	16.44	W	8.03	8.3	7.18	W
3212	Veneer, Plywood, and Engineered Woods	14.78	14.92	13.99	7.29	7.38	W	0
3219	Other Wood Products	22.44	22.38	24.42	8.56	8.64	W	0
322	Paper	W	13.15	12.4	4.23	7.14	W	3.76
322110	Pulp Mills	9.28	8.26	12.05	7.31	W	W	3.95
322121	Paper Mills, except Newsprint	11.38	12.31	9.17	7.81	7.81	W	3.95
322122	Newsprint Mills	11.4	11.4	0	6.17	W	W	W
322130	Paperboard Mills	W	12.05	23.24	3.63	6.58	W	W
323	Printing and Related Support	26.14	25.88	38.59	11.03	W	0	0
324	Petroleum and Coal Products	19.1	21.33	12.5	6.01	6.09	W	0
324110	Petroleum Refineries	W	20.32	12.33	0	0	0	0
324199	Other Petroleum and Coal Products	29.42	29.42	0	6.82	W	W	0
325	Chemicals	13.64	13.47	15.51	6.62	6.98	W	4.8

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas	Coke Oven Gas	Motor Gasoline (excluding Highway Usage)	Hydrogen	Kerosene	Pulping Liquor or Black Liquor	LPG and NGL(d)	Natural Gas Total
3313	Alumina and Aluminum	0	0	10	W	10.26	0	W	W
331312	Primary Aluminum	0	0	9.99	W	W	0	9.22	W
3314	Nonferrous Metals, except Aluminum	0	0	10.15	W	10.76	0	8.35	4.32
3315	Foundries	0	0	8.73	W	11.42	0	W	W
331511	Iron Foundries	0	0	8.28	W	8.56	0	8.95	4.22
331521	Aluminum Die-Casting Foundries	0	0	W	0	13.42	0	9.27	4.98
331524	Aluminum Foundries, except Die-Casting	0	0	10.14	0	W	0	9.94	4.3
332	Fabricated Metal Products	0	0	10.34	0	10.86	0	11.99	4.7
333	Machinery	0	0	11.3	W	Q	0	11.24	5.62
334	Computer and Electronic Products	0	0	12.35	37.78	W	0	11.18	5.3
334413	Semiconductors and Related Devices	0	0	11.25	33.71	W	0	Q	4.97
335	Electrical Equip., Appliances, and Components	0	0	Q	Q	11.97	0	9.83	4.89
336	Transportation Equipment	0	0	9.64	W	Q	0	9.55	4.68
336112	Light Trucks and Utility Vehicles	0	0	W	0	0	0	W	W
337	Furniture and Related Products	0	0	Q	0	Q	0	8.91	4.73
339	Miscellaneous	0	0	12.25	W	W	0	10.04	4.72
	Total	0	0	10.19	2.08	W	2.69	5.84	3.65
	RSE Column Factors:	0	0	1.7	0.7	1	0	2.2	1.5
311	Food	0	0	11.61	W	W	0	Q	4.74
311221	Wet Corn Milling	0	0	W	0	0	0	11.04	W
31131	Sugar	0	0	W	0	0	0	11.19	W
311421	Fruit and Vegetable Canning	0	0	13.02	0	W	0	9.4	4.88
312	Beverage and Tobacco Products	0	0	12.53	W	W	0	11.02	4.39
3121	Beverages	0	0	12.53	W	W	0	W	W
3122	Tobacco	0	0	0	0	0	0	0	0
313	Textile Mills	0	0	W	0	0	0	10.59	Q
314	Textile Product Mills	0	0	0	0	0	0	16.81	5.56
315	Apparel	0	0	W	0	0	0	20.17	Q
316	Leather and Allied Products	0	0	0	0	0	0	0	Q
321	Wood Products	0	0	11.27	0	9.3	0	8.03	5.05
321113	Sawmills	0	0	10.97	0	W	0	6.52	4.91
3212	Veneer, Plywood, and Engineered Woods	0	0	11.33	0	W	0	7.95	4.81
3219	Other Wood Products	0	0	12.38	0	W	0	10.01	6.43
322	Paper	0	0	10.38	W	W	0	9.1	4.32
322110	Pulp Mills	0	0	W	0	0	0	12.21	4.95
322121	Paper Mills, except Newsprint	0	0	W	0	W	0	7.83	4.32
322122	Newsprint Mills	0	0	W	0	W	0	W	W
322130	Paperboard Mills	0	0	10.04	W	0	0	7.82	4.27
323	Printing and Related Support	0	0	Q	0	0	0	12.17	4.62
324	Petroleum and Coal Products	0	0	W	W	0	0	Q	3.18
324110	Petroleum Refineries	0	0	0	W	0	0	0	3.1
324199	Other Petroleum and Coal Products	0	0	W	0	0	0	0	3.56
325	Chemicals	0	0	10.15	W	W	0	11.89	2.57

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	Waste Gases and Byproduct Gases	Waste Oils and Tars	Industrial Hot Water Total
3313	Alumina and Aluminum	5.3	3.83	W	0	W	0	W	0
331312	Primary Aluminum	W	3.65	W	0	W	0	W	0
3314	Nonferrous Metals, except Aluminum	4.86	3.93	0	0	0	0	0	0
3315	Foundries	4.54	4.25	0	0	0	0	W	0
331511	Iron Foundries	4.16	4.74	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	5.59	4.38	0	0	0	0	W	0
331524	Aluminum Foundries, except Die-Casting	5.27	3.78	0	0	0	0	0	0
332	Fabricated Metal Products	4.66	4.82	0	0	0	0	0	0
333	Machinery	5.84	4.46	Q	0	Q	W	0	0
334	Computer and Electronic Products	5.72	4.62	6.11	6.11	0	0	0	W
334413	Semiconductors and Related Devices	5.53	4.48	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	5.31	4.41	0	0	0	0	0	0
336	Transportation Equipment	4.9	4.43	8.81	0	8.81	0	0	W
336112	Light Trucks and Utility Vehicles	W	3.92	8.81	0	8.81	0	0	0
337	Furniture and Related Products	4.58	Q	1.92	0	1.92	0	0	0
339	Miscellaneous	4.68	5.45	0	0	0	0	0	0
	Total	4.42	3.45	4.27	4.39	4.26	3.92	3.55	W
	RSE Column Factors:	1.9	1.2	1	0.8	1.1	1.9	0.9	0
311	Food	5.02	4.6	3.55	0	3.55	0	W	0
311221	Wet Corn Milling	4.84	W	0	0	0	0	0	0
31131	Sugar	3.52	2.89	3.02	0	3.02	0	0	0
311421	Fruit and Vegetable Canning	4.29	5.01	0	0	0	0	W	0
312	Beverage and Tobacco Products	6.11	3.74	4.52	0	4.52	0	0	0
3121	Beverages	6.11	3.74	4.52	0	4.52	0	0	0
3122	Tobacco	0	0	0	0	0	0	0	0
313	Textile Mills	Q	4.92	4.49	4.49	0	0	0	0
314	Textile Product Mills	6.03	4.71	0	0	0	0	0	0
315	Apparel	Q	Q	0	0	0	0	0	0
316	Leather and Allied Products	Q	0	0	0	0	0	0	0
321	Wood Products	5.45	4.6	4.29	4.32	4.29	0	W	0
321113	Sawmills	4.85	5.01	5.38	0	5.38	0	0	0
3212	Veneer, Plywood, and Engineered Woods	5.56	4.42	4.05	4.32	4.02	0	0	0
3219	Other Wood Products	6.69	4.83	Q	0	Q	0	W	0
322	Paper	5.01	4.21	5.24	3.53	5.47	0	W	0
322110	Pulp Mills	10.07	3.08	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	4.77	4.3	4.9	0	4.9	0	0	0
322122	Newsprint Mills	5.21	4.02	5.81	0	5.81	0	0	0
322130	Paperboard Mills	5.04	4.19	W	W	0	0	W	0
323	Printing and Related Support	4.3	5.59	0	0	0	0	0	0
324	Petroleum and Coal Products	3.42	3.14	W	0	W	0	W	0
324110	Petroleum Refineries	3.28	3.07	W	0	W	0	0	0
324199	Other Petroleum and Coal Products	3.59	3.54	0	0	0	0	0	0
325	Chemicals	4.04	2.27	4.09	4.35	3.97	W	W	W

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

			Selected Wood and Other Biomass Components					
NAICS Code(a)	**Subsector and Industry**	**Biomass Total(e)**	**Agricultural Waste**	**Wood Harvested Directly from Trees**	**Wood Residues and Byproducts from Mill Processing**	**Wood-Related and Paper-Related Refuse**	**All Other Energy Sources**	**RSE Row Factors**
3313	Alumina and Aluminum	0	0	0	0	0	0	2.2
331312	Primary Aluminum	0	0	0	0	0	0	0.8
3314	Nonferrous Metals, except Aluminum	W	0	0	W	0	0	3.4
3315	Foundries	0	0	0	0	0	W	1.5
331511	Iron Foundries	0	0	0	0	0	W	1.5
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	1.5
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	1.8
332	Fabricated Metal Products	W	0	0	0	W	W	14.3
333	Machinery	0	0	0	0	0	W	10.7
334	Computer and Electronic Products	0	0	0	0	0	0	4.7
334413	Semiconductors and Related Devices	0	0	0	0	0	0	1.4
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	W	10.5
336	Transportation Equipment	0	0	0	0	0	W	3.7
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0.6
337	Furniture and Related Products	W	0	0	W	0	0	19.2
339	Miscellaneous	0	0	0	0	0	0	10.2
	Total	1.98	Q	3.23	1.27	5.54	1.15	5.1
	RSE Column Factors:	0.9	0.4	1.8	0.5	1.1	1.1	
311	Food	W	W	0	0	0	0	8.1
311221	Wet Corn Milling	0	0	0	0	0	0	2.5
31131	Sugar	0	0	0	0	0	0	0.8
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	6.4
312	Beverage and Tobacco Products	W	0	0	0	W	0	4
3121	Beverages	W	0	0	0	W	0	4
3122	Tobacco	0	0	0	0	0	0	0.7
313	Textile Mills	0	0	0	0	0	0	6.3
314	Textile Product Mills	0	0	0	0	0	0	7.5
315	Apparel	0	0	0	0	0	0	22.2
316	Leather and Allied Products	0	0	0	0	0	0	23.9
321	Wood Products	0.59	W	4.71	0.18	W	0	5.7
321113	Sawmills	1.53	W	W	1.17	0	0	6.6
3212	Veneer, Plywood, and Engineered Woods	W	0	W	W	W	0	3.2
3219	Other Wood Products	W	0	W	W	0	0	13.8
322	Paper	4.21	W	0	2.71	8.19	W	1.8
322110	Pulp Mills	W	0	0	W	0	0	0.8
322121	Paper Mills, except Newsprint	4.76	0	0	W	W	W	1.3
322122	Newsprint Mills	W	W	0	2.38	W	W	0.8
322130	Paperboard Mills	3.37	0	0	2.11	W	0	1.3
323	Printing and Related Support	0	0	0	0	0	0	15.5
324	Petroleum and Coal Products	0	0	0	0	0	W	4.4
324110	Petroleum Refineries	0	0	0	0	0	0	3.9
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0.7
325	Chemicals	W	0	0	W	W	W	2.4

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL	Acetylene	Breeze	Coal Total	Anthracite	Bituminous and Subbituminous Coal	Lignite	Coal Coke	Petroleum Coke
325110	Petrochemicals	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	10.65	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	4.23	W	0	1.27	0	W	0	0	0
325182	Carbon Black	W	W	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	4.07	W	0	W	0	W	0	W	W
325192	Cyclic Crudes and Intermediates	5.42	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	W	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	4.37	0	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	12.46	W	0	0	0	0	0	0	0
325212	Synthetic Rubber	16.23	W	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	W	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	1.9	W	0	8.75	0	0	W	0	0
325312	Phosphatic Fertilizers	5.75	W	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	13.7	160.53	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	13.74	W	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	9	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	19.53	136.3	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	5.14	116.64	W	W	0	1.6	W	1.55	1.02
3272	Glass and Glass Products	7.43	109.14	0	0	0	0	0	0	0
327211	Flat Glass	5.62	104.43	0	0	0	0	0	0	0
327213	Glass Containers	7.34	W	0	0	0	0	0	0	0
327310	Cements	3.51	221.9	W	1.62	0	1.62	0	W	1.04
327410	Lime	2.2	W	0	W	0	W	0	0	W
327993	Mineral Wool	8.55	W	0	0	0	0	0	W	0
331	Primary Metals	7.5	55.72	W	W	W	W	0	7.87	1.49
331111	Iron and Steel Mills	7.84	W	W	5.41	W	0	0	W	W
331112	Electrometallurgical Ferroalloy Products	W	W	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	13.36	101.44	0	0	0	0	0	0	0
3313	Alumina and Aluminum	W	77.74	0	0	0	0	0	0	W
331312	Primary Aluminum	W	0	0	0	0	0	0	0	W
3314	Nonferrous Metals, except Aluminum	7.13	135.97	0	0	0	0	0	W	W
3315	Foundries	11.95	200.61	0	W	0	W	0	W	0
331511	Iron Foundries	8.78	127.02	0	W	0	W	0	W	0
331521	Aluminum Die-Casting Foundries	18.67	Q	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	11.15	105.31	0	0	0	0	0	0	0
332	Fabricated Metal Products	16.38	126.96	0	0	0	0	0	0	0
333	Machinery	17.74	W	0	0	0	0	0	0	0
334	Computer and Electronic Products	6.17	Q	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	3.22	250.6	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	12.7	100.17	0	0	0	0	0	0	0
336	Transportation Equipment	14.68	113.39	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	33.17	W	0	0	0	0	0	0	0
337	Furniture and Related Products	18.65	Q	0	0	0	0	0	0	0
339	Miscellaneous	18.49	Q	0	0	0	0	0	0	0
	Total	6.15	85.46	W	1.55	W	1.49	W	6.55	1.55

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

			Electricity Components					
NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity from Local Utility(b)	Electricity from Sources Other than Local Utility(c)	Total Diesel Fuel and Distillate Fuel Oil	Diesel Fuel	Distillate Fuel Oil	Residual Fuel Oil
325110	Petrochemicals	0	0	0	0	0	0	0
325120	Industrial Gases	12.38	12.24	13.2	0	0	0	0
325181	Alkalies and Chlorine	W	10.38	0	7.24	W	W	0
325182	Carbon Black	W	46.97	0	0	0	0	W
325188	Other Basic Inorganic Chemicals	8.36	8.35	W	6.11	6.47	W	Q
325192	Cyclic Crudes and Intermediates	W	33.84	0	W	W	W	W
325193	Ethyl Alcohol	29.36	29.36	0	10.62	W	W	0
325199	Other Basic Organic Chemicals	11.55	11.87	10.89	9.19	W	W	3.53
325211	Plastics Materials and Resins	W	20.3	32.51	12.82	12.82	W	0
325212	Synthetic Rubber	47.6	47.6	0	0	0	0	0
325222	Noncellulosic Organic Fibers	34.09	34.09	0	0	0	0	0
325311	Nitrogenous Fertilizers	17.18	16.56	36.64	7.47	W	W	0
325312	Phosphatic Fertilizers	W	11.9	0	7.65	W	W	0
3254	Pharmaceuticals and Medicines	25.08	25.48	23.29	11	11.45	W	0
325412	Pharmaceutical Preparation	23.29	23.62	22.28	9.23	9.55	W	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	13.76	0	6.81	W	W	0
326	Plastics and Rubber Products	27.86	28.18	22.58	7.7	7.7	W	0
327	Nonmetallic Mineral Products	19.64	20.11	18.37	8.15	8.34	W	4.17
3272	Glass and Glass Products	W	20.74	18.81	7.19	7.57	W	W
327211	Flat Glass	W	25.04	W	7.51	7.51	W	W
327213	Glass Containers	W	18.76	W	W	W	W	0
327310	Cements	W	17.13	17.22	6.04	6.61	W	W
327410	Lime	W	14.42	0	W	W	W	W
327993	Mineral Wool	17.69	16.92	18.26	6.41	W	W	0
331	Primary Metals	W	14.33	10.17	6.23	6.18	10.28	0
331111	Iron and Steel Mills	12.36	11.03	14.24	7.73	7.73	W	0
331112	Electrometallurgical Ferroalloy Products	W	26.88	0	W	W	W	0
3312	Steel Products from Purchased Steel	W	29.05	22.96	10.15	10.15	W	0
3313	Alumina and Aluminum	W	14.64	8.77	7.2	7.31	W	0
331312	Primary Aluminum	9.3	12.2	8.57	7.4	7.4	W	0
3314	Nonferrous Metals, except Aluminum	11.22	11.94	6.82	5.81	W	W	0
3315	Foundries	W	26.66	28.89	8.09	8.06	W	0
331511	Iron Foundries	25.04	24.88	26.46	7.99	7.99	W	0
331521	Aluminum Die-Casting Foundries	W	36.9	41.04	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	31.33	31.33	0	16.56	16.56	W	0
332	Fabricated Metal Products	28.44	28.4	29.06	Q	Q	0	0
333	Machinery	28.47	28.53	28.01	7.6	W	W	0
334	Computer and Electronic Products	21.48	21.44	21.78	11.14	10.98	W	3.82
334413	Semiconductors and Related Devices	17.29	17.2	18.29	10.71	10.71	W	0
335	Electrical Equip., Appliances, and Components	28.03	27.94	36.19	24.17	W	W	0
336	Transportation Equipment	25.57	26.17	21.84	9.85	12.43	W	0
336112	Light Trucks and Utility Vehicles	W	42.4	0	8.71	W	W	0
337	Furniture and Related Products	31.36	31.37	Q	Q	W	W	Q
339	Miscellaneous	28.38	28.62	25.82	6.64	6.64	W	0
	Total	19.29	20.1	15.22	7.46	7.74	4.96	3.89

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas	Coke Oven Gas	Motor Gasoline (excluding Highway Usage)	Hydrogen	Kerosene	Pulping Liquor or Black Liquor	LPG and NGL(d)	Natural Gas Total
325110	Petrochemicals	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	5.41	W
325181	Alkalies and Chlorine	0	0	W	0	0	0	12.11	W
325182	Carbon Black	0	0	0	0	0	0	W	W
325188	Other Basic Inorganic Chemicals	0	0	11.46	W	0	0	11.99	3.98
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	W	W
325193	Ethyl Alcohol	0	0	12.16	0	0	0	12.22	2.92
325199	Other Basic Organic Chemicals	0	0	W	W	W	0	Q	3.68
325211	Plastics Materials and Resins	0	0	W	0	0	0	15.58	4.85
325212	Synthetic Rubber	0	0	0	0	0	0	15.84	1.54
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	24.75	0
325311	Nitrogenous Fertilizers	0	0	14.2	0	W	0	6.19	1.53
325312	Phosphatic Fertilizers	0	0	W	0	0	0	9.86	3.05
3254	Pharmaceuticals and Medicines	0	0	Q	W	0	0	14.37	5.55
325412	Pharmaceutical Preparation	0	0	0	W	0	0	14.39	5.83
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	10.12	4.09
326	Plastics and Rubber Products	0	0	12.45	W	W	0	13.22	5.15
327	Nonmetallic Mineral Products	0	0	10.23	5.07	9.96	0	11.69	4.25
3272	Glass and Glass Products	0	0	W	2.82	W	0	9.81	4.08
327211	Flat Glass	0	0	W	0.89	0	0	11.44	4.28
327213	Glass Containers	0	0	W	0	0	0	8.85	3.68
327310	Cements	0	0	10.77	0	W	0	12.68	3.87
327410	Lime	0	0	W	0	W	0	W	W
327993	Mineral Wool	0	0	W	0	0	0	9.7	3.67
331	Primary Metals	0	0	10.76	7.01	8.35	0	10.52	4.54
331111	Iron and Steel Mills	0	0	11.76	W	0	0	13.09	5.17
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	W	W
3312	Steel Products from Purchased Steel	0	0	12.81	0	W	0	9.32	5.45
3313	Alumina and Aluminum	0	0	11.29	0	W	0	9.47	3.86
331312	Primary Aluminum	0	0	10.97	0	0	0	W	3.55
3314	Nonferrous Metals, except Aluminum	0	0	9.19	102.38	W	0	12.14	W
3315	Foundries	0	0	12.94	W	W	0	W	W
331511	Iron Foundries	0	0	11.58	0	0	0	14.25	4.61
331521	Aluminum Die-Casting Foundries	0	0	0	0	W	0	Q	W
331524	Aluminum Foundries, except Die-Casting	0	0	W	0	0	0	14.94	5.49
332	Fabricated Metal Products	0	0	Q	W	W	0	13.36	5.67
333	Machinery	0	0	Q	W	W	0	14.81	5.21
334	Computer and Electronic Products	0	0	10.48	0.13	W	0	13.05	5.07
334413	Semiconductors and Related Devices	0	0	13.18	0.1	0	0	16.11	5.3
335	Electrical Equip., Appliances, and Components	0	0	W	W	0	0	Q	Q
336	Transportation Equipment	0	0	Q	W	W	0	13.63	5.02
336112	Light Trucks and Utility Vehicles	0	0	W	0	W	0	30.04	7.7
337	Furniture and Related Products	0	0	W	0	0	0	16.29	5.51
339	Miscellaneous	0	0	Q	W	0	0	Q	4.13
	Total	0	0	11.86	0.87	Q	0	9.92	3.93

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	Waste Gases and Byproduct Gases	Waste Oils and Tars	Industrial Hot Water Total
325110	Petrochemicals	0	0	0	0	0	0	0	0
325120	Industrial Gases	3.49	3.12	0	0	0	0	0	0
325181	Alkalies and Chlorine	3.98	2.97	2.16	0	2.16	0	0	0
325182	Carbon Black	6.44	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	4.37	3.91	4.86	4.76	5.12	W	0	0
325192	Cyclic Crudes and Intermediates	3.64	W	0	0	0	0	W	0
325193	Ethyl Alcohol	3.4	2.47	W	W	0	0	0	0
325199	Other Basic Organic Chemicals	5.92	3.59	6.12	0	6.12	0	0	0
325211	Plastics Materials and Resins	5.54	4.25	0	0	0	0	0	0
325212	Synthetic Rubber	1.54	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	6.46	1.53	0	0	0	0	0	0
325312	Phosphatic Fertilizers	W	2.9	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	4.92	6.22	0	0	0	0	0	W
325412	Pharmaceutical Preparation	5.58	6.24	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	5.74	3.91	0	0	0	0	0	0
326	Plastics and Rubber Products	5.6	4.55	0	0	0	W	0	0
327	Nonmetallic Mineral Products	4.07	4.29	0	0	0	W	W	0
3272	Glass and Glass Products	4.3	4.06	0	0	0	0	0	0
327211	Flat Glass	5.14	4.27	0	0	0	0	0	0
327213	Glass Containers	3.01	3.72	0	0	0	0	0	0
327310	Cements	2.93	4.41	0	0	0	0	W	0
327410	Lime	W	0	0	0	0	W	0	0
327993	Mineral Wool	3.3	3.81	0	0	0	0	0	0
331	Primary Metals	3.72	4.83	3.89	0	3.89	0	W	0
331111	Iron and Steel Mills	4.92	5.17	3.33	0	3.33	0	0	0
331112	Electrometallurgical Ferroalloy Products	4.82	4.52	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	6.03	5.38	0	0	0	0	0	0
3313	Alumina and Aluminum	4.25	3.79	0	0	0	0	0	0
331312	Primary Aluminum	Q	3.48	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	2.84	5.04	7.53	0	7.53	0	0	0
3315	Foundries	5.75	4.95	0	0	0	0	W	0
331511	Iron Foundries	6.01	4.24	0	0	0	0	W	0
331521	Aluminum Die-Casting Foundries	5.73	6.91	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	5.8	4.74	0	0	0	0	0	0
332	Fabricated Metal Products	5.88	5.24	Q	Q	0	0	0	0
333	Machinery	5.37	4.93	0	0	0	0	0	0
334	Computer and Electronic Products	5.51	4.29	Q	Q	0	0	0	0
334413	Semiconductors and Related Devices	5.54	4.63	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	Q	4.93	6.35	7.81	3.37	0	0	0
336	Transportation Equipment	6.07	4.35	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	7.7	0	0	0	0	0	0	0
337	Furniture and Related Products	5.26	9.53	0	0	0	W	0	0
339	Miscellaneous	4.25	3.57	0	0	0	0	0	0
	Total	4.7	3.65	4.48	4.39	4.48	0.49	2.06	W

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

			Selected Wood and Other Biomass Components					
NAICS Code(a)	**Subsector and Industry**	**Biomass Total(e)**	**Agricultural Waste**	**Wood Harvested Directly from Trees**	**Wood Residues and Byproducts from Mill Processing**	**Wood-Related and Paper-Related Refuse**	**All Other Energy Sources**	**RSE Row Factors**
325110	Petrochemicals	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	1.4
325181	Alkalies and Chlorine	0	0	0	0	0	0	0.7
325182	Carbon Black	0	0	0	0	0	0	0.6
325188	Other Basic Inorganic Chemicals	0	0	0	0	0	0	1.7
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0.7
325193	Ethyl Alcohol	0	0	0	0	0	0	0.7
325199	Other Basic Organic Chemicals	0	0	0	0	0	W	2.7
325211	Plastics Materials and Resins	W	0	0	0	W	0	2.2
325212	Synthetic Rubber	0	0	0	0	0	0	0.6
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0.6
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0.7
325312	Phosphatic Fertilizers	0	0	0	0	0	W	0.6
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	3.1
325412	Pharmaceutical Preparation	0	0	0	0	0	0	2.9
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0.6
326	Plastics and Rubber Products	W	0	0	0	W	0	9.3
327	Nonmetallic Mineral Products	0	0	0	0	0	0.51	3.3
3272	Glass and Glass Products	0	0	0	0	0	0	1
327211	Flat Glass	0	0	0	0	0	0	0.7
327213	Glass Containers	0	0	0	0	0	0	0.7
327310	Cements	0	0	0	0	0	0.48	1.2
327410	Lime	0	0	0	0	0	W	0.8
327993	Mineral Wool	0	0	0	0	0	0	0.9
331	Primary Metals	W	W	0	0	W	0	2.6
331111	Iron and Steel Mills	W	W	0	0	0	0	2
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0.6
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	2.4
3313	Alumina and Aluminum	0	0	0	0	0	0	2.5
331312	Primary Aluminum	0	0	0	0	0	0	0.9
3314	Nonferrous Metals, except Aluminum	0	0	0	0	0	0	5.4
3315	Foundries	W	0	0	0	W	0	2
331511	Iron Foundries	W	0	0	0	W	0	0.9
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	3.6
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	1.9
332	Fabricated Metal Products	W	0	0	0	W	W	10.2
333	Machinery	0	0	0	0	0	W	13.5
334	Computer and Electronic Products	0	0	0	0	0	0	5.2
334413	Semiconductors and Related Devices	0	0	0	0	0	0	4.1
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	3.9
336	Transportation Equipment	0	0	0	0	0	0	7
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0.6
337	Furniture and Related Products	0	0	0	0	0	0	7.9
339	Miscellaneous	0	0	0	0	0	0	16.4
	Total	1.27	W	4.71	0.57	8.14	2.35	4.3

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

						Coal Components			Coke	
NAICS Code(a)	Subsector and Industry	TOTAL	Acetylene	Breeze	Coal Total	Anthracite	Bituminous and Subbituminous Coal	Lignite	Coal Coke	Petroleum Coke

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) A 'Local Utility' is an entity that produces and/or delivers a particular energy source (for example, electricity, natural gas, steam) and is legally obligated to provide service to the general public within its franchise area.
(c) 'Sources Other than Local Utility' include independent producers, brokers, marketers, and marketing subsidiaries of utilities; for the case of electricity sources, also include small power producers and cogenerators not located at the establishment site.
(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'
(e) Four components of 'Biomass' are collected: agricultural waste, wood harvested directly from trees, wood residues and byproducts from mill processing, and wood-related and paper-related refuse. The average price of 'Biomass Total' is computed as the sum of the dollar expenditures for those four components divided by the sum of the Btu quantities purchased of those four components. The 'Biomass Total' does not include pulping liquor or black liquor.
(f) The price estimates for coal in NAICS 3313 and 331312 include anthracite coal for the production of carbon anodes. Due to the high cost of transporting anthracite from the East Coast to the South and West, the prices of coal in those regions are relatively high.
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.
-- Estimation is not applicable.
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.'

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

			Electricity Components					
NAICS Code(a)	**Subsector and Industry**	**Electricity Total**	**Electricity from Local Utility(b)**	**Electricity from Sources Other than Local Utility(c)**	**Total Diesel Fuel and Distillate Fuel Oil**	**Diesel Fuel**	**Distillate Fuel Oil**	**Residual Fuel Oil**

(a) The Bureau of the Census classifies establishments using the North
Industry Classification System (NAICS).
(b) A 'Local Utility' is an entity that produces and/or delivers a particular
(for example, electricity, natural gas, steam) and is legally obligated to prov
to the general public within its franchise area.
(c) 'Sources Other than Local Utility' include independent producers, bro
marketers, and marketing subsidiaries of utilities; for the case of electricity
also include small power producers and cogenerators not located at the es
(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene
normal butane, butylene, ethane-propane mixtures, propane-butane mixtur
produced at refineries or natural gas processing plants, including plants tha
Natural Gas Liquids '(NGL).'
(e) Four components of 'Biomass' are collected: agricultural waste, wood
harvested directly from trees, wood residues and byproducts from mill proc
and wood-related and paper-related refuse. The average price of 'Biomass
is computed as the sum of the dollar expenditures for those four componer
divided by the sum of the Btu quantities purchased of those four componer
The 'Biomass Total' does not include pulping liquor or black liquor.
(f) The price estimates for coal in NAICS 3313 and 331312 include anthra
production of carbon anodes. Due to the high cost of transporting anthraci
East Coast to the South and West, the prices of coal in those regions are r
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.
-- Estimation is not applicable.
Notes: To obtain the RSE percentage for any table cell, multiply the cell
corresponding RSE column and RSE row factors. Totals may not equal su
components because of independent rounding.
Source: Energy Information Administration, Office of Energy Markets
and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufa
Energy Consumption Survey.'

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

NAICS Code(a)	Subsector and Industry	Blast Furnace Gas	Coke Oven Gas	Motor Gasoline (excluding Highway Usage)	Hydrogen	Kerosene	Pulping Liquor or Black Liquor	LPG and NGL(d)	Natural Gas Total

(a) The Bureau of the Census classifies establishments using the North
Industry Classification System (NAICS).
(b) A 'Local Utility' is an entity that produces and/or delivers a particular
(for example, electricity, natural gas, steam) and is legally obligated to prov
to the general public within its franchise area.
(c) 'Sources Other than Local Utility' include independent producers, bro
marketers, and marketing subsidiaries of utilities; for the case of electricity
also include small power producers and cogenerators not located at the es
(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene
normal butane, butylene, ethane-propane mixtures, propane-butane mixtur
produced at refineries or natural gas processing plants, including plants tha
Natural Gas Liquids '(NGL).'
(e) Four components of 'Biomass' are collected: agricultural waste, wood
harvested directly from trees, wood residues and byproducts from mill proc
and wood-related and paper-related refuse. The average price of 'Biomass
is computed as the sum of the dollar expenditures for those four componer
divided by the sum of the Btu quantities purchased of those four componer
The 'Biomass Total' does not include pulping liquor or black liquor.
(f) The price estimates for coal in NAICS 3313 and 331312 include anthra
production of carbon anodes. Due to the high cost of transporting anthraci
East Coast to the South and West, the prices of coal in those regions are r
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.
-- Estimation is not applicable.
Notes: To obtain the RSE percentage for any table cell, multiply the cell
corresponding RSE column and RSE row factors. Totals may not equal su
components because of independent rounding.
Source: Energy Information Administration, Office of Energy Markets
and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufa
Energy Consumption Survey.'

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

		Natural Gas Components			Steam Components				
NAICS Code(a)	Subsector and Industry	Natural Gas from Local Utility(b)	Natural Gas from Sources Other than Local Utility(c)	Steam Total	Steam from Local Utility(b)	Steam from Sources Other than Local Utility(c)	Waste Gases and Byproduct Gases	Waste Oils and Tars	Industrial Hot Water Total

(a) The Bureau of the Census classifies establishments using the North
Industry Classification System (NAICS).
(b) A 'Local Utility' is an entity that produces and/or delivers a particular
(for example, electricity, natural gas, steam) and is legally obligated to prov
to the general public within its franchise area.
(c) 'Sources Other than Local Utility' include independent producers, bro
marketers, and marketing subsidiaries of utilities; for the case of electricity
also include small power producers and cogenerators not located at the es
(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene
normal butane, butylene, ethane-propane mixtures, propane-butane mixtur
produced at refineries or natural gas processing plants, including plants tha
Natural Gas Liquids '(NGL).'
(e) Four components of 'Biomass' are collected: agricultural waste, wood
harvested directly from trees, wood residues and byproducts from mill proc
and wood-related and paper-related refuse. The average price of 'Biomass
is computed as the sum of the dollar expenditures for those four componer
divided by the sum of the Btu quantities purchased of those four componer
The 'Biomass Total' does not include pulping liquor or black liquor.
(f) The price estimates for coal in NAICS 3313 and 331312 include anthra
production of carbon anodes. Due to the high cost of transporting anthraci
East Coast to the South and West, the prices of coal in those regions are r
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.
-- Estimation is not applicable.
Notes: To obtain the RSE percentage for any table cell, multiply the cell
corresponding RSE column and RSE row factors. Totals may not equal su
components because of independent rounding.
Source: Energy Information Administration, Office of Energy Markets
and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufa
Energy Consumption Survey.'

Table 7.2 Average Prices of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: All Energy Sources Collected;
Unit: U.S. Dollars per Million Btu.

			Selected Wood and Other Biomass Components					
NAICS Code(a)	**Subsector and Industry**	**Biomass Total(e)**	**Agricultural Waste**	**Wood Harvested Directly from Trees**	**Wood Residues and Byproducts from Mill Processing**	**Wood-Related and Paper-Related Refuse**	**All Other Energy Sources**	**RSE Row Factors**

(a) The Bureau of the Census classifies establishments using the North
Industry Classification System (NAICS).
(b) A 'Local Utility' is an entity that produces and/or delivers a particular
(for example, electricity, natural gas, steam) and is legally obligated to prov
to the general public within its franchise area.
(c) 'Sources Other than Local Utility' include independent producers, bro
marketers, and marketing subsidiaries of utilities; for the case of electricity
also include small power producers and cogenerators not located at the es
(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene
normal butane, butylene, ethane-propane mixtures, propane-butane mixtur
produced at refineries or natural gas processing plants, including plants tha
Natural Gas Liquids '(NGL).'
(e) Four components of 'Biomass' are collected: agricultural waste, wood
harvested directly from trees, wood residues and byproducts from mill proc
and wood-related and paper-related refuse. The average price of 'Biomass
is computed as the sum of the dollar expenditures for those four componer
divided by the sum of the Btu quantities purchased of those four componer
The 'Biomass Total' does not include pulping liquor or black liquor.
(f) The price estimates for coal in NAICS 3313 and 331312 include anthra
production of carbon anodes. Due to the high cost of transporting anthraci
East Coast to the South and West, the prices of coal in those regions are r
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.
-- Estimation is not applicable.
Notes: To obtain the RSE percentage for any table cell, multiply the cell
corresponding RSE column and RSE row factors. Totals may not equal su
components because of independent rounding.
Source: Energy Information Administration, Office of Energy Markets
and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufa
Energy Consumption Survey.'

Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: U.S. Dollars per Physical Units.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity from Local Utility(b) (kWh)	Electricity from Sources Other than Local Utility(c) (kWh)	Natural Gas Total (1000 cu ft)	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	RSE Row Factors
	Total United States										
	RSE Column Factors:	0.9	0.9	1.2	1	1.4	1	1.2	0.6	1.2	
311	Food	W	0.054	W	4.5	4.81	4.27	4.07	3.99	4.12	11.1
311221	Wet Corn Milling	W	0.036	W	3.99	4.51	3.94	3.32	W	W	1.3
31131	Sugar	0.053	0.053	0.052	3.89	3.96	3.86	3.02	0	3.02	0.9
311421	Fruit and Vegetable Canning	0.07	0.07	0.068	4.81	4.6	4.9	5.59	0	5.59	4.6
312	Beverage and Tobacco Products	0.061	0.061	0.053	4.51	4.82	4.3	4.55	0	4.55	2.5
3121	Beverages	0.063	0.065	0.053	4.46	4.76	4.27	4.55	0	4.55	2.9
3122	Tobacco	0.047	0.047	0	5.08	5.31	4.82	0	0	0	1
313	Textile Mills	0.044	0.043	0.05	4.73	4.72	4.76	W	W	4.15	8.4
314	Textile Product Mills	0.054	0.054	0.053	4.58	4.58	4.58	0	0	0	13.9
315	Apparel	0.067	0.067	0.083	5.34	5.41	5.08	0	0	0	20.6
316	Leather and Allied Products	0.068	0.068	0.073	4.7	5.88	4.31	3.51	0	3.51	9
321	Wood Products	0.057	0.057	0.053	4.87	5.12	4.48	3.84	W	W	4.7
321113	Sawmills	0.06	0.06	0.061	4.63	4.71	4.5	4.63	0	4.63	7.4
3212	Veneer, Plywood, and Engineered Woods	0.048	0.048	0.046	4.78	5.03	4.47	3.89	W	W	4.6
3219	Other Wood Products	0.068	0.068	0.071	5.47	5.56	5.05	3.29	0	3.29	10.8
322	Paper	W	0.043	W	4.26	4.6	4.16	4.64	4.04	4.89	3.4
322110	Pulp Mills	W	0.04	W	4	5.13	3.68	5.79	0	5.79	1.1
322121	Paper Mills, except Newsprint	0.04	0.04	0.043	4.26	4.44	4.23	4.93	3.33	4.93	2.7
322122	Newsprint Mills	0.037	W	W	4.03	4.17	3.98	W	W	5.63	1
322130	Paperboard Mills	W	0.04	W	4.11	4.26	4.07	4.17	3.98	4.44	4.7
323	Printing and Related Support	0.067	0.067	0.071	5.12	5.08	5.17	Q	W	W	9.1
324	Petroleum and Coal Products	0.045	0.047	0.039	3.52	3.76	3.49	4.24	7.25	4.09	2.6
324110	Petroleum Refineries	0.043	0.044	0.038	3.44	3.48	3.44	4.24	7.25	4.09	2.8
324199	Other Petroleum and Coal Products	0.052	0.052	0	4.03	4.09	3.96	2.21	0	2.21	1
325	Chemicals	0.04	0.04	0.038	3.46	4.12	3.37	4.05	4.25	4.03	4.9
325110	Petrochemicals	W	0.037	W	3.51	4.59	3.49	W	0	W	0.9
325120	Industrial Gases	W	0.035	W	3.69	3.61	3.71	Q	4.22	Q	8.7
325181	Alkalies and Chlorine	0.03	W	W	3.53	4.13	3.47	W	W	5.9	1.1
325182	Carbon Black	0.046	0.046	0	3.28	3.14	3.52	0	0	0	1
325188	Other Basic Inorganic Chemicals	W	0.029	0.033	4.15	4.27	4.13	5.49	6.53	4.92	4.2
325192	Cyclic Crudes and Intermediates	0.035	W	W	3.86	3.89	3.83	4.44	0	4.44	0.9
325193	Ethyl Alcohol	0.04	0.041	0.031	3.67	3.93	3.55	4.55	5.35	Q	4.1
325199	Other Basic Organic Chemicals	0.038	0.039	W	3.47	3.74	3.45	3.75	W	W	7.6
325211	Plastics Materials and Resins	0.041	0.042	W	2.96	4.28	2.79	4.71	5.13	4.67	4
325212	Synthetic Rubber	0.047	W	W	3.48	3.52	3.48	5.32	0	5.32	4.1
325222	Noncellulosic Organic Fibers	0.038	0.038	0.036	3.86	4.3	3.62	W	0	W	0.9
325311	Nitrogenous Fertilizers	0.041	0.041	0.062	3.13	3.91	3.13	6.12	0	6.12	0.9
325312	Phosphatic Fertilizers	0.044	0.049	0.036	3.44	3.79	3.35	5.98	0	5.98	0.9
3254	Pharmaceuticals and Medicines	0.057	0.056	0.061	4.66	4.67	4.64	5.51	21.32	4.92	6
325412	Pharmaceutical Preparation	0.055	0.054	0.061	4.66	4.68	4.64	5.65	23.31	4.86	7.8
325992	Photographic Film, Paper, Plate, and Chemicals	W	0.056	W	5.24	6.01	4.94	0	0	0	6.8
326	Plastics and Rubber Products	0.056	0.056	0.061	5.12	5.15	5.08	2.91	W	W	11.6
327	Nonmetallic Mineral Products	0.051	0.05	0.059	4.32	4.31	4.32	W	5.16	W	3.8

Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: U.S. Dollars per Physical Units.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity from Local Utility(b) (kWh)	Electricity from Sources Other than Local Utility(c) (kWh)	Natural Gas Total (1000 cu ft)	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	RSE Row Factors
3272	Glass and Glass Products	0.048	0.047	0.062	4.25	4.34	4.22	5.3	5.3	0	2.2
327211	Flat Glass	0.046	0.045	0.058	4.14	4.6	4.07	0	0	0	1
327213	Glass Containers	0.05	0.048	0.064	3.96	4.08	3.95	0	0	0	1
327310	Cements	0.044	0.043	0.053	3.99	4.03	3.96	3.28	0	3.28	2
327410	Lime	0.047	0.047	0	3.68	3.57	3.74	0	0	0	1
327993	Mineral Wool	0.043	0.041	0.055	4.04	4.25	3.98	0	0	0	1.4
331	Primary Metals	W	0.037	W	4.19	4.64	4.08	3.79	2.58	3.87	1.5
331111	Iron and Steel Mills	0.035	0.035	0.038	4	4.37	3.93	W	W	W	2
331112	Electrometallurgical Ferroalloy Products	0.032	0.033	W	4.65	5.08	4.63	5.36	0	5.36	1.3
3312	Steel Products from Purchased Steel	0.05	W	W	4.74	4.72	4.76	7.5	7.5	0	4.5
3313	Alumina and Aluminum	W	0.03	W	4.25	5.18	4.08	3.6	2.31	W	1.7
331312	Primary Aluminum	W	0.025	W	3.89	4.34	3.87	W	0	W	1.1
3314	Nonferrous Metals, except Aluminum	W	W	W	4.46	4.36	4.53	6.23	0	6.23	5.9
3315	Foundries	0.049	0.049	0.054	4.76	4.95	4.65	W	W	7.28	4.1
331511	Iron Foundries	0.045	0.045	0.052	4.73	4.61	4.81	7.28	0	7.28	5.4
331521	Aluminum Die-Casting Foundries	0.051	0.05	0.065	4.59	5.21	4.37	0	0	0	3.5
331524	Aluminum Foundries, except Die-Casting	0.053	0.053	0.052	4.72	4.87	4.63	0	0	0	3.8
332	Fabricated Metal Products	0.061	0.06	0.079	5.05	5.18	4.82	W	Q	W	15.8
333	Machinery	0.061	0.061	0.066	5.43	5.76	5.08	6.03	W	W	8.7
334	Computer and Electronic Products	0.063	0.063	0.062	5.62	6.18	4.69	4.02	6.46	3.21	15.6
334413	Semiconductors and Related Devices	0.054	0.054	0.055	5.32	5.61	4.88	Q	11.77	Q	3.9
335	Electrical Equip., Appliances, and Components	W	0.056	W	5.04	5.28	4.78	4.74	5.58	3.2	8
336	Transportation Equipment	W	0.051	W	4.38	4.37	4.38	6.25	W	W	5.8
336112	Light Trucks and Utility Vehicles	0.043	0.043	0	4.31	W	W	8.71	0	8.71	1
337	Furniture and Related Products	0.07	0.071	0.058	5.29	5.3	5.27	1.95	0	1.95	12.9
339	Miscellaneous	0.071	0.072	0.065	5.2	5.21	5.17	4.75	W	W	10.2
	Total	0.048	0.049	0.043	4.01	4.68	3.79	4.17	4.42	4.14	3.6
	Northeast Census Region										
	RSE Column Factors:	1.3	1.4	1.5	1.2	2	1	0.6	0.4	0.5	
311	Food	0.074	0.074	0.081	5.05	5.41	4.78	Q	Q	Q	11.2
311221	Wet Corn Milling	W	W	0	0	0	0	0	0	0	0.7
31131	Sugar	W	W	0	W	3.39	W	0	0	0	0.7
311421	Fruit and Vegetable Canning	0.07	0.072	0.049	4.75	4.86	4.64	3.78	0	3.78	4
312	Beverage and Tobacco Products	W	W	W	5.2	5.64	5.06	W	0	W	4.3
3121	Beverages	0.07	0.071	W	W	W	5.04	W	0	W	4.4
3122	Tobacco	0.072	0.072	0	5.02	4.45	5.93	0	0	0	0.7
313	Textile Mills	0.076	0.074	0.084	4.09	3.31	5.45	0	0	0	15.4
314	Textile Product Mills	0.069	0.067	0.102	5.63	4.94	6.86	0	0	0	7.3
315	Apparel	0.075	0.075	Q	4.2	4.1	Q	0	0	0	22
316	Leather and Allied Products	0.094	0.094	Q	6.07	6.59	5.86	0	0	0	14
321	Wood Products	0.083	0.085	0.073	5.21	5.7	4.79	Q	0	Q	6.2
321113	Sawmills	0.089	0.088	0.118	4.97	5.32	4.25	0	0	0	11.2
3212	Veneer, Plywood, and Engineered Woods	0.062	W	W	5.02	6.32	4.44	0	0	0	6.4
3219	Other Wood Products	0.089	W	W	5.51	5.55	5.44	Q	0	Q	8.1

Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: U.S. Dollars per Physical Units.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity from Local Utility(b) (kWh)	Electricity from Sources Other than Local Utility(c) (kWh)	Natural Gas Total (1000 cu ft)	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	RSE Row Factors
322	Paper	W	0.06	W	4.71	5.53	4.51	4.61	8.67	4.53	4.9
322110	Pulp Mills	W	0	W	4.99	6.62	4.82	0	0	0	2.1
322121	Paper Mills, except Newsprint	W	0.054	W	4.38	4.69	4.35	4.53	0	4.53	3.2
322122	Newsprint Mills	0.068	0.068	0	0	0	0	0	0	0	0.7
322130	Paperboard Mills	0.059	0.067	0.045	4.75	4.92	4.69	5.16	8.67	4.5	3.6
323	Printing and Related Support	0.08	0.08	0.074	4.86	4.4	5.5	0	0	0	13.1
324	Petroleum and Coal Products	0.058	0.057	0.084	4.31	5	4.24	3.46	0	3.46	2.8
324110	Petroleum Refineries	0.053	W	W	4.09	4.75	4.06	3.45	0	3.45	1.2
324199	Other Petroleum and Coal Products	0.047	0.047	0	5.06	5.66	4.59	0	0	0	0.7
325	Chemicals	0.057	0.059	0.05	4.99	4.93	5.04	4.98	7.57	4.81	4.8
325110	Petrochemicals	W	W	0	W	10	0	0	0	0	1.2
325120	Industrial Gases	W	0.031	W	5.16	5.06	21.13	W	0	W	1.1
325181	Alkalies and Chlorine	W	W	W	W	2.75	4.86	W	0	W	0.9
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	W	0.061	5.07	5.62	4.92	Q	W	W	2.5
325192	Cyclic Crudes and Intermediates	0.051	W	W	5.23	5.05	W	W	0	W	0.9
325193	Ethyl Alcohol	0.109	0.109	0	1.08	1.08	0	0	0	0	0.7
325199	Other Basic Organic Chemicals	0.067	0.069	0.064	W	4.9	W	3.89	0	3.89	4.7
325211	Plastics Materials and Resins	W	0.066	W	4.71	4.41	4.88	4.49	W	4.46	14.1
325212	Synthetic Rubber	0.064	0.064	0	6.11	7.09	0	6.57	0	6.57	0.9
325222	Noncellulosic Organic Fibers	W	0.086	0.05	9.43	9.43	0	0	0	0	2.9
325311	Nitrogenous Fertilizers	0.057	0.044	0.084	6.22	0	6.22	0	0	0	0.8
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0.074	0.075	0.069	4.53	4.44	4.68	W	23.31	7.67	4.4
325412	Pharmaceutical Preparation	0.075	0.077	0.065	4.51	4.43	4.61	9.85	23.31	W	5.1
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	5.76	6.75	5.67	0	0	0	15.4
326	Plastics and Rubber Products	0.071	0.071	0.066	5.73	5.95	5.59	W	0	W	5.6
327	Nonmetallic Mineral Products	0.061	0.059	0.072	4.89	4.6	4.96	W	0	W	6.3
3272	Glass and Glass Products	W	0.049	W	4.48	4	4.59	0	0	0	3
327211	Flat Glass	W	W	0.059	4.52	0	4.52	0	0	0	0.8
327213	Glass Containers	W	0.049	W	4.14	3.81	4.37	0	0	0	0.7
327310	Cements	W	0.047	W	5.58	5.15	6.36	0	0	0	0.7
327410	Lime	W	W	0	5.44	6.53	5.37	0	0	0	0.7
327993	Mineral Wool	0.045	0.045	0.045	4.61	6.93	4.35	0	0	0	3.3
331	Primary Metals	0.04	0.05	0.024	4.76	4.66	4.81	3.8	W	3.65	1.7
331111	Iron and Steel Mills	0.045	0.044	0.049	4.5	4.48	4.51	W	W	0	2.5
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	6.94	4.89	0	0	0	0.7
3312	Steel Products from Purchased Steel	W	0.064	W	W	W	W	0	0	0	6.6
3313	Alumina and Aluminum	W	W	W	4.76	4.95	4.75	0	0	0	2
331312	Primary Aluminum	W	0.09	W	W	6.26	W	0	0	0	0.7
3314	Nonferrous Metals, except Aluminum	W	W	W	5.22	5.13	5.25	3.65	0	3.65	4.1
3315	Foundries	W	0.06	W	5.44	5.28	5.51	0	0	0	1.9
331511	Iron Foundries	0.057	0.057	0.064	5.5	6.53	5.45	0	0	0	1.4
331521	Aluminum Die-Casting Foundries	0.084	0.084	0	5.43	3.88	5.66	0	0	0	5.6
331524	Aluminum Foundries, except Die-Casting	0.045	0.045	0.055	4.79	4.49	5.48	0	0	0	1.1
332	Fabricated Metal Products	0.083	0.082	0.091	6	7.06	4.97	W	0	W	13.9
333	Machinery	0.072	0.072	0.069	5.88	6.69	5.28	3.33	0	3.33	7

Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: U.S. Dollars per Physical Units.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity from Local Utility(b) (kWh)	Electricity from Sources Other than Local Utility(c) (kWh)	Natural Gas Total (1000 cu ft)	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	RSE Row Factors
334	Computer and Electronic Products	0.07	0.071	0.064	6.58	7.71	5.02	Q	W	W	14.3
334413	Semiconductors and Related Devices	0.059	0.059	0.061	5.61	6.07	5.29	Q	11.77	Q	2.2
335	Electrical Equip., Appliances, and Components	W	0.075	W	5.03	4.38	5.44	2.77	0	2.77	22.5
336	Transportation Equipment	0.063	0.068	0.047	3.98	3.21	5.05	W	0	W	4.8
336112	Light Trucks and Utility Vehicles	W	W	0	W	7.71	W	W	0	W	0.9
337	Furniture and Related Products	0.089	W	W	6.06	5.8	6.6	Q	0	Q	11.9
339	Miscellaneous	0.084	0.085	0.071	5.88	6.39	5.03	4.75	W	W	15.1
	Total	0.064	0.067	0.05	4.98	5.23	4.83	4.66	8.07	4.53	4.8
	Midwest Census Region										
	RSE Column Factors:	1	1	1.2	1.1	1.6	1	0.9	0.8	0.7	
311	Food	W	0.045	W	4.22	4.45	4.09	3.81	3.8	Q	12.1
311221	Wet Corn Milling	0.036	W	W	3.95	4.2	3.93	W	W	0	1
31131	Sugar	0.043	0.043	0	4.27	4.21	4.29	0	0	0	0.9
311421	Fruit and Vegetable Canning	0.06	0.06	0.055	4.62	4.54	4.72	6.44	0	6.44	2.2
312	Beverage and Tobacco Products	0.05	W	W	4.29	4.72	4.1	0	0	0	9.1
3121	Beverages	0.05	W	W	W	W	4.1	0	0	0	9.2
3122	Tobacco	W	W	0	W	W	0	0	0	0	0.9
313	Textile Mills	0.061	0.061	0	5.02	4.42	5.3	0	0	0	11.8
314	Textile Product Mills	0.056	0.055	0.067	6.31	6.52	5.12	0	0	0	18.8
315	Apparel	0.068	0.068	0.065	6.27	6.9	5.52	0	0	0	17.2
316	Leather and Allied Products	0.057	0.057	0.063	4.12	5.66	3.84	3.51	0	3.51	12.1
321	Wood Products	0.056	0.056	0.056	4.7	4.81	4.45	3.91	0	3.91	7.4
321113	Sawmills	0.066	W	W	4.48	4.26	4.91	5.14	0	5.14	7.1
3212	Veneer, Plywood, and Engineered Woods	0.047	W	W	4.41	4.49	4.29	1.57	0	1.57	6.4
3219	Other Wood Products	0.06	0.06	Q	5.1	5.18	4.76	4.47	0	4.47	13.9
322	Paper	W	0.043	W	4.31	4.4	4.27	W	W	4.11	6.8
322110	Pulp Mills	W	W	0	W	W	5.45	5.79	0	5.79	1
322121	Paper Mills, except Newsprint	W	0.039	W	4.36	4.41	4.34	4.09	3.33	4.1	4.1
322122	Newsprint Mills	W	W	0	W	6.7	4.82	W	W	0	1
322130	Paperboard Mills	0.043	0.043	0.042	4.12	4.63	4	W	W	3.09	2.9
323	Printing and Related Support	0.058	0.058	0.058	5.21	5.72	4.84	W	0	W	11.7
324	Petroleum and Coal Products	0.037	0.036	0.051	3.88	4	3.85	W	W	2.94	3.7
324110	Petroleum Refineries	0.034	W	W	3.81	3.92	3.8	W	W	2.87	2.1
324199	Other Petroleum and Coal Products	0.057	0.057	0	4.33	4.25	4.58	2.21	0	2.21	1
325	Chemicals	0.04	0.041	0.036	3.91	4.31	3.81	Q	5.76	Q	2.9
325110	Petrochemicals	W	0.041	W	W	0	W	0	0	0	1
325120	Industrial Gases	W	0.033	W	W	3.84	W	Q	4.22	Q	1.9
325181	Alkalies and Chlorine	0.041	0.04	Q	4.59	5.12	4.47	8.03	8.03	0	5.1
325182	Carbon Black	W	W	0	W	7.51	W	0	0	0	0.9
325188	Other Basic Inorganic Chemicals	0.039	0.04	0.032	4.14	4.19	4.12	4.68	4.06	4.72	4.9
325192	Cyclic Crudes and Intermediates	0.034	0.034	0	4.28	3.77	W	0	0	0	0.9
325193	Ethyl Alcohol	W	W	0.031	3.71	W	W	4.62	5.81	Q	4.1
325199	Other Basic Organic Chemicals	0.037	0.041	0.032	4.4	4.32	4.42	4.07	W	W	3.3
325211	Plastics Materials and Resins	0.037	0.036	0.039	4.23	4.32	4.14	5.3	5.23	5.31	2.8

Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: U.S. Dollars per Physical Units.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity from Local Utility(b) (kWh)	Electricity from Sources Other than Local Utility(c) (kWh)	Natural Gas Total (1000 cu ft)	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	RSE Row Factors
325212	Synthetic Rubber	W	W	0	4.34	7.82	4.22	0	0	0	3.7
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0.036	0.036	0.043	3.46	3.62	3.46	W	0	W	1
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0.042	0.042	0.044	4.46	4.82	4.27	5.38	0	5.38	3.7
325412	Pharmaceutical Preparation	0.041	0.041	0.043	4.59	4.73	4.49	0	0	0	3.7
325992	Photographic Film, Paper, Plate, and Chemicals	W	0.055	0.052	4.57	4.61	4.27	0	0	0	3.4
326	Plastics and Rubber Products	0.053	0.053	0.058	5.11	5.1	5.12	3.08	3.08	0	16.4
327	Nonmetallic Mineral Products	0.046	0.046	0.045	4.15	4.18	4.14	0	0	0	4.8
3272	Glass and Glass Products	0.044	0.043	0.048	4.08	4.19	4.07	0	0	0	3.6
327211	Flat Glass	W	W	0	3.69	W	W	0	0	0	0.9
327213	Glass Containers	W	0.039	W	3.96	8.95	3.93	0	0	0	0.9
327310	Cements	0.038	0.037	0.043	4.07	4.67	3.93	0	0	0	1.9
327410	Lime	0.056	0.056	0	3.68	3.71	3.67	0	0	0	0.9
327993	Mineral Wool	0.038	0.038	0	4.02	4.43	3.94	0	0	0	1
331	Primary Metals	W	0.038	W	4.07	4.75	3.98	3.83	W	W	2
331111	Iron and Steel Mills	0.034	0.035	0.031	3.84	4.31	3.82	3.86	0	3.86	3
331112	Electrometallurgical Ferroalloy Products	0.034	0.034	0	4.66	6.57	W	5.36	0	5.36	1
3312	Steel Products from Purchased Steel	0.05	W	W	4.55	4.54	4.55	0	0	0	5
3313	Alumina and Aluminum	W	0.027	W	4.39	4.84	4.28	2.31	2.31	0	2.2
331312	Primary Aluminum	W	W	W	4.03	5.78	4.02	0	0	0	0.9
3314	Nonferrous Metals, except Aluminum	W	0.042	W	4.65	W	W	7.91	0	7.91	3.1
3315	Foundries	0.047	0.047	0.052	4.67	5.02	4.55	W	W	7.28	4.6
331511	Iron Foundries	0.043	0.043	0.049	4.79	5	4.7	7.28	0	7.28	6.9
331521	Aluminum Die-Casting Foundries	0.047	0.047	0.052	4.37	4.85	4.25	0	0	0	2.8
331524	Aluminum Foundries, except Die-Casting	0.054	0.054	0.05	4.71	4.54	4.76	0	0	0	4.8
332	Fabricated Metal Products	0.051	0.05	0.068	4.81	4.92	4.64	Q	0	Q	26.8
333	Machinery	0.054	0.054	0.055	5.19	5.36	5.08	6.04	W	W	11.4
334	Computer and Electronic Products	0.048	0.048	0.046	4.96	5.16	4.53	W	0	W	6.2
334413	Semiconductors and Related Devices	0.041	0.041	0	3.37	2.43	4.34	0	0	0	2.3
335	Electrical Equip., Appliances, and Components	0.051	0.05	0.061	4.96	5.45	4.61	W	4.54	7.13	4.7
336	Transportation Equipment	W	0.045	W	4.16	4.04	4.24	6.36	W	W	9.2
336112	Light Trucks and Utility Vehicles	W	W	0	4.36	4.68	4.16	4.36	0	4.36	1
337	Furniture and Related Products	0.063	W	W	5.31	5.93	4.84	0	0	0	10.6
339	Miscellaneous	0.06	0.061	Q	5.3	5.11	5.75	0	0	0	12.5
	Total	0.045	0.046	0.041	4.25	4.6	4.1	3.7	4.22	3.53	7.7
	South Census Region										
	RSE Column Factors:	1.1	1.1	1.3	1.1	1.6	1	1	0.3	1	
311	Food	0.049	0.049	Q	4.49	4.88	4.02	W	0	W	13.8
311221	Wet Corn Milling	W	W	0	4.04	W	W	W	0	W	0.9
31131	Sugar	0.065	0.065	0.052	W	W	3.81	0	0	0	0.8
311421	Fruit and Vegetable Canning	0.055	0.055	0	4.57	4.69	4.49	0	0	0	9.3
312	Beverage and Tobacco Products	0.05	0.05	0.056	4.35	4.35	4.35	0	0	0	3.8
3121	Beverages	0.053	0.053	0.056	4.18	4.12	4.25	0	0	0	5

Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: U.S. Dollars per Physical Units.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity from Local Utility(b) (kWh)	Electricity from Sources Other than Local Utility(c) (kWh)	Natural Gas Total (1000 cu ft)	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	RSE Row Factors
3122	Tobacco	0.047	0.047	0	5.09	5.4	4.75	0	0	0	0.8
313	Textile Mills	0.041	0.041	0.04	5.08	5.41	4.53	4.25	W	4.15	9.1
314	Textile Product Mills	0.05	0.05	0.046	4.34	4.27	4.41	0	0	0	14.2
315	Apparel	0.057	0.056	Q	4.63	4.99	3.92	0	0	0	18.3
316	Leather and Allied Products	0.071	0.071	0	6.18	6.45	5.61	0	0	0	9.3
321	Wood Products	W	0.054	W	4.72	4.99	4.24	3.3	0	3.3	8.9
321113	Sawmills	W	0.059	W	3.92	4.16	3.67	3.83	0	3.83	9.5
3212	Veneer, Plywood, and Engineered Woods	0.047	0.047	0.04	4.82	5.01	4.5	4.71	0	4.71	8.6
3219	Other Wood Products	0.065	0.065	Q	5.46	5.46	5.29	Q	0	Q	6.2
322	Paper	W	0.038	W	4.05	4.37	3.94	4.95	Q	5.43	3.3
322110	Pulp Mills	W	W	0	3.84	4.5	3.73	0	0	0	0.8
322121	Paper Mills, except Newsprint	W	0.034	W	4.07	4.37	3.99	9.94	0	9.94	3.3
322122	Newsprint Mills	0.031	W	W	3.88	W	W	W	0	W	0.9
322130	Paperboard Mills	W	0.037	W	3.91	3.96	3.89	W	W	W	4.1
323	Printing and Related Support	0.058	0.058	0.076	5.53	5.69	5.19	W	W	0	7
324	Petroleum and Coal Products	0.04	0.041	0.037	3.48	3.69	3.46	4.31	W	W	2.7
324110	Petroleum Refineries	0.039	0.04	0.036	3.44	3.42	3.44	4.31	W	W	2.7
324199	Other Petroleum and Coal Products	0.044	0.044	0	4.17	4.29	4.09	0	0	0	1.1
325	Chemicals	0.037	0.037	0.036	3.39	3.87	3.34	4.28	3.79	4.34	4.3
325110	Petrochemicals	W	W	0.037	3.5	W	W	W	0	W	0.9
325120	Industrial Gases	W	0.036	W	3.74	3.41	3.83	W	0	W	4.7
325181	Alkalies and Chlorine	0.031	W	W	W	4.36	W	W	W	0	1
325182	Carbon Black	W	W	0	W	3.14	W	0	0	0	0.8
325188	Other Basic Inorganic Chemicals	W	0.028	W	4.03	3.86	4.06	7.11	W	6.44	4.7
325192	Cyclic Crudes and Intermediates	0.033	0.041	W	3.58	3.52	3.62	W	0	W	0.9
325193	Ethyl Alcohol	0.041	0.041	0	3.79	3.79	0	0	0	0	0.8
325199	Other Basic Organic Chemicals	W	0.037	W	3.42	3.64	3.4	3.64	W	3.7	9.4
325211	Plastics Materials and Resins	W	0.042	W	2.83	4.21	2.72	4.58	W	4.53	4.8
325212	Synthetic Rubber	W	0.043	W	3.45	3.49	3.44	5.29	0	5.29	4
325222	Noncellulosic Organic Fibers	W	0.038	W	3.85	4.29	3.62	W	0	W	0.9
325311	Nitrogenous Fertilizers	0.039	0.039	0.038	3.33	3.91	3.33	5.95	0	5.95	0.9
325312	Phosphatic Fertilizers	0.046	0.055	0.036	3.52	W	W	5.98	0	5.98	0.9
3254	Pharmaceuticals and Medicines	0.047	0.048	0.043	4.88	5.08	4.51	W	7.24	4.07	7.4
325412	Pharmaceutical Preparation	0.047	0.047	0.044	4.76	4.99	4.29	4.27	0	4.27	11.8
325992	Photographic Film, Paper, Plate, and Chemicals	W	0.053	0.067	5.55	6.24	4.52	0	0	0	5.4
326	Plastics and Rubber Products	0.046	0.046	0.055	4.95	4.97	4.9	W	W	W	14
327	Nonmetallic Mineral Products	0.044	0.044	0.048	4.2	4.33	4.09	3.41	5.16	3.28	4.1
3272	Glass and Glass Products	0.042	0.042	0.043	4.27	4.46	4.18	5.3	5.3	0	3.1
327211	Flat Glass	0.037	0.037	0	4.27	W	W	0	0	0	0.8
327213	Glass Containers	0.042	0.042	0.047	3.98	5.4	3.88	0	0	0	0.8
327310	Cements	0.039	0.039	0.041	3.92	4.22	3.55	3.28	0	3.28	3.3
327410	Lime	0.039	0.039	0	W	W	3.8	0	0	0	0.8
327993	Mineral Wool	0.041	0.04	0.045	4	4.13	3.96	0	0	0	1.5
331	Primary Metals	W	0.032	W	4.13	4.68	3.91	W	7.5	W	1.7
331111	Iron and Steel Mills	0.033	0.033	0.038	3.96	4.32	3.82	0	0	0	1.3
331112	Electrometallurgical Ferroalloy Products	W	W	W	W	4.37	Q	0	0	0	4.2
3312	Steel Products from Purchased Steel	0.041	W	0.044	4.85	4.86	4.82	7.5	7.5	0	7.1

Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: U.S. Dollars per Physical Units.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity from Local Utility(b) (kWh)	Electricity from Sources Other than Local Utility(c) (kWh)	Natural Gas Total (1000 cu ft)	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	RSE Row Factors
3313	Alumina and Aluminum	W	0.028	W	4.16	5.44	3.94	W	0	W	1.9
331312	Primary Aluminum	0.025	0.025	W	W	W	3.75	W	0	W	0.9
3314	Nonferrous Metals, except Aluminum	0.037	0.04	0.028	4.44	4.99	4.03	0	0	0	5.4
3315	Foundries	0.042	0.041	0.053	4.57	4.67	4.36	0	0	0	2.5
331511	Iron Foundries	0.045	0.044	Q	4.33	4.27	4.87	0	0	0	1.8
331521	Aluminum Die-Casting Foundries	0.05	0.05	0.074	5.11	5.74	4.5	0	0	0	4.3
331524	Aluminum Foundries, except Die-Casting	0.044	0.044	Q	4.42	5.41	3.88	0	0	0	2.3
332	Fabricated Metal Products	0.055	0.055	Q	4.83	4.78	4.95	0	0	0	13.5
333	Machinery	0.055	0.055	Q	5.78	6	4.58	Q	0	Q	11.8
334	Computer and Electronic Products	0.048	0.049	0.041	5.45	5.88	4.74	6.11	6.11	0	4.9
334413	Semiconductors and Related Devices	0.044	0.045	0.04	5.11	5.68	4.6	0	0	0	2.4
335	Electrical Equip., Appliances, and Components	0.049	0.048	0.051	5.02	5.46	4.53	0	0	0	9.6
336	Transportation Equipment	0.047	0.047	Q	4.81	5.03	4.55	W	0	W	3.2
336112	Light Trucks and Utility Vehicles	0.04	0.04	0	W	W	W	W	0	W	0.9
337	Furniture and Related Products	0.061	0.061	Q	4.86	4.7	Q	1.92	0	1.92	18.1
339	Miscellaneous	0.054	0.054	0.059	4.84	4.81	5.6	0	0	0	11.1
	Total	0.041	0.042	0.037	3.75	4.53	3.54	4.27	4.39	4.26	3
	West Census Region										
	RSE Column Factors:	1.1	1.3	0.7	1.2	1.5	0.9	0.9	0.6	1	
311	Food	W	0.079	W	4.87	5.16	4.73	W	0	W	14.8
311221	Wet Corn Milling	W	W	0	4.54	4.97	W	0	0	0	4.8
31131	Sugar	0.06	0.06	0	3.14	W	2.97	3.02	0	3.02	0.9
311421	Fruit and Vegetable Canning	0.087	0.087	0.093	5.02	4.41	5.14	0	0	0	12.6
312	Beverage and Tobacco Products	W	W	W	4.51	6.27	3.84	W	0	W	3.2
3121	Beverages	W	W	W	4.51	6.27	3.84	W	0	W	3.2
3122	Tobacco	0.103	0.103	0	0	0	0	0	0	0	0.8
313	Textile Mills	0.067	0.066	0.095	Q	Q	5.05	4.49	4.49	0	6
314	Textile Product Mills	0.105	0.105	0.105	5.71	6.19	4.83	0	0	0	7.6
315	Apparel	0.085	0.085	0	Q	Q	Q	0	0	0	28.4
316	Leather and Allied Products	0.112	0.112	0	Q	Q	0	0	0	0	29.2
321	Wood Products	W	0.058	W	5.19	5.59	4.72	4.29	W	W	5.6
321113	Sawmills	W	W	W	5.04	4.98	5.15	5.38	0	5.38	5.7
3212	Veneer, Plywood, and Engineered Woods	0.05	0.051	0.048	4.94	5.71	4.54	4.05	W	W	3.8
3219	Other Wood Products	0.077	W	W	6.6	6.87	4.96	Q	0	Q	10
322	Paper	W	0.045	W	4.44	5.15	4.32	W	W	5.47	3.8
322110	Pulp Mills	W	W	0.041	W	W	3.17	0	0	0	0.9
322121	Paper Mills, except Newsprint	0.039	0.042	0.031	4.44	4.9	4.41	4.9	0	4.9	2.3
322122	Newsprint Mills	0.039	0.039	0	4.29	5.35	4.13	5.81	0	5.81	0.9
322130	Paperboard Mills	W	0.041	W	4.39	5.18	4.31	W	W	0	1.4
323	Printing and Related Support	0.089	0.088	0.132	4.75	4.42	5.74	0	0	0	19.1
324	Petroleum and Coal Products	0.065	0.073	0.043	3.27	3.51	3.23	W	0	W	5
324110	Petroleum Refineries	0.062	0.069	0.042	3.18	3.36	3.16	W	0	W	5
324199	Other Petroleum and Coal Products	0.1	0.1	0	3.66	3.68	3.64	0	0	0	0.8
325	Chemicals	0.047	0.046	0.053	2.64	4.15	2.33	4.09	4.35	3.97	2.6

Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: U.S. Dollars per Physical Units.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity from Local Utility(b) (kWh)	Electricity from Sources Other than Local Utility(c) (kWh)	Natural Gas Total (1000 cu ft)	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	RSE Row Factors
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	0.042	0.042	0.045	3.3	3.58	3.21	0	0	0	2
325181	Alkalies and Chlorine	W	W	0	W	4.09	W	2.16	0	2.16	0.9
325182	Carbon Black	W	W	0	W	W	0	0	0	0	0.8
325188	Other Basic Inorganic Chemicals	0.029	W	W	4.08	4.49	4.01	4.86	W	W	2.8
325192	Cyclic Crudes and Intermediates	W	W	0	4.37	3.74	0	0	0	0	0.8
325193	Ethyl Alcohol	W	W	0	3	W	W	W	W	0	1
325199	Other Basic Organic Chemicals	0.039	0.04	0.037	W	6.08	W	6.12	0	6.12	3.6
325211	Plastics Materials and Resins	W	0.069	W	4.98	5.69	4.37	0	0	0	8.7
325212	Synthetic Rubber	0.162	0.162	0	1.58	1.58	0	0	0	0	0.8
325222	Noncellulosic Organic Fibers	0.116	0.116	0	0	0	0	0	0	0	0.8
325311	Nitrogenous Fertilizers	0.059	0.057	0.125	1.57	6.63	1.57	0	0	0	0.9
325312	Phosphatic Fertilizers	0.041	0.041	0	3.13	W	W	0	0	0	0.8
3254	Pharmaceuticals and Medicines	0.086	0.087	0.079	5.7	5.06	6.38	0	0	0	2.6
325412	Pharmaceutical Preparation	0.079	0.081	0.076	5.98	5.73	6.41	0	0	0	2.7
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	4.2	5.89	4.01	0	0	0	0.8
326	Plastics and Rubber Products	0.095	0.096	0.077	5.29	5.75	4.67	0	0	0	12.6
327	Nonmetallic Mineral Products	0.067	0.069	0.063	4.37	4.17	4.41	0	0	0	4.5
3272	Glass and Glass Products	W	0.071	W	4.19	4.42	4.17	0	0	0	1.6
327211	Flat Glass	W	0.085	W	4.4	5.28	4.39	0	0	0	0.9
327213	Glass Containers	W	W	W	3.77	3.09	3.82	0	0	0	0.9
327310	Cements	W	0.058	W	3.98	3.01	4.53	0	0	0	1
327410	Lime	W	W	0	W	W	0	0	0	0	0.8
327993	Mineral Wool	0.06	0.058	0.062	3.77	3.39	3.91	0	0	0	1.4
331	Primary Metals	W	0.049	W	4.66	3.82	4.97	W	0	W	2.5
331111	Iron and Steel Mills	0.042	0.038	0.049	5.3	5.05	5.31	W	0	W	1.3
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	4.95	4.64	0	0	0	0.8
3312	Steel Products from Purchased Steel	0.091	W	W	W	6.19	W	0	0	0	6.3
3313	Alumina and Aluminum	W	W	0.03	3.96	4.36	3.89	0	0	0	2.5
331312	Primary Aluminum	W	W	0.029	W	Q	W	0	0	0	1.5
3314	Nonferrous Metals, except Aluminum	W	0.041	W	3.36	W	W	7.53	0	7.53	8.2
3315	Foundries	W	0.091	W	5.49	5.9	5.09	0	0	0	1.9
331511	Iron Foundries	0.085	0.085	0.09	4.74	6.18	4.35	0	0	0	1.3
331521	Aluminum Die-Casting Foundries	0.127	0.126	0.14	6.62	5.88	7.1	0	0	0	4.8
331524	Aluminum Foundries, except Die-Casting	0.107	0.107	0	5.64	5.96	4.87	0	0	0	4.1
332	Fabricated Metal Products	0.097	0.097	0.099	5.82	6.04	5.38	Q	Q	0	12
333	Machinery	0.097	0.097	0.096	5.35	5.51	5.06	0	0	0	14.3
334	Computer and Electronic Products	0.073	0.073	0.074	5.21	5.66	4.4	Q	Q	0	10.7
334413	Semiconductors and Related Devices	0.059	0.059	0.062	5.44	5.69	4.75	0	0	0	6.3
335	Electrical Equip., Appliances, and Components	0.096	0.095	0.123	Q	Q	5.07	6.35	7.81	3.37	4.8
336	Transportation Equipment	0.087	0.089	0.075	5.15	6.24	4.47	0	0	0	11
336112	Light Trucks and Utility Vehicles	W	W	0	7.91	7.91	0	0	0	0	0.8
337	Furniture and Related Products	0.107	W	W	5.66	5.4	9.78	0	0	0	8.6
339	Miscellaneous	0.097	0.098	0.088	4.24	4.37	3.67	0	0	0	18.1
	Total	0.066	0.069	0.052	4.03	4.82	3.75	4.48	4.39	4.48	4.6

Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: U.S. Dollars per Physical Units.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (kWh)	Electricity from Local Utility(b) (kWh)	Electricity from Sources Other than Local Utility(c) (kWh)	Natural Gas Total (1000 cu ft)	Natural Gas from Local Utility(b) (1000 cu ft)	Natural Gas from Sources Other than Local Utility(c) (1000 cu ft)	Steam Total (million Btu)	Steam from Local Utility(b) (million Btu)	Steam from Sources Other than Local Utility(c) (million Btu)	RSE Row Factors

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) A 'Local Utility' is an entity that produces and/or delivers a particular energy source (for example, electricity, natural gas, steam) and is legally obligated to provide service to the general public within its franchise area.
(c) 'Sources Other than Local Utility' include independent producers, brokers, marketers, and marketing subsidiaries of utilities; for the case of electricity sources, also include small power producers and cogenerators not located at the establishment site.
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.
-- Estimation is not applicable.
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.
Purchased energy sources exclude quantities delivered from any other establishment(s) in the company, quantities transferred from other establishments of the company for which payment was not made, quantities purchased centrally within the company but separate from the reporting establishment, and quantities for which payment was made in-kind.
Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'

Table 7.4 Average Prices of Selected Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: U.S. Dollars per Physical Units.

Economic Characteristic(a)	Electricity (kWh)	Residual Fuel Oil (gallons)	Distillate Fuel Oil(b) (gallons)	Natural Gas(c) (1000 cu ft)	LPG and NGL(d) (gallons)	Coal (short tons)	RSE Row Factors
Total United States							
RSE Column Factors:	0.7	1.2	2.2	0.7	0.5	1.6	
Value of Shipments and Receipts (million dollars)							
Under 20	0.067	0.6	1.01	5.05	0.9	60.2	11.2
20-49	0.056	0.55	0.89	4.69	0.88	40.36	6.5
50-99	0.05	0.61	0.91	4.21	0.62	47.85	4.7
100-249	0.043	0.59	0.92	3.84	0.45	41.33	5.5
250-499	0.038	0.52	0.79	3.94	0.51	41.73	4.6
500 and Over	0.04	0.58	0.72	3.58	0.5	45.92	1.7
Total	0.048	0.57	0.91	4.01	0.5	44.46	3.1
Employment Size							
Under 50	0.065	0.55	1.02	4.76	0.45	48.29	8.3
50-99	0.061	0.54	0.98	4.25	0.61	Q	7.2
100-249	0.053	0.61	0.9	4.21	0.44	42.96	4.5
250-499	0.045	0.59	0.89	3.93	0.54	40.29	4.2
500-999	0.042	0.53	0.75	3.88	0.48	45.34	5.5
1000 and Over	0.04	0.58	0.77	3.7	0.51	47.22	2
Total	0.048	0.57	0.91	4.01	0.5	44.46	3.1
Northeast Census Region							
RSE Column Factors:	1	1	1.8	0.9	1	0.7	
Value of Shipments and Receipts (million dollars)							
Under 20	0.081	0.65	0.94	5.65	0.95	82.74	15.4
20-49	0.071	0.67	0.84	5.36	0.85	42.3	9.9
50-99	0.062	0.66	0.93	5.04	0.93	34.54	5.4
100-249	0.051	0.63	0.89	4.71	0.81	46.89	4.1
250-499	0.047	0.6	0.97	4.59	0.72	40	3.5
500 and Over	0.053	0.62	0.89	4.45	0.84	48.36	1.3
Total	0.064	0.64	0.91	4.98	0.84	49.26	3.8
Employment Size							
Under 50	0.084	0.61	0.95	5.63	1.04	83.24	17.3
50-99	0.075	0.72	0.93	5.55	0.99	79.37	20.8
100-249	0.069	0.66	0.87	5.14	0.81	42.72	5.5
250-499	0.053	0.63	0.87	4.87	0.77	46.08	7.4
500-999	0.054	0.59	0.9	4.63	0.78	49.4	4.8
1000 and Over	0.054	0.66	0.92	4.55	0.64	47.99	1.9
Total	0.064	0.64	0.91	4.98	0.84	49.26	3.8
Midwest Census Region							
RSE Column Factors:	0.7	1.2	2.4	0.7	1	0.8	
Value of Shipments and Receipts (million dollars)							
Under 20	0.058	Q	0.92	4.95	0.89	44.56	17.3
20-49	0.052	0.53	0.78	4.65	0.99	37.37	10.1
50-99	0.046	0.49	1.02	4.07	0.67	52.41	10.3
100-249	0.043	0.5	1.01	4.17	0.62	40.01	6
250-499	0.036	0.47	1.15	4.21	0.86	36.38	5.9
500 and Over	0.038	0.49	0.57	3.89	W	44.83	3.1

Table 7.4 Average Prices of Selected Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: U.S. Dollars per Physical Units.

Economic Characteristic(a)	Electricity (kWh)	Residual Fuel Oil (gallons)	Distillate Fuel Oil(b) (gallons)	Natural Gas(c) (1000 cu ft)	LPG and NGL(d) (gallons)	Coal (short tons)	RSE Row Factors
Total	0.045	0.51	0.81	4.25	0.42	43.76	5
Employment Size							
Under 50	0.059	0.52	1.01	4.68	0.8	44.58	13.6
50-99	0.056	0.54	Q	4.18	0.84	31.15	15.8
100-249	0.049	0.52	0.99	4.45	0.87	44.77	11.8
250-499	0.042	0.46	0.86	4.29	0.32	35.07	7.5
500-999	0.041	0.52	1.09	4.17	0.7	41.61	5.5
1000 and Over	0.037	0.49	0.58	3.97	0.77	50.33	5.1
Total	0.045	0.51	0.81	4.25	0.42	43.76	5
South Census Region							
RSE Column Factors:	0.8	1	2.1	0.7	0.4	1.9	
Value of Shipments and Receipts (million dollars)							
Under 20	0.058	Q	1.04	4.89	0.88	58.9	15.9
20-49	0.047	0.5	0.85	4.51	0.89	44.06	9.3
50-99	0.044	0.58	0.87	4	0.57	47.83	5.4
100-249	0.04	0.58	0.88	3.75	0.43	47.99	8.5
250-499	0.036	0.51	0.71	3.73	0.51	42.59	4.4
500 and Over	0.035	0.57	0.96	3.42	0.51	45.14	1.3
Total	0.041	0.53	0.9	3.75	0.5	44.64	3.9
Employment Size							
Under 50	0.055	Q	0.98	4.47	0.36	36.13	7.6
50-99	0.049	0.49	1.01	3.86	0.59	Q	8
100-249	0.045	0.58	0.87	3.93	0.43	43.36	5.3
250-499	0.04	0.56	0.9	3.83	0.59	48.26	3.1
500-999	0.038	0.49	0.69	3.68	0.48	45.88	6.7
1000 and Over	0.035	0.56	1	3.44	0.5	42.27	2
Total	0.041	0.53	0.9	3.75	0.5	44.64	3.9
West Census Region							
RSE Column Factors:	0.9	0.4	2.9	1.1	3.6	0.3	
Value of Shipments and Receipts (million dollars)							
Under 20	0.091	0.54	1.13	4.9	1	32.7	13
20-49	0.076	0.56	1.09	4.75	0.82	32.36	5.9
50-99	0.072	0.67	0.88	4.7	0.91	37.84	4.2
100-249	0.049	0.55	1.03	3.35	0.8	32.06	3.1
250-499	0.051	0.58	0.79	4.41	0.96	73.52	5.9
500 and Over	0.064	0.57	1.22	3.54	0.78	0	4.6
Total	0.066	0.58	1.03	4.03	0.88	34.3	4.7
Employment Size							
Under 50	0.084	0.65	1.11	4.97	0.88	W	9.9
50-99	0.079	0.51	Q	4.87	0.72	28.09	12
100-249	0.069	0.67	0.94	4.27	1.01	37.5	4.2
250-499	0.056	0.58	1.03	3.28	0.84	35.82	3.4
500-999	0.06	0.51	0.99	4.12	0.86	73.51	3.2
1000 and Over	0.06	0.58	0.82	3.98	0.88	W	4.8
Total	0.066	0.58	1.03	4.03	0.88	34.3	4.7

Table 7.4 Average Prices of Selected Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: U.S. Dollars per Physical Units.

Economic Characteristic(a)	Electricity (kWh)	Residual Fuel Oil (gallons)	Distillate Fuel Oil(b) (gallons)	Natural Gas(c) (1000 cu ft)	LPG and NGL(d) (gallons)	Coal (short tons)	RSE Row Factors

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

(b) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(c) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

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.

-- Estimation is not applicable.

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.'

Table 7.5 Average Prices of Selected Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: U.S. Dollars per Million Btu.

Economic Characteristic(a)	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	RSE Row Factors
Total United States							
RSE Column Factors:	0.7	1.2	2.2	0.7	0.5	1.6	
Value of Shipments and Receipts (million dollars)							
Under 20	19.67	3.98	7.29	4.91	9.79	2.57	11.3
20-49	16.48	3.64	6.42	4.57	9.97	1.77	6.5
50-99	14.79	4.07	6.53	4.1	7.14	2.11	4.7
100-249	12.72	3.94	6.6	3.74	5.2	1.87	5.5
250-499	11.2	3.46	5.69	3.84	5.97	1.74	4.6
500 and Over	11.64	3.88	5.23	3.48	5.83	1.84	1.7
Total	14.13	3.78	6.56	3.9	5.84	1.87	3.2
Employment Size							
Under 50	19.11	3.64	7.38	4.63	5.19	2.15	8.3
50-99	17.76	3.62	7.07	4.13	7.07	Q	7.2
100-249	15.51	4.05	6.48	4.1	5.16	1.92	4.5
250-499	13.08	3.91	6.43	3.83	6.36	1.77	4.2
500-999	12.35	3.51	5.43	3.78	5.75	2.04	5.5
1000 and Over	11.72	3.89	5.58	3.6	5.96	1.89	2
Total	14.13	3.78	6.56	3.9	5.84	1.87	3.2
Northeast Census Region							
RSE Column Factors:	1	1	1.8	0.9	1	0.7	
Value of Shipments and Receipts (million dollars)							
Under 20	23.71	4.33	6.76	5.5	10.85	3.37	15.5
20-49	20.89	4.5	6.07	5.22	9.7	1.74	9.2
50-99	18.21	4.43	6.7	4.91	10.62	1.55	5.4
100-249	15.07	4.2	6.45	4.58	9.36	2.11	4.1
250-499	13.87	4.04	7.03	4.46	7.98	1.79	3.5
500 and Over	15.43	4.13	6.39	4.33	9.55	1.83	1.3
Total	18.74	4.29	6.58	4.85	9.65	1.94	3.8
Employment Size							
Under 50	24.6	4.1	6.88	5.48	11.96	3.52	17.3
50-99	22.1	4.78	6.69	5.4	11.34	3.37	21.1
100-249	20.36	4.41	6.28	5	9.36	1.78	5.5
250-499	15.54	4.23	6.26	4.75	8.78	2.07	7.4
500-999	15.84	3.94	6.49	4.51	8.95	2.21	4.8
1000 and Over	15.77	4.41	6.61	4.43	7.17	1.83	1.9
Total	18.74	4.29	6.58	4.85	9.65	1.94	3.8
Midwest Census Region							
RSE Column Factors:	0.7	1.2	2.4	0.7	1	0.8	
Value of Shipments and Receipts (million dollars)							
Under 20	16.96	Q	6.6	4.82	9.38	2.01	17.1
20-49	15.26	3.53	5.64	4.52	11.21	1.69	10.1
50-99	13.57	3.29	7.34	3.96	7.63	2.34	10.3
100-249	12.6	3.37	7.32	4.06	6.9	1.81	6
250-499	10.5	3.13	8.29	4.1	9.83	1.66	5.9
500 and Over	11.1	3.3	4.11	3.78	W	1.81	3.1
Total	13.23	3.43	5.83	4.14	4.95	1.86	5

Table 7.5 Average Prices of Selected Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: U.S. Dollars per Million Btu.

Economic Characteristic(a)	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	RSE Row Factors
Employment Size							
Under 50	17.4	3.5	7.3	4.55	8.16	2.01	13.4
50-99	16.37	3.58	Q	4.07	9.71	1.4	15.7
100-249	14.5	3.44	7.13	4.34	9.84	2.01	11.8
250-499	12.4	3.05	6.21	4.18	3.86	1.59	7.5
500-999	12.1	3.49	7.87	4.06	8.08	1.87	5.5
1000 and Over	10.98	3.27	4.2	3.87	8.87	1.97	5.1
Total	13.23	3.43	5.83	4.14	4.95	1.86	5
South Census Region							
RSE Column Factors:	0.8	1	2.1	0.7	0.4	2	
Value of Shipments and Receipts (million dollars)							
Under 20	17.06	Q	7.49	4.76	9.92	2.47	16.2
20-49	13.86	3.32	6.14	4.39	10.17	1.97	9.3
50-99	12.85	3.88	6.24	3.89	6.6	2.07	5.4
100-249	11.76	3.9	6.33	3.65	4.97	2.17	8.5
250-499	10.41	3.4	5.14	3.63	5.97	1.75	4.4
500 and Over	10.17	3.79	6.92	3.33	5.99	1.92	1.3
Total	12.12	3.57	6.47	3.65	5.84	1.88	3.9
Employment Size							
Under 50	16.22	Q	7.09	4.35	4.25	1.63	7.6
50-99	14.29	3.29	7.29	3.76	6.84	Q	8
100-249	13.24	3.89	6.26	3.83	4.99	2	5.6
250-499	11.8	3.77	6.52	3.73	6.88	2.03	3
500-999	10.99	3.28	4.95	3.58	5.74	2.07	6.7
1000 and Over	10.34	3.77	7.24	3.35	5.95	1.82	2
Total	12.12	3.57	6.47	3.65	5.84	1.88	3.9
West Census Region							
RSE Column Factors:	0.9	0.4	2.9	1.1	3.6	0.3	
Value of Shipments and Receipts (million dollars)							
Under 20	26.7	3.59	8.13	4.77	11.41	1.48	13.1
20-49	22.31	3.73	7.83	4.63	9.27	1.46	5.9
50-99	21.11	4.44	6.36	4.58	10.34	1.71	4.2
100-249	14.37	3.7	7.41	3.27	9.07	1.45	3.1
250-499	14.86	3.87	5.73	4.3	10.93	3.2	5.9
500 and Over	18.7	3.82	8.79	3.44	9.1	0	4.6
Total	19.29	3.89	7.46	3.93	9.92	1.55	4.7
Employment Size							
Under 50	24.7	4.33	8.04	4.84	9.85	W	10
50-99	23.26	3.41	Q	4.74	8.17	1.27	12
100-249	20.19	4.5	6.79	4.16	11.53	1.69	4.2
250-499	16.55	3.89	7.43	3.2	9.57	1.61	3.4
500-999	17.67	3.43	7.1	4.01	9.86	3.2	3.1
1000 and Over	17.62	3.89	5.94	3.88	10.11	W	4.8
Total	19.29	3.89	7.46	3.93	9.92	1.55	4.7

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

Table 7.5 Average Prices of Selected Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: U.S. Dollars per Million Btu.

Economic Characteristic(a)	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	RSE Row Factors

(b) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(c) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

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.

-- Estimation is not applicable.

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.'

Table 7.6 Quantity of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)	RSE Row Factors
	Total United States										
	RSE Column Factors:	0.9	0.9	1.2	1.5	0.9	1.5	0.8	0.6	1.1	
311	Food	1,082	W	2	3	566	1	9	*	40	8.2
311221	Wet Corn Milling	220	W	*	*	59	*	6	0	9	1.1
31131	Sugar	71	733	*	*	22	*	2	*	3	1
311421	Fruit and Vegetable Canning	47	1,987	*	*	35	*	0	0	1	12.6
312	Beverage and Tobacco Products	103	7,898	*	*	45	*	1	0	9	4.4
3121	Beverages	83	6,504	*	*	41	*	*	0	8	5.8
3122	Tobacco	20	1,394	*	*	4	*	*	0	1	0.9
313	Textile Mills	209	25,387	1	*	73	*	W	0	18	17.1
314	Textile Product Mills	59	4,870	*	Q	28	*	*	0	Q	21.8
315	Apparel	30	3,579	*	*	16	*	0	0	*	23.3
316	Leather and Allied Products	7	717	*	*	4	*	0	0	*	8.5
321	Wood Products	552	21,525	*	2	56	1	*	0	401	4
321113	Sawmills	97	6,235	*	1	10	*	0	0	59	6.6
3212	Veneer, Plywood, and Engineered Woods	392	9,696	*	*	32	1	*	0	320	3.7
3219	Other Wood Products	52	5,284	*	*	11	*	0	0	20	9.7
322	Paper	1,520	W	16	2	490	2	11	*	416	2.2
322110	Pulp Mills	81	W	2	1	23	*	0	0	28	0.9
322121	Paper Mills, except Newsprint	644	24,755	8	1	200	*	6	*	159	1.9
322122	Newsprint Mills	93	10,827	1	*	15	*	*	0	27	0.9
322130	Paperboard Mills	573	W	5	1	184	*	4	0	196	2.6
323	Printing and Related Support	98	14,732	*	*	45	*	0	0	1	12.4
324	Petroleum and Coal Products	1,667	41,280	1	2	884	1	Q	*	261	6.3
324110	Petroleum Refineries	1,122	38,603	0	*	829	*	*	0	137	2.5
324199	Other Petroleum and Coal Products	451	430	*	*	4	*	Q	*	118	2.2
325	Chemicals	6,366	160,360	11	2	2,154	748	15	*	490	5.3
325110	Petrochemicals	1,045	W	1	1	202	219	W	0	W	0.9
325120	Industrial Gases	304	W	0	*	64	W	0	0	146	5.1
325181	Alkalies and Chlorine	191	13,274	*	*	97	W	1	0	7	1.4
325182	Carbon Black	75	609	7	*	19	*	0	0	6	0.9
325188	Other Basic Inorganic Chemicals	212	W	*	*	74	2	1	*	15	2
325192	Cyclic Crudes and Intermediates	100	3,443	*	*	42	5	*	0	25	0.9
325193	Ethyl Alcohol	61	1,309	0	*	29	*	1	0	7	5.6
325199	Other Basic Organic Chemicals	1,597	W	1	*	571	160	Q	0	167	8.4
325211	Plastics Materials and Resins	1,721	W	*	*	318	352	1	*	44	5.4
325212	Synthetic Rubber	57	1,916	*	*	28	1	*	0	12	4.1
325222	Noncellulosic Organic Fibers	62	4,377	*	*	31	*	W	0	3	1.6
325311	Nitrogenous Fertilizers	497	3,502	0	*	471	*	*	0	1	1
325312	Phosphatic Fertilizers	41	2,006	*	*	30	*	*	*	1	1
3254	Pharmaceuticals and Medicines	117	10,964	*	*	60	*	*	0	6	4.5
325412	Pharmaceutical Preparation	84	8,498	*	*	39	*	*	0	4	5.9
325992	Photographic Film, Paper, Plate, and Chemicals	29	W	*	*	7	*	W	0	*	7.5
326	Plastics and Rubber Products	350	53,196	1	*	125	2	W	0	4	10.9
327	Nonmetallic Mineral Products	1,054	41,406	*	6	411	1	14	*	125	4.3
3272	Glass and Glass Products	203	12,213	*	*	149	*	*	0	6	2.2
327211	Flat Glass	64	1,842	*	*	51	*	*	0	4	0.9
327213	Glass Containers	66	3,932	0	*	51	*	0	0	*	0.9
327310	Cements	399	12,462	*	1	21	*	11	*	80	2

Table 7.6 Quantity of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)	RSE Row Factors
327410	Lime	108	1,353	*	*	7	*	3	*	27	1
327993	Mineral Wool	51	3,720	0	*	34	*	0	*	*	2.1
331	Primary Metals	2,245	W	*	3	686	1	20	14	178	1.8
331111	Iron and Steel Mills	1,461	54,356	*	2	406	*	19	13	25	2.1
331112	Electrometallurgical Ferroalloy Products	28	3,555	0	*	7	*	*	*	2	3.9
3312	Steel Products from Purchased Steel	47	4,611	*	*	23	*	*	*	6	12.3
3313	Alumina and Aluminum	450	W	*	*	132	*	*	*	140	1.6
331312	Primary Aluminum	305	W	*	*	19	*	*	0	136	0.9
3314	Nonferrous Metals, except Aluminum	100	W	*	*	43	*	*	*	4	4.3
3315	Foundries	158	15,896	*	*	75	*	*	1	1	2.1
331511	Iron Foundries	80	8,214	0	*	27	*	*	1	1	2.6
331521	Aluminum Die-Casting Foundries	23	1,897	*	*	16	*	0	0	*	2.4
331524	Aluminum Foundries, except Die-Casting	19	1,350	*	*	14	*	0	0	*	4.7
332	Fabricated Metal Products	390	47,121	*	1	204	1	*	*	3	16.3
333	Machinery	177	24,487	*	*	80	1	*	0	5	10
334	Computer and Electronic Products	307	38,428	*	*	64	*	*	0	109	10.9
334413	Semiconductors and Related Devices	173	13,027	*	*	21	*	0	0	107	2.7
335	Electrical Equip., Appliances, and Components	174	W	*	*	52	*	*	*	72	13.6
336	Transportation Equipment	428	W	1	1	196	1	*	*	31	5.5
336112	Light Trucks and Utility Vehicles	58	4,889	*	*	35	*	*	0	4	0.9
337	Furniture and Related Products	74	7,112	*	*	24	*	*	0	Q	12
339	Miscellaneous	71	10,371	*	*	31	*	0	0	2	9.3
	Total	16,965	844,583	35	25	6,234	762	85	15	2,189	2.9
	Northeast Census Region										
	RSE Column Factors:	1	1.2	1	1.7	1	1.7	0.7	0.4	1.1	
311	Food	92	6,570	1	1	54	*	*	0	4	21.5
311221	Wet Corn Milling	*	W	*	*	0	0	0	0	*	0.9
31131	Sugar	W	W	*	*	W	*	0	0	*	0.8
311421	Fruit and Vegetable Canning	5	343	*	*	3	*	0	0	*	10
312	Beverage and Tobacco Products	13	W	*	*	7	*	0	0	*	5.3
3121	Beverages	12	W	*	*	7	*	0	0	*	5.8
3122	Tobacco	1	W	*	*	*	*	0	0	*	0.8
313	Textile Mills	24	1,340	*	*	13	*	0	0	*	23.3
314	Textile Product Mills	4	425	*	*	2	*	*	0	*	3.7
315	Apparel	6	567	0	*	4	*	0	0	0	26.3
316	Leather and Allied Products	2	111	*	*	1	*	0	0	*	10.5
321	Wood Products	25	1,390	*	*	4	*	0	0	13	10.9
321113	Sawmills	6	380	*	*	*	*	0	0	2	4.2
3212	Veneer, Plywood, and Engineered Woods	7	316	*	*	2	*	0	0	4	8.4
3219	Other Wood Products	11	682	*	*	2	*	0	0	6	17
322	Paper	206	W	6	*	72	*	1	0	45	3.7
322110	Pulp Mills	*	W	*	*	*	*	0	0	0	4.9
322121	Paper Mills, except Newsprint	142	W	4	*	46	*	1	0	37	2.9
322122	Newsprint Mills	6	W	1	*	0	0	0	0	0	0.8
322130	Paperboard Mills	32	985	1	*	14	*	*	0	8	2.3
323	Printing and Related Support	23	3,164	*	*	11	*	0	0	*	18.4
324	Petroleum and Coal Products	111	3,326	*	1	44	*	W	*	10	6.7
324110	Petroleum Refineries	56	2,808	0	0	36	0	*	0	8	2

Table 7.6 Quantity of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)	RSE Row Factors
324199	Other Petroleum and Coal Products	31	71	*	*	*	*	W	*	*	1
325	Chemicals	178	12,721	1	1	71	5	W	0	17	5
325110	Petrochemicals	*	19	0	*	*	0	0	0	*	1.7
325120	Industrial Gases	11	1,961	0	*	1	0	0	0	W	0.9
325181	Alkalies and Chlorine	8	W	*	*	*	*	0	0	2	0.9
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	13	W	*	*	6	*	0	0	Q	2.7
325192	Cyclic Crudes and Intermediates	6	205	*	*	W	*	0	0	*	0.8
325193	Ethyl Alcohol	*	*	0	0	*	0	0	0	*	0.9
325199	Other Basic Organic Chemicals	17	772	*	*	W	*	0	0	5	5.7
325211	Plastics Materials and Resins	31	W	*	*	6	W	0	0	3	7.8
325212	Synthetic Rubber	1	50	0	*	*	*	0	0	*	0.8
325222	Noncellulosic Organic Fibers	*	W	*	0	*	*	0	0	*	5.4
325311	Nitrogenous Fertilizers	2	74	0	*	1	*	0	0	*	0.8
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	44	3,038	*	*	30	*	0	0	1	7
325412	Pharmaceutical Preparation	31	2,328	*	*	20	*	0	0	1	9.2
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	*	*	3	*	W	0	*	4.3
326	Plastics and Rubber Products	46	7,560	*	*	14	*	*	0	1	8
327	Nonmetallic Mineral Products	150	6,608	*	1	62	*	W	*	18	5.2
3272	Glass and Glass Products	40	W	*	*	29	*	*	0	2	2.9
327211	Flat Glass	11	W	0	*	9	*	*	0	*	0.9
327213	Glass Containers	13	W	0	*	10	*	0	0	*	0.8
327310	Cements	55	W	*	*	*	*	W	*	15	1
327410	Lime	6	W	0	*	*	*	*	0	1	0.9
327993	Mineral Wool	5	346	0	*	3	*	0	*	*	2.9
331	Primary Metals	373	15,135	*	*	67	*	8	*	22	4.1
331111	Iron and Steel Mills	276	6,072	0	*	37	*	8	*	1	4
331112	Electrometallurgical Ferroalloy Products	2	W	0	*	*	*	*	0	*	0.9
3312	Steel Products from Purchased Steel	10	W	*	*	3	*	*	*	Q	15.8
3313	Alumina and Aluminum	W	W	*	*	11	*	0	0	W	1.1
331312	Primary Aluminum	W	W	*	*	1	*	0	0	W	0.8
3314	Nonferrous Metals, except Aluminum	26	W	*	*	8	*	*	*	1	4.1
3315	Foundries	14	W	*	*	7	*	*	*	*	4.4
331511	Iron Foundries	7	607	0	*	3	*	*	*	*	3.5
331521	Aluminum Die-Casting Foundries	1	52	0	*	*	*	0	0	*	3.3
331524	Aluminum Foundries, except Die-Casting	3	209	*	*	2	*	0	0	*	1.4
332	Fabricated Metal Products	55	6,456	*	*	28	*	*	*	1	18.7
333	Machinery	28	3,685	*	*	12	*	0	0	Q	15.6
334	Computer and Electronic Products	62	11,184	*	*	20	*	*	0	1	27.9
334413	Semiconductors and Related Devices	14	2,390	*	*	5	*	0	0	1	3.3
335	Electrical Equip., Appliances, and Components	18	W	*	*	10	*	0	0	*	14.1
336	Transportation Equipment	49	4,049	1	*	20	*	0	0	11	5.1
336112	Light Trucks and Utility Vehicles	2	W	0	*	1	*	0	0	*	0.8
337	Furniture and Related Products	7	831	0	*	3	*	0	0	*	14
339	Miscellaneous	21	2,519	*	*	9	*	0	0	Q	9.9
	Total	1,493	100,138	10	5	527	7	13	*	147	3.1
	Midwest Census Region										
	RSE Column Factors:	0.9	1	1	1.3	1.2	1.6	0.5	0.8	1.1	

Table 7.6 Quantity of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)	RSE Row Factors
311	Food	539	W	1	*	245	*	W	*	20	10.7
311221	Wet Corn Milling	195	5,955	*	*	51	*	5	0	6	1
31131	Sugar	30	379	*	*	5	*	1	*	*	1
311421	Fruit and Vegetable Canning	7	397	*	*	5	*	0	0	*	3.3
312	Beverage and Tobacco Products	23	1,392	*	*	10	*	*	0	1	5.3
3121	Beverages	22	W	*	*	10	*	*	0	*	5.9
3122	Tobacco	1	W	0	*	*	*	0	0	1	0.9
313	Textile Mills	3	313	0	*	1	*	0	0	*	13.1
314	Textile Product Mills	2	307	0	0	1	*	0	0	*	18.8
315	Apparel	1	184	0	0	1	*	0	0	*	10.2
316	Leather and Allied Products	4	428	0	*	3	*	0	0	*	20.6
321	Wood Products	71	3,127	*	*	12	*	*	0	45	3.4
321113	Sawmills	3	428	*	*	1	*	0	0	1	5.3
3212	Veneer, Plywood, and Engineered Woods	53	1,103	*	*	6	*	*	0	41	2.2
3219	Other Wood Products	14	1,558	0	*	5	*	0	0	3	11
322	Paper	300	W	1	*	97	Q	4	*	54	3.5
322110	Pulp Mills	W	W	0	*	2	*	*	0	*	1
322121	Paper Mills, except Newsprint	176	W	1	*	51	*	3	*	24	2.3
322122	Newsprint Mills	4	W	0	*	*	*	*	0	W	1
322130	Paperboard Mills	69	2,432	*	*	21	*	1	0	25	5.8
323	Printing and Related Support	33	5,171	0	*	14	*	0	0	*	12.5
324	Petroleum and Coal Products	149	6,860	*	*	97	*	0	0	22	4.9
324110	Petroleum Refineries	105	6,149	0	0	79	*	0	0	3	1.4
324199	Other Petroleum and Coal Products	18	60	0	*	*	*	0	0	17	0.9
325	Chemicals	652	29,403	1	*	241	39	W	*	87	5.1
325110	Petrochemicals	W	W	0	*	2	W	0	0	*	0.9
325120	Industrial Gases	Q	6,276	0	0	W	0	0	0	W	1.3
325181	Alkalies and Chlorine	Q	W	0	*	1	*	*	0	*	2.8
325182	Carbon Black	W	W	1	0	1	*	0	0	*	0.9
325188	Other Basic Inorganic Chemicals	39	2,122	*	*	19	2	*	*	5	2
325192	Cyclic Crudes and Intermediates	7	W	*	*	W	*	0	0	*	0.9
325193	Ethyl Alcohol	58	1,251	0	*	28	*	1	0	6	5.8
325199	Other Basic Organic Chemicals	56	4,081	0	*	20	*	*	0	14	2.1
325211	Plastics Materials and Resins	166	4,322	*	*	20	W	*	*	7	2.2
325212	Synthetic Rubber	5	W	0	*	1	*	*	0	*	1.8
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	88	1,071	0	*	81	0	0	0	1	0.9
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	41	4,114	*	*	17	*	*	0	1	5.4
325412	Pharmaceutical Preparation	34	3,637	*	*	12	*	*	0	*	2.7
325992	Photographic Film, Paper, Plate, and Chemicals	1	W	0	0	*	*	0	0	0	3.8
326	Plastics and Rubber Products	140	19,789	*	*	47	1	W	0	1	14.6
327	Nonmetallic Mineral Products	292	10,689	*	2	109	*	W	*	47	4.9
3272	Glass and Glass Products	58	3,618	0	*	43	*	0	0	1	1.6
327211	Flat Glass	19	W	0	*	16	*	0	0	1	0.9
327213	Glass Containers	16	W	0	*	13	*	0	0	*	0.9
327310	Cements	103	3,050	*	*	5	*	W	*	30	2.8
327410	Lime	48	487	*	*	4	*	1	*	13	1
327993	Mineral Wool	20	1,427	0	*	13	*	0	*	*	1.4
331	Primary Metals	1,098	W	*	1	353	*	9	10	59	2.2

Table 7.6 Quantity of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)	RSE Row Factors
331111	Iron and Steel Mills	830	22,772	*	1	245	*	9	9	20	2.2
331112	Electrometallurgical Ferroalloy Products	19	2,337	0	*	6	*	*	*	2	1
3312	Steel Products from Purchased Steel	23	2,160	0	*	14	*	*	0	2	11.3
3313	Alumina and Aluminum	103	W	0	*	30	*	0	0	34	3.3
331312	Primary Aluminum	70	W	0	*	5	*	0	0	32	0.9
3314	Nonferrous Metals, except Aluminum	28	W	*	*	13	*	*	*	1	4.9
3315	Foundries	95	9,810	*	*	46	*	*	1	1	2.7
331511	Iron Foundries	50	5,634	0	*	16	*	*	1	1	3.9
331521	Aluminum Die-Casting Foundries	17	1,510	*	*	12	*	0	0	*	2.9
331524	Aluminum Foundries, except Die-Casting	11	828	0	*	8	*	0	0	*	3.9
332	Fabricated Metal Products	184	21,309	*	*	98	*	*	*	1	15.9
333	Machinery	92	11,513	0	*	46	*	*	0	2	11.4
334	Computer and Electronic Products	32	5,270	0	*	13	*	0	0	1	10
334413	Semiconductors and Related Devices	3	594	0	*	1	*	0	0	*	1.5
335	Electrical Equip., Appliances, and Components	39	4,949	*	*	18	*	*	0	3	5.8
336	Transportation Equipment	239	W	*	*	116	1	*	*	14	12.5
336112	Light Trucks and Utility Vehicles	36	W	*	*	23	*	*	0	1	1
337	Furniture and Related Products	22	2,294	0	*	11	*	*	0	Q	13.2
339	Miscellaneous	19	2,786	0	*	9	*	0	0	*	11.5
	Total	3,935	247,463	3	5	1,542	44	29	11	359	4.7
	South Census Region										
	RSE Column Factors:	1	1	1	1.3	1	1.5	0.7	0.6	1.1	
311	Food	279	23,096	Q	1	165	1	*	0	9	10.3
311221	Wet Corn Milling	20	1,070	0	*	5	*	*	0	4	0.9
31131	Sugar	W	210	*	*	W	*	*	0	*	0.9
311421	Fruit and Vegetable Canning	14	541	*	*	10	*	0	0	*	8.9
312	Beverage and Tobacco Products	45	3,632	*	*	18	*	*	0	1	3.3
3121	Beverages	27	2,278	*	*	15	*	*	0	1	3.6
3122	Tobacco	18	1,354	*	*	3	*	*	0	*	0.9
313	Textile Mills	172	22,798	*	*	51	*	W	0	17	19.8
314	Textile Product Mills	51	3,924	*	*	23	*	*	0	Q	21
315	Apparel	15	1,956	*	*	7	*	0	0	*	22.2
316	Leather and Allied Products	1	143	0	*	*	*	0	0	*	9.7
321	Wood Products	137	W	*	1	25	1	*	0	63	9
321113	Sawmills	41	W	0	*	3	*	0	0	25	14.2
3212	Veneer, Plywood, and Engineered Woods	67	5,985	*	*	17	*	*	0	26	8.3
3219	Other Wood Products	20	2,168	0	*	3	*	0	0	9	16.4
322	Paper	800	W	8	2	237	*	6	0	247	2
322110	Pulp Mills	67	W	2	1	18	*	*	0	27	0.9
322121	Paper Mills, except Newsprint	261	W	2	*	77	*	3	0	75	1.5
322122	Newsprint Mills	43	4,866	*	*	10	*	*	0	W	0.9
322130	Paperboard Mills	383	W	4	*	106	*	3	0	135	3.3
323	Printing and Related Support	28	4,527	*	*	11	*	0	0	*	9.1
324	Petroleum and Coal Products	1,124	23,956	*	1	552	*	W	*	170	6
324110	Petroleum Refineries	731	22,895	0	*	533	*	0	0	105	1.4
324199	Other Petroleum and Coal Products	Q	258	0	*	2	*	W	*	63	1.7
325	Chemicals	5,338	106,525	9	1	1,727	704	11	*	374	5.6
325110	Petrochemicals	W	W	1	0	200	W	W	0	W	0.9

Table 7.6 Quantity of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)	RSE Row Factors
325120	Industrial Gases	206	W	0	*	54	W	0	0	Q	3.8
325181	Alkalies and Chlorine	148	9,602	0	*	W	W	*	0	W	0.9
325182	Carbon Black	W	W	6	*	18	*	0	0	6	0.9
325188	Other Basic Inorganic Chemicals	115	W	*	*	36	*	*	0	6	2.7
325192	Cyclic Crudes and Intermediates	86	2,980	*	*	31	5	*	0	24	0.9
325193	Ethyl Alcohol	*	12	0	*	*	*	0	0	*	0.9
325199	Other Basic Organic Chemicals	1,518	W	1	*	541	160	Q	0	145	9.4
325211	Plastics Materials and Resins	1,522	W	*	*	291	314	Q	0	33	3.4
325212	Synthetic Rubber	51	W	*	*	26	1	*	0	12	4.7
325222	Noncellulosic Organic Fibers	62	W	*	*	31	*	W	0	3	0.9
325311	Nitrogenous Fertilizers	342	1,894	0	*	326	*	0	0	*	0.9
325312	Phosphatic Fertilizers	33	1,422	*	*	24	*	*	*	*	1
3254	Pharmaceuticals and Medicines	23	2,740	*	*	8	*	0	0	4	8.6
325412	Pharmaceutical Preparation	14	1,868	*	*	4	*	0	0	3	12.2
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	*	*	2	*	0	0	*	4.2
326	Plastics and Rubber Products	141	21,454	1	*	56	*	0	0	2	13.7
327	Nonmetallic Mineral Products	428	17,561	*	2	180	*	6	*	45	5.7
3272	Glass and Glass Products	81	5,075	*	*	60	*	*	0	2	2
327211	Flat Glass	26	840	*	*	21	*	*	0	2	0.9
327213	Glass Containers	22	1,233	0	*	18	*	0	0	*	0.9
327310	Cements	152	4,839	0	*	10	*	4	*	23	3.8
327410	Lime	40	575	0	*	3	*	1	0	11	0.9
327993	Mineral Wool	21	1,418	0	*	14	*	0	*	*	3.4
331	Primary Metals	667	W	*	*	227	*	2	4	80	2.1
331111	Iron and Steel Mills	322	21,837	*	*	107	*	2	4	2	1.8
331112	Electrometallurgical Ferroalloy Products	7	W	0	*	*	*	*	*	*	14.3
3312	Steel Products from Purchased Steel	11	W	0	*	5	*	*	0	1	13.8
3313	Alumina and Aluminum	257	W	0	*	83	*	*	*	76	2.6
331312	Primary Aluminum	167	W	0	*	11	*	*	0	74	0.9
3314	Nonferrous Metals, except Aluminum	29	3,205	0	*	14	*	*	*	1	5
3315	Foundries	41	4,079	0	*	18	*	*	*	*	1.5
331511	Iron Foundries	21	1,804	0	*	7	*	*	*	*	1.6
331521	Aluminum Die-Casting Foundries	4	274	0	*	3	*	0	0	*	1.7
331524	Aluminum Foundries, except Die-Casting	4	244	0	*	3	*	0	0	*	3.5
332	Fabricated Metal Products	121	15,240	*	*	64	*	*	0	1	17.9
333	Machinery	43	7,116	0	*	16	*	0	0	1	13.9
334	Computer and Electronic Products	40	9,202	0	*	8	*	0	0	*	8.2
334413	Semiconductors and Related Devices	16	3,664	0	*	3	*	0	0	*	3.1
335	Electrical Equip., Appliances, and Components	108	6,026	*	*	18	*	*	*	68	16.4
336	Transportation Equipment	103	14,164	*	*	43	*	*	0	5	5.3
336112	Light Trucks and Utility Vehicles	20	W	0	*	11	*	0	0	2	0.9
337	Furniture and Related Products	40	3,181	0	*	8	*	*	0	Q	22.9
339	Miscellaneous	19	3,041	*	*	8	*	0	0	*	16.8
	Total	9,697	390,727	20	10	3,445	709	38	4	1,105	3.4
	West Census Region										
	RSE Column Factors:	1.1	1.3	0.8	1.5	1.3	1.9	0.6	0.5	0.8	
311	Food	171	W	*	1	102	*	W	*	7	7.7
311221	Wet Corn Milling	4	W	0	*	4	*	0	0	*	3.4

Table 7.6 Quantity of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)	RSE Row Factors
31131	Sugar	23	W	*	*	W	*	1	*	3	1
311421	Fruit and Vegetable Canning	20	706	*	*	17	*	0	0	*	7.1
312	Beverage and Tobacco Products	23	W	0	*	9	*	0	0	7	3.9
3121	Beverages	23	W	0	*	9	*	0	0	7	3.9
3122	Tobacco	*	*	0	0	0	0	0	0	0	0.8
313	Textile Mills	10	936	0	0	Q	*	0	0	*	9.9
314	Textile Product Mills	2	215	0	0	1	*	0	0	0	17
315	Apparel	8	872	0	*	Q	*	0	0	*	27
316	Leather and Allied Products	*	36	0	*	*	0	0	0	0	29
321	Wood Products	319	W	*	*	15	*	0	0	281	4.6
321113	Sawmills	47	W	*	*	6	*	0	0	31	7.5
3212	Veneer, Plywood, and Engineered Woods	264	2,293	0	*	7	*	0	0	248	2.9
3219	Other Wood Products	6	876	0	*	2	*	0	0	Q	9.6
322	Paper	214	W	1	*	85	*	*	0	70	1.5
322110	Pulp Mills	W	402	*	*	3	*	0	0	1	0.8
322121	Paper Mills, except Newsprint	64	3,583	*	*	25	*	0	0	23	1.8
322122	Newsprint Mills	39	4,756	*	*	5	*	0	0	16	0.8
322130	Paperboard Mills	89	W	*	*	42	*	*	0	29	1.3
323	Printing and Related Support	15	1,870	0	*	8	*	0	0	*	16.8
324	Petroleum and Coal Products	283	7,139	0	*	192	*	0	0	59	7.1
324110	Petroleum Refineries	230	6,752	0	0	181	0	0	0	21	5.9
324199	Other Petroleum and Coal Products	40	41	0	*	2	0	0	0	38	0.9
325	Chemicals	198	11,711	*	*	115	*	1	*	13	3.6
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	13	3,166	0	0	W	*	0	0	0	1.2
325181	Alkalies and Chlorine	31	W	0	*	W	*	*	0	W	0.9
325182	Carbon Black	*	W	*	0	*	*	0	0	0	0.8
325188	Other Basic Inorganic Chemicals	44	2,907	*	*	13	*	1	*	3	1.6
325192	Cyclic Crudes and Intermediates	1	W	*	*	*	*	0	0	*	0.8
325193	Ethyl Alcohol	2	47	0	*	1	*	0	0	1	0.8
325199	Other Basic Organic Chemicals	7	296	*	*	W	*	0	0	3	3.9
325211	Plastics Materials and Resins	3	W	0	*	1	*	0	0	*	3.1
325212	Synthetic Rubber	*	18	0	0	*	*	0	0	*	0.8
325222	Noncellulosic Organic Fibers	*	2	0	0	0	*	0	0	0	0.7
325311	Nitrogenous Fertilizers	66	463	0	*	63	*	*	0	*	0.9
325312	Phosphatic Fertilizers	8	584	0	*	6	*	0	0	*	0.8
3254	Pharmaceuticals and Medicines	9	1,071	0	*	5	*	0	0	*	4
325412	Pharmaceutical Preparation	5	665	0	*	3	*	0	0	*	4.1
325992	Photographic Film, Paper, Plate, and Chemicals	3	W	0	*	2	*	0	0	0	0.7
326	Plastics and Rubber Products	24	4,393	0	*	8	*	0	0	*	14.5
327	Nonmetallic Mineral Products	184	6,549	*	2	60	*	W	*	15	3.7
3272	Glass and Glass Products	24	W	*	*	16	*	0	0	1	1
327211	Flat Glass	8	W	*	*	5	*	0	0	1	0.8
327213	Glass Containers	14	W	0	*	10	*	0	0	*	0.8
327310	Cements	89	W	*	*	5	*	3	*	12	1.3
327410	Lime	15	W	*	*	1	*	0	0	2	0.9
327993	Mineral Wool	5	528	0	*	3	*	0	*	*	1.1
331	Primary Metals	107	W	0	*	38	*	*	*	17	1.6
331111	Iron and Steel Mills	34	3,676	0	*	17	*	*	*	2	2.9
331112	Electrometallurgical Ferroalloy Products	*	W	0	*	*	*	0	0	*	0.8
3312	Steel Products from Purchased Steel	2	W	0	*	1	*	0	0	*	2.6

Table 7.6 Quantity of Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Total (trillion Btu)	Electricity (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (million short tons)	Coke and Breeze (million short tons)	Other(e) (trillion Btu)	RSE Row Factors
3313	Alumina and Aluminum	W	W	0	*	8	*	0	0	W	1.5
331312	Primary Aluminum	W	W	0	*	2	*	0	0	W	0.9
3314	Nonferrous Metals, except Aluminum	18	W	0	*	8	*	0	*	*	3.8
3315	Foundries	8	W	0	*	4	*	*	*	*	2.3
331511	Iron Foundries	3	169	0	*	1	*	*	*	*	1.1
331521	Aluminum Die-Casting Foundries	1	61	0	0	*	*	0	0	*	12.7
331524	Aluminum Foundries, except Die-Casting	1	69	0	*	1	*	0	0	*	2.6
332	Fabricated Metal Products	30	4,116	0	*	15	*	0	0	Q	8.9
333	Machinery	14	2,173	0	*	6	*	0	0	*	11.9
334	Computer and Electronic Products	174	12,771	*	*	23	*	0	0	107	4.5
334413	Semiconductors and Related Devices	140	6,379	0	*	12	*	0	0	106	3.7
335	Electrical Equip., Appliances, and Components	10	912	0	*	Q	*	0	0	*	6.7
336	Transportation Equipment	36	4,733	0	*	18	*	0	0	1	13.3
336112	Light Trucks and Utility Vehicles	*	W	0	*	*	*	0	0	*	0.8
337	Furniture and Related Products	5	807	*	*	2	*	0	0	*	13.6
339	Miscellaneous	12	2,025	0	*	5	*	0	0	*	17.9
	Total	1,841	106,254	1	5	720	2	5	*	578	3

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.
(c) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.
(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'
(e) 'Other' energy sources include such combustible energy sources as wood waste, hydrogen, and waste oils and tars.
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. 'Purchases' exclude quantities that are transferred in from other establishments of the same company, quantities purchased by a central purchasing office offsite, and quantities for which payment is made in-kind.
Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Physical Units or Btu.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (million kWh)	Electricity from Local Utility(b) (million kWh)	Electricity from Sources Other than Local Utility(c) (million kWh)	Natural Gas Total (billion cu ft)	Natural Gas from Local Utility(b) (billion cu ft)	Natural Gas from Sources Other than Local Utility(c) (billion cu ft)	Steam Total (billion Btu)	Steam from Local Utility(b) (billion Btu)	Steam from Sources Other than Local Utility(c) (billion Btu)	RSE Row Factors
	Total United States										
	RSE Column Factors:	0.9	0.9	1.3	0.9	1.4	0.9	1.2	0.6	1.2	
311	Food	W	63,907	W	566	237	329	33,153	11,705	21,447	10.9
311221	Wet Corn Milling	W	6,254	W	59	5	54	6,941	W	W	1.3
31131	Sugar	733	721	12	22	6	15	3,249	0	3,249	0.9
311421	Fruit and Vegetable Canning	1,987	1,901	86	35	11	24	355	0	355	4.3
312	Beverage and Tobacco Products	7,898	7,247	652	45	18	27	4,949	0	4,949	2.5
3121	Beverages	6,504	5,853	652	41	16	25	4,949	0	4,949	2.9
3122	Tobacco	1,394	1,394	0	4	2	2	0	0	0	1
313	Textile Mills	25,387	23,915	1,472	73	46	27	12,309	W	W	8.4
314	Textile Product Mills	4,870	4,528	343	28	15	13	0	0	0	13.5
315	Apparel	3,579	3,508	71	16	13	3	0	0	0	20.9
316	Leather and Allied Products	717	711	5	4	1	3	W	0	W	8.8
321	Wood Products	21,525	20,255	1,270	56	34	22	8,643	W	W	4.6
321113	Sawmills	6,235	5,993	241	10	6	4	2,155	0	2,155	7.3
3212	Veneer, Plywood, and Engineered Woods	9,696	8,889	807	32	17	15	3,035	W	W	4.5
3219	Other Wood Products	5,284	5,064	220	11	9	2	3,453	0	3,453	10.7
322	Paper	W	64,021	W	490	118	372	58,073	17,007	41,065	3.6
322110	Pulp Mills	W	2,319	W	23	5	18	W	0	W	1.1
322121	Paper Mills, except Newsprint	24,755	20,964	3,791	200	35	165	25,791	18	25,773	2.7
322122	Newsprint Mills	10,827	10,545	282	15	4	11	6,131	W	W	1
322130	Paperboard Mills	W	17,535	W	184	38	146	25,513	15,011	10,502	4.4
323	Printing and Related Support	14,732	14,164	568	45	26	19	Q	W	W	9
324	Petroleum and Coal Products	41,280	32,608	8,672	884	88	796	89,162	4,250	84,912	2.6
324110	Petroleum Refineries	38,603	30,109	8,494	829	63	766	88,369	4,250	84,119	2.7
324199	Other Petroleum and Coal Products	430	430	0	4	2	2	412	0	412	1
325	Chemicals	160,360	128,891	31,469	2,154	252	1,902	261,437	25,728	235,709	4.9
325110	Petrochemicals	W	4,242	W	202	2	200	W	0	W	0.9
325120	Industrial Gases	W	17,817	W	64	14	50	Q	36	Q	8.7
325181	Alkalies and Chlorine	13,274	11,518	1,756	97	8	89	6,994	W	W	1.1
325182	Carbon Black	609	609	0	19	12	7	0	0	0	1
325188	Other Basic Inorganic Chemicals	W	23,430	W	74	14	60	6,831	2,416	4,415	4.1
325192	Cyclic Crudes and Intermediates	3,443	1,140	2,303	42	15	26	17,775	0	17,775	0.9
325193	Ethyl Alcohol	1,309	1,209	101	29	10	20	6,861	3,255	Q	4.1
325199	Other Basic Organic Chemicals	W	19,976	W	571	51	520	84,992	W	W	7.5
325211	Plastics Materials and Resins	W	14,490	W	318	36	282	38,330	3,289	35,041	4
325212	Synthetic Rubber	1,916	W	W	28	2	25	11,848	0	11,848	4.4
325222	Noncellulosic Organic Fibers	4,377	4,172	205	31	11	20	W	0	W	0.9
325311	Nitrogenous Fertilizers	3,502	3,387	115	471	1	470	1,297	0	1,297	0.9
325312	Phosphatic Fertilizers	2,006	1,306	700	30	6	23	292	0	292	0.9
3254	Pharmaceuticals and Medicines	10,964	9,725	1,239	60	32	28	5,317	191	5,126	6
325412	Pharmaceutical Preparation	8,498	7,553	946	39	21	18	3,879	W	W	7.8
325992	Photographic Film, Paper, Plate, and Chemicals	W	1,533	W	7	2	5	0	0	0	6.7
326	Plastics and Rubber Products	53,196	49,804	3,392	125	69	56	4,028	1,998	2,029	11.6
327	Nonmetallic Mineral Products	41,406	37,100	4,306	411	132	278	Q	7	Q	3.7

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Physical Units or Btu.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (million kWh)	Electricity from Local Utility(b) (million kWh)	Electricity from Sources Other than Local Utility(c) (million kWh)	Natural Gas Total (billion cu ft)	Natural Gas from Local Utility(b) (billion cu ft)	Natural Gas from Sources Other than Local Utility(c) (billion cu ft)	Steam Total (billion Btu)	Steam from Local Utility(b) (billion Btu)	Steam from Sources Other than Local Utility(c) (billion Btu)	RSE Row Factors
3272	Glass and Glass Products	12,213	11,376	837	149	30	119	7	7	0	2.1
327211	Flat Glass	1,842	1,710	131	51	7	44	0	0	0	1
327213	Glass Containers	3,932	3,454	477	51	6	45	0	0	0	1
327310	Cements	12,462	10,597	1,865	21	9	12	99	0	99	1.9
327410	Lime	1,353	1,353	0	7	3	5	0	0	0	1
327993	Mineral Wool	3,720	3,209	511	34	7	27	0	0	0	1.4
331	Primary Metals	W	109,953	W	686	136	550	30,627	1,949	28,678	1.5
331111	Iron and Steel Mills	54,356	48,441	5,915	406	58	348	12,779	314	12,465	2.1
331112	Electrometallurgical Ferroalloy Products	3,555	W	W	7	*	7	W	0	W	1.3
3312	Steel Products from Purchased Steel	4,611	3,822	790	23	10	13	9	9	0	4.5
3313	Alumina and Aluminum	W	31,140	W	132	20	112	16,566	W	W	1.6
331312	Primary Aluminum	W	26,089	W	19	1	18	W	0	W	1.1
3314	Nonferrous Metals, except Aluminum	W	W	W	43	19	24	287	0	287	6
3315	Foundries	15,896	15,243	653	75	28	47	207	1	206	3.9
331511	Iron Foundries	8,214	7,793	421	27	12	15	206	0	206	5.4
331521	Aluminum Die-Casting Foundries	1,897	1,861	36	16	4	11	0	0	0	3.5
331524	Aluminum Foundries, except Die-Casting	1,350	1,294	56	14	5	9	0	0	0	3.6
332	Fabricated Metal Products	47,121	45,249	1,871	204	131	74	W	Q	W	15.9
333	Machinery	24,487	22,591	1,895	80	41	39	1,747	768	Q	8.8
334	Computer and Electronic Products	38,428	34,821	3,607	64	40	24	1,472	368	1,104	15.7
334413	Semiconductors and Related Devices	13,027	11,407	1,620	21	13	8	Q	37	Q	3.9
335	Electrical Equip., Appliances, and Components	W	13,092	W	52	26	26	518	335	183	8
336	Transportation Equipment	W	47,298	W	196	104	92	6,800	W	W	5.8
336112	Light Trucks and Utility Vehicles	4,889	4,889	0	35	W	W	1,655	0	1,655	1
337	Furniture and Related Products	7,112	6,656	456	24	16	8	825	0	825	12.9
339	Miscellaneous	10,371	9,601	770	31	23	8	665	W	W	10.2
	Total	844,583	739,921	104,662	6,234	1,550	4,684	515,893	68,010	447,883	3.6
	Northeast Census Region										
	RSE Column Factors:	1.3	1.4	1.6	1.2	1.9	1	0.6	0.5	0.5	
311	Food	6,570	5,988	582	54	23	31	Q	Q	Q	11.1
311221	Wet Corn Milling	W	W	0	0	0	0	0	0	0	0.7
31131	Sugar	W	W	0	W	1	W	0	0	0	0.7
311421	Fruit and Vegetable Canning	343	318	25	3	2	1	114	0	114	4
312	Beverage and Tobacco Products	W	W	W	7	2	5	W	0	W	4.1
3121	Beverages	W	W	W	7	2	5	W	0	W	4.1
3122	Tobacco	W	W	0	*	*	*	0	0	0	0.7
313	Textile Mills	1,340	1,038	302	13	8	5	0	0	0	15.5
314	Textile Product Mills	425	399	25	2	1	1	0	0	0	7.3
315	Apparel	567	550	Q	4	4	*	0	0	0	22.3
316	Leather and Allied Products	111	110	*	1	*	1	0	0	0	9.6
321	Wood Products	1,390	1,163	227	4	2	2	Q	0	Q	6.3
321113	Sawmills	380	364	16	*	*	*	0	0	0	12.3
3212	Veneer, Plywood, and Engineered Woods	316	278	38	2	1	1	0	0	0	6.3
3219	Other Wood Products	682	510	172	2	1	1	Q	0	Q	8.2

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Physical Units or Btu.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (million kWh)	Electricity from Local Utility(b) (million kWh)	Electricity from Sources Other than Local Utility(c) (million kWh)	Natural Gas Total (billion cu ft)	Natural Gas from Local Utility(b) (billion cu ft)	Natural Gas from Sources Other than Local Utility(c) (billion cu ft)	Steam Total (billion Btu)	Steam from Local Utility(b) (billion Btu)	Steam from Sources Other than Local Utility(c) (billion Btu)	RSE Row Factors
322	Paper	W	7,242	W	72	14	57	22,444	407	22,037	4.8
322110	Pulp Mills	W	0	W	*	*	*	0	0	0	2.1
322121	Paper Mills, except Newsprint	W	3,004	W	46	4	42	19,858	0	19,858	3.1
322122	Newsprint Mills	W	W	0	0	0	0	0	0	0	0.7
322130	Paperboard Mills	985	624	361	14	4	10	2,586	407	2,179	3.5
323	Printing and Related Support	3,164	3,004	160	11	7	5	0	0	0	13.2
324	Petroleum and Coal Products	3,326	3,158	167	44	4	40	W	0	W	2.7
324110	Petroleum Refineries	2,808	2,678	130	36	1	34	W	0	W	1.1
324199	Other Petroleum and Coal Products	71	71	0	*	*	*	0	0	0	0.7
325	Chemicals	12,721	9,501	3,220	71	33	38	15,338	956	14,382	4.9
325110	Petrochemicals	19	19	0	*	*	0	0	0	0	1.2
325120	Industrial Gases	1,961	1,630	331	1	1	*	W	0	W	1.1
325181	Alkalies and Chlorine	W	W	W	*	*	*	W	0	W	0.9
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	887	W	6	1	5	Q	219	Q	2.5
325192	Cyclic Crudes and Intermediates	205	W	W	W	4	W	W	0	W	0.9
325193	Ethyl Alcohol	*	*	0	*	*	0	0	0	0	0.7
325199	Other Basic Organic Chemicals	772	492	280	W	2	W	5,365	0	5,365	4.7
325211	Plastics Materials and Resins	W	624	W	6	2	4	2,972	W	W	14.1
325212	Synthetic Rubber	50	50	0	*	*	0	288	0	288	0.9
325222	Noncellulosic Organic Fibers	W	22	W	*	*	0	0	0	0	2.9
325311	Nitrogenous Fertilizers	74	50	24	1	0	1	0	0	0	0.8
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	3,038	2,478	560	30	18	11	1,109	W	W	4.3
325412	Pharmaceutical Preparation	2,328	1,812	515	20	11	9	W	W	W	5.1
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	3	*	3	0	0	0	15.5
326	Plastics and Rubber Products	7,560	6,435	1,125	14	5	9	W	0	W	5.6
327	Nonmetallic Mineral Products	6,608	5,654	954	62	13	49	Q	0	Q	6.2
3272	Glass and Glass Products	W	1,768	W	29	6	24	0	0	0	3.8
327211	Flat Glass	W	267	W	9	0	9	0	0	0	0.8
327213	Glass Containers	W	W	W	10	4	6	0	0	0	0.7
327310	Cements	W	1,582	W	*	*	*	0	0	0	0.7
327410	Lime	W	W	0	*	*	*	0	0	0	0.7
327993	Mineral Wool	346	252	94	3	*	2	0	0	0	3.3
331	Primary Metals	15,135	9,498	5,637	67	22	45	W	314	W	1.7
331111	Iron and Steel Mills	6,072	5,524	548	37	16	21	314	314	0	2.5
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	*	*	0	0	0	0.7
3312	Steel Products from Purchased Steel	W	472	W	3	1	2	0	0	0	6.6
3313	Alumina and Aluminum	W	516	W	11	*	10	0	0	0	2
331312	Primary Aluminum	W	*	W	1	*	1	0	0	0	0.7
3314	Nonferrous Metals, except Aluminum	W	W	W	8	1	7	W	0	W	4
3315	Foundries	W	1,239	W	7	2	5	0	0	0	1.9
331511	Iron Foundries	607	598	9	3	*	2	0	0	0	1.3
331521	Aluminum Die-Casting Foundries	52	52	0	*	*	*	0	0	0	4.8
331524	Aluminum Foundries, except Die-Casting	209	205	3	2	1	1	0	0	0	1.1
332	Fabricated Metal Products	6,456	5,954	502	28	14	14	W	0	W	13.9
333	Machinery	3,685	3,077	608	12	5	7	1	0	1	7

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Physical Units or Btu.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (million kWh)	Electricity from Local Utility(b) (million kWh)	Electricity from Sources Other than Local Utility(c) (million kWh)	Natural Gas Total (billion cu ft)	Natural Gas from Local Utility(b) (billion cu ft)	Natural Gas from Sources Other than Local Utility(c) (billion cu ft)	Steam Total (billion Btu)	Steam from Local Utility(b) (billion Btu)	Steam from Sources Other than Local Utility(c) (billion Btu)	RSE Row Factors
334	Computer and Electronic Products	11,184	9,869	1,315	20	12	9	Q	W	W	14.3
334413	Semiconductors and Related Devices	2,390	1,789	601	5	2	3	Q	37	Q	2.2
335	Electrical Equip., Appliances, and Components	W	1,922	W	10	4	5	W	0	W	22.4
336	Transportation Equipment	4,049	3,136	913	20	11	8	1,648	0	1,648	4.8
336112	Light Trucks and Utility Vehicles	W	W	0	1	*	1	W	0	W	1
337	Furniture and Related Products	831	W	W	3	2	1	Q	0	Q	12
339	Miscellaneous	2,519	2,322	197	9	6	4	665	W	W	15
	Total	100,138	81,599	18,539	527	191	336	53,880	2,039	51,841	4.6
	Midwest Census Region										
	RSE Column Factors:	1	1	1.2	1.2	1.5	1	0.9	0.8	0.7	
311	Food	W	26,369	W	245	88	157	19,733	11,487	Q	12.1
311221	Wet Corn Milling	5,955	W	W	51	4	47	W	W	0	1
31131	Sugar	379	379	0	5	1	3	0	0	0	0.9
311421	Fruit and Vegetable Canning	397	370	27	5	3	2	242	0	242	2.3
312	Beverage and Tobacco Products	1,392	W	W	10	3	7	0	0	0	9
3121	Beverages	W	W	W	10	3	7	0	0	0	9
3122	Tobacco	W	W	0	*	*	0	0	0	0	0.9
313	Textile Mills	313	313	0	1	1	1	0	0	0	12
314	Textile Product Mills	307	293	13	1	1	*	0	0	0	19
315	Apparel	184	163	21	1	*	*	0	0	0	17.4
316	Leather and Allied Products	428	423	5	3	*	2	W	0	W	11.9
321	Wood Products	3,127	3,008	119	12	9	4	1,299	0	1,299	7.8
321113	Sawmills	428	418	9	1	1	*	320	0	320	7.3
3212	Veneer, Plywood, and Engineered Woods	1,103	1,010	93	6	4	2	324	0	324	6.1
3219	Other Wood Products	1,558	1,542	Q	5	4	1	655	0	655	14.1
322	Paper	W	14,704	W	97	31	66	14,183	12,110	2,073	6.7
322110	Pulp Mills	W	W	0	2	2	*	W	0	W	1
322121	Paper Mills, except Newsprint	W	7,807	W	51	13	38	1,662	18	1,644	4.1
322122	Newsprint Mills	W	W	0	*	*	*	W	W	0	1
322130	Paperboard Mills	2,432	2,408	24	21	4	17	W	Q	W	2.8
323	Printing and Related Support	5,171	4,907	265	14	6	9	W	W	W	11.8
324	Petroleum and Coal Products	6,860	6,575	284	97	18	79	3,316	W	W	3.8
324110	Petroleum Refineries	6,149	5,953	196	79	5	74	2,709	W	W	1.9
324199	Other Petroleum and Coal Products	60	60	0	*	*	*	412	0	412	1
325	Chemicals	29,403	24,529	4,874	241	49	192	Q	3,791	Q	2.9
325110	Petrochemicals	W	10	W	2	0	2	0	0	0	1
325120	Industrial Gases	6,276	5,481	796	W	1	W	Q	36	Q	1.9
325181	Alkalies and Chlorine	W	254	W	1	*	1	2	2	0	3.7
325182	Carbon Black	W	W	0	1	*	1	0	0	0	0.9
325188	Other Basic Inorganic Chemicals	2,122	1,761	361	19	6	12	1,765	97	1,668	4.9
325192	Cyclic Crudes and Intermediates	W	W	0	W	1	W	0	0	0	0.9
325193	Ethyl Alcohol	1,251	1,150	101	28	9	19	W	W	Q	4.1
325199	Other Basic Organic Chemicals	4,081	2,306	1,775	20	5	15	12,603	538	12,065	3.3
325211	Plastics Materials and Resins	4,322	3,418	904	20	11	9	6,937	703	6,234	2.9

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Physical Units or Btu.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (million kWh)	Electricity from Local Utility(b) (million kWh)	Electricity from Sources Other than Local Utility(c) (million kWh)	Natural Gas Total (billion cu ft)	Natural Gas from Local Utility(b) (billion cu ft)	Natural Gas from Sources Other than Local Utility(c) (billion cu ft)	Steam Total (billion Btu)	Steam from Local Utility(b) (billion Btu)	Steam from Sources Other than Local Utility(c) (billion Btu)	RSE Row Factors
325212	Synthetic Rubber	W	W	0	1	*	1	0	0	0	3.7
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	1,071	998	73	81	*	80	W	0	W	1
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	4,114	3,883	232	17	6	11	755	0	755	3.7
325412	Pharmaceutical Preparation	3,637	3,532	105	12	5	7	0	0	0	3.7
325992	Photographic Film, Paper, Plate, and Chemicals	W	93	W	*	*	*	0	0	0	3.5
326	Plastics and Rubber Products	19,789	18,699	1,090	47	24	22	1,327	1,327	0	16.4
327	Nonmetallic Mineral Products	10,689	10,039	650	109	28	81	0	0	0	4.8
3272	Glass and Glass Products	3,618	3,522	96	43	4	39	0	0	0	3.2
327211	Flat Glass	W	W	0	16	W	W	0	0	0	0.9
327213	Glass Containers	W	W	82	13	*	13	0	0	0	0.9
327310	Cements	3,050	2,647	402	5	1	4	0	0	0	1.9
327410	Lime	487	487	0	4	1	3	0	0	0	0.9
327993	Mineral Wool	1,427	1,427	0	13	2	11	0	0	0	1
331	Primary Metals	W	41,143	W	353	39	314	14,210	1,626	12,584	2
331111	Iron and Steel Mills	22,772	19,651	3,121	245	11	234	11,553	0	11,553	2.1
331112	Electrometallurgical Ferroalloy Products	2,337	2,337	0	6	*	6	W	0	W	1
3312	Steel Products from Purchased Steel	2,160	1,723	437	14	7	7	0	0	0	5.1
3313	Alumina and Aluminum	W	5,707	W	30	6	24	W	W	0	2.1
331312	Primary Aluminum	W	4,300	W	5	*	5	0	0	0	0.9
3314	Nonferrous Metals, except Aluminum	W	2,357	W	13	5	8	W	0	W	3.1
3315	Foundries	9,810	9,368	442	46	11	34	207	1	206	4.9
331511	Iron Foundries	5,634	5,330	304	16	5	11	206	0	206	7
331521	Aluminum Die-Casting Foundries	1,510	1,485	25	12	2	9	0	0	0	2.8
331524	Aluminum Foundries, except Die-Casting	828	777	51	8	2	6	0	0	0	5
332	Fabricated Metal Products	21,309	20,331	978	98	60	38	Q	0	Q	27.2
333	Machinery	11,513	10,729	785	46	18	27	1,736	768	Q	11.7
334	Computer and Electronic Products	5,270	4,809	462	13	9	4	W	0	W	6.2
334413	Semiconductors and Related Devices	594	594	0	1	1	1	0	0	0	2.3
335	Electrical Equip., Appliances, and Components	4,949	4,649	300	18	8	11	W	229	W	4.6
336	Transportation Equipment	W	26,110	W	116	46	71	3,954	W	W	9.2
336112	Light Trucks and Utility Vehicles	W	W	0	23	W	W	W	0	W	1
337	Furniture and Related Products	2,294	W	W	11	5	6	0	0	0	10.7
339	Miscellaneous	2,786	2,427	Q	9	6	3	0	0	0	12.9
	Total	247,463	223,595	23,868	1,542	450	1,092	140,127	34,388	105,739	7.4
	South Census Region										
	RSE Column Factors:	1.1	1.1	1.3	1.1	1.5	1	1	0.3	1	
311	Food	23,096	22,596	Q	165	92	73	3,479	0	3,479	13.8
311221	Wet Corn Milling	1,070	1,070	0	5	W	W	W	0	W	0.9
31131	Sugar	210	198	12	W	W	7	0	0	0	0.8
311421	Fruit and Vegetable Canning	541	541	0	10	4	6	0	0	0	9.3
312	Beverage and Tobacco Products	3,632	3,507	125	18	10	8	0	0	0	4.1
3121	Beverages	2,278	2,153	125	15	8	6	0	0	0	5.3

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Physical Units or Btu.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (million kWh)	Electricity from Local Utility(b) (million kWh)	Electricity from Sources Other than Local Utility(c) (million kWh)	Natural Gas Total (billion cu ft)	Natural Gas from Local Utility(b) (billion cu ft)	Natural Gas from Sources Other than Local Utility(c) (billion cu ft)	Steam Total (billion Btu)	Steam from Local Utility(b) (billion Btu)	Steam from Sources Other than Local Utility(c) (billion Btu)	RSE Row Factors
3122	Tobacco	1,354	1,354	0	3	2	2	0	0	0	0.8
313	Textile Mills	22,798	21,654	1,144	51	32	19	W	W	W	9.1
314	Textile Product Mills	3,924	3,629	295	23	11	12	0	0	0	14
315	Apparel	1,956	1,923	Q	7	4	2	0	0	0	18.5
316	Leather and Allied Products	143	143	0	*	*	*	0	0	0	9.3
321	Wood Products	W	11,052	W	25	16	9	3,435	0	3,435	9.1
321113	Sawmills	W	3,043	W	3	2	2	999	0	999	9.5
3212	Veneer, Plywood, and Engineered Woods	5,985	5,652	332	17	11	6	478	0	478	8.7
3219	Other Wood Products	2,168	2,165	Q	3	3	*	Q	0	Q	6.2
322	Paper	W	29,357	W	237	62	175	14,311	Q	10,654	3.2
322110	Pulp Mills	W	W	0	18	3	16	0	0	0	0.8
322121	Paper Mills, except Newsprint	W	7,632	W	77	17	61	1,878	0	1,878	3.3
322122	Newsprint Mills	4,866	4,584	282	10	W	W	W	0	W	0.9
322130	Paperboard Mills	W	10,801	W	106	26	80	11,721	W	W	3.8
323	Printing and Related Support	4,527	4,423	104	11	8	4	W	W	0	7.2
324	Petroleum and Coal Products	23,956	17,537	6,419	552	39	513	65,561	W	W	2.6
324110	Petroleum Refineries	22,895	16,505	6,389	533	33	500	65,498	W	W	2.7
324199	Other Petroleum and Coal Products	258	258	0	2	1	1	0	0	0	1.1
325	Chemicals	106,525	84,101	22,424	1,727	151	1,577	162,814	19,517	143,297	4.4
325110	Petrochemicals	W	4,213	W	200	2	198	W	0	W	0.9
325120	Industrial Gases	W	7,986	W	54	11	43	W	0	W	4.7
325181	Alkalies and Chlorine	9,602	8,793	809	W	1	W	W	W	0	1
325182	Carbon Black	W	W	0	18	12	6	0	0	0	0.8
325188	Other Basic Inorganic Chemicals	W	17,961	W	36	4	32	3,283	W	W	4.3
325192	Cyclic Crudes and Intermediates	2,980	W	W	31	11	20	W	0	W	0.9
325193	Ethyl Alcohol	12	12	0	*	*	0	0	0	0	0.8
325199	Other Basic Organic Chemicals	W	16,979	W	541	45	496	65,929	W	W	9.2
325211	Plastics Materials and Resins	W	10,117	W	291	22	268	28,421	W	W	4.8
325212	Synthetic Rubber	W	1,350	W	26	2	24	11,561	0	11,561	4.3
325222	Noncellulosic Organic Fibers	W	4,148	W	31	11	20	W	0	W	0.9
325311	Nitrogenous Fertilizers	1,894	1,890	3	326	1	325	W	0	W	0.9
325312	Phosphatic Fertilizers	1,422	722	700	24	3	21	292	0	292	0.9
3254	Pharmaceuticals and Medicines	2,740	2,487	253	8	5	3	3,452	W	W	7.4
325412	Pharmaceutical Preparation	1,868	1,709	159	4	3	1	W	0	W	11.8
325992	Photographic Film, Paper, Plate, and Chemicals	W	741	W	2	1	1	0	0	0	5.4
326	Plastics and Rubber Products	21,454	20,529	926	56	34	22	W	672	W	14.1
327	Nonmetallic Mineral Products	17,561	16,648	913	180	81	99	106	7	99	4.1
3272	Glass and Glass Products	5,075	4,889	186	60	20	41	7	7	0	3.1
327211	Flat Glass	840	840	0	21	W	W	0	0	0	0.8
327213	Glass Containers	1,233	1,116	116	18	1	17	0	0	0	0.8
327310	Cements	4,839	4,591	248	10	6	5	99	0	99	3.4
327410	Lime	575	575	0	3	1	2	0	0	0	0.8
327993	Mineral Wool	1,418	1,307	112	14	4	10	0	0	0	1.5
331	Primary Metals	W	52,705	W	227	65	163	W	9	W	1.8
331111	Iron and Steel Mills	21,837	21,109	728	107	31	76	0	0	0	1.3
331112	Electrometallurgical Ferroalloy Products	W	319	W	*	*	*	0	0	0	4.2
3312	Steel Products from Purchased Steel	W	1,471	W	5	3	2	9	9	0	7.3

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Physical Units or Btu.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (million kWh)	Electricity from Local Utility(b) (million kWh)	Electricity from Sources Other than Local Utility(c) (million kWh)	Natural Gas Total (billion cu ft)	Natural Gas from Local Utility(b) (billion cu ft)	Natural Gas from Sources Other than Local Utility(c) (billion cu ft)	Steam Total (billion Btu)	Steam from Local Utility(b) (billion Btu)	Steam from Sources Other than Local Utility(c) (billion Btu)	RSE Row Factors
3313	Alumina and Aluminum	W	23,234	W	83	12	71	W	*	W	1.8
331312	Primary Aluminum	W	20,653	W	11	1	10	W	0	W	0.9
3314	Nonferrous Metals, except Aluminum	3,205	2,638	568	14	6	8	0	0	0	5.2
3315	Foundries	4,079	3,935	145	18	12	6	0	0	0	2.5
331511	Iron Foundries	1,804	1,713	Q	7	7	1	0	0	0	1.8
331521	Aluminum Die-Casting Foundries	274	267	8	3	2	2	0	0	0	4.3
331524	Aluminum Foundries, except Die-Casting	244	242	Q	3	1	2	0	0	0	2.3
332	Fabricated Metal Products	15,240	15,097	Q	64	47	17	0	0	0	13.5
333	Machinery	7,116	6,854	Q	16	14	3	Q	0	Q	12
334	Computer and Electronic Products	9,202	8,683	519	8	5	3	W	W	0	4.9
334413	Semiconductors and Related Devices	3,664	3,156	508	3	2	2	0	0	0	2.4
335	Electrical Equip., Appliances, and Components	6,026	5,618	408	18	9	9	0	0	0	9.6
336	Transportation Equipment	14,164	13,971	Q	43	23	20	1,198	0	1,198	3.2
336112	Light Trucks and Utility Vehicles	W	W	0	11	1	9	1,198	0	1,198	0.9
337	Furniture and Related Products	3,181	3,102	Q	8	7	Q	813	0	813	18.2
339	Miscellaneous	3,041	2,997	44	8	7	*	0	0	0	12.4
	Total	390,727	346,125	44,602	3,445	719	2,726	281,143	28,433	252,710	2.9
	West Census Region										
	RSE Column Factors:	1.2	1.3	0.7	1.3	1.5	0.9	0.9	0.6	1	
311	Food	W	8,954	W	102	34	68	6,838	0	6,838	14.7
311221	Wet Corn Milling	W	W	0	4	W	W	0	0	0	4.9
31131	Sugar	W	W	0	W	W	W	3,249	0	3,249	0.9
311421	Fruit and Vegetable Canning	706	672	34	17	3	14	0	0	0	13.1
312	Beverage and Tobacco Products	W	W	W	9	3	7	W	0	W	3.2
3121	Beverages	W	W	W	9	3	7	W	0	W	3.2
3122	Tobacco	*	*	0	0	0	0	0	0	0	0.8
313	Textile Mills	936	910	27	Q	Q	2	W	W	0	6.1
314	Textile Product Mills	215	206	9	1	1	*	0	0	0	7.6
315	Apparel	872	872	0	50	Q	Q	0	0	0	12.5
316	Leather and Allied Products	36	36	0	*	*	0	0	0	0	28.7
321	Wood Products	W	5,032	W	15	8	7	3,889	W	W	5.7
321113	Sawmills	W	2,168	W	6	4	2	836	0	836	5.7
3212	Veneer, Plywood, and Engineered Woods	2,293	1,949	344	7	2	5	2,233	W	W	3.7
3219	Other Wood Products	876	847	29	2	1	*	Q	0	Q	10.3
322	Paper	W	12,718	W	85	12	73	7,135	833	6,302	3.8
322110	Pulp Mills	402	294	108	3	1	2	0	0	0	0.9
322121	Paper Mills, except Newsprint	3,583	2,521	1,062	25	1	24	2,394	0	2,394	2.3
322122	Newsprint Mills	4,756	4,756	0	5	W	W	3,908	0	3,908	0.9
322130	Paperboard Mills	W	3,703	W	42	4	38	W	W	0	1.4
323	Printing and Related Support	1,870	1,831	39	8	6	2	0	0	0	19.1
324	Petroleum and Coal Products	7,139	5,337	1,801	192	27	165	W	0	W	5
324110	Petroleum Refineries	6,752	4,973	1,779	181	23	158	W	0	W	5
324199	Other Petroleum and Coal Products	41	41	0	2	1	1	0	0	0	0.8
325	Chemicals	11,711	10,759	952	115	20	96	4,615	1,463	3,152	2.6

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Physical Units or Btu.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	Subsector and Industry	Electricity Total (million kWh)	Electricity from Local Utility(b) (million kWh)	Electricity from Sources Other than Local Utility(c) (million kWh)	Natural Gas Total (billion cu ft)	Natural Gas from Local Utility(b) (billion cu ft)	Natural Gas from Sources Other than Local Utility(c) (billion cu ft)	Steam Total (billion Btu)	Steam from Local Utility(b) (billion Btu)	Steam from Sources Other than Local Utility(c) (billion Btu)	RSE Row Factors
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	3,166	2,721	445	W	1	W	0	0	0	2
325181	Alkalies and Chlorine	W	W	0	W	7	W	1,424	0	1,424	0.9
325182	Carbon Black	W	W	0	*	*	0	0	0	0	0.8
325188	Other Basic Inorganic Chemicals	2,907	2,822	84	13	2	11	886	W	W	2.7
325192	Cyclic Crudes and Intermediates	W	W	0	*	*	0	0	0	0	0.8
325193	Ethyl Alcohol	47	47	0	1	1	1	W	W	0	1
325199	Other Basic Organic Chemicals	296	199	97	W	*	W	1,094	0	1,094	3.6
325211	Plastics Materials and Resins	W	331	W	1	1	1	0	0	0	9.1
325212	Synthetic Rubber	18	18	0	*	*	0	0	0	0	0.8
325222	Noncellulosic Organic Fibers	2	2	0	0	0	0	0	0	0	0.8
325311	Nitrogenous Fertilizers	463	449	14	63	*	63	0	0	0	0.9
325312	Phosphatic Fertilizers	584	584	0	6	4	2	0	0	0	0.8
3254	Pharmaceuticals and Medicines	1,071	877	194	5	3	2	0	0	0	2.4
325412	Pharmaceutical Preparation	665	499	166	3	2	1	0	0	0	2.6
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	2	*	2	0	0	0	0.8
326	Plastics and Rubber Products	4,393	4,142	251	8	5	4	0	0	0	12.6
327	Nonmetallic Mineral Products	6,549	4,760	1,789	60	10	50	0	0	0	4.5
3272	Glass and Glass Products	W	1,197	W	16	1	15	0	0	0	1.6
327211	Flat Glass	W	W	W	5	*	5	0	0	0	0.9
327213	Glass Containers	W	827	W	10	1	10	0	0	0	0.9
327310	Cements	W	1,777	W	5	2	3	0	0	0	1
327410	Lime	W	W	0	1	1	0	0	0	0	0.8
327993	Mineral Wool	528	223	305	3	1	2	0	0	0	1.4
331	Primary Metals	W	6,607	W	38	10	28	1,052	0	1,052	2.4
331111	Iron and Steel Mills	3,676	2,157	1,518	17	*	17	913	0	913	1.3
331112	Electrometallurgical Ferroalloy Products	W	W	0	*	*	*	0	0	0	0.8
3312	Steel Products from Purchased Steel	W	156	W	1	*	1	0	0	0	6.3
3313	Alumina and Aluminum	W	1,682	W	8	1	7	0	0	0	2.6
331312	Primary Aluminum	W	1,136	W	2	*	2	0	0	0	2
3314	Nonferrous Metals, except Aluminum	W	1,894	W	8	6	2	139	0	139	8.6
3315	Foundries	W	702	W	4	2	2	0	0	0	2
331511	Iron Foundries	169	152	17	1	*	1	0	0	0	1.1
331521	Aluminum Die-Casting Foundries	61	57	3	*	*	*	0	0	0	4.8
331524	Aluminum Foundries, except Die-Casting	69	69	0	1	1	*	0	0	0	4.1
332	Fabricated Metal Products	4,116	3,868	247	15	10	5	Q	Q	0	12.2
333	Machinery	2,173	1,932	241	6	4	2	0	0	0	14.3
334	Computer and Electronic Products	12,771	11,460	1,311	23	15	8	Q	Q	0	10.7
334413	Semiconductors and Related Devices	6,379	5,867	512	12	9	3	0	0	0	6.2
335	Electrical Equip., Appliances, and Components	912	902	10	6	Q	1	159	106	52	4.8
336	Transportation Equipment	4,733	4,082	651	18	7	11	0	0	0	11.3
336112	Light Trucks and Utility Vehicles	W	W	0	*	*	0	0	0	0	0.8
337	Furniture and Related Products	807	W	W	2	2	*	0	0	0	8.6
339	Miscellaneous	2,025	1,856	170	5	4	1	0	0	0	17.4
	Total	106,254	88,602	17,652	720	190	530	40,743	3,150	37,593	4.6

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Physical Units or Btu.

			Electricity Components			Natural Gas Components			Steam Components		
NAICS Code(a)	**Subsector and Industry**	**Electricity Total (million kWh)**	**Electricity from Local Utility(b) (million kWh)**	**Electricity from Sources Other than Local Utility(c) (million kWh)**	**Natural Gas Total (billion cu ft)**	**Natural Gas from Local Utility(b) (billion cu ft)**	**Natural Gas from Sources Other than Local Utility(c) (billion cu ft)**	**Steam Total (billion Btu)**	**Steam from Local Utility(b) (billion Btu)**	**Steam from Sources Other than Local Utility(c) (billion Btu)**	**RSE Row Factors**

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) A 'Local Utility' is an entity that produces and/or delivers a particular energy source (for example, electricity, natural gas, steam) and is legally obligated to provide service to the general public within its franchise area.
(c) 'Sources Other than Local Utility' include independent producers, brokers, marketers, and marketing subsidiaries of utilities; for the case of electricity sources, also include small power producers and cogenerators not located at the establishment site.
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.
Purchased energy sources exclude quantities delivered from any other establishment(s) in the company, quantities transferred from other establishments of the company for which payment was not made, quantities purchased centrally within the company but separate from the reporting establishment, and quantities for which payment was made in-kind.
Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'

Table 7.8 Number of Establishments by Quantity of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Establishment Counts.

			Electricity Components				Natural Gas Components				Steam Components			
NAICS Code(a)	Subsector and Industry	Any Electricity(b)	Electricity from Only Local Utility(c)	Electricity from Only Sources Other than Local Utility(d)	Electricity from Both Local Utility and Other Sources	Any Natural Gas(b)	Natural Gas from Only Local Utility(c)	Natural Gas from Only Sources Other than Local Utility(d)	Natural Gas from Both Local Utility and Other Sources	Any Steam(b)	Steam from Only Local Utility(c)	Steam from Only Sources Other than Local Utility(d)	Steam from Both Local Utility and Other Sources	RSE Row Factors
	Total United States													
	RSE Column Factors:	0.7	0.7	1.5	1.4	0.9	1.1	1.2	1.6	1.2	0.8	1.3	0.4	
311	Food	15,045	14,253	537	255	12,106	9,202	2,421	483	207	26	181	0	8.4
311221	Wet Corn Milling	49	48	W	0	47	W	30	W	6	W	W	0	0.9
31131	Sugar	77	74	W	0	63	32	26	6	W	0	W	0	0.9
311421	Fruit and Vegetable Canning	468	454	4	10	416	243	101	72	W	0	W	0	3.2
312	Beverage and Tobacco Products	1,592	1,551	28	12	1,132	930	176	26	3	0	3	0	6.7
3121	Beverages	1,514	1,473	28	12	1,075	892	W	W	3	0	3	0	6.9
3122	Tobacco	78	78	0	0	57	38	W	W	0	0	0	0	1
313	Textile Mills	2,247	2,182	41	24	1,388	927	328	133	W	W	W	0	5.5
314	Textile Product Mills	3,456	3,371	W	W	2,245	2,168	W	W	0	0	0	0	9.6
315	Apparel	5,500	5,222	278	0	3,014	2,624	363	28	0	0	0	0	7.6
316	Leather and Allied Products	699	696	W	W	568	485	W	W	W	0	W	0	4.3
321	Wood Products	10,458	10,103	275	80	4,593	4,342	198	53	101	W	W	0	2.9
321113	Sawmills	2,207	2,070	128	8	469	407	53	9	13	0	13	0	5
3212	Veneer, Plywood, and Engineered Woods	1,478	1,444	W	W	774	667	90	18	40	W	W	0	4.6
3219	Other Wood Products	6,461	6,279	113	69	3,153	3,101	29	24	48	0	48	0	3.1
322	Paper	4,256	3,957	210	89	3,480	2,715	670	94	56	19	37	0	2.9
322110	Pulp Mills	34	29	W	W	26	9	12	4	W	0	W	0	1
322121	Paper Mills, except Newsprint	322	258	33	31	266	93	159	13	28	W	W	0	9.6
322122	Newsprint Mills	21	W	W	0	16	6	W	W	W	W	W	0	0.9
322130	Paperboard Mills	210	192	10	8	185	86	88	10	19	12	8	0	2.2
323	Printing and Related Support	20,126	19,871	241	14	13,304	12,843	432	29	49	W	W	0	9.6
324	Petroleum and Coal Products	1,913	1,770	135	8	1,408	755	618	34	34	3	31	0	5.7
324110	Petroleum Refineries	215	195	14	7	197	58	128	11	27	3	24	0	1.4
324199	Other Petroleum and Coal Products	44	44	0	0	30	19	W	W	W	0	W	0	1
325	Chemicals	8,906	8,164	605	137	6,759	5,125	1,456	178	436	49	383	3	2.5
325110	Petrochemicals	37	W	W	W	31	7	24	0	4	0	4	0	0.9
325120	Industrial Gases	527	423	91	13	179	163	W	W	44	W	W	0	6.4
325181	Alkalies and Chlorine	33	25	W	W	29	6	W	W	5	W	W	0	0.9
325182	Carbon Black	22	22	0	0	22	15	7	0	0	0	0	0	1.1
325188	Other Basic Inorganic Chemicals	514	463	45	7	316	147	144	25	50	6	44	0	9.3
325192	Cyclic Crudes and Intermediates	37	31	W	W	36	21	W	W	8	0	8	0	0.9
325193	Ethyl Alcohol	48	47	W	0	46	18	W	W	15	W	W	0	1.1
325199	Other Basic Organic Chemicals	576	484	82	10	479	228	222	29	83	W	77	W	1.5
325211	Plastics Materials and Resins	709	674	29	5	587	472	111	3	54	5	49	0	1.3
325212	Synthetic Rubber	125	123	W	0	103	61	42	0	9	0	9	0	1.8
325222	Noncellulosic Organic Fibers	64	58	W	W	50	36	10	4	4	0	4	0	0.9
325311	Nitrogenous Fertilizers	56	50	W	W	44	12	W	W	4	0	4	0	0.9
325312	Phosphatic Fertilizers	27	W	W	0	21	12	W	W	W	0	W	0	0.9
3254	Pharmaceuticals and Medicines	1,143	1,101	19	23	917	799	98	20	23	W	W	W	3.3
325412	Pharmaceutical Preparation	606	592	3	11	507	435	55	16	16	W	W	0	4.9
325992	Photographic Film, Paper, Plate, and Chemicals	171	169	W	0	162	104	43	Q	0	0	0	0	4
326	Plastics and Rubber Products	10,538	10,275	187	75	8,022	6,869	1,018	135	7	3	4	0	1.9
327	Nonmetallic Mineral Products	11,428	10,788	476	164	7,328	6,310	945	72	Q	Q	10	0	8.1
3272	Glass and Glass Products	1,046	993	37	15	979	668	290	21	W	W	0	0	6.6
327211	Flat Glass	38	34	W	W	38	7	W	W	0	0	0	0	0.9
327213	Glass Containers	61	51	10	0	61	7	49	4	0	0	0	0	0.9
327310	Cements	194	168	10	16	136	81	W	W	W	0	W	0	1.4
327410	Lime	65	65	0	0	44	23	W	W	0	0	0	0	1
327993	Mineral Wool	205	195	W	W	183	147	36	0	0	0	0	0	6.9
331	Primary Metals	4,166	3,946	169	52	3,602	2,366	1,058	178	23	6	17	0	2.5
331111	Iron and Steel Mills	771	747	10	14	448	269	165	14	7	W	W	0	3.3
331112	Electrometallurgical Ferroalloy Products	15	W	W	0	15	6	9	0	W	0	W	0	1
3312	Steel Products from Purchased Steel	548	499	45	5	506	319	140	47	W	W	0	0	2.9
3313	Alumina and Aluminum	446	411	22	13	423	271	132	20	6	W	W	0	3.3
331312	Primary Aluminum	41	29	W	W	41	12	29	0	W	0	W	0	2
3314	Nonferrous Metals, except Aluminum	671	654	14	3	629	448	164	17	4	0	4	0	2.4

Table 7.8 Number of Establishments by Quantity of Purchased Electricity, Natural Gas, and Steam, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
Unit: Establishment Counts.

			Electricity Components				Natural Gas Components				Steam Components			
NAICS Code(a)	Subsector and Industry	Any Electricity(b)	Electricity from Only Local Utility(c)	Electricity from Only Sources Other than Local Utility(d)	Electricity from Both Local Utility and Other Sources	Any Natural Gas(b)	Natural Gas from Only Local Utility(c)	Natural Gas from Only Sources Other than Local Utility(d)	Natural Gas from Both Local Utility and Other Sources	Any Steam(b)	Steam from Only Local Utility(c)	Steam from Only Sources Other than Local Utility(d)	Steam from Both Local Utility and Other Sources	RSE Row Factors
3315	Foundries	1,715	1,621	77	17	1,582	1,054	448	80	4	W	W	0	3.9
331511	Iron Foundries	453	428	17	7	396	247	124	25	3	0	3	0	5.7
331521	Aluminum Die-Casting Foundries	227	211	W	W	215	124	75	15	0	0	0	0	1.4
331524	Aluminum Foundries, except Die-Casting	341	331	W	W	304	210	88	6	0	0	0	0	2.9
332	Fabricated Metal Products	35,272	33,792	1,133	347	26,976	24,595	2,091	290	10	W	W	0	5.3
333	Machinery	17,075	16,348	607	121	14,123	12,889	1,101	132	15	W	W	0	3
334	Computer and Electronic Products	9,292	8,866	183	243	6,644	6,213	368	64	28	10	18	0	3.5
334413	Semiconductors and Related Devices	632	598	27	7	449	354	81	14	17	W	W	0	5.6
335	Electrical Equip., Appliances, and Components	3,886	3,696	126	64	3,349	2,790	523	36	8	W	W	0	4.5
336	Transportation Equipment	7,640	7,441	117	82	5,981	5,281	561	139	20	W	W	0	1.5
336112	Light Trucks and Utility Vehicles	42	42	0	0	41	W	17	W	5	0	5	0	1
337	Furniture and Related Products	10,941	10,658	190	94	6,144	5,787	351	6	10	0	10	0	5.1
339	Miscellaneous	15,605	15,101	470	34	11,171	10,818	336	18	4	W	W	0	2.3
	Total	200,039	192,051	6,089	1,899	143,336	126,035	15,165	2,136	1,124	260	861	3	2.8

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) 'Any Energy Source' (that is, electricity, natural gas, steam) represents the non-duplicative total of establishments identified with this particular energy source. This count includes only those establishments that reported this activity in 1998.
(c) A 'Local Utility' is an entity that produces and/or delivers a particular energy source (for example, electricity, natural gas, steam) and is legally obligated to provide service to the general public within its franchise area.
(d) 'Sources Other than Local Utility' include independent producers, brokers, marketers, and marketing subsidiaries of utilities; for the case of electricity sources, also include small power producers and cogenerators not located at the establishment site.
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.
Purchased energy sources exclude quantities delivered from any other establishment(s) in the company, quantities transferred from other establishments of the company for which payment was not made, quantities purchased centrally within the company but separate from the reporting establishment, and quantities for which payment was made in-kind.
Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'

Table 7.9 Expenditures for Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
	Total United States										
	RSE Column Factors:	0.9	0.9	1.1	1.5	0.9	1.4	0.8	0.7	1.2	
311	Food	6,943	3,707	58	135	2,546	38	276	8	175	8
311221	Wet Corn Milling	683	252	2	1	237	*	165	0	26	1.1
31131	Sugar	224	39	11	8	84	*	63	8	10	1
311421	Fruit and Vegetable Canning	333	139	5	8	168	Q	0	0	4	13.5
312	Beverage and Tobacco Products	780	479	8	18	201	9	40	0	25	5.8
3121	Beverages	665	413	4	Q	182	8	16	0	25	5.6
3122	Tobacco	115	66	4	2	19	1	24	0	*	0.9
313	Textile Mills	1,617	1,111	20	W	345	17	W	0	61	15.9
314	Textile Product Mills	438	264	W	Q	128	5	W	0	Q	20.3
315	Apparel	338	241	1	10	85	1	0	0	*	22.6
316	Leather and Allied Products	72	49	1	1	19	*	0	0	*	8.9
321	Wood Products	2,174	1,224	W	87	272	40	W	*	541	5.4
321113	Sawmills	601	376	*	42	46	5	0	0	132	6.3
3212	Veneer, Plywood, and Engineered Woods	925	467	W	13	153	21	W	*	265	6.5
3219	Other Wood Products	585	361	Q	14	59	13	0	0	137	10.5
322	Paper	7,227	3,050	373	69	2,091	57	462	3	1,122	2.9
322110	Pulp Mills	307	100	41	W	93	W	1	0	47	0.9
322121	Paper Mills, except Newsprint	2,768	995	182	23	852	10	265	3	437	2.3
322122	Newsprint Mills	601	401	21	1	62	2	16	0	99	0.9
322130	Paperboard Mills	2,342	766	114	20	754	5	176	0	507	2.8
323	Printing and Related Support	1,231	984	*	2	229	10	0	0	Q	9.5
324	Petroleum and Coal Products	6,621	1,864	14	82	3,110	27	Q	5	930	5.9
324110	Petroleum Refineries	5,147	1,662	0	*	2,855	*	W	0	W	2.9
324199	Other Petroleum and Coal Products	859	22	*	2	18	*	Q	5	270	2.1
325	Chemicals	32,019	6,386	258	74	7,448	15,473	689	24	1,667	6.1
325110	Petrochemicals	5,584	194	W	W	709	4,562	W	0	W	0.9
325120	Industrial Gases	1,349	898	0	W	236	W	0	0	Q	2.8
325181	Alkalies and Chlorine	960	395	Q	1	343	W	31	0	W	1.4
325182	Carbon Black	275	28	163	*	64	*	0	0	20	0.9
325188	Other Basic Inorganic Chemicals	1,241	774	W	14	307	43	21	W	60	2.6
325192	Cyclic Crudes and Intermediates	517	119	2	2	160	113	W	0	W	0.9
325193	Ethyl Alcohol	225	52	0	*	107	1	31	0	33	5
325199	Other Basic Organic Chemicals	8,009	926	33	12	1,983	4,030	Q	0	723	7.5
325211	Plastics Materials and Resins	8,504	919	3	6	941	6,381	W	W	197	4.1
325212	Synthetic Rubber	319	90	*	1	97	57	9	0	65	4.1
325222	Noncellulosic Organic Fibers	333	167	W	1	118	1	W	0	W	1.7
325311	Nitrogenous Fertilizers	1,628	144	0	*	1,474	*	*	0	9	1
325312	Phosphatic Fertilizers	209	88	4	5	102	*	2	1	6	1
3254	Pharmaceuticals and Medicines	967	620	7	4	282	Q	16	0	36	4.5
325412	Pharmaceutical Preparation	699	464	6	4	183	1	16	0	26	6.2
325992	Photographic Film, Paper, Plate, and Chemicals	161	86	W	2	36	Q	W	0	*	7.4
326	Plastics and Rubber Products	3,818	3,002	29	12	640	66	Q	0	16	10.2
327	Nonmetallic Mineral Products	4,906	2,097	12	263	1,773	28	557	14	161	4.8

Table 7.9 Expenditures for Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
3272	Glass and Glass Products	1,240	583	W	3	632	5	W	0	10	2.7
327211	Flat Glass	308	84	W	W	210	*	W	0	6	0.9
327213	Glass Containers	399	195	0	1	201	2	0	0	*	0.9
327310	Cements	1,177	553	3	36	83	1	421	3	77	1.8
327410	Lime	247	64	W	8	27	*	118	W	28	1
327993	Mineral Wool	312	159	0	W	137	2	0	W	W	2.6
331	Primary Metals	10,859	4,889	4	70	2,871	26	1,014	1,622	363	2
331111	Iron and Steel Mills	6,106	1,928	3	42	1,623	1	972	1,430	106	2.3
331112	Electrometallurgical Ferroalloy Products	168	112	0	1	32	*	15	1	7	3.6
3312	Steel Products from Purchased Steel	363	230	1	4	110	3	*	W	W	10.3
3313	Alumina and Aluminum	2,204	1,422	W	6	560	5	W	W	211	2.1
331312	Primary Aluminum	1,359	1,082	W	2	75	1	W	0	W	0.9
3314	Nonferrous Metals, except Aluminum	698	422	1	13	190	8	17	31	19	5.1
3315	Foundries	1,319	775	*	6	356	9	10	158	5	2.5
331511	Iron Foundries	673	373	0	4	126	W	W	158	W	2.8
331521	Aluminum Die-Casting Foundries	170	96	W	*	72	W	0	0	*	3
331524	Aluminum Foundries, except Die-Casting	138	72	*	*	64	1	0	0	*	4
332	Fabricated Metal Products	4,050	2,862	Q	38	1,033	44	4	Q	46	13.5
333	Machinery	2,015	1,493	*	24	432	27	1	0	37	10.1
334	Computer and Electronic Products	2,840	2,422	4	7	357	3	*	0	46	19.6
334413	Semiconductors and Related Devices	835	705	*	1	111	*	0	0	17	4.3
335	Electrical Equip., Appliances, and Components	1,191	782	1	4	260	13	1	*	Q	11.4
336	Transportation Equipment	3,675	2,583	26	29	859	38	17	Q	109	5.1
336112	Light Trucks and Utility Vehicles	402	212	W	W	150	1	W	0	29	0.9
337	Furniture and Related Products	653	497	*	W	129	14	3	0	W	10.2
339	Miscellaneous	937	739	W	W	162	8	0	0	W	7
	Total	94,402	40,725	827	960	24,992	15,946	3,777	1,708	5,467	2.8
	Northeast Census Region										
	RSE Column Factors:	1	1.2	1	1.6	0.9	1.7	0.7	0.4	1.2	
311	Food	842	488	25	W	274	3	5	0	W	18.8
311221	Wet Corn Milling	W	W	W	W	0	0	0	0	W	0.8
31131	Sugar	W	W	W	W	W	*	0	0	W	0.8
311421	Fruit and Vegetable Canning	44	24	W	W	14	1	0	0	1	10.6
312	Beverage and Tobacco Products	117	70	W	1	37	W	0	0	3	6.7
3121	Beverages	W	W	W	W	36	W	0	0	3	7.1
3122	Tobacco	W	W	W	W	1	*	0	0	*	0.8
313	Textile Mills	191	102	W	W	54	W	0	0	*	19.6
314	Textile Product Mills	44	29	1	1	12	*	1	0	*	4.1
315	Apparel	60	43	0	Q	15	*	0	0	0	27.1
316	Leather and Allied Products	18	10	1	*	6	*	0	0	*	10.3
321	Wood Products	187	115	1	17	19	6	0	0	27	10.4
321113	Sawmills	53	34	*	11	1	*	0	0	7	4.7
3212	Veneer, Plywood, and Engineered Woods	39	20	1	*	9	3	0	0	6	16.9
3219	Other Wood Products	90	61	Q	5	10	4	0	0	10	9.5

Table 7.9 Expenditures for Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
322	Paper	1,262	554	153	W	337	10	W	0	168	3.8
322110	Pulp Mills	W	W	Q	*	W	*	0	0	*	4.3
322121	Paper Mills, except Newsprint	716	245	101	8	203	4	27	0	127	3.4
322122	Newsprint Mills	W	W	W	*	0	0	0	0	0	0.8
322130	Paperboard Mills	191	58	21	1	69	*	2	0	41	2.9
323	Printing and Related Support	309	252	*	1	55	2	0	0	*	17
324	Petroleum and Coal Products	565	194	Q	35	187	1	103	2	38	8.1
324110	Petroleum Refineries	326	W	0	0	146	0	W	0	W	2
324199	Other Petroleum and Coal Products	64	3	*	*	2	*	56	2	*	1
325	Chemicals	1,429	721	30	W	353	174	W	0	91	4.9
325110	Petrochemicals	W	W	0	*	W	0	0	0	*	1.7
325120	Industrial Gases	92	72	0	W	W	0	0	0	14	1.2
325181	Alkalies and Chlorine	W	W	Q	W	W	W	0	0	W	1
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	89	46	7	4	30	*	0	0	3	4.5
325192	Cyclic Crudes and Intermediates	37	W	W	W	W	W	0	0	W	0.8
325193	Ethyl Alcohol	*	*	0	0	*	0	0	0	*	0.9
325199	Other Basic Organic Chemicals	116	52	4	3	34	2	0	0	21	6.2
325211	Plastics Materials and Resins	271	63	W	1	27	W	0	0	14	7.3
325212	Synthetic Rubber	8	3	0	*	*	3	0	0	2	0.8
325222	Noncellulosic Organic Fibers	3	2	*	0	*	*	0	0	*	11.2
325311	Nitrogenous Fertilizers	13	W	0	*	8	*	0	0	W	0.8
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	384	225	5	2	135	Q	0	0	15	7.1
325412	Pharmaceutical Preparation	283	174	W	2	91	*	0	0	W	8.3
325992	Photographic Film, Paper, Plate, and Chemicals	82	28	W	2	16	*	W	0	*	9.1
326	Plastics and Rubber Products	641	534	W	W	81	W	W	0	W	7.7
327	Nonmetallic Mineral Products	832	401	W	22	302	8	W	3	25	8
3272	Glass and Glass Products	249	111	1	1	132	W	W	0	W	2.8
327211	Flat Glass	60	17	0	W	41	*	W	0	W	0.9
327213	Glass Containers	84	41	0	*	42	*	0	0	*	0.8
327310	Cements	157	79	W	W	1	*	53	W	16	1
327410	Lime	14	4	0	W	*	*	W	0	W	0.9
327993	Mineral Wool	32	16	0	W	13	*	0	W	*	3.1
331	Primary Metals	1,410	609	1	10	318	5	406	24	37	3.8
331111	Iron and Steel Mills	848	272	0	6	166	*	392	*	10	3.5
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	W	*	W	0	W	0.9
3312	Steel Products from Purchased Steel	60	35	1	W	16	*	*	W	W	14
3313	Alumina and Aluminum	179	W	W	W	W	W	0	0	W	1.7
331312	Primary Aluminum	W	W	W	W	W	W	0	0	W	0.8
3314	Nonferrous Metals, except Aluminum	178	W	*	W	W	1	W	9	8	4.5
3315	Foundries	135	78	*	1	39	2	*	14	*	4.4
331511	Iron Foundries	64	34	0	1	14	1	*	14	*	4
331521	Aluminum Die-Casting Foundries	7	W	0	*	W	*	0	0	*	2.8
331524	Aluminum Foundries, except Die-Casting	19	9	*	*	9	*	0	0	*	2.6
332	Fabricated Metal Products	736	536	1	14	169	5	*	2	Q	19.3
333	Machinery	348	265	*	3	70	5	0	0	Q	15.2

Table 7.9 Expenditures for Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
334	Computer and Electronic Products	954	788	4	5	133	1	*	0	Q	28.7
334413	Semiconductors and Related Devices	173	W	*	1	W	*	0	0	4	2.8
335	Electrical Equip., Appliances, and Components	206	151	1	2	48	3	0	0	1	13.9
336	Transportation Equipment	369	256	20	2	78	1	0	0	11	5.9
336112	Light Trucks and Utility Vehicles	W	W	0	W	W	W	0	0	W	0.8
337	Furniture and Related Products	99	74	0	1	19	4	0	0	1	15.2
339	Miscellaneous	292	212	W	W	56	3	0	0	W	9.9
	Total	10,910	6,404	276	187	2,622	249	654	31	485	4.2
	Midwest Census Region										
	RSE Column Factors:	1	1.1	0.9	1.3	1.1	1.6	0.5	0.7	1.2	
311	Food	2,660	1,286	14	W	1,032	7	225	W	77	10.8
311221	Wet Corn Milling	W	W	W	*	200	*	W	0	21	1
31131	Sugar	80	16	W	*	20	*	35	W	*	1
311421	Fruit and Vegetable Canning	50	24	*	*	23	1	0	0	2	3.1
312	Beverage and Tobacco Products	133	70	W	Q	42	W	12	0	*	7.9
3121	Beverages	W	W	W	W	W	W	12	0	*	6.3
3122	Tobacco	W	W	0	W	W	W	0	0	*	0.8
313	Textile Mills	27	19	0	*	7	*	0	0	*	11.5
314	Textile Product Mills	24	17	0	0	6	*	0	0	*	16.9
315	Apparel	17	13	0	0	4	*	0	0	*	17.2
316	Leather and Allied Products	36	24	0	*	12	*	0	0	*	20.9
321	Wood Products	339	176	W	7	58	W	W	*	87	3.7
321113	Sawmills	40	28	*	2	4	*	0	0	6	5.3
3212	Veneer, Plywood, and Engineered Woods	143	52	W	2	27	W	W	*	55	2.7
3219	Other Wood Products	150	93	0	Q	25	3	0	0	26	8.3
322	Paper	1,509	656	21	4	419	Q	165	3	217	3.7
322110	Pulp Mills	W	W	0	W	W	W	*	0	W	0.9
322121	Paper Mills, except Newsprint	787	318	W	3	221	3	W	3	93	2.4
322122	Newsprint Mills	W	W	0	W	W	W	W	0	W	0.9
322130	Paperboard Mills	338	104	W	1	86	1	W	0	115	6.1
323	Printing and Related Support	386	302	0	*	75	5	0	0	Q	12.7
324	Petroleum and Coal Products	714	253	2	12	377	Q	0	0	60	7.4
324110	Petroleum Refineries	519	208	0	0	301	*	0	0	10	1.4
324199	Other Petroleum and Coal Products	W	3	0	*	2	*	0	0	W	0.8
325	Chemicals	3,233	1,181	23	W	941	601	164	W	307	5.8
325110	Petrochemicals	W	W	0	W	W	W	0	0	W	0.8
325120	Industrial Gases	341	208	0	0	W	0	0	0	W	3.7
325181	Alkalies and Chlorine	W	W	0	*	3	*	W	0	*	4.3
325182	Carbon Black	W	W	W	0	W	W	0	0	W	0.9
325188	Other Basic Inorganic Chemicals	214	82	W	1	77	W	W	*	11	2.4
325192	Cyclic Crudes and Intermediates	35	9	W	W	26	W	0	0	W	0.9
325193	Ethyl Alcohol	212	47	0	*	W	1	31	0	W	5.2
325199	Other Basic Organic Chemicals	320	150	0	2	87	5	12	0	63	2.2
325211	Plastics Materials and Resins	738	159	*	1	84	W	W	W	38	2.6

Table 7.9 Expenditures for Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
325212	Synthetic Rubber	30	8	0	*	5	W	W	0	1	2.2
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	327	W	0	*	279	0	0	0	W	0.9
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	273	174	*	*	78	*	16	0	5	6.4
325412	Pharmaceutical Preparation	224	151	*	*	57	*	16	0	*	3.4
325992	Photographic Film, Paper, Plate, and Chemicals	7	5	0	0	2	*	0	0	0	5.1
326	Plastics and Rubber Products	1,393	1,058	W	*	238	Q	W	0	6	12.1
327	Nonmetallic Mineral Products	1,203	488	*	61	454	10	134	6	51	5
3272	Glass and Glass Products	339	158	0	2	175	1	0	0	3	1.7
327211	Flat Glass	84	21	0	W	59	*	0	0	W	0.8
327213	Glass Containers	91	39	0	*	50	*	0	0	*	0.8
327310	Cements	255	116	*	8	22	*	85	*	23	2.7
327410	Lime	107	27	*	2	W	*	49	W	W	1
327993	Mineral Wool	114	54	0	*	54	*	0	W	W	1.6
331	Primary Metals	5,082	1,852	1	29	1,435	12	494	1,117	142	2.3
331111	Iron and Steel Mills	3,322	785	1	24	939	*	484	1,011	76	3
331112	Electrometallurgical Ferroalloy Products	123	79	0	*	30	*	W	W	W	1
3312	Steel Products from Purchased Steel	174	107	0	*	63	1	*	0	3	8.4
3313	Alumina and Aluminum	487	306	0	1	131	1	0	0	48	3.7
331312	Primary Aluminum	295	233	0	*	19	*	0	0	43	0.8
3314	Nonferrous Metals, except Aluminum	199	113	*	1	60	5	W	W	W	5.2
3315	Foundries	778	461	*	2	213	4	W	92	W	3
331511	Iron Foundries	420	244	0	2	75	W	W	92	W	4
331521	Aluminum Die-Casting Foundries	123	70	W	*	W	W	0	0	*	3
331524	Aluminum Foundries, except Die-Casting	83	44	0	*	38	1	0	0	*	3.6
332	Fabricated Metal Products	1,632	1,090	Q	Q	470	13	4	Q	17	13.6
333	Machinery	907	624	0	16	237	13	1	0	16	10.6
334	Computer and Electronic Products	320	252	0	*	63	*	0	0	4	14.6
334413	Semiconductors and Related Devices	29	W	0	*	W	*	0	0	1	1.4
335	Electrical Equip., Appliances, and Components	353	251	*	Q	91	4	*	0	5	9.6
336	Transportation Equipment	1,837	1,249	1	10	483	16	15	Q	49	10.1
336112	Light Trucks and Utility Vehicles	237	127	W	W	100	W	W	0	5	1
337	Furniture and Related Products	210	144	0	W	60	3	W	0	*	13.7
339	Miscellaneous	219	167	0	*	48	2	0	0	Q	11.7
	Total	22,234	11,172	69	185	6,554	771	1,265	1,172	1,046	5.2
	South Census Region										
	RSE Column Factors:	1	1	1	1.3	1	1.5	0.7	0.6	1.1	
311	Food	2,008	1,126	Q	44	741	18	23	0	38	11
311221	Wet Corn Milling	81	36	0	*	W	*	W	0	W	0.9
31131	Sugar	72	14	7	W	39	*	W	0	*	0.9
311421	Fruit and Vegetable Canning	90	30	W	W	47	Q	0	0	1	9.1
312	Beverage and Tobacco Products	306	183	3	Q	79	3	27	0	1	3.3
3121	Beverages	197	120	W	Q	W	W	3	0	1	5.3

Table 7.9 Expenditures for Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
3122	Tobacco	109	63	W	2	W	W	24	0	*	0.9
313	Textile Mills	1,312	927	W	W	261	W	W	0	60	17.4
314	Textile Product Mills	340	195	W	Q	102	5	W	0	Q	22.1
315	Apparel	152	111	1	Q	31	Q	0	0	*	20.3
316	Leather and Allied Products	13	10	0	1	2	*	0	0	*	10.1
321	Wood Products	1,046	621	1	40	117	W	W	0	246	9.1
321113	Sawmills	284	189	0	13	13	2	0	0	68	12.8
3212	Veneer, Plywood, and Engineered Woods	542	280	1	7	81	W	W	0	159	9.4
3219	Other Wood Products	179	140	0	5	14	4	0	0	16	16.1
322	Paper	3,112	1,208	179	47	959	16	266	0	437	2.7
322110	Pulp Mills	244	68	38	20	71	W	1	0	W	0.9
322121	Paper Mills, except Newsprint	893	292	W	11	315	3	W	0	109	2.3
322122	Newsprint Mills	228	149	W	W	38	*	W	0	W	0.9
322130	Paperboard Mills	1,355	441	87	14	414	2	143	0	253	3.4
323	Printing and Related Support	330	264	*	1	61	3	0	0	1	11.1
324	Petroleum and Coal Products	4,043	951	9	27	1,919	Q	Q	3	640	5.3
324110	Petroleum Refineries	3,179	886	0	*	1,832	*	0	0	460	1.4
324199	Other Petroleum and Coal Products	681	11	0	1	7	*	Q	3	172	2.7
325	Chemicals	26,398	3,938	204	39	5,849	14,679	465	1	1,223	4.7
325110	Petrochemicals	5,489	182	W	W	700	W	W	0	W	0.9
325120	Industrial Gases	774	485	0	W	202	W	0	0	W	3.5
325181	Alkalies and Chlorine	766	295	0	W	W	W	W	0	W	0.9
325182	Carbon Black	245	25	140	*	59	*	0	0	20	0.9
325188	Other Basic Inorganic Chemicals	757	564	W	7	146	W	W	0	32	3.6
325192	Cyclic Crudes and Intermediates	441	99	W	*	111	W	W	0	119	0.9
325193	Ethyl Alcohol	W	*	0	*	W	*	0	0	*	0.9
325199	Other Basic Organic Chemicals	7,542	713	Q	7	1,852	4,022	Q	0	630	8.5
325211	Plastics Materials and Resins	7,461	673	W	5	824	5,769	W	0	144	3.5
325212	Synthetic Rubber	278	76	*	*	91	W	W	0	62	4.7
325222	Noncellulosic Organic Fibers	331	165	W	1	118	1	W	0	W	0.9
325311	Nitrogenous Fertilizers	1,162	74	0	*	1,087	*	0	0	1	0.9
325312	Phosphatic Fertilizers	163	W	4	5	84	*	2	1	W	1
3254	Pharmaceuticals and Medicines	191	130	2	2	41	*	0	0	16	9.8
325412	Pharmaceutical Preparation	123	87	W	2	19	*	0	0	W	12.9
325992	Photographic Film, Paper, Plate, and Chemicals	51	39	*	*	11	*	0	0	*	5.5
326	Plastics and Rubber Products	1,319	993	W	W	277	W	0	0	W	12.7
327	Nonmetallic Mineral Products	1,922	769	W	77	756	7	W	5	65	6.6
3272	Glass and Glass Products	475	214	W	*	257	W	W	0	W	2.3
327211	Flat Glass	121	31	W	*	89	*	W	0	2	0.9
327213	Glass Containers	123	52	0	*	70	1	0	0	*	0.9
327310	Cements	454	187	0	W	40	*	187	W	25	3.4
327410	Lime	93	23	0	3	10	*	46	0	12	0.9
327993	Mineral Wool	121	57	0	*	58	1	0	W	W	3.4
331	Primary Metals	3,564	1,870	1	18	939	6	108	470	152	2.5
331111	Iron and Steel Mills	1,673	716	1	10	426	*	91	418	12	1.8
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	W	*	W	W	W	14.1
3312	Steel Products from Purchased Steel	97	64	0	W	23	1	*	0	W	13.7

Table 7.9 Expenditures for Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
3313	Alumina and Aluminum	1,255	W	0	W	W	W	W	W	W	3.3
331312	Primary Aluminum	766	599	0	W	W	*	W	0	123	0.9
3314	Nonferrous Metals, except Aluminum	196	120	0	1	61	1	5	Q	3	6.6
3315	Foundries	311	171	0	3	W	W	W	47	W	1.8
331511	Iron Foundries	163	81	0	2	32	1	*	47	*	2.1
331521	Aluminum Die-Casting Foundries	31	14	0	*	16	*	0	0	*	1.9
331524	Aluminum Foundries, except Die-Casting	23	11	0	*	12	*	0	0	*	3.3
332	Fabricated Metal Products	1,188	837	*	W	309	21	*	0	W	16.9
333	Machinery	513	393	0	Q	95	7	0	0	Q	10
334	Computer and Electronic Products	494	446	0	Q	42	1	0	0	3	9.7
334413	Semiconductors and Related Devices	181	162	0	*	17	*	0	0	2	2.7
335	Electrical Equip., Appliances, and Components	511	293	*	1	89	6	1	*	Q	13.4
336	Transportation Equipment	939	664	6	15	206	14	2	0	33	5.2
336112	Light Trucks and Utility Vehicles	W	W	0	W	W	W	0	0	W	0.9
337	Furniture and Related Products	243	193	0	W	39	5	W	0	W	17.5
339	Miscellaneous	205	164	*	*	38	3	0	0	*	16.8
	Total	49,958	16,157	450	366	12,911	14,840	1,690	479	3,067	3.3
	West Census Region										
	RSE Column Factors:	1.3	1.3	0.7	1.3	1.3	1.8	0.6	0.4	1.2	
311	Food	1,433	807	1	W	499	Q	23	W	W	8.2
311221	Wet Corn Milling	17	1	0	W	W	*	0	0	W	4.2
31131	Sugar	W	W	W	*	W	*	W	W	W	1
311421	Fruit and Vegetable Canning	150	62	*	2	84	1	0	0	1	7.6
312	Beverage and Tobacco Products	224	156	0	1	43	3	0	0	21	5.2
3121	Beverages	224	156	0	1	W	W	0	0	21	5.2
3122	Tobacco	*	*	0	0	0	0	0	0	0	0.8
313	Textile Mills	87	63	0	0	22	*	0	0	1	10.7
314	Textile Product Mills	31	23	0	0	8	*	0	0	0	18.3
315	Apparel	110	75	0	*	Q	*	0	0	*	18.1
316	Leather and Allied Products	4	4	0	*	*	0	0	0	0	28.2
321	Wood Products	602	312	2	23	78	8	0	0	181	7.6
321113	Sawmills	224	125	*	16	29	2	0	0	52	6.7
3212	Veneer, Plywood, and Engineered Woods	201	116	0	4	35	3	0	0	44	4.3
3219	Other Wood Products	167	67	0	2	10	2	0	0	85	13.2
322	Paper	1,344	632	19	W	376	7	W	0	301	2.3
322110	Pulp Mills	30	13	2	*	14	*	0	0	*	0.8
322121	Paper Mills, except Newsprint	372	139	10	1	113	1	0	0	108	2
322122	Newsprint Mills	278	185	W	*	W	W	0	0	65	0.8
322130	Paperboard Mills	458	162	W	5	185	1	W	0	99	1.7
323	Printing and Related Support	205	167	0	*	37	1	0	0	*	13.6
324	Petroleum and Coal Products	1,300	465	0	8	626	Q	0	0	192	9
324110	Petroleum Refineries	1,123	W	0	0	576	0	0	0	W	6.6
324199	Other Petroleum and Coal Products	W	4	0	*	7	0	0	0	W	0.8
325	Chemicals	958	545	1	W	305	19	W	W	45	4.8

Table 7.9 Expenditures for Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	142	134	0	0	8	*	0	0	0	1.2
325181	Alkalies and Chlorine	130	63	0	*	54	*	9	0	3	0.8
325182	Carbon Black	W	W	W	0	W	W	0	0	W	0.8
325188	Other Basic Inorganic Chemicals	180	83	*	3	54	*	W	W	14	1.9
325192	Cyclic Crudes and Intermediates	4	W	W	W	W	W	0	0	W	0.8
325193	Ethyl Alcohol	W	5	0	*	4	*	0	0	W	0.7
325199	Other Basic Organic Chemicals	31	12	*	*	10	Q	0	0	8	3.3
325211	Plastics Materials and Resins	35	24	0	*	7	4	0	0	*	2.6
325212	Synthetic Rubber	3	3	0	0	*	*	0	0	*	0.7
325222	Noncellulosic Organic Fibers	*	*	0	0	0	*	0	0	0	0.7
325311	Nitrogenous Fertilizers	126	27	0	*	99	*	*	0	*	0.8
325312	Phosphatic Fertilizers	46	W	0	*	18	*	0	0	W	0.7
3254	Pharmaceuticals and Medicines	120	92	0	*	28	*	0	0	*	6
325412	Pharmaceutical Preparation	69	53	0	*	16	*	0	0	*	4
325992	Photographic Film, Paper, Plate, and Chemicals	21	13	0	*	7	*	0	0	0	0.7
326	Plastics and Rubber Products	465	418	0	*	44	3	0	0	*	13
327	Nonmetallic Mineral Products	949	439	8	103	262	5	112	*	20	5.1
3272	Glass and Glass Products	177	100	W	*	68	1	0	0	W	1.7
327211	Flat Glass	44	16	W	*	21	*	0	0	W	0.8
327213	Glass Containers	102	63	0	*	39	*	0	0	*	0.7
327310	Cements	312	171	W	W	20	*	97	*	12	1.4
327410	Lime	33	10	W	W	W	*	W	0	W	0.9
327993	Mineral Wool	45	32	0	*	12	*	0	*	*	1.3
331	Primary Metals	803	559	0	13	179	3	6	11	33	2
331111	Iron and Steel Mills	264	155	0	2	91	*	6	2	8	1.6
331112	Electrometallurgical Ferroalloy Products	2	W	0	W	W	*	0	0	W	0.7
3312	Steel Products from Purchased Steel	32	23	0	*	8	*	0	0	*	3.1
3313	Alumina and Aluminum	283	229	0	1	31	1	0	0	21	1.6
331312	Primary Aluminum	W	W	0	*	7	W	0	0	21	0.9
3314	Nonferrous Metals, except Aluminum	126	W	0	W	W	*	0	W	W	4.7
3315	Foundries	96	66	0	*	W	W	*	5	*	2.8
331511	Iron Foundries	25	14	0	*	5	*	*	5	*	1.3
331521	Aluminum Die-Casting Foundries	10	W	0	0	W	*	0	0	*	12.6
331524	Aluminum Foundries, except Die-Casting	12	7	0	*	5	*	0	0	*	4.6
332	Fabricated Metal Products	494	399	0	W	85	6	0	0	W	10.9
333	Machinery	247	211	0	1	30	2	0	0	Q	12.4
334	Computer and Electronic Products	1,072	936	*	*	119	*	0	0	16	7.3
334413	Semiconductors and Related Devices	451	376	0	*	64	*	0	0	11	7.1
335	Electrical Equip., Appliances, and Components	122	87	0	*	32	Q	0	0	1	6.2
336	Transportation Equipment	530	413	0	3	93	7	0	0	Q	12.4
336112	Light Trucks and Utility Vehicles	*	*	0	*	*	*	0	0	*	0.7
337	Furniture and Related Products	102	86	*	Q	12	2	0	0	*	11.2
339	Miscellaneous	221	196	0	*	20	1	0	0	Q	12.8
	Total	11,300	6,992	32	223	2,905	86	169	26	868	3.8

Table 7.9 Expenditures for Purchased Energy Sources, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Energy Sources;
Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.
(c) 'Natural Gas' includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.
(d) Examples of Liquefied Petroleum Gases '(LPG)' are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'
(e) 'Other' energy sources include such combustible energy sources as wood waste, hydrogen, and waste oils and tars.
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. To reduce respondent burden, quantities of petroleum-based products (for example, LPG and residual and distillate fuel oil) purchased, and associated expenditures, were not collected from Petroleum Refineries, NAICS 324110. These products are produced by petroleum refineries, rather than purchased by them.
Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'

Table 8.1 Number of Establishments by Participation in Energy-Management Activity, 2002
Level: National Data;
Row: Energy-Management Activities within NAICS Codes;
Column: Participation and Source of Financial Support for Activity;
Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
		Total United States					
	RSE Column Factors:	0.9	1.4	0.9	0.9	1	
311 - 339	**ALL MANUFACTURING INDUSTRIES**						
	Participation in One or More of the Following Types of Activities	120,362	80,348	--	--	--	1
	Energy Audits	165,216	35,494	14,845	15,890	4,760	2.3
	Direct Electricity Load Control	171,940	28,770	13,652	9,986	5,132	2.5
	Special Rate Schedule (c)	182,070	18,640	--	--	--	1.1
	Standby Generation Program	190,389	10,321	5,784	818	3,719	3.7
	Equipment Rebates	193,604	7,106	--	--	--	1.2
	Power Factor Correction or Improvement	175,076	25,634	12,156	8,136	5,343	2.5
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	193,362	7,348	--	--	--	1.2
	U.S. Environmental Protection Agency's Energy Star Program	197,317	3,393	--	--	--	1.4
	U.S. Environmental Protection Agency's Green Lights Program	198,628	2,082	--	--	--	1.4
	Other Federally Sponsored Energy or Environmental Management Program	199,945	765	--	--	--	1.4
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	187,978	12,732	8,229	1,569	2,934	3.6
	Compressed Air Systems (e)	167,266	33,444	25,725	3,297	4,421	2.5
	Direct/Indirect Process Heating	185,653	15,057	9,640	2,163	3,254	3.3
	Direct Process Cooling, Refrigeration	188,338	12,372	7,139	1,800	3,433	3.6
	Direct Machine Drive (f)	173,211	27,499	20,498	3,048	3,953	2.6
	Facility HVAC (g)	169,098	31,612	20,892	6,315	4,405	2.4
	Facility Lighting	171,632	29,078	18,963	5,513	4,602	2.4
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	192,035	8,675	3,488	1,650	3,538	4.1
	Other (i)	197,246	3,464	1,500	466	1,497	5.2
	Full-Time Energy Manager (j)	197,306	3,404	--	--	--	1.3
311	**FOOD**						
	Participation in One or More of the Following Types of Activities	6,290	8,799	--	--	--	1.9
	Energy Audits	10,753	4,336	2,256	1,602	478	8.5
	Direct Electricity Load Control	11,474	3,615	2,034	1,046	536	9
	Special Rate Schedule (c)	12,401	2,688	--	--	--	1.9
	Standby Generation Program	13,846	1,243	899	106	238	14.5
	Equipment Rebates	13,676	1,413	--	--	--	2
	Power Factor Correction or Improvement	11,802	3,287	1,819	978	489	9.5
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	14,518	571	--	--	--	2
	U.S. Environmental Protection Agency's Energy Star Program	14,951	138	--	--	--	2
	U.S. Environmental Protection Agency's Green Lights Program	14,954	135	--	--	--	2.2
	Other Federally Sponsored Energy or Environmental Management Program	15,053	36	--	--	--	2.3
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	11,962	3,127	2,492	394	241	10.2
	Compressed Air Systems (e)	11,746	3,343	2,505	406	432	9.7
	Direct/Indirect Process Heating	12,857	2,232	1,702	189	340	13

Table 8.1 Number of Establishments by Participation in Energy-Management Activity, 2002
Level: National Data;
Row: Energy-Management Activities within NAICS Codes;
Column: Participation and Source of Financial Support for Activity;
Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Direct Process Cooling, Refrigeration	12,757	2,332	1,588	331	413	10.6
	Direct Machine Drive (f)	10,812	4,277	3,315	535	428	10.1
	Facility HVAC (g)	11,929	3,160	1,978	765	418	10.2
	Facility Lighting	12,234	2,855	1,852	447	556	10.3
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	13,675	1,414	876	266	273	14.7
	Other (i)	14,702	387	204	18	164	20
	Full-Time Energy Manager (j)	14,691	398	--	--	--	2.3
311221	**Wet Corn Milling**						
	Participation in One or More of the Following Types of Activities	7	42	--	--	--	1
	Energy Audits	24	25	14	10	1	1
	Direct Electricity Load Control	29	20	W	W	0	1
	Special Rate Schedule (c)	26	23	--	--	--	1
	Standby Generation Program	W	W	0	W	0	1
	Equipment Rebates	45	4	--	--	--	1
	Power Factor Correction or Improvement	29	20	W	W	0	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	42	7	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	46	3	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1
	Other Federally Sponsored Energy or Environmental Management Program	49	0	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	23	26	26	0	0	1
	Compressed Air Systems (e)	24	25	W	W	0	1
	Direct/Indirect Process Heating	31	18	18	0	0	1
	Direct Process Cooling, Refrigeration	43	6	6	0	0	1
	Direct Machine Drive (f)	23	26	W	W	0	1
	Facility HVAC (g)	40	9	W	W	0	1
	Facility Lighting	43	6	6	0	0	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	43	6	6	0	0	1
	Other (i)	W	W	W	0	0	1
	Full-Time Energy Manager (j)	31	18	--	--	--	1
31131	**Sugar**						
	Participation in One or More of the Following Types of Activities	21	56	--	--	--	1
	Energy Audits	51	26	19	5	3	1
	Direct Electricity Load Control	48	29	21	4	4	1
	Special Rate Schedule (c)	55	22	--	--	--	1
	Standby Generation Program	63	14	10	W	W	1
	Equipment Rebates	73	4	--	--	--	1
	Power Factor Correction or Improvement	41	36	31	W	W	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	73	4	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1
	Other Federally Sponsored Energy or Environmental Management Program	77	0	--	--	--	1

Table 8.1 Number of Establishments by Participation in Energy-Management Activity, 2002
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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	44	33	28	W	W	1
	Compressed Air Systems (e)	55	22	21	0	1	1
	Direct/Indirect Process Heating	54	23	22	0	1	1
	Direct Process Cooling, Refrigeration	67	10	9	0	1	1
	Direct Machine Drive (f)	46	31	28	0	3	1
	Facility HVAC (g)	62	15	W	W	1	1
	Facility Lighting	58	19	15	0	3	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	67	10	9	0	1	1
	Other (i)	W	W	W	0	1	1
	Full-Time Energy Manager (j)	W	W	--	--	--	1
311421	**Fruit and Vegetable Canning**						
	Participation in One or More of the Following Types of Activities	153	315	--	--	--	2.5
	Energy Audits	251	217	121	82	14	10.5
	Direct Electricity Load Control	278	190	103	73	14	11.1
	Special Rate Schedule (c)	336	132	--	--	--	2.1
	Standby Generation Program	441	27	12	6	9	3.9
	Equipment Rebates	431	37	--	--	--	1.9
	Power Factor Correction or Improvement	376	92	43	37	12	11.8
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	425	43	--	--	--	2.4
	U.S. Environmental Protection Agency's Energy Star Program	463	5	--	--	--	1.3
	U.S. Environmental Protection Agency's Green Lights Program	464	4	--	--	--	1.5
	Other Federally Sponsored Energy or Environmental Management Program	464	4	--	--	--	1.3
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	273	195	162	19	13	11.2
	Compressed Air Systems (e)	273	195	165	14	16	6.7
	Direct/Indirect Process Heating	346	122	95	15	12	13.2
	Direct Process Cooling, Refrigeration	358	110	80	12	18	11.3
	Direct Machine Drive (f)	331	137	100	23	13	10.6
	Facility HVAC (g)	380	88	61	17	10	12.2
	Facility Lighting	364	104	68	23	13	11
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	412	56	37	8	11	9.9
	Other (i)	459	9	4	W	W	1.5
	Full-Time Energy Manager (j)	445	23	--	--	--	2
312	**BEVERAGE AND TOBACCO PRODUCTS**						
	Participation in One or More of the Following Types of Activities	782	813	--	--	--	2.6
	Energy Audits	1,081	514	241	226	48	17
	Direct Electricity Load Control	1,201	394	146	193	55	18.9
	Special Rate Schedule (c)	1,259	336	--	--	--	2.4
	Standby Generation Program	1,466	129	48	W	W	18.1
	Equipment Rebates	1,414	181	--	--	--	2.5

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Power Factor Correction or Improvement	1,303	292	73	171	48	13.7
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	1,437	158	--	--	--	2.7
	U.S. Environmental Protection Agency's Energy Star Program	1,500	95	--	--	--	2.9
	U.S. Environmental Protection Agency's Green Lights Program	1,521	Q	--	--	--	1.5
	Other Federally Sponsored Energy or Environmental Management Program	1,588	7	--	--	--	2.6
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	1,298	297	196	90	11	17.2
	Compressed Air Systems (e)	1,278	317	213	95	9	18.2
	Direct/Indirect Process Heating	1,389	206	130	Q	7	17.2
	Direct Process Cooling, Refrigeration	1,233	362	233	100	29	21.2
	Direct Machine Drive (f)	1,259	336	206	119	11	16.1
	Facility HVAC (g)	1,321	274	175	89	10	19.3
	Facility Lighting	1,256	339	195	136	8	18.1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	1,458	137	56	Q	8	17.6
	Other (i)	1,561	34	8	Q	7	15
	Full-Time Energy Manager (j)	1,528	67	--	--	--	2.8
3121	**Beverages**						
	Participation in One or More of the Following Types of Activities	753	764	--	--	--	2.7
	Energy Audits	1,024	493	231	215	48	18.1
	Direct Electricity Load Control	1,142	375	131	189	55	20.2
	Special Rate Schedule (c)	1,212	305	--	--	--	2.5
	Standby Generation Program	1,400	117	W	Q	W	20.6
	Equipment Rebates	W	W	--	--	--	2.6
	Power Factor Correction or Improvement	1,244	273	61	167	44	15.2
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	1,366	151	--	--	--	2.7
	U.S. Environmental Protection Agency's Energy Star Program	1,422	95	--	--	--	3
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1.5
	Other Federally Sponsored Energy or Environmental Management Program	1,510	7	--	--	--	2.6
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	1,237	280	181	W	W	18
	Compressed Air Systems (e)	1,224	293	189	95	9	18.7
	Direct/Indirect Process Heating	1,321	196	120	Q	7	17.7
	Direct Process Cooling, Refrigeration	1,158	359	W	W	29	21.5
	Direct Machine Drive (f)	1,202	315	W	W	11	16.7
	Facility HVAC (g)	1,260	257	164	84	9	20.6
	Facility Lighting	1,196	321	W	W	8	18.6
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	W	W	W	W	8	17.9
	Other (i)	W	W	W	Q	7	17.3
	Full-Time Energy Manager (j)	1,455	62	--	--	--	2.9
3122	**Tobacco**						
	Participation in One or More of the Following Types of Activities	29	49	--	--	--	1

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Energy Audits	57	21	11	11	0	1
	Direct Electricity Load Control	59	19	15	4	0	1
	Special Rate Schedule (c)	47	31	--	--	--	1
	Standby Generation Program	66	12	W	W	0	1
	Equipment Rebates	W	W	--	--	--	1
	Power Factor Correction or Improvement	59	19	12	4	4	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	71	7	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	78	0	--	--	--	1.1
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1
	Other Federally Sponsored Energy or Environmental Management Program	78	0	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	60	18	15	W	W	1
	Compressed Air Systems (e)	54	24	24	0	0	1
	Direct/Indirect Process Heating	69	9	9	0	0	1
	Direct Process Cooling, Refrigeration	74	4	W	W	0	1
	Direct Machine Drive (f)	57	21	W	W	0	1
	Facility HVAC (g)	61	17	11	5	1	1
	Facility Lighting	60	18	W	W	0	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	W	W	W	W	0	1
	Other (i)	W	W	W	0	0	1
	Full-Time Energy Manager (j)	73	5	--	--	--	1
313	**TEXTILE MILLS**						
	Participation in One or More of the Following Types of Activities	923	1,324	--	--	--	1.9
	Energy Audits	1,562	685	360	263	62	6.2
	Direct Electricity Load Control	1,773	474	291	176	7	6.5
	Special Rate Schedule (c)	1,630	617	--	--	--	1.9
	Standby Generation Program	2,155	92	42	W	W	11.7
	Equipment Rebates	2,074	173	--	--	--	2
	Power Factor Correction or Improvement	1,827	420	151	261	7	7.6
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	1,950	297	--	--	--	1.9
	U.S. Environmental Protection Agency's Energy Star Program	2,208	39	--	--	--	2.2
	U.S. Environmental Protection Agency's Green Lights Program	2,182	65	--	--	--	2.3
	Other Federally Sponsored Energy or Environmental Management Program	2,217	30	--	--	--	2.4
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	1,711	536	376	149	11	7.6
	Compressed Air Systems (e)	1,506	741	637	88	15	7.9
	Direct/Indirect Process Heating	1,945	302	265	30	7	10
	Direct Process Cooling, Refrigeration	1,990	257	179	70	7	10.4
	Direct Machine Drive (f)	1,706	541	453	W	W	7.7
	Facility HVAC (g)	1,727	520	359	133	28	7
	Facility Lighting	1,797	450	335	107	9	7.2
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	2,140	107	76	0	31	9.4
	Other (i)	2,191	56	47	W	W	6.9

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Full-Time Energy Manager (j)	2,115	132	--	--	--	2
314	**TEXTILE PRODUCT MILLS**						
	Participation in One or More of the Following Types of Activities	2,355	1,102	--	--	--	2.1
	Energy Audits	3,144	313	163	91	58	16.4
	Direct Electricity Load Control	3,297	160	76	26	58	14
	Special Rate Schedule (c)	3,285	172	--	--	--	2.4
	Standby Generation Program	3,381	76	8	0	68	10.4
	Equipment Rebates	3,380	77	--	--	--	2.1
	Power Factor Correction or Improvement	3,242	215	40	118	57	18.5
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	3,351	106	--	--	--	2.6
	U.S. Environmental Protection Agency's Energy Star Program	3,435	22	--	--	--	1.6
	U.S. Environmental Protection Agency's Green Lights Program	3,405	52	--	--	--	1.8
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	2.3
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	3,238	219	148	14	57	12.5
	Compressed Air Systems (e)	3,179	278	202	W	W	11.4
	Direct/Indirect Process Heating	3,278	179	62	58	59	11.8
	Direct Process Cooling, Refrigeration	3,335	122	23	W	W	12.6
	Direct Machine Drive (f)	3,220	237	95	4	138	7.4
	Facility HVAC (g)	3,011	446	287	51	108	13.2
	Facility Lighting	2,916	541	330	104	107	12.1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	3,370	87	W	W	W	19.3
	Other (i)	3,408	49	21	0	28	18.2
	Full-Time Energy Manager (j)	3,418	39	--	--	--	2.4
315	**APPAREL**						
	Participation in One or More of the Following Types of Activities	4,060	1,440	--	--	--	1.9
	Energy Audits	4,920	580	68	173	339	11.7
	Direct Electricity Load Control	4,800	700	129	138	433	10.2
	Special Rate Schedule (c)	5,345	155	--	--	--	2
	Standby Generation Program	5,134	366	30	0	336	10.5
	Equipment Rebates	5,463	37	--	--	--	2.3
	Power Factor Correction or Improvement	4,983	517	103	18	397	12
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	W	W	--	--	--	2.5
	U.S. Environmental Protection Agency's Energy Star Program	5,477	23	--	--	--	2.2
	U.S. Environmental Protection Agency's Green Lights Program	5,500	0	--	--	--	1.4
	Other Federally Sponsored Energy or Environmental Management Program	5,500	0	--	--	--	1.4
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	4,848	652	78	0	574	9
	Compressed Air Systems (e)	4,881	619	122	W	W	12.5
	Direct/Indirect Process Heating	5,131	369	21	W	W	16
	Direct Process Cooling, Refrigeration	5,037	463	26	W	W	14.6
	Direct Machine Drive (f)	4,909	591	236	0	355	9.2

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Facility HVAC (g)	4,717	783	192	102	489	10.2
	Facility Lighting	4,912	588	W	W	W	5.7
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	5,140	360	15	0	345	9.8
	Other (i)	5,313	187	W	0	W	10.9
	Full-Time Energy Manager (j)	W	W	--	--	--	2.4
316	**LEATHER AND ALLIED PRODUCTS**						
	Participation in One or More of the Following Types of Activities	508	177	--	--	--	3
	Energy Audits	561	124	Q	Q	36	17.4
	Direct Electricity Load Control	627	58	11	8	39	15
	Special Rate Schedule (c)	672	13	--	--	--	2.3
	Standby Generation Program	647	38	3	0	35	3.6
	Equipment Rebates	680	Q	--	--	--	1.3
	Power Factor Correction or Improvement	576	109	8	Q	40	15.3
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	W	W	--	--	--	1.6
	U.S. Environmental Protection Agency's Energy Star Program	685	0	--	--	--	1.3
	U.S. Environmental Protection Agency's Green Lights Program	685	0	--	--	--	1.3
	Other Federally Sponsored Energy or Environmental Management Program	685	0	--	--	--	1.3
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	636	49	5	Q	37	3.8
	Compressed Air Systems (e)	617	68	21	8	39	16.7
	Direct/Indirect Process Heating	638	47	5	W	W	6.1
	Direct Process Cooling, Refrigeration	643	42	3	W	W	2.8
	Direct Machine Drive (f)	620	65	26	W	W	7
	Facility HVAC (g)	597	88	Q	Q	41	11.3
	Facility Lighting	607	78	W	W	W	6.1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	647	38	W	0	W	3.5
	Other (i)	640	Q	W	0	W	8.1
	Full-Time Energy Manager (j)	W	W	--	--	--	1.3
321	**WOOD PRODUCTS**						
	Participation in One or More of the Following Types of Activities	6,339	4,147	--	--	--	1.3
	Energy Audits	8,822	1,664	601	780	284	3
	Direct Electricity Load Control	9,034	1,452	550	622	280	3.2
	Special Rate Schedule (c)	9,798	688	--	--	--	1.1
	Standby Generation Program	9,868	618	312	27	279	4.8
	Equipment Rebates	10,261	225	--	--	--	1.3
	Power Factor Correction or Improvement	9,224	1,262	483	438	340	3.1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	10,353	133	--	--	--	1.1
	U.S. Environmental Protection Agency's Energy Star Program	10,365	121	--	--	--	1.4
	U.S. Environmental Protection Agency's Green Lights Program	10,461	25	--	--	--	1.1
	Other Federally Sponsored Energy or Environmental Management Program	10,424	62	--	--	--	1.6
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						

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	Steam Production/System (d)	9,674	812	495	37	279	3.7
	Compressed Air Systems (e)	8,374	2,112	1,481	279	352	3.2
	Direct/Indirect Process Heating	9,641	845	541	72	232	3.9
	Direct Process Cooling, Refrigeration	10,069	417	168	20	229	4.2
	Direct Machine Drive (f)	8,769	1,717	1,289	136	292	3.4
	Facility HVAC (g)	8,923	1,563	1,141	108	314	3.7
	Facility Lighting	8,941	1,545	985	234	326	3.5
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	9,877	609	227	97	284	4.4
	Other (i)	10,405	81	13	22	47	6.1
	Full-Time Energy Manager (j)	10,411	75	--	--	--	1.3
321113	**Sawmills**						
	Participation in One or More of the Following Types of Activities	1,252	983	--	--	--	1.6
	Energy Audits	1,883	352	134	168	49	5.6
	Direct Electricity Load Control	1,784	451	223	172	56	6
	Special Rate Schedule (c)	1,951	284	--	--	--	1.6
	Standby Generation Program	2,036	199	142	7	50	8.4
	Equipment Rebates	2,182	53	--	--	--	1.6
	Power Factor Correction or Improvement	1,862	373	179	132	61	4.7
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	2,174	61	--	--	--	1.5
	U.S. Environmental Protection Agency's Energy Star Program	2,214	21	--	--	--	1.9
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1.1
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1.4
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	2,047	188	117	20	50	5.8
	Compressed Air Systems (e)	1,934	301	220	28	52	5.1
	Direct/Indirect Process Heating	2,040	195	148	0	47	7.9
	Direct Process Cooling, Refrigeration	2,161	74	26	0	48	8.3
	Direct Machine Drive (f)	1,758	477	352	69	57	5.3
	Facility HVAC (g)	2,064	171	107	17	47	7.9
	Facility Lighting	2,026	209	125	30	54	6.6
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	2,131	104	51	5	48	8.3
	Other (i)	2,186	49	13	11	25	8
	Full-Time Energy Manager (j)	2,213	22	--	--	--	1.8
3212	**Veneer, Plywood, and Engineered Woods**						
	Participation in One or More of the Following Types of Activities	865	613	--	--	--	1.7
	Energy Audits	1,165	313	101	164	48	6.7
	Direct Electricity Load Control	1,288	190	64	118	7	4.4
	Special Rate Schedule (c)	1,385	93	--	--	--	1.6
	Standby Generation Program	1,400	78	25	6	47	10.2
	Equipment Rebates	1,437	41	--	--	--	1.6
	Power Factor Correction or Improvement	1,260	218	79	84	55	6.3
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	1,443	35	--	--	--	1.6

Table 8.1 Number of Establishments by Participation in Energy-Management Activity, 2002
Level: National Data;
Row: Energy-Management Activities within NAICS Codes;
Column: Participation and Source of Financial Support for Activity;
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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	U.S. Environmental Protection Agency's Energy Star Program	1,473	5	--	--	--	1.7
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1.6
	Other Federally Sponsored Energy or Environmental Management Program	1,470	8	--	--	--	1.9
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	1,314	164	91	13	60	6.5
	Compressed Air Systems (e)	1,107	371	285	27	60	5.7
	Direct/Indirect Process Heating	1,401	77	54	8	14	7.9
	Direct Process Cooling, Refrigeration	1,421	57	36	8	13	9.1
	Direct Machine Drive (f)	1,273	205	144	43	18	9.6
	Facility HVAC (g)	1,314	164	119	25	21	9.6
	Facility Lighting	1,280	198	111	66	21	9
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	1,394	84	9	28	47	7.4
	Other (i)	1,455	23	0	7	15	10.6
	Full-Time Energy Manager (j)	1,459	19	--	--	--	1.6
3219	**Other Wood Products**						
	Participation in One or More of the Following Types of Activities	4,036	2,425	--	--	--	1.3
	Energy Audits	5,535	926	347	395	184	4.5
	Direct Electricity Load Control	5,683	778	260	302	215	4.6
	Special Rate Schedule (c)	6,195	266	--	--	--	1.5
	Standby Generation Program	6,123	338	142	W	W	5.2
	Equipment Rebates	6,336	125	--	--	--	1.4
	Power Factor Correction or Improvement	5,814	647	208	215	225	4.7
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	6,425	36	--	--	--	1.2
	U.S. Environmental Protection Agency's Energy Star Program	6,367	94	--	--	--	1.4
	U.S. Environmental Protection Agency's Green Lights Program	6,447	14	--	--	--	1.2
	Other Federally Sponsored Energy or Environmental Management Program	6,411	50	--	--	--	1.7
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	6,034	427	256	W	W	5.6
	Compressed Air Systems (e)	5,049	1,412	950	223	239	4.1
	Direct/Indirect Process Heating	5,907	554	320	W	W	5.2
	Direct Process Cooling, Refrigeration	6,187	274	105	W	W	4
	Direct Machine Drive (f)	5,453	1,008	770	23	215	4.5
	Facility HVAC (g)	5,238	1,223	913	63	246	4.5
	Facility Lighting	5,336	1,125	744	131	250	4.8
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	6,058	403	161	61	180	6.4
	Other (i)	6,451	10	0	W	W	5.5
	Full-Time Energy Manager (j)	6,432	29	--	--	--	1.4
322	**PAPER**						
	Participation in One or More of the Following Types of Activities	1,850	2,407	--	--	--	1
	Energy Audits	3,273	984	451	432	101	2.6
	Direct Electricity Load Control	3,397	860	502	248	110	2.7

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Special Rate Schedule (c)	3,544	713	--	--	--	1.1
	Standby Generation Program	4,076	181	127	24	30	3.2
	Equipment Rebates	4,075	182	--	--	--	1.3
	Power Factor Correction or Improvement	3,584	673	361	199	113	3.2
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	3,928	329	--	--	--	1.4
	U.S. Environmental Protection Agency's Energy Star Program	4,178	79	--	--	--	1.4
	U.S. Environmental Protection Agency's Green Lights Program	4,219	38	--	--	--	1.6
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	3,717	535	403	93	39	4.3
	Compressed Air Systems (e)	3,108	1,149	1,014	85	51	3.3
	Direct/Indirect Process Heating	3,782	475	285	79	111	3.1
	Direct Process Cooling, Refrigeration	4,025	232	161	32	39	4.7
	Direct Machine Drive (f)	3,018	1,239	1,022	113	103	3.2
	Facility HVAC (g)	3,534	723	489	153	81	3.1
	Facility Lighting	3,402	855	543	187	125	3.2
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	4,058	199	55	53	91	5.3
	Other (i)	4,133	124	84	16	24	2.3
	Full-Time Energy Manager (j)	4,127	130	--	--	--	1.3
322110	**Pulp Mills**						
	Participation in One or More of the Following Types of Activities	3	31	--	--	--	1.4
	Energy Audits	15	19	12	7	0	1
	Direct Electricity Load Control	14	20	17	W	W	1
	Special Rate Schedule (c)	16	18	--	--	--	1
	Standby Generation Program	29	5	W	W	0	1
	Equipment Rebates	W	W	--	--	--	1
	Power Factor Correction or Improvement	17	17	12	3	1	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	25	9	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	34	0	--	--	--	1.1
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1
	Other Federally Sponsored Energy or Environmental Management Program	34	0	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	13	21	21	0	0	1
	Compressed Air Systems (e)	15	19	14	4	0	1
	Direct/Indirect Process Heating	18	16	16	0	0	1
	Direct Process Cooling, Refrigeration	W	W	W	0	0	1
	Direct Machine Drive (f)	14	20	20	0	0	1
	Facility HVAC (g)	21	13	W	W	0	1
	Facility Lighting	30	4	4	0	0	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	34	0	0	0	0	1.2
	Other (i)	W	W	0	W	0	1
	Full-Time Energy Manager (j)	27	7	--	--	--	1

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
322121	**Paper Mills, except Newsprint**						
	Participation in One or More of the Following Types of Activities	23	300	--	--	--	2.4
	Energy Audits	122	201	115	78	7	12.3
	Direct Electricity Load Control	185	138	86	45	7	12.8
	Special Rate Schedule (c)	183	140	--	--	--	2
	Standby Generation Program	275	48	32	9	7	8.6
	Equipment Rebates	295	28	--	--	--	2
	Power Factor Correction or Improvement	148	175	89	72	14	13.8
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	252	71	--	--	--	2.5
	U.S. Environmental Protection Agency's Energy Star Program	315	8	--	--	--	1.6
	U.S. Environmental Protection Agency's Green Lights Program	313	10	--	--	--	2.4
	Other Federally Sponsored Energy or Environmental Management Program	318	5	--	--	--	1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	164	159	118	27	14	17.2
	Compressed Air Systems (e)	179	144	96	20	28	12.5
	Direct/Indirect Process Heating	216	107	76	6	25	7.1
	Direct Process Cooling, Refrigeration	274	49	25	0	24	9.7
	Direct Machine Drive (f)	122	201	145	43	13	15.1
	Facility HVAC (g)	246	77	43	7	27	8.2
	Facility Lighting	190	133	92	27	14	17.6
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	272	51	23	Q	6	12.5
	Other (i)	297	26	14	10	2	3
	Full-Time Energy Manager (j)	274	49	--	--	--	2
322122	**Newsprint Mills**						
	Participation in One or More of the Following Types of Activities	W	W	--	--	--	1
	Energy Audits	9	12	8	4	0	1
	Direct Electricity Load Control	8	13	9	4	0	1
	Special Rate Schedule (c)	12	9	--	--	--	1
	Standby Generation Program	21	0	0	0	0	1.2
	Equipment Rebates	W	W	--	--	--	1
	Power Factor Correction or Improvement	16	5	W	W	0	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	13	8	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	21	0	--	--	--	1.1
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	14	7	W	W	0	1
	Compressed Air Systems (e)	13	8	5	W	W	1
	Direct/Indirect Process Heating	14	7	W	W	0	1
	Direct Process Cooling, Refrigeration	21	0	0	0	0	1.2
	Direct Machine Drive (f)	14	7	W	W	0	1
	Facility HVAC (g)	W	W	W	W	0	1
	Facility Lighting	17	4	4	0	0	1

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	W	W	W	0	0	1
	Other (i)	W	W	0	W	0	1
	Full-Time Energy Manager (j)	W	W	--	--	--	1
322130	**Paperboard Mills**						
	Participation in One or More of the Following Types of Activities	36	174	--	--	--	1.2
	Energy Audits	120	90	67	18	6	2.4
	Direct Electricity Load Control	120	90	62	21	6	2.9
	Special Rate Schedule (c)	128	82	--	--	--	1.3
	Standby Generation Program	194	16	10	4	2	1.1
	Equipment Rebates	184	26	--	--	--	1.8
	Power Factor Correction or Improvement	129	81	62	18	2	1.9
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	166	44	--	--	--	1.2
	U.S. Environmental Protection Agency's Energy Star Program	205	5	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	206	4	--	--	--	1
	Other Federally Sponsored Energy or Environmental Management Program	207	3	--	--	--	1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	122	88	70	15	4	2.5
	Compressed Air Systems (e)	96	114	103	9	2	1.5
	Direct/Indirect Process Heating	142	68	62	W	W	1.6
	Direct Process Cooling, Refrigeration	186	24	21	W	W	3.1
	Direct Machine Drive (f)	81	129	108	16	6	2.5
	Facility HVAC (g)	166	44	39	0	4	2.8
	Facility Lighting	158	52	43	3	5	2.2
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	188	22	16	5	1	2.7
	Other (i)	198	12	5	4	3	1
	Full-Time Energy Manager (j)	176	34	--	--	--	1.3
323	**PRINTING AND RELATED SUPPORT**						
	Participation in One or More of the Following Types of Activities	14,537	5,683	--	--	--	1.5
	Energy Audits	18,139	2,081	686	946	449	7.4
	Direct Electricity Load Control	18,653	1,567	405	586	576	8
	Special Rate Schedule (c)	19,437	783	--	--	--	1.8
	Standby Generation Program	19,436	784	385	46	352	10
	Equipment Rebates	19,981	239	--	--	--	1.9
	Power Factor Correction or Improvement	18,487	1,733	741	508	484	8.1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	19,848	372	--	--	--	1.9
	U.S. Environmental Protection Agency's Energy Star Program	19,618	602	--	--	--	2
	U.S. Environmental Protection Agency's Green Lights Program	20,156	64	--	--	--	2
	Other Federally Sponsored Energy or Environmental Management Program	20,108	112	--	--	--	2.2
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	19,677	543	327	6	210	11.1
	Compressed Air Systems (e)	18,116	2,104	1,618	196	291	8.4

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Direct/Indirect Process Heating	19,102	1,118	714	158	245	10.1
	Direct Process Cooling, Refrigeration	19,075	1,145	622	183	340	9.5
	Direct Machine Drive (f)	18,150	2,070	1,354	112	605	8.9
	Facility HVAC (g)	17,159	3,061	1,958	599	505	6.6
	Facility Lighting	17,672	2,548	1,627	360	560	6.6
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	19,770	450	99	110	241	14.1
	Other (i)	20,002	218	18	11	190	12.7
	Full-Time Energy Manager (j)	20,005	215	--	--	--	2.2
324	**PETROLEUM AND COAL PRODUCTS**						
	Participation in One or More of the Following Types of Activities	711	1,205	--	--	--	2.5
	Energy Audits	1,288	628	305	299	24	12.1
	Direct Electricity Load Control	1,439	477	224	220	33	13.3
	Special Rate Schedule (c)	1,396	520	--	--	--	2.4
	Standby Generation Program	1,760	156	126	W	W	6.5
	Equipment Rebates	1,781	135	--	--	--	2.1
	Power Factor Correction or Improvement	1,476	440	298	109	33	12.8
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	1,727	189	--	--	--	2.2
	U.S. Environmental Protection Agency's Energy Star Program	1,891	25	--	--	--	2.2
	U.S. Environmental Protection Agency's Green Lights Program	1,879	Q	--	--	--	1.3
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	1,587	329	282	Q	13	17.2
	Compressed Air Systems (e)	1,704	212	187	Q	11	12.6
	Direct/Indirect Process Heating	1,505	411	359	Q	13	15.6
	Direct Process Cooling, Refrigeration	1,847	69	52	W	W	7.3
	Direct Machine Drive (f)	1,331	585	450	110	26	15.2
	Facility HVAC (g)	1,654	262	216	34	13	14.9
	Facility Lighting	1,664	252	208	Q	23	11.4
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	1,745	171	105	W	W	12
	Other (i)	1,826	90	40	7	42	11.6
	Full-Time Energy Manager (j)	1,845	71	--	--	--	1.7
324110	**Petroleum Refineries**						
	Participation in One or More of the Following Types of Activities	32	183	--	--	--	2.2
	Energy Audits	109	106	77	14	14	1.9
	Direct Electricity Load Control	146	69	46	9	14	1.6
	Special Rate Schedule (c)	143	72	--	--	--	1.1
	Standby Generation Program	173	42	38	W	W	1
	Equipment Rebates	203	12	--	--	--	1
	Power Factor Correction or Improvement	118	97	68	11	18	2.1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	197	18	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	210	5	--	--	--	1

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	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	102	113	104	8	1	1.5
	Compressed Air Systems (e)	153	62	55	3	3	1.3
	Direct/Indirect Process Heating	105	110	102	6	2	1.5
	Direct Process Cooling, Refrigeration	173	42	35	W	W	1.3
	Direct Machine Drive (f)	147	68	54	9	5	1.3
	Facility HVAC (g)	184	31	23	4	3	1.6
	Facility Lighting	184	31	27	W	W	1.6
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	170	45	29	W	W	5.1
	Other (i)	176	39	35	W	W	1.6
	Full-Time Energy Manager (j)	168	47	--	--	--	1
324199	**Other Petroleum and Coal Products**						
	Participation in One or More of the Following Types of Activities	13	34	--	--	--	1
	Energy Audits	40	7	W	W	0	1
	Direct Electricity Load Control	37	10	7	W	W	1
	Special Rate Schedule (c)	42	5	--	--	--	1
	Standby Generation Program	34	13	11	0	1	1
	Equipment Rebates	47	0	--	--	--	1.1
	Power Factor Correction or Improvement	28	19	17	0	3	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	W	W	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	47	0	--	--	--	1.1
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1
	Other Federally Sponsored Energy or Environmental Management Program	47	0	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	39	8	6	0	2	1
	Compressed Air Systems (e)	28	19	18	0	1	1
	Direct/Indirect Process Heating	W	W	W	0	1	1
	Direct Process Cooling, Refrigeration	43	4	W	0	W	1
	Direct Machine Drive (f)	27	20	18	0	3	1
	Facility HVAC (g)	41	6	W	W	1	1
	Facility Lighting	41	6	W	W	1	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	W	W	W	0	1	1
	Other (i)	47	0	0	0	0	1.2
	Full-Time Energy Manager (j)	W	W	--	--	--	1
325	**CHEMICALS**						
	Participation in One or More of the Following Types of Activities	4,005	4,904	--	--	--	1.3
	Energy Audits	6,157	2,752	1,259	1,291	202	3.4
	Direct Electricity Load Control	7,072	1,837	987	613	237	4.7
	Special Rate Schedule (c)	7,417	1,492	--	--	--	1.2
	Standby Generation Program	8,102	807	539	101	168	3.7

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Equipment Rebates	8,524	385	--	--	--	1.2
	Power Factor Correction or Improvement	7,337	1,572	971	378	223	4.9
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	8,206	703	--	--	--	1.3
	U.S. Environmental Protection Agency's Energy Star Program	8,779	130	--	--	--	1.4
	U.S. Environmental Protection Agency's Green Lights Program	8,701	208	--	--	--	1.3
	Other Federally Sponsored Energy or Environmental Management Program	8,871	38	--	--	--	1.2
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	7,537	1,372	895	317	160	3.5
	Compressed Air Systems (e)	6,804	2,105	1,503	297	305	3.6
	Direct/Indirect Process Heating	7,773	1,136	706	311	118	3.2
	Direct Process Cooling, Refrigeration	7,729	1,180	847	246	88	3.2
	Direct Machine Drive (f)	6,875	2,034	1,603	250	181	3.8
	Facility HVAC (g)	6,955	1,954	1,207	462	285	3.4
	Facility Lighting	7,022	1,887	1,113	488	286	3.4
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	8,427	482	206	150	126	3.5
	Other (i)	8,583	326	228	19	80	3.6
	Full-Time Energy Manager (j)	8,442	467	--	--	--	1.5
325110	**Petrochemicals**						
	Participation in One or More of the Following Types of Activities	5	32	--	--	--	1
	Energy Audits	17	20	W	W	0	1
	Direct Electricity Load Control	27	10	W	W	0	1
	Special Rate Schedule (c)	28	9	--	--	--	1
	Standby Generation Program	31	6	6	0	0	1.5
	Equipment Rebates	37	0	--	--	--	1.1
	Power Factor Correction or Improvement	24	13	W	W	0	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	31	6	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	37	0	--	--	--	1.1
	U.S. Environmental Protection Agency's Green Lights Program	37	0	--	--	--	1.1
	Other Federally Sponsored Energy or Environmental Management Program	37	0	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	23	14	14	0	0	1
	Compressed Air Systems (e)	29	8	8	0	0	1
	Direct/Indirect Process Heating	27	10	10	0	0	1
	Direct Process Cooling, Refrigeration	33	4	4	0	0	1
	Direct Machine Drive (f)	28	9	9	0	0	1
	Facility HVAC (g)	34	3	3	0	0	1
	Facility Lighting	W	W	W	0	0	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	37	0	0	0	0	1.2
	Other (i)	31	6	W	W	0	1
	Full-Time Energy Manager (j)	28	9	--	--	--	1
325120	**Industrial Gases**						

Table 8.1 Number of Establishments by Participation in Energy-Management Activity, 2002
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Column: Participation and Source of Financial Support for Activity;
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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Participation in One or More of the Following Types of Activities	247	280	--	--	--	2.7
	Energy Audits	313	214	W	W	0	10.8
	Direct Electricity Load Control	307	220	210	8	1	7.8
	Special Rate Schedule (c)	278	249	--	--	--	2.5
	Standby Generation Program	524	3	3	0	0	14.3
	Equipment Rebates	522	5	--	--	--	2.3
	Power Factor Correction or Improvement	312	215	W	W	0	10.8
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	370	157	--	--	--	2.5
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1.1
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1.1
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	493	34	W	W	1	1.1
	Compressed Air Systems (e)	314	213	208	W	W	4.3
	Direct/Indirect Process Heating	365	162	W	W	1	3.5
	Direct Process Cooling, Refrigeration	312	215	W	W	1	4.4
	Direct Machine Drive (f)	315	212	W	W	1	4.3
	Facility HVAC (g)	515	12	W	W	1	4.1
	Facility Lighting	395	132	109	0	23	9.3
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	W	W	W	0	0	1.2
	Other (i)	495	32	31	0	1	1.2
	Full-Time Energy Manager (j)	264	263	--	--	--	2.7
325181	**Alkalies and Chlorine**						
	Participation in One or More of the Following Types of Activities	8	25	--	--	--	1
	Energy Audits	18	15	15	0	0	1
	Direct Electricity Load Control	15	18	W	W	0	1
	Special Rate Schedule (c)	16	17	--	--	--	1
	Standby Generation Program	30	3	W	W	0	1
	Equipment Rebates	W	W	--	--	--	1
	Power Factor Correction or Improvement	14	19	W	W	1	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	22	11	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	33	0	--	--	--	1.1
	Other Federally Sponsored Energy or Environmental Management Program	33	0	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	22	11	8	W	W	1.1
	Compressed Air Systems (e)	21	12	W	W	0	1
	Direct/Indirect Process Heating	26	7	7	0	0	1
	Direct Process Cooling, Refrigeration	27	6	6	0	0	1
	Direct Machine Drive (f)	19	14	12	0	2	1.2
	Facility HVAC (g)	27	6	6	0	0	1
	Facility Lighting	27	6	W	W	0	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	W	W	W	0	0	1

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Other (i)	W	W	W	0	1	1
	Full-Time Energy Manager (j)	W	W	--	--	--	1
325182	**Carbon Black**						
	Participation in One or More of the Following Types of Activities	6	16	--	--	--	1
	Energy Audits	13	9	8	0	1	1
	Direct Electricity Load Control	15	7	W	W	0	1
	Special Rate Schedule (c)	18	4	--	--	--	1
	Standby Generation Program	17	5	W	W	0	1
	Equipment Rebates	22	0	--	--	--	1.1
	Power Factor Correction or Improvement	13	9	W	W	0	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	W	W	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	22	0	--	--	--	1.1
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1
	Other Federally Sponsored Energy or Environmental Management Program	22	0	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	17	5	5	0	0	1
	Compressed Air Systems (e)	17	5	5	0	0	1
	Direct/Indirect Process Heating	16	6	6	0	0	1
	Direct Process Cooling, Refrigeration	22	0	0	0	0	1.2
	Direct Machine Drive (f)	15	7	7	0	0	1
	Facility HVAC (g)	W	W	W	0	0	1
	Facility Lighting	15	7	6	0	1	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	17	5	W	W	0	1
	Other (i)	22	0	0	0	0	1.2
	Full-Time Energy Manager (j)	W	W	--	--	--	1
325188	**Other Basic Inorganic Chemicals**						
	Participation in One or More of the Following Types of Activities	216	299	--	--	--	2.1
	Energy Audits	392	123	37	Q	7	15.2
	Direct Electricity Load Control	396	119	43	Q	6	21.9
	Special Rate Schedule (c)	438	77	--	--	--	2.2
	Standby Generation Program	495	20	15	0	5	7.3
	Equipment Rebates	499	16	--	--	--	1.2
	Power Factor Correction or Improvement	385	130	43	21	66	18.3
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	495	20	--	--	--	1.8
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1.2
	U.S. Environmental Protection Agency's Green Lights Program	511	4	--	--	--	1.2
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1.2
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	463	52	41	6	5	6.3
	Compressed Air Systems (e)	445	70	56	9	5	7.4
	Direct/Indirect Process Heating	474	41	29	7	5	9.9
	Direct Process Cooling, Refrigeration	495	20	13	W	W	3.3

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Direct Machine Drive (f)	458	57	47	5	5	5.4
	Facility HVAC (g)	414	101	W	W	19	7.1
	Facility Lighting	461	54	28	6	20	3.4
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	503	12	4	W	W	3.6
	Other (i)	456	Q	W	0	W	3.6
	Full-Time Energy Manager (j)	W	W	--	--	--	1.2
325192	**Cyclic Crudes and Intermediates**						
	Participation in One or More of the Following Types of Activities	10	27	--	--	--	1
	Energy Audits	20	17	13	4	0	1
	Direct Electricity Load Control	28	9	W	W	0	1
	Special Rate Schedule (c)	24	13	--	--	--	1
	Standby Generation Program	31	6	5	0	1	1
	Equipment Rebates	W	W	--	--	--	1
	Power Factor Correction or Improvement	29	8	5	4	0	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	32	5	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	37	0	--	--	--	1.1
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	27	10	W	W	0	1
	Compressed Air Systems (e)	31	6	6	0	0	1
	Direct/Indirect Process Heating	31	6	6	0	0	1
	Direct Process Cooling, Refrigeration	33	4	4	0	0	1
	Direct Machine Drive (f)	33	4	4	0	0	1
	Facility HVAC (g)	32	5	W	W	1	1
	Facility Lighting	W	W	W	W	W	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	29	8	5	W	W	1
	Other (i)	37	0	0	0	0	1.2
	Full-Time Energy Manager (j)	33	4	--	--	--	1
325193	**Ethyl Alcohol**						
	Participation in One or More of the Following Types of Activities	8	40	--	--	--	1
	Energy Audits	22	26	0	23	3	1
	Direct Electricity Load Control	19	29	17	9	3	1
	Special Rate Schedule (c)	41	7	--	--	--	1
	Standby Generation Program	41	7	6	0	2	1
	Equipment Rebates	43	5	--	--	--	1
	Power Factor Correction or Improvement	29	19	8	7	4	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	44	4	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	48	0	--	--	--	1.1
	U.S. Environmental Protection Agency's Green Lights Program	48	0	--	--	--	1.1
	Other Federally Sponsored Energy or Environmental Management Program	48	0	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of**						

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	Improving Energy Efficiency Affecting:						
	Steam Production/System (d)	32	16	W	W	0	1
	Compressed Air Systems (e)	38	10	8	0	2	1
	Direct/Indirect Process Heating	34	14	12	0	2	1
	Direct Process Cooling, Refrigeration	37	11	9	0	2	1
	Direct Machine Drive (f)	33	15	9	3	3	1
	Facility HVAC (g)	44	4	W	0	W	1
	Facility Lighting	44	4	W	0	W	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	44	4	0	W	W	1
	Other (i)	48	0	0	0	0	1.2
	Full-Time Energy Manager (j)	W	W	--	--	--	1.1
325199	**Other Basic Organic Chemicals**						
	Participation in One or More of the Following Types of Activities	141	437	--	--	--	1.4
	Energy Audits	361	217	142	69	6	2.2
	Direct Electricity Load Control	446	132	73	48	11	2.3
	Special Rate Schedule (c)	408	170	--	--	--	1.3
	Standby Generation Program	495	83	73	6	4	2.6
	Equipment Rebates	552	26	--	--	--	1.1
	Power Factor Correction or Improvement	452	126	99	20	6	2.8
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	496	82	--	--	--	1.3
	U.S. Environmental Protection Agency's Energy Star Program	570	8	--	--	--	1.1
	U.S. Environmental Protection Agency's Green Lights Program	559	19	--	--	--	1.3
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	398	180	130	44	5	2.5
	Compressed Air Systems (e)	409	169	136	29	4	2.7
	Direct/Indirect Process Heating	452	126	119	W	W	2.2
	Direct Process Cooling, Refrigeration	435	143	91	48	4	2.5
	Direct Machine Drive (f)	374	204	169	32	4	2.6
	Facility HVAC (g)	444	134	72	57	5	2.4
	Facility Lighting	520	58	52	W	W	1.4
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	555	23	20	0	3	1.6
	Other (i)	554	24	15	W	W	1.3
	Full-Time Energy Manager (j)	551	27	--	--	--	1.1
325211	**Plastics Materials and Resins**						
	Participation in One or More of the Following Types of Activities	330	379	--	--	--	1.4
	Energy Audits	479	230	87	106	36	2.5
	Direct Electricity Load Control	561	148	55	75	19	2.2
	Special Rate Schedule (c)	612	97	--	--	--	1.3
	Standby Generation Program	641	68	61	W	W	1.5
	Equipment Rebates	680	29	--	--	--	1.4
	Power Factor Correction or Improvement	604	105	51	46	8	1.9

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	Interval Metering (needed to manage energy use for programs such as real-time pricing)	658	51	--	--	--	1.3
	U.S. Environmental Protection Agency's Energy Star Program	691	18	--	--	--	1.6
	U.S. Environmental Protection Agency's Green Lights Program	690	19	--	--	--	1.6
	Other Federally Sponsored Energy or Environmental Management Program	705	4	--	--	--	1.3
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	602	107	84	19	3	2.1
	Compressed Air Systems (e)	554	155	112	33	10	2.6
	Direct/Indirect Process Heating	635	74	51	17	6	2.1
	Direct Process Cooling, Refrigeration	625	84	53	27	5	2
	Direct Machine Drive (f)	605	104	73	27	5	2
	Facility HVAC (g)	565	144	97	25	22	3.5
	Facility Lighting	592	117	84	27	6	2.5
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	680	29	21	4	5	2.7
	Other (i)	694	15	8	W	W	1.6
	Full-Time Energy Manager (j)	689	20	--	--	--	1.1
325212	**Synthetic Rubber**						
	Participation in One or More of the Following Types of Activities	56	69	--	--	--	1.4
	Energy Audits	96	29	24	4	1	1.2
	Direct Electricity Load Control	101	24	W	W	0	1.3
	Special Rate Schedule (c)	98	27	--	--	--	1.2
	Standby Generation Program	W	W	W	0	0	1.4
	Equipment Rebates	125	0	--	--	--	1.4
	Power Factor Correction or Improvement	94	31	12	18	1	1.3
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	108	17	--	--	--	1.2
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1.2
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1.4
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1.2
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	101	24	24	0	0	2.2
	Compressed Air Systems (e)	87	38	28	10	0	2
	Direct/Indirect Process Heating	110	15	10	5	0	1.3
	Direct Process Cooling, Refrigeration	118	7	W	W	0	3.1
	Direct Machine Drive (f)	87	38	35	W	W	1.3
	Facility HVAC (g)	95	30	27	W	W	1.7
	Facility Lighting	101	24	21	W	W	1.6
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	W	W	0	0	W	1.4
	Other (i)	W	W	W	0	0	1.4
	Full-Time Energy Manager (j)	111	14	--	--	--	1.2
325222	**Noncellulosic Organic Fibers**						
	Participation in One or More of the Following Types of Activities	11	53	--	--	--	1
	Energy Audits	30	34	20	11	3	1

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	Direct Electricity Load Control	41	23	13	8	3	1
	Special Rate Schedule (c)	31	33	--	--	--	1
	Standby Generation Program	55	9	8	0	1	1
	Equipment Rebates	W	W	--	--	--	1
	Power Factor Correction or Improvement	33	31	19	10	1	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	50	14	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	59	5	--	--	--	1
	Other Federally Sponsored Energy or Environmental Management Program	60	4	--	--	--	1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	46	18	10	5	3	1
	Compressed Air Systems (e)	37	27	20	4	3	1
	Direct/Indirect Process Heating	53	11	6	4	1	1
	Direct Process Cooling, Refrigeration	50	14	9	W	W	1
	Direct Machine Drive (f)	31	33	25	W	W	1
	Facility HVAC (g)	45	19	15	W	W	1
	Facility Lighting	43	21	15	5	1	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	55	9	5	W	W	1
	Other (i)	64	0	0	0	0	1.2
	Full-Time Energy Manager (j)	53	11	--	--	--	1
325311	**Nitrogenous Fertilizers**						
	Participation in One or More of the Following Types of Activities	25	31	--	--	--	1
	Energy Audits	41	15	12	3	0	1
	Direct Electricity Load Control	42	14	10	W	W	1
	Special Rate Schedule (c)	43	13	--	--	--	1
	Standby Generation Program	50	6	6	0	0	1
	Equipment Rebates	W	W	--	--	--	1
	Power Factor Correction or Improvement	44	12	W	W	0	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	52	4	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1
	Other Federally Sponsored Energy or Environmental Management Program	56	0	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	44	12	12	0	0	1
	Compressed Air Systems (e)	45	11	11	0	0	1
	Direct/Indirect Process Heating	46	10	W	W	0	1
	Direct Process Cooling, Refrigeration	48	8	8	0	0	1
	Direct Machine Drive (f)	43	13	13	0	0	1
	Facility HVAC (g)	48	8	8	0	0	1
	Facility Lighting	45	11	W	W	0	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	56	0	0	0	0	1.2
	Other (i)	50	6	W	W	1	1
	Full-Time Energy Manager (j)	50	6	--	--	--	1

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325312	**Phosphatic Fertilizers**						
	Participation in One or More of the Following Types of Activities	W	W	--	--	--	1
	Energy Audits	19	8	4	W	W	1
	Direct Electricity Load Control	10	17	5	6	5	1
	Special Rate Schedule (c)	9	18	--	--	--	1
	Standby Generation Program	22	5	W	0	W	1
	Equipment Rebates	27	0	--	--	--	1.1
	Power Factor Correction or Improvement	12	15	10	W	W	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	W	W	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1
	Other Federally Sponsored Energy or Environmental Management Program	27	0	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	19	8	7	0	1	1
	Compressed Air Systems (e)	22	5	5	0	0	1
	Direct/Indirect Process Heating	22	5	5	0	0	1
	Direct Process Cooling, Refrigeration	23	4	4	0	0	1
	Direct Machine Drive (f)	17	10	10	0	0	1
	Facility HVAC (g)	23	4	4	0	0	1
	Facility Lighting	21	6	6	0	0	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	W	W	W	0	0	1
	Other (i)	27	0	0	0	0	1.2
	Full-Time Energy Manager (j)	22	5	--	--	--	1
3254	**Pharmaceuticals and Medicines**						
	Participation in One or More of the Following Types of Activities	479	664	--	--	--	1.8
	Energy Audits	738	405	273	123	9	5.1
	Direct Electricity Load Control	989	154	128	12	15	4.2
	Special Rate Schedule (c)	950	193	--	--	--	1.9
	Standby Generation Program	923	220	187	16	17	5
	Equipment Rebates	1,080	63	--	--	--	2
	Power Factor Correction or Improvement	1,035	108	61	21	26	7.3
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	1,078	65	--	--	--	2.2
	U.S. Environmental Protection Agency's Energy Star Program	1,100	43	--	--	--	2.1
	U.S. Environmental Protection Agency's Green Lights Program	1,123	20	--	--	--	1.6
	Other Federally Sponsored Energy or Environmental Management Program	1,139	4	--	--	--	1.2
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	891	252	125	125	2	5.6
	Compressed Air Systems (e)	787	356	242	90	24	9.9
	Direct/Indirect Process Heating	896	247	58	184	4	7.7
	Direct Process Cooling, Refrigeration	1,004	139	65	65	8	5.8
	Direct Machine Drive (f)	847	296	205	79	12	10.9
	Facility HVAC (g)	867	276	195	72	8	4.9

Table 8.1 Number of Establishments by Participation in Energy-Management Activity, 2002
Level: National Data;
Row: Energy-Management Activities within NAICS Codes;
Column: Participation and Source of Financial Support for Activity;
Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Facility Lighting	796	347	247	87	13	8.2
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	1,082	61	37	10	14	3.6
	Other (i)	1,073	70	59	8	3	4.5
	Full-Time Energy Manager (j)	1,116	27	--	--	--	1.9
325412	**Pharmaceutical Preparation**						
	Participation in One or More of the Following Types of Activities	200	406	--	--	--	2.2
	Energy Audits	410	196	120	72	3	5.9
	Direct Electricity Load Control	529	77	64	10	2	3.6
	Special Rate Schedule (c)	511	95	--	--	--	2.1
	Standby Generation Program	516	90	80	6	3	7.5
	Equipment Rebates	557	49	--	--	--	2.3
	Power Factor Correction or Improvement	540	66	39	18	9	12.1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	563	43	--	--	--	2.7
	U.S. Environmental Protection Agency's Energy Star Program	569	37	--	--	--	2.4
	U.S. Environmental Protection Agency's Green Lights Program	588	18	--	--	--	1.8
	Other Federally Sponsored Energy or Environmental Management Program	603	3	--	--	--	1.4
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	446	160	80	78	2	8.2
	Compressed Air Systems (e)	352	254	151	83	20	13.4
	Direct/Indirect Process Heating	479	127	42	84	1	7.8
	Direct Process Cooling, Refrigeration	562	44	33	3	8	6.5
	Direct Machine Drive (f)	350	256	169	76	12	13.7
	Facility HVAC (g)	436	170	149	17	4	6.8
	Facility Lighting	380	226	142	79	5	8.4
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	578	28	22	4	1	3.5
	Other (i)	580	26	15	8	3	4.9
	Full-Time Energy Manager (j)	587	19	--	--	--	2.2
325992	**Photographic Film, Paper, Plate, and Chemicals**						
	Participation in One or More of the Following Types of Activities	95	76	--	--	--	2.4
	Energy Audits	137	34	19	11	4	23.4
	Direct Electricity Load Control	124	47	8	4	35	7.2
	Special Rate Schedule (c)	159	12	--	--	--	1.4
	Standby Generation Program	W	W	W	0	1	1.5
	Equipment Rebates	166	5	--	--	--	1.4
	Power Factor Correction or Improvement	122	49	12	W	W	8.2
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	W	W	--	--	--	1.4
	U.S. Environmental Protection Agency's Energy Star Program	168	3	--	--	--	1.4
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1.4
	Other Federally Sponsored Energy or Environmental Management Program	171	0	--	--	--	1.6
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	156	Q	W	W	0	3.4

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Column: Participation and Source of Financial Support for Activity;
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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Compressed Air Systems (e)	129	42	7	4	31	5.3
	Direct/Indirect Process Heating	159	Q	Q	0	0	10.4
	Direct Process Cooling, Refrigeration	154	Q	Q	0	0	10.4
	Direct Machine Drive (f)	120	51	Q	3	31	5.8
	Facility HVAC (g)	115	56	19	Q	31	17.2
	Facility Lighting	128	43	12	0	31	7.1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	157	Q	W	W	0	4.8
	Other (i)	W	W	0	0	W	1.6
	Full-Time Energy Manager (j)	W	W	--	--	--	1.4
326	**PLASTICS AND RUBBER PRODUCTS**						
	Participation in One or More of the Following Types of Activities	4,675	5,863	--	--	--	1.1
	Energy Audits	8,133	2,405	799	1,078	528	2.4
	Direct Electricity Load Control	8,657	1,881	781	688	412	2.4
	Special Rate Schedule (c)	9,005	1,533	--	--	--	1.1
	Standby Generation Program	10,118	420	184	19	218	3
	Equipment Rebates	9,827	711	--	--	--	1.2
	Power Factor Correction or Improvement	8,545	1,993	757	813	423	2.4
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	9,938	600	--	--	--	1.2
	U.S. Environmental Protection Agency's Energy Star Program	10,383	155	--	--	--	1.5
	U.S. Environmental Protection Agency's Green Lights Program	10,427	111	--	--	--	1.4
	Other Federally Sponsored Energy or Environmental Management Program	10,508	30	--	--	--	1.4
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	9,993	545	284	82	179	3.5
	Compressed Air Systems (e)	7,753	2,785	2,068	404	312	2.3
	Direct/Indirect Process Heating	9,443	1,095	620	159	315	3.2
	Direct Process Cooling, Refrigeration	9,617	921	658	32	231	2.8
	Direct Machine Drive (f)	8,678	1,860	1,245	307	308	2.4
	Facility HVAC (g)	8,303	2,235	1,448	475	312	2.4
	Facility Lighting	8,824	1,714	1,037	418	259	2.5
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	10,089	449	160	15	274	3
	Other (i)	10,461	77	30	28	19	4.1
	Full-Time Energy Manager (j)	10,382	156	--	--	--	1.4
327	**NONMETALLIC MINERAL PRODUCTS**						
	Participation in One or More of the Following Types of Activities	7,084	4,510	--	--	--	2
	Energy Audits	9,095	2,499	1,191	930	379	12.2
	Direct Electricity Load Control	9,539	2,055	1,112	490	453	11.9
	Special Rate Schedule (c)	10,615	979	--	--	--	1.9
	Standby Generation Program	10,679	915	536	7	372	8.6
	Equipment Rebates	11,131	463	--	--	--	2.1
	Power Factor Correction or Improvement	10,167	1,427	630	413	384	14
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	11,076	518	--	--	--	2
	U.S. Environmental Protection Agency's Energy Star Program	11,477	Q	--	--	--	1.3

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	U.S. Environmental Protection Agency's Green Lights Program	11,382	212	--	--	--	2.3
	Other Federally Sponsored Energy or Environmental Management Program	11,488	106	--	--	--	2.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	10,932	662	441	28	193	16
	Compressed Air Systems (e)	9,711	1,883	1,357	284	242	14.2
	Direct/Indirect Process Heating	10,426	1,168	650	200	317	15.9
	Direct Process Cooling, Refrigeration	10,982	612	298	Q	194	12.7
	Direct Machine Drive (f)	10,233	1,361	1,075	71	215	14.9
	Facility HVAC (g)	9,828	1,766	1,180	224	362	14.8
	Facility Lighting	9,953	1,641	962	305	374	13.6
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	10,937	657	323	50	285	19
	Other (i)	11,288	306	Q	14	173	17.5
	Full-Time Energy Manager (j)	11,415	179	--	--	--	2
3272	**Glass and Glass Products**						
	Participation in One or More of the Following Types of Activities	452	595	--	--	--	2.7
	Energy Audits	767	280	83	168	30	16.6
	Direct Electricity Load Control	776	271	89	157	25	18.2
	Special Rate Schedule (c)	855	192	--	--	--	2.5
	Standby Generation Program	918	129	103	W	W	8.4
	Equipment Rebates	988	59	--	--	--	2.8
	Power Factor Correction or Improvement	824	223	86	112	25	19.5
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	996	51	--	--	--	2.8
	U.S. Environmental Protection Agency's Energy Star Program	1,039	8	--	--	--	1.5
	U.S. Environmental Protection Agency's Green Lights Program	1,036	11	--	--	--	3.1
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1.5
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	1,018	29	16	W	W	5.3
	Compressed Air Systems (e)	702	345	272	15	58	7.6
	Direct/Indirect Process Heating	906	141	87	W	W	12.1
	Direct Process Cooling, Refrigeration	989	58	46	0	12	18.5
	Direct Machine Drive (f)	915	132	111	5	16	8.1
	Facility HVAC (g)	786	261	216	19	27	17.1
	Facility Lighting	823	224	177	20	27	16.5
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	1,008	39	11	W	W	4.7
	Other (i)	1,029	18	5	W	W	6
	Full-Time Energy Manager (j)	1,036	11	--	--	--	2.3
327211	**Flat Glass**						
	Participation in One or More of the Following Types of Activities	3	35	--	--	--	1
	Energy Audits	20	18	8	3	8	1
	Direct Electricity Load Control	20	18	10	0	8	1
	Special Rate Schedule (c)	19	19	--	--	--	1

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Standby Generation Program	12	26	18	0	9	1
	Equipment Rebates	34	4	--	--	--	1
	Power Factor Correction or Improvement	21	17	10	0	8	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	35	3	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	38	0	--	--	--	1.1
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	29	9	W	0	W	1
	Compressed Air Systems (e)	15	23	15	W	W	1
	Direct/Indirect Process Heating	22	16	10	0	6	1
	Direct Process Cooling, Refrigeration	26	12	5	0	6	1
	Direct Machine Drive (f)	14	24	14	W	W	1
	Facility HVAC (g)	23	15	8	0	8	1
	Facility Lighting	25	13	3	W	W	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	27	11	W	W	W	1
	Other (i)	W	W	W	W	0	1
	Full-Time Energy Manager (j)	34	4	--	--	--	1
327213	**Glass Containers**						
	Participation in One or More of the Following Types of Activities	12	49	--	--	--	1
	Energy Audits	37	24	7	13	4	1
	Direct Electricity Load Control	50	11	3	6	1	1
	Special Rate Schedule (c)	49	12	--	--	--	1
	Standby Generation Program	58	3	3	0	0	1
	Equipment Rebates	53	8	--	--	--	1
	Power Factor Correction or Improvement	54	7	4	W	W	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	52	9	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	61	0	--	--	--	1.1
	U.S. Environmental Protection Agency's Green Lights Program	61	0	--	--	--	1.1
	Other Federally Sponsored Energy or Environmental Management Program	61	0	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	W	W	0	W	0	1
	Compressed Air Systems (e)	26	35	21	8	6	1
	Direct/Indirect Process Heating	55	6	W	W	1	1
	Direct Process Cooling, Refrigeration	61	0	0	0	0	1.2
	Direct Machine Drive (f)	45	16	13	W	W	1
	Facility HVAC (g)	54	7	7	0	0	1
	Facility Lighting	50	11	W	W	0	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	58	3	W	0	W	1
	Other (i)	61	0	0	0	0	1.2
	Full-Time Energy Manager (j)	61	0	--	--	--	1.1
327310	**Cements**						

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Participation in One or More of the Following Types of Activities	Q	172	--	--	--	1.7
	Energy Audits	83	112	71	39	2	10.4
	Direct Electricity Load Control	90	105	46	52	7	5.9
	Special Rate Schedule (c)	117	78	--	--	--	1.5
	Standby Generation Program	149	46	38	W	W	6.8
	Equipment Rebates	176	19	--	--	--	1.4
	Power Factor Correction or Improvement	132	63	46	12	4	1.5
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	152	43	--	--	--	1.4
	U.S. Environmental Protection Agency's Energy Star Program	192	3	--	--	--	1.4
	U.S. Environmental Protection Agency's Green Lights Program	192	3	--	--	--	1.4
	Other Federally Sponsored Energy or Environmental Management Program	192	3	--	--	--	1.4
	Equipment Installation or Retrofit for the **Primary Purpose of**						
	Improving Energy Efficiency Affecting:						
	Steam Production/System (d)	191	4	4	0	0	1.7
	Compressed Air Systems (e)	126	69	66	3	0	3.6
	Direct/Indirect Process Heating	149	46	40	W	W	1.9
	Direct Process Cooling, Refrigeration	186	9	9	0	0	1.7
	Direct Machine Drive (f)	128	67	59	3	4	1.5
	Facility HVAC (g)	151	44	34	W	W	3.4
	Facility Lighting	141	54	49	W	W	3.1
	Equipment Installation or Retrofit for the **Primary Purpose of**						
	Using a Different Energy Source (h)	167	28	24	3	1	1.4
	Other (i)	187	8	W	0	W	1.5
	Full-Time Energy Manager (j)	156	39	--	--	--	3.3
327410	**Lime**						
	Participation in One or More of the Following Types of Activities	15	50	--	--	--	1
	Energy Audits	39	26	18	3	4	1
	Direct Electricity Load Control	48	17	10	3	4	1
	Special Rate Schedule (c)	48	17	--	--	--	1
	Standby Generation Program	57	8	W	W	4	1
	Equipment Rebates	62	3	--	--	--	1
	Power Factor Correction or Improvement	41	24	15	3	5	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	61	4	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	65	0	--	--	--	1.1
	Other Federally Sponsored Energy or Environmental Management Program	65	0	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of**						
	Improving Energy Efficiency Affecting:						
	Steam Production/System (d)	60	5	0	W	W	1
	Compressed Air Systems (e)	49	16	11	W	W	1
	Direct/Indirect Process Heating	50	15	10	0	5	1
	Direct Process Cooling, Refrigeration	W	W	0	0	W	0.9
	Direct Machine Drive (f)	34	31	23	W	W	1
	Facility HVAC (g)	52	13	4	0	9	1
	Facility Lighting	52	13	4	0	9	1
	Equipment Installation or Retrofit for the **Primary Purpose of**						

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	Using a Different Energy Source (h)	58	7	W	0	W	1
	Other (i)	62	3	W	W	W	1
	Full-Time Energy Manager (j)	65	0	--	--	--	1.1
327993	**Mineral Wool**						
	Participation in One or More of the Following Types of Activities	63	145	--	--	--	3.2
	Energy Audits	105	103	48	55	0	20.4
	Direct Electricity Load Control	147	61	15	43	3	11.5
	Special Rate Schedule (c)	170	38	--	--	--	2.8
	Standby Generation Program	193	15	W	W	1	5
	Equipment Rebates	197	11	--	--	--	2.9
	Power Factor Correction or Improvement	183	25	13	W	W	9.5
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	161	47	--	--	--	3.1
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1.6
	U.S. Environmental Protection Agency's Green Lights Program	208	0	--	--	--	1.9
	Other Federally Sponsored Energy or Environmental Management Program	208	0	--	--	--	1.9
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	200	8	W	W	0	1.8
	Compressed Air Systems (e)	128	80	35	44	1	11.7
	Direct/Indirect Process Heating	145	63	16	43	5	18.8
	Direct Process Cooling, Refrigeration	204	4	W	W	0	1.8
	Direct Machine Drive (f)	164	44	33	4	7	8.9
	Facility HVAC (g)	144	64	17	42	5	20.5
	Facility Lighting	179	29	19	5	5	8
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	W	W	W	0	0	2.1
	Other (i)	W	W	W	W	0	1.8
	Full-Time Energy Manager (j)	166	42	--	--	--	3.2
331	**PRIMARY METALS**						
	Participation in One or More of the Following Types of Activities	1,663	2,503	--	--	--	1.5
	Energy Audits	2,846	1,320	610	622	89	3.2
	Direct Electricity Load Control	2,914	1,252	706	446	100	3.1
	Special Rate Schedule (c)	3,113	1,053	--	--	--	1.4
	Standby Generation Program	3,860	306	204	32	70	2.7
	Equipment Rebates	3,994	172	--	--	--	1.6
	Power Factor Correction or Improvement	3,118	1,047	666	286	95	3.1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	3,766	400	--	--	--	1.3
	U.S. Environmental Protection Agency's Energy Star Program	4,092	74	--	--	--	1.5
	U.S. Environmental Protection Agency's Green Lights Program	4,100	66	--	--	--	1.5
	Other Federally Sponsored Energy or Environmental Management Program	4,145	21	--	--	--	1.6
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	3,828	338	233	28	77	5.2
	Compressed Air Systems (e)	3,100	1,066	839	130	97	3.3
	Direct/Indirect Process Heating	3,520	646	498	64	85	2.9

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	Direct Process Cooling, Refrigeration	3,937	229	109	52	68	4.9
	Direct Machine Drive (f)	3,260	906	714	109	83	3.4
	Facility HVAC (g)	3,380	786	585	138	63	2.6
	Facility Lighting	3,324	842	648	122	73	2.5
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	3,936	230	141	21	68	2.6
	Other (i)	4,093	73	41	19	12	12.7
	Full-Time Energy Manager (j)	4,070	96	--	--	--	1.3
331111	**Iron and Steel Mills**						
	Participation in One or More of the Following Types of Activities	359	412	--	--	--	2.6
	Energy Audits	484	287	138	125	24	7.4
	Direct Electricity Load Control	557	214	140	49	25	4.8
	Special Rate Schedule (c)	653	118	--	--	--	2.1
	Standby Generation Program	716	55	25	9	21	5.5
	Equipment Rebates	741	30	--	--	--	2.8
	Power Factor Correction or Improvement	558	213	147	44	23	4.8
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	702	69	--	--	--	1.9
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1.5
	U.S. Environmental Protection Agency's Green Lights Program	759	12	--	--	--	2.2
	Other Federally Sponsored Energy or Environmental Management Program	766	5	--	--	--	2.6
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	599	172	148	W	W	5.1
	Compressed Air Systems (e)	661	110	78	7	24	5.8
	Direct/Indirect Process Heating	640	131	102	8	21	7.5
	Direct Process Cooling, Refrigeration	724	47	21	4	22	3
	Direct Machine Drive (f)	572	199	169	9	21	8.3
	Facility HVAC (g)	621	150	125	6	19	3.6
	Facility Lighting	623	148	126	W	W	4.1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	722	49	26	4	19	5.1
	Other (i)	764	7	W	W	0	1.7
	Full-Time Energy Manager (j)	754	17	--	--	--	1.5
331112	**Electrometallurgical Ferroalloy Products**						
	Participation in One or More of the Following Types of Activities	3	12	--	--	--	1
	Energy Audits	W	W	W	W	0	1
	Direct Electricity Load Control	8	7	7	0	0	1
	Special Rate Schedule (c)	5	10	--	--	--	1
	Standby Generation Program	W	W	W	0	0	1
	Equipment Rebates	15	0	--	--	--	1.1
	Power Factor Correction or Improvement	7	8	8	0	0	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	12	3	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	15	0	--	--	--	1.1
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1
	Other Federally Sponsored Energy or Environmental Management Program	15	0	--	--	--	1.1

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Level: National Data;
Row: Energy-Management Activities within NAICS Codes;
Column: Participation and Source of Financial Support for Activity;
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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	W	W	W	0	0	1
	Compressed Air Systems (e)	12	3	3	0	0	1
	Direct/Indirect Process Heating	W	W	W	0	0	1
	Direct Process Cooling, Refrigeration	W	W	W	0	0	1
	Direct Machine Drive (f)	10	5	5	0	0	1
	Facility HVAC (g)	W	W	W	0	0	1
	Facility Lighting	W	W	W	0	0	1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	W	W	W	0	0	1
	Other (i)	15	0	0	0	0	1.2
	Full-Time Energy Manager (j)	W	W	--	--	--	1
3312	**Steel Products from Purchased Steel**						
	Participation in One or More of the Following Types of Activities	254	294	--	--	--	1.7
	Energy Audits	411	137	57	66	14	4.9
	Direct Electricity Load Control	394	154	73	72	9	4.8
	Special Rate Schedule (c)	461	87	--	--	--	1.6
	Standby Generation Program	514	34	21	0	14	5.1
	Equipment Rebates	535	13	--	--	--	2
	Power Factor Correction or Improvement	408	140	91	38	11	5.3
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	520	28	--	--	--	1.6
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1.2
	U.S. Environmental Protection Agency's Green Lights Program	537	11	--	--	--	2
	Other Federally Sponsored Energy or Environmental Management Program	548	0	--	--	--	1.4
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	519	29	13	5	10	5.5
	Compressed Air Systems (e)	413	135	122	5	7	4.1
	Direct/Indirect Process Heating	493	55	33	10	12	6
	Direct Process Cooling, Refrigeration	525	23	16	0	7	7.7
	Direct Machine Drive (f)	429	119	84	27	7	4.3
	Facility HVAC (g)	462	86	57	22	7	4.4
	Facility Lighting	448	100	73	19	7	4.5
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	518	30	18	W	W	4.2
	Other (i)	W	W	0	0	W	10.9
	Full-Time Energy Manager (j)	539	9	--	--	--	1.2
3313	**Alumina and Aluminum**						
	Participation in One or More of the Following Types of Activities	189	257	--	--	--	2
	Energy Audits	W	W	W	W	20	5.1
	Direct Electricity Load Control	308	138	80	43	16	2.9
	Special Rate Schedule (c)	316	130	--	--	--	1.7
	Standby Generation Program	W	W	W	0	16	4.6
	Equipment Rebates	438	8	--	--	--	1.8

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	Power Factor Correction or Improvement	306	140	78	38	24	5.1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	390	56	--	--	--	1.6
	U.S. Environmental Protection Agency's Energy Star Program	428	18	--	--	--	1.7
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1.2
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1.2
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	W	W	W	W	W	2.6
	Compressed Air Systems (e)	332	114	82	16	16	3.9
	Direct/Indirect Process Heating	W	W	W	10	18	5.7
	Direct Process Cooling, Refrigeration	W	W	W	10	16	3.2
	Direct Machine Drive (f)	363	83	58	7	18	6
	Facility HVAC (g)	W	W	W	19	18	6.9
	Facility Lighting	W	W	W	W	W	5.7
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	W	W	W	0	17	6.3
	Other (i)	W	W	W	W	W	4.4
	Full-Time Energy Manager (j)	W	W	--	--	--	1.6
331312	**Primary Aluminum**						
	Participation in One or More of the Following Types of Activities	13	28	--	--	--	1.6
	Energy Audits	20	21	W	W	0	1.6
	Direct Electricity Load Control	17	24	19	5	0	1.7
	Special Rate Schedule (c)	25	16	--	--	--	1.4
	Standby Generation Program	W	W	W	0	0	1.5
	Equipment Rebates	W	W	--	--	--	1.3
	Power Factor Correction or Improvement	22	19	15	4	0	1.6
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	W	W	--	--	--	1.3
	U.S. Environmental Protection Agency's Energy Star Program	41	0	--	--	--	1.5
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1.3
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1.3
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	W	W	W	0	0	1.5
	Compressed Air Systems (e)	24	17	17	0	0	1.8
	Direct/Indirect Process Heating	33	8	8	0	0	1.7
	Direct Process Cooling, Refrigeration	W	W	W	0	0	1.5
	Direct Machine Drive (f)	35	6	6	0	0	1.5
	Facility HVAC (g)	32	9	W	W	0	1.5
	Facility Lighting	31	10	W	W	0	1.5
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	41	0	0	0	0	4.6
	Other (i)	W	W	W	0	0	1.5
	Full-Time Energy Manager (j)	29	12	--	--	--	1.4
3314	**Nonferrous Metals, except Aluminum**						
	Participation in One or More of the Following Types of Activities	245	426	--	--	--	1.6

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	Energy Audits	464	207	109	87	11	3.6
	Direct Electricity Load Control	468	203	120	65	17	3.2
	Special Rate Schedule (c)	494	177	--	--	--	1.6
	Standby Generation Program	607	64	49	7	8	3.4
	Equipment Rebates	621	50	--	--	--	1.7
	Power Factor Correction or Improvement	565	106	66	24	16	3.6
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	625	46	--	--	--	1.6
	U.S. Environmental Protection Agency's Energy Star Program	635	36	--	--	--	1.8
	U.S. Environmental Protection Agency's Green Lights Program	661	10	--	--	--	1.8
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1.5
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	615	56	39	9	8	3.4
	Compressed Air Systems (e)	462	209	184	16	10	4.5
	Direct/Indirect Process Heating	546	125	103	11	11	3.4
	Direct Process Cooling, Refrigeration	640	31	20	4	7	4.7
	Direct Machine Drive (f)	450	221	188	22	11	3.9
	Facility HVAC (g)	516	155	119	29	8	4
	Facility Lighting	507	164	124	36	5	4.9
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	622	49	36	W	W	4
	Other (i)	665	6	4	0	1	2.2
	Full-Time Energy Manager (j)	648	23	--	--	--	1.3
3315	**Foundries**						
	Participation in One or More of the Following Types of Activities	614	1,101	--	--	--	1.7
	Energy Audits	1,181	534	224	291	19	3.2
	Direct Electricity Load Control	1,179	536	287	218	32	5.9
	Special Rate Schedule (c)	1,183	532	--	--	--	1.6
	Standby Generation Program	1,593	122	94	16	12	3.3
	Equipment Rebates	1,645	70	--	--	--	1.4
	Power Factor Correction or Improvement	1,276	439	275	142	22	5.4
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	1,517	198	--	--	--	1.5
	U.S. Environmental Protection Agency's Energy Star Program	1,700	15	--	--	--	1.7
	U.S. Environmental Protection Agency's Green Lights Program	1,694	21	--	--	--	1.6
	Other Federally Sponsored Energy or Environmental Management Program	1,708	7	--	--	--	1.6
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	1,661	54	23	10	22	7.4
	Compressed Air Systems (e)	1,220	495	369	85	41	4.7
	Direct/Indirect Process Heating	1,471	244	196	25	23	4.4
	Direct Process Cooling, Refrigeration	1,623	92	41	34	16	8.5
	Direct Machine Drive (f)	1,436	279	209	44	26	5.1
	Facility HVAC (g)	1,384	331	258	62	11	4.5
	Facility Lighting	1,380	335	268	44	23	3.9
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	1,649	66	42	11	13	4.3
	Other (i)	1,676	39	Q	13	5	15.1

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	Full-Time Energy Manager (j)	1,686	29	--	--	--	1.5
331511	**Iron Foundries**						
	Participation in One or More of the Following Types of Activities	121	332	--	--	--	2.1
	Energy Audits	283	170	66	98	6	4
	Direct Electricity Load Control	252	201	104	91	5	4
	Special Rate Schedule (c)	224	229	--	--	--	1.9
	Standby Generation Program	419	34	28	6	0	5
	Equipment Rebates	434	19	--	--	--	1.9
	Power Factor Correction or Improvement	310	143	101	40	1	4
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	355	98	--	--	--	1.9
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1.2
	U.S. Environmental Protection Agency's Green Lights Program	447	6	--	--	--	1.2
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1.9
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	440	13	8	0	4	4.1
	Compressed Air Systems (e)	276	177	122	49	5	7.8
	Direct/Indirect Process Heating	373	80	65	10	4	8.3
	Direct Process Cooling, Refrigeration	438	15	10	5	0	4.1
	Direct Machine Drive (f)	347	106	79	20	7	7
	Facility HVAC (g)	369	84	62	16	6	7.4
	Facility Lighting	369	84	70	10	4	6.2
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	442	11	W	W	0	5.8
	Other (i)	447	6	0	5	1	3.6
	Full-Time Energy Manager (j)	440	13	--	--	--	1.6
331521	**Aluminum Die-Casting Foundries**						
	Participation in One or More of the Following Types of Activities	114	113	--	--	--	1.1
	Energy Audits	161	66	42	17	7	1.1
	Direct Electricity Load Control	179	48	28	12	8	1.6
	Special Rate Schedule (c)	182	45	--	--	--	1
	Standby Generation Program	205	22	18	W	W	1.5
	Equipment Rebates	206	21	--	--	--	1
	Power Factor Correction or Improvement	187	40	25	9	6	1.6
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	202	25	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	222	5	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	221	6	--	--	--	1
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	207	20	10	0	10	1.2
	Compressed Air Systems (e)	170	57	44	4	9	1.6
	Direct/Indirect Process Heating	183	44	28	5	10	1.3
	Direct Process Cooling, Refrigeration	205	22	11	W	W	1.2
	Direct Machine Drive (f)	184	43	28	7	9	1.1

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	Facility HVAC (g)	183	44	40	W	W	1
	Facility Lighting	176	51	30	6	15	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	213	14	4	4	6	1.3
	Other (i)	W	W	W	0	0	1
	Full-Time Energy Manager (j)	220	7	--	--	--	1
331524	**Aluminum Foundries, except Die-Casting**						
	Participation in One or More of the Following Types of Activities	156	185	--	--	--	1.6
	Energy Audits	264	77	32	43	1	2.6
	Direct Electricity Load Control	271	70	43	21	6	5.8
	Special Rate Schedule (c)	263	78	--	--	--	1.6
	Standby Generation Program	329	12	4	W	W	2.7
	Equipment Rebates	334	7	--	--	--	1.2
	Power Factor Correction or Improvement	253	88	52	32	5	6.1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	319	22	--	--	--	1.6
	U.S. Environmental Protection Agency's Energy Star Program	W	W	--	--	--	1.2
	U.S. Environmental Protection Agency's Green Lights Program	W	W	--	--	--	1.2
	Other Federally Sponsored Energy or Environmental Management Program	W	W	--	--	--	1.2
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	336	5	W	0	W	5.1
	Compressed Air Systems (e)	265	76	52	11	14	6
	Direct/Indirect Process Heating	301	40	29	6	5	4.1
	Direct Process Cooling, Refrigeration	331	10	4	W	W	3.1
	Direct Machine Drive (f)	311	30	24	W	W	3.2
	Facility HVAC (g)	294	47	36	11	0	4.3
	Facility Lighting	304	37	W	W	0	3.2
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	318	23	16	W	W	5.1
	Other (i)	341	0	0	0	0	3.5
	Full-Time Energy Manager (j)	337	4	--	--	--	1.2
332	**FABRICATED METAL PRODUCTS**						
	Participation in One or More of the Following Types of Activities	23,566	11,783	--	--	--	1.4
	Energy Audits	31,109	4,240	1,670	2,163	406	5.5
	Direct Electricity Load Control	31,749	3,600	1,824	1,331	445	6
	Special Rate Schedule (c)	33,050	2,299	--	--	--	1.6
	Standby Generation Program	34,645	704	166	176	361	9.2
	Equipment Rebates	34,881	468	--	--	--	1.6
	Power Factor Correction or Improvement	32,086	3,263	1,454	1,185	623	5.8
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	34,518	831	--	--	--	1.6
	U.S. Environmental Protection Agency's Energy Star Program	35,000	349	--	--	--	1.7
	U.S. Environmental Protection Agency's Green Lights Program	35,326	23	--	--	--	1.7
	Other Federally Sponsored Energy or Environmental Management Program	35,324	25	--	--	--	1.9
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						

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	Steam Production/System (d)	34,913	436	196	89	152	11.1
	Compressed Air Systems (e)	30,463	4,886	4,225	428	234	6.5
	Direct/Indirect Process Heating	33,787	1,562	1,140	206	216	6.9
	Direct Process Cooling, Refrigeration	34,321	1,028	570	240	218	8
	Direct Machine Drive (f)	32,254	3,095	2,669	274	153	7
	Facility HVAC (g)	31,410	3,939	2,931	632	377	6.5
	Facility Lighting	31,473	3,876	2,587	839	450	6.3
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	34,400	949	491	86	372	7.8
	Other (i)	34,918	431	87	171	174	11.1
	Full-Time Energy Manager (j)	35,100	249	--	--	--	1.7
333	**MACHINERY**						
	Participation in One or More of the Following Types of Activities	11,504	5,877	--	--	--	1.3
	Energy Audits	14,721	2,660	1,218	1,120	322	3.7
	Direct Electricity Load Control	14,794	2,587	1,129	1,141	317	3.8
	Special Rate Schedule (c)	16,182	1,199	--	--	--	1.4
	Standby Generation Program	16,304	1,077	630	78	369	5
	Equipment Rebates	17,033	348	--	--	--	1.4
	Power Factor Correction or Improvement	15,114	2,267	1,008	851	408	3.5
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	16,732	649	--	--	--	1.4
	U.S. Environmental Protection Agency's Energy Star Program	17,226	155	--	--	--	1.4
	U.S. Environmental Protection Agency's Green Lights Program	17,045	336	--	--	--	1.5
	Other Federally Sponsored Energy or Environmental Management Program	17,279	102	--	--	--	1.6
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	16,805	576	352	22	203	5
	Compressed Air Systems (e)	14,779	2,602	2,070	179	352	4.1
	Direct/Indirect Process Heating	16,725	656	307	218	131	5.5
	Direct Process Cooling, Refrigeration	16,720	661	317	106	238	4.6
	Direct Machine Drive (f)	15,665	1,716	1,113	238	365	3.6
	Facility HVAC (g)	14,624	2,757	1,724	821	211	4.4
	Facility Lighting	15,056	2,325	1,644	547	134	4.1
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	16,729	652	161	188	303	5.6
	Other (i)	17,250	131	85	46	0	4.6
	Full-Time Energy Manager (j)	17,131	250	--	--	--	1.4
334	**COMPUTER AND ELECTRONIC PRODUCTS**						
	Participation in One or More of the Following Types of Activities	5,664	3,574	--	--	--	1.3
	Energy Audits	7,784	1,454	582	793	78	2.6
	Direct Electricity Load Control	8,085	1,153	551	415	187	2.8
	Special Rate Schedule (c)	8,205	1,033	--	--	--	1.2
	Standby Generation Program	8,512	726	580	34	112	3.1
	Equipment Rebates	8,658	580	--	--	--	1.2
	Power Factor Correction or Improvement	8,471	767	332	264	171	2.7
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	8,843	395	--	--	--	1.3

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	U.S. Environmental Protection Agency's Energy Star Program	8,953	285	--	--	--	1.2
	U.S. Environmental Protection Agency's Green Lights Program	8,982	256	--	--	--	1.2
	Other Federally Sponsored Energy or Environmental Management Program	9,212	26	--	--	--	1.4
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	8,872	366	312	15	39	3.5
	Compressed Air Systems (e)	7,756	1,482	1,163	71	249	2.4
	Direct/Indirect Process Heating	8,772	466	378	36	51	3.7
	Direct Process Cooling, Refrigeration	8,793	445	362	43	41	3.1
	Direct Machine Drive (f)	8,622	616	461	90	65	2.9
	Facility HVAC (g)	7,566	1,672	1,016	487	169	2.8
	Facility Lighting	7,718	1,520	882	403	235	2.7
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	9,051	187	67	60	59	4
	Other (i)	9,100	138	95	24	18	2.9
	Full-Time Energy Manager (j)	9,038	200	--	--	--	1.4
334413	**Semiconductors and Related Devices**						
	Participation in One or More of the Following Types of Activities	172	406	--	--	--	2.1
	Energy Audits	425	153	66	78	8	5.1
	Direct Electricity Load Control	484	94	61	23	10	2.1
	Special Rate Schedule (c)	505	73	--	--	--	1.4
	Standby Generation Program	492	86	70	W	W	4.6
	Equipment Rebates	480	98	--	--	--	1.7
	Power Factor Correction or Improvement	514	64	27	22	15	2
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	539	39	--	--	--	1.4
	U.S. Environmental Protection Agency's Energy Star Program	555	23	--	--	--	1.6
	U.S. Environmental Protection Agency's Green Lights Program	558	20	--	--	--	1.4
	Other Federally Sponsored Energy or Environmental Management Program	571	7	--	--	--	1.3
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	536	42	33	8	0	2.8
	Compressed Air Systems (e)	325	253	225	13	15	3.8
	Direct/Indirect Process Heating	452	126	121	4	1	2.5
	Direct Process Cooling, Refrigeration	433	145	140	4	1	2.4
	Direct Machine Drive (f)	486	92	81	10	1	1.8
	Facility HVAC (g)	433	145	121	20	4	3.5
	Facility Lighting	416	162	131	28	2	5.6
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	554	24	9	5	11	2.4
	Other (i)	550	28	12	5	11	2.1
	Full-Time Energy Manager (j)	545	33	--	--	--	2.6
335	**ELEC. EQUIP., APPLIANCES, COMPONENTS**						
	Participation in One or More of the Following Types of Activities	1,942	1,944	--	--	--	2.1
	Energy Audits	2,747	1,139	320	667	152	10.1
	Direct Electricity Load Control	3,159	727	362	220	145	7.9

Table 8.1 Number of Establishments by Participation in Energy-Management Activity, 2002
Level: National Data;
Row: Energy-Management Activities within NAICS Codes;
Column: Participation and Source of Financial Support for Activity;
Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Special Rate Schedule (c)	3,404	482	--	--	--	1.9
	Standby Generation Program	3,541	345	219	7	119	8.6
	Equipment Rebates	3,681	205	--	--	--	1.8
	Power Factor Correction or Improvement	3,372	514	271	102	141	10.2
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	3,727	159	--	--	--	2
	U.S. Environmental Protection Agency's Energy Star Program	3,743	143	--	--	--	1.8
	U.S. Environmental Protection Agency's Green Lights Program	3,783	103	--	--	--	1.9
	Other Federally Sponsored Energy or Environmental Management Program	3,874	12	--	--	--	2.6
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	3,698	188	72	13	103	8.5
	Compressed Air Systems (e)	3,253	633	430	48	156	12.9
	Direct/Indirect Process Heating	3,515	371	142	106	123	11.9
	Direct Process Cooling, Refrigeration	3,464	422	195	131	97	9.4
	Direct Machine Drive (f)	3,203	683	422	130	131	7.8
	Facility HVAC (g)	2,866	1,020	532	343	145	7.6
	Facility Lighting	3,103	783	454	211	118	6.8
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	3,676	210	47	74	89	12.6
	Other (i)	3,762	Q	20	16	88	7.8
	Full-Time Energy Manager (j)	3,756	130	--	--	--	2.3
336	**TRANSPORTATION EQUIPMENT**						
	Participation in One or More of the Following Types of Activities	4,169	3,484	--	--	--	1.1
	Energy Audits	5,971	1,682	783	787	112	2.5
	Direct Electricity Load Control	6,199	1,454	660	654	141	2.4
	Special Rate Schedule (c)	6,652	1,001	--	--	--	1.1
	Standby Generation Program	7,084	569	445	38	85	3.4
	Equipment Rebates	7,377	276	--	--	--	1.3
	Power Factor Correction or Improvement	6,302	1,351	831	401	119	2.5
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	7,322	331	--	--	--	1.1
	U.S. Environmental Protection Agency's Energy Star Program	7,541	112	--	--	--	1.1
	U.S. Environmental Protection Agency's Green Lights Program	7,498	155	--	--	--	1.1
	Other Federally Sponsored Energy or Environmental Management Program	7,606	47	--	--	--	1.4
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	7,254	399	289	27	83	2.8
	Compressed Air Systems (e)	6,077	1,576	1,378	73	125	2.4
	Direct/Indirect Process Heating	6,884	769	563	75	131	2.9
	Direct Process Cooling, Refrigeration	7,115	538	394	13	131	2.9
	Direct Machine Drive (f)	6,402	1,251	1,073	70	108	2.6
	Facility HVAC (g)	6,403	1,250	884	252	115	2.3
	Facility Lighting	6,376	1,277	941	241	95	2.4
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	7,238	415	218	83	114	3.9
	Other (i)	7,392	261	161	26	74	3.3
	Full-Time Energy Manager (j)	7,426	227	--	--	--	1.1

Table 8.1 Number of Establishments by Participation in Energy-Management Activity, 2002
Level: National Data;
Row: Energy-Management Activities within NAICS Codes;
Column: Participation and Source of Financial Support for Activity;
Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
336112	**Light Trucks and Utility Vehicles**						
	Participation in One or More of the Following Types of Activities	5	37	--	--	--	1
	Energy Audits	6	36	25	11	0	1
	Direct Electricity Load Control	12	30	27	W	W	1
	Special Rate Schedule (c)	22	20	--	--	--	1
	Standby Generation Program	38	4	W	W	0	1
	Equipment Rebates	W	W	--	--	--	1
	Power Factor Correction or Improvement	11	31	W	W	0	1
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	23	19	--	--	--	1
	U.S. Environmental Protection Agency's Energy Star Program	26	16	--	--	--	1
	U.S. Environmental Protection Agency's Green Lights Program	22	20	--	--	--	1
	Other Federally Sponsored Energy or Environmental Management Program	42	0	--	--	--	1.1
	Equipment Installation or Retrofit for the **Primary Purpose of**						
	Improving Energy Efficiency Affecting:						
	Steam Production/System (d)	19	23	19	5	0	1
	Compressed Air Systems (e)	14	28	23	W	W	1
	Direct/Indirect Process Heating	20	22	W	W	0	1
	Direct Process Cooling, Refrigeration	22	20	W	W	0	1
	Direct Machine Drive (f)	21	21	W	W	0	1
	Facility HVAC (g)	16	26	W	W	0	1
	Facility Lighting	14	28	22	W	W	1
	Equipment Installation or Retrofit for the **Primary Purpose of**						
	Using a Different Energy Source (h)	35	7	3	W	W	1
	Other (i)	42	0	0	0	0	1.2
	Full-Time Energy Manager (j)	20	22	--	--	--	1
337	**FURNITURE AND RELATED PRODUCTS**						
	Participation in One or More of the Following Types of Activities	7,710	3,231	--	--	--	1.6
	Energy Audits	9,756	1,185	220	710	255	8.1
	Direct Electricity Load Control	10,294	647	185	226	237	9
	Special Rate Schedule (c)	10,491	450	--	--	--	1.7
	Standby Generation Program	10,546	395	138	30	227	10.2
	Equipment Rebates	10,716	225	--	--	--	1.8
	Power Factor Correction or Improvement	10,031	910	223	360	328	8.3
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	10,507	434	--	--	--	1.8
	U.S. Environmental Protection Agency's Energy Star Program	10,880	61	--	--	--	1.9
	U.S. Environmental Protection Agency's Green Lights Program	10,923	18	--	--	--	1.6
	Other Federally Sponsored Energy or Environmental Management Program	10,927	14	--	--	--	1.9
	Equipment Installation or Retrofit for the **Primary Purpose of**						
	Improving Energy Efficiency Affecting:						
	Steam Production/System (d)	10,680	261	62	10	189	12.2
	Compressed Air Systems (e)	9,318	1,623	1,189	80	354	6.3
	Direct/Indirect Process Heating	10,441	500	265	W	W	10.1
	Direct Process Cooling, Refrigeration	10,599	342	104	0	237	11.3
	Direct Machine Drive (f)	9,849	1,092	758	78	257	7.9
	Facility HVAC (g)	9,812	1,129	713	86	330	7.2
	Facility Lighting	9,899	1,042	627	83	332	7

Table 8.1 Number of Establishments by Participation in Energy-Management Activity, 2002
Level: National Data;
Row: Energy-Management Activities within NAICS Codes;
Column: Participation and Source of Financial Support for Activity;
Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity: In-house	Other	Don't Know	RSE Row Factors
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	10,590	351	109	46	197	14.1
	Other (i)	10,775	166	W	W	0	12.8
	Full-Time Energy Manager (j)	10,855	86	--	--	--	2.3
339	**MISCELLANEOUS**						
	Participation in One or More of the Following Types of Activities	10,025	5,580	--	--	--	1.3
	Energy Audits	13,357	2,248	995	895	358	3.2
	Direct Electricity Load Control	13,787	1,818	988	498	332	3.3
	Special Rate Schedule (c)	15,171	434	--	--	--	1.4
	Standby Generation Program	15,231	374	163	15	196	4.7
	Equipment Rebates	14,998	607	--	--	--	1.4
	Power Factor Correction or Improvement	14,030	1,575	935	221	419	3.5
	Interval Metering (needed to manage energy use for programs such as real-time pricing)	15,456	149	--	--	--	1.3
	U.S. Environmental Protection Agency's Energy Star Program	14,937	668	--	--	--	1.4
	U.S. Environmental Protection Agency's Green Lights Program	15,504	101	--	--	--	1.4
	Other Federally Sponsored Energy or Environmental Management Program	15,531	74	--	--	--	1.3
	Equipment Installation or Retrofit for the **Primary Purpose of Improving Energy Efficiency** Affecting:						
	Steam Production/System (d)	15,117	488	293	113	82	5.5
	Compressed Air Systems (e)	13,747	1,858	1,504	103	251	3.4
	Direct/Indirect Process Heating	15,099	506	284	38	185	4.6
	Direct Process Cooling, Refrigeration	15,052	553	230	25	298	4.8
	Direct Machine Drive (f)	14,380	1,225	920	222	82	4.3
	Facility HVAC (g)	13,380	2,225	1,837	358	30	3.4
	Facility Lighting	13,486	2,119	1,705	256	158	3.8
	Equipment Installation or Retrofit for the **Primary Purpose of Using a Different Energy Source** (h)	15,084	521	26	240	256	4.9
	Other (i)	15,459	146	13	W	W	5
	Full-Time Energy Manager (j)	15,399	206	--	--	--	1.4

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) This count includes only those establishments that reported this activity in 2002.
(c) Examples are interruptible rates and time-of-use rates.
(d) Some examples are boilers, burners, insulation, and piping.
(e) Some examples are compressors, sizing, and leak reduction.
(f) Some examples are adjustable-speed drives, motors, and pumps.
(g) Facility Heating, Ventilation, and Air Conditioning '(Facility HVAC)' excludes steam and hot water.
(h) One example is electrification of a subset of the manufacturing operation.
(i) Examples are improvements in operating procedures and other energy-management programs reported by respondents.
(j) A 'Full-Time Energy Manager' is a person whose major function is to direct or plan energy strategies relating to energy use and energy-efficient technology within the establishment. This category is not considered an Energy-Management Activity, and hence, does not affect totals in the rows labeled 'Participation in One or More of the Following Types of Activities.'

Table 8.1 Number of Establishments by Participation in Energy-Management Activity, 2002
Level: National Data;
Row: Energy-Management Activities within NAICS Codes;
Column: Participation and Source of Financial Support for Activity;
Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Financial Support for Activity			RSE Row Factors
				In-house	Other	Don't Know	

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.
-- Estimation is not applicable.
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.'

Table 8.2 Number of Establishments by Usage of General Energy-Saving Technologies, 2002
Level: National Data;
Row: NAICS Codes;
Column: Usage within General Energy-Saving Technologies
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Establishments(b)	Computer Control of Building Wide Evironment(c)			Computer Control of Processes or Major Energy-Using Equipment(d)		
			In Use(e)	Not in Use	Don't Know	In Use(e)	Not in Use	Don't Know
	Total United States							
	RSE Column Factors:	0	1.1	0.7	1.2	1	0.9	1.3
311	Food	15,089	1,546	12,347	1,196	4,360	9,442	1,287
311221	Wet Corn Milling	49	14	34	1	38	10	1
31131	Sugar	77	4	68	5	59	14	4
311421	Fruit and Vegetable Canning	468	64	352	52	142	275	51
312	Beverage and Tobacco Products	1,595	234	1,095	266	367	954	274
3121	Beverages	1,517	214	1,039	264	333	913	271
3122	Tobacco	78	20	55	2	33	41	4
313	Textile Mills	2,247	300	1,859	88	625	1,531	92
314	Textile Product Mills	3,457	180	2,689	588	109	2,787	562
315	Apparel	5,500	529	3,827	1,144	316	4,173	1,011
316	Leather and Allied Products	685	21	537	141	16	526	157
321	Wood Products	10,486	470	9,196	821	1,495	8,160	832
321113	Sawmills	2,235	69	1,942	225	483	1,482	271
3212	Veneer, Plywood, and Engineered Woods	1,478	147	1,197	134	403	969	106
3219	Other Wood Products	6,461	186	5,852	423	501	5,545	415
322	Paper	4,257	389	3,506	362	968	2,866	423
322110	Pulp Mills	34	8	23	2	27	7	0
322121	Paper Mills, except Newsprint	323	31	267	25	221	73	29
322122	Newsprint Mills	21	10	10	1	17	3	1
322130	Paperboard Mills	210	23	179	9	135	68	7
323	Printing and Related Support	20,220	1,276	16,182	2,762	1,108	16,403	2,709
324	Petroleum and Coal Products	1,916	136	1,503	277	668	936	313
324110	Petroleum Refineries	215	47	148	20	148	50	17
324199	Other Petroleum and Coal Products	47	13	30	4	27	15	4
325	Chemicals	8,909	1,297	6,937	675	2,860	5,534	515
325110	Petrochemicals	37	10	22	5	27	6	5
325120	Industrial Gases	527	84	428	15	313	200	14
325181	Alkalies and Chlorine	33	11	22	0	25	8	0
325182	Carbon Black	22	W	W	0	18	4	0
325188	Other Basic Inorganic Chemicals	515	42	400	73	141	328	46
325192	Cyclic Crudes and Intermediates	37	W	31	W	19	14	4
325193	Ethyl Alcohol	48	8	38	1	25	23	0
325199	Other Basic Organic Chemicals	578	184	336	58	338	226	14
325211	Plastics Materials and Resins	709	55	623	30	362	315	33
325212	Synthetic Rubber	125	22	98	5	64	56	5
325222	Noncellulosic Organic Fibers	64	23	41	0	43	21	0
325311	Nitrogenous Fertilizers	56	6	44	6	31	18	7
325312	Phosphatic Fertilizers	27	5	22	0	18	8	1
3254	Pharmaceuticals and Medicines	1,143	467	665	11	463	657	23
325412	Pharmaceutical Preparation	606	240	362	3	252	351	3
325992	Photographic Film, Paper, Plate, and Chemicals	171	28	143	0	38	133	0
326	Plastics and Rubber Products	10,538	669	9,110	759	2,172	7,556	810
327	Nonmetallic Mineral Products	11,593	993	9,431	1,170	3,407	6,937	1,250
3272	Glass and Glass Products	1,047	162	858	27	499	517	31
327211	Flat Glass	38	5	24	9	25	5	8
327213	Glass Containers	61	W	57	W	53	7	1
327310	Cements	195	24	166	4	160	34	1
327410	Lime	65	16	43	6	39	18	8
327993	Mineral Wool	207	13	193	2	59	148	1

Table 8.2 Number of Establishments by Usage of General Energy-Saving Technologies, 2002
Level: National Data;
Row: NAICS Codes;
Column: Usage within General Energy-Saving Technologies
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Waste Heat Recovery			Adjustable - Speed Motors			Oxy - Fuel Firing			RSE Row Factors
		In Use(e)	Not in Use	Don't Know	In Use(e)	Not in Use	Don't Know	In Use(e)	Not in Use	Don't Know	
	RSE Column Factors:	1	0.8	1.2	0.9	1	1.1	1.1	0.7	1.1	
311	Food	2,102	11,722	1,265	6,515	6,732	1,842	227	12,995	1,867	7.6
311221	Wet Corn Milling	28	20	1	37	9	2	0	46	4	1
31131	Sugar	42	31	4	56	16	5	5	63	10	1
311421	Fruit and Vegetable Canning	111	303	54	273	136	58	15	322	131	10.5
312	Beverage and Tobacco Products	111	1,133	351	653	607	335	16	1,232	347	15.5
3121	Beverages	98	1,072	347	605	582	330	W	1,163	W	16.6
3122	Tobacco	13	61	4	49	25	5	W	69	W	1
313	Textile Mills	225	1,879	144	1,182	938	128	29	2,021	191	6.6
314	Textile Product Mills	43	2,820	594	459	2,348	651	W	2,921	W	10.9
315	Apparel	114	4,253	1,133	233	3,996	1,271	W	4,337	W	6.2
316	Leather and Allied Products	14	547	138	114	438	146	0	553	146	17.8
321	Wood Products	384	9,273	830	2,285	6,803	1,399	31	9,562	894	2.3
321113	Sawmills	104	1,836	296	668	1,150	417	12	1,868	356	4.3
3212	Veneer, Plywood, and Engineered Woods	136	1,262	80	424	923	131	19	1,334	125	6.7
3219	Other Wood Products	132	5,919	410	1,141	4,515	805	0	6,086	375	3.3
322	Paper	506	3,294	458	2,222	1,414	621	42	3,715	501	1.9
322110	Pulp Mills	24	9	1	31	W	W	W	29	W	1.1
322121	Paper Mills, except Newsprint	166	132	25	252	41	29	13	271	38	10.2
322122	Newsprint Mills	18	W	W	18	W	W	W	17	W	1
322130	Paperboard Mills	85	116	10	172	29	9	10	158	42	1.8
323	Printing and Related Support	285	17,171	2,764	2,690	14,022	3,508	44	16,757	3,419	4.8
324	Petroleum and Coal Products	297	1,340	279	819	754	343	16	1,573	327	12.8
324110	Petroleum Refineries	167	41	7	142	44	29	7	183	25	2.7
324199	Other Petroleum and Coal Products	12	21	14	32	10	4	W	25	W	1
325	Chemicals	1,164	7,152	593	3,785	4,578	547	107	8,043	759	2.4
325110	Petrochemicals	22	11	5	19	11	7	W	26	W	1
325120	Industrial Gases	167	322	38	109	379	38	W	486	W	7.8
325181	Alkalies and Chlorine	20	13	0	21	12	0	0	32	1	1.1
325182	Carbon Black	15	7	0	19	3	0	W	W	1	1.1
325188	Other Basic Inorganic Chemicals	84	354	77	148	288	79	8	405	101	11.9
325192	Cyclic Crudes and Intermediates	17	17	2	19	16	2	0	33	4	1
325193	Ethyl Alcohol	14	34	0	19	23	6	0	41	7	1
325199	Other Basic Organic Chemicals	205	353	20	393	156	29	8	444	126	2.3
325211	Plastics Materials and Resins	120	551	37	283	387	38	9	649	52	2.6
325212	Synthetic Rubber	27	93	6	69	48	8	33	87	5	1.7
325222	Noncellulosic Organic Fibers	23	40	1	58	4	3	4	55	5	1
325311	Nitrogenous Fertilizers	32	16	7	36	13	7	W	45	W	1
325312	Phosphatic Fertilizers	19	6	1	21	W	W	W	19	W	1
3254	Pharmaceuticals and Medicines	93	1,036	14	577	552	14	8	1,111	24	3.3
325412	Pharmaceutical Preparation	61	540	5	363	239	4	5	593	9	4
325992	Photographic Film, Paper, Plate, and Chemicals	9	162	0	75	93	2	3	168	0	6.9
326	Plastics and Rubber Products	719	9,153	665	3,294	6,203	1,024	16	9,719	803	2
327	Nonmetallic Mineral Products	547	9,749	1,298	2,614	7,367	1,613	150	10,118	1,326	8.1
3272	Glass and Glass Products	97	832	118	526	423	98	58	874	115	12.3
327211	Flat Glass	10	19	9	27	3	8	13	17	8	1
327213	Glass Containers	35	25	1	52	5	4	15	46	0	1
327310	Cements	78	115	2	129	63	2	12	173	10	2.6
327410	Lime	17	45	3	49	8	9	0	55	10	1
327993	Mineral Wool	22	180	7	112	88	8	16	183	9	10.3

Table 8.2 Number of Establishments by Usage of General Energy-Saving Technologies, 2002
Level: National Data;
Row: NAICS Codes;
Column: Usage within General Energy-Saving Technologies
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Establishments(b)	Computer Control of Building Wide Evironment(c)			Computer Control of Processes or Major Energy-Using Equipment(d)		
			In Use(e)	Not in Use	Don't Know	In Use(e)	Not in Use	Don't Know
331	Primary Metals	4,166	306	3,582	277	1,200	2,678	288
331111	Iron and Steel Mills	771	30	632	109	187	459	125
331112	Electrometallurgical Ferroalloy Products	15	W	12	W	8	4	2
3312	Steel Products from Purchased Steel	548	W	489	W	129	391	28
3313	Alumina and Aluminum	446	45	349	52	191	201	54
331312	Primary Aluminum	41	9	29	4	29	10	2
3314	Nonferrous Metals, except Aluminum	671	69	575	28	230	412	29
3315	Foundries	1,715	125	1,527	63	455	1,210	50
331511	Iron Foundries	453	48	398	7	184	265	4
331521	Aluminum Die-Casting Foundries	227	16	189	22	59	164	4
331524	Aluminum Foundries, except Die-Casting	341	15	319	7	80	251	9
332	Fabricated Metal Products	35,349	2,409	29,597	3,343	3,389	28,489	3,471
333	Machinery	17,381	2,109	13,635	1,638	2,212	13,492	1,677
334	Computer and Electronic Products	9,238	2,476	5,825	937	1,581	6,677	980
334413	Semiconductors and Related Devices	578	182	394	2	179	387	12
335	Electrical Equip., Appliances, and Components	3,886	628	2,863	395	589	2,886	412
336	Transportation Equipment	7,653	1,214	5,997	442	1,297	5,870	486
336112	Light Trucks and Utility Vehicles	42	28	12	2	31	9	2
337	Furniture and Related Products	10,941	442	9,382	1,117	525	9,211	1,204
339	Miscellaneous	15,605	1,450	12,517	1,638	1,114	12,480	2,011
	Total	200,710	19,073	161,618	20,019	30,376	149,588	20,746

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) The 'Establishments' column includes those units which reported any of the five listed energy-saving technologies in use anytime in 2002, plus those units where usage of those energy-saving technologies was not ascertained.
(c) Some examples are space-heating equipment, cooling equipment, and lights.
(d) Some examples are boilers, furnaces, and conveyors used in the manufacturing process.
(e) This count includes only those establishments that reported this technology in use anytime in 2002.
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.'

Table 8.2 Number of Establishments by Usage of General Energy-Saving Technologies, 2002
Level: National Data;
Row: NAICS Codes;
Column: Usage within General Energy-Saving Technologies
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Waste Heat Recovery			Adjustable - Speed Motors			Oxy - Fuel Firing			RSE Row Factors
		In Use(e)	Not in Use	Don't Know	In Use(e)	Not in Use	Don't Know	In Use(e)	Not in Use	Don't Know	
331	Primary Metals	389	3,468	309	1,507	2,200	449	170	3,511	485	4
331111	Iron and Steel Mills	57	605	109	252	389	131	60	588	123	9.7
331112	Electrometallurgical Ferroalloy Products	3	9	2	10	3	2	0	12	3	1
3312	Steel Products from Purchased Steel	47	472	29	268	244	37	12	502	35	4.6
3313	Alumina and Aluminum	46	329	71	191	137	118	26	297	123	4.5
331312	Primary Aluminum	5	33	2	28	11	2	5	31	5	2
3314	Nonferrous Metals, except Aluminum	83	558	30	273	355	33	24	569	78	3.5
3315	Foundries	153	1,495	67	514	1,072	129	48	1,544	123	4.7
331511	Iron Foundries	48	392	14	190	247	17	31	403	19	5.7
331521	Aluminum Die-Casting Foundries	14	208	5	71	142	13	3	201	23	1.2
331524	Aluminum Foundries, except Die-Casting	38	292	11	95	222	25	W	305	W	3.9
332	Fabricated Metal Products	1,106	31,369	2,874	6,228	25,046	4,075	347	30,999	4,003	4.2
333	Machinery	646	15,355	1,380	3,698	11,445	2,238	166	15,142	2,073	3
334	Computer and Electronic Products	264	8,121	853	1,758	6,537	943	7	8,362	869	2
334413	Semiconductors and Related Devices	57	506	15	229	335	14	4	545	29	3.5
335	Electrical Equip., Appliances, and Components	140	3,300	446	1,045	2,250	591	31	3,355	500	10.8
336	Transportation Equipment	587	6,508	557	2,439	4,487	727	62	6,754	837	2
336112	Light Trucks and Utility Vehicles	10	17	15	34	6	2	0	38	4	1
337	Furniture and Related Products	219	9,545	1,177	1,246	8,152	1,542	0	9,748	1,193	5.3
339	Miscellaneous	232	13,594	1,779	3,093	10,378	2,134	W	13,592	W	2.4
	Total	10,095	170,744	19,871	47,879	126,692	26,139	1,488	175,008	24,214	1.8

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) The 'Establishments' column includes those units which reported any of the five listed energy-saving technologies in use anytime in 2002, plus those units where usage of those energy-saving technologies was not ascertained.
(c) Some examples are space-heating equipment, cooling equipment, and lights.
(d) Some examples are boilers, furnaces, and conveyors used in the manufacturing process.
(e) This count includes only those establishments that reported this technology in use anytime in 2002.
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.'

Table 8.3 Number of Establishments by Usage of Cogeneration Technologies, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Usage within Cogeneration Technologies;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Establishments(b)	Establishments with Any Cogeneration Technology in Use(c)	Steam Turbines Supplied by Either Conventional or Fluidized Bed Boilers			Conventional Combusion Turbines with Heat Recovery		
				In Use(d)	Not in Use	Don't Know	In Use(d)	Not in Use	Don't Know
	Total United States								
	RSE Column Factors:	0	1	0.7	0.8	1.7	0.6	0.8	1.7
311	Food	15,089	443	131	13,850	1,109	80	13,729	1,280
311221	Wet Corn Milling	49	11	8	40	1	3	45	1
31131	Sugar	77	45	44	27	5	8	61	8
311421	Fruit and Vegetable Canning	468	50	42	375	51	44	374	50
312	Beverage and Tobacco Products	1,595	22	12	1,398	185	3	1,444	147
3121	Beverages	1,517	18	9	1,326	183	3	1,369	145
3122	Tobacco	78	4	4	72	2	0	76	2
313	Textile Mills	2,247	29	8	2,141	98	W	2,147	W
314	Textile Product Mills	3,457	W	0	2,973	484	W	2,972	W
315	Apparel	5,500	W	0	4,480	1,020	W	4,633	W
316	Leather and Allied Products	685	0	0	554	145	0	528	157
321	Wood Products	10,486	92	62	9,725	700	10	9,775	702
321113	Sawmills	2,235	37	31	1,969	235	5	1,997	234
3212	Veneer, Plywood, and Engineered Woods	1,478	7	3	1,413	61	W	1,410	W
3219	Other Wood Products	6,461	46	26	6,066	368	W	6,091	W
322	Paper	4,257	209	174	3,752	330	26	3,890	341
322110	Pulp Mills	34	20	17	14	3	W	29	W
322121	Paper Mills, except Newsprint	323	91	80	234	10	10	303	10
322122	Newsprint Mills	21	6	6	14	1	W	18	W
322130	Paperboard Mills	210	85	70	132	8	11	188	11
323	Printing and Related Support	20,220	92	4	17,748	2,468	W	17,751	W
324	Petroleum and Coal Products	1,916	66	45	1,616	256	25	1,608	283
324110	Petroleum Refineries	215	59	39	169	7	25	182	8
324199	Other Petroleum and Coal Products	47	7	6	36	5	0	32	15
325	Chemicals	8,909	247	163	8,309	437	89	8,355	465
325110	Petrochemicals	37	13	10	21	6	8	23	6
325120	Industrial Gases	527	3	W	519	W	W	521	W
325181	Alkalies and Chlorine	33	4	3	29	1	W	30	W
325182	Carbon Black	22	4	W	W	0	W	W	0
325188	Other Basic Inorganic Chemicals	515	19	11	454	50	W	463	W
325192	Cyclic Crudes and Intermediates	37	5	3	31	2	W	32	W
325193	Ethyl Alcohol	48	W	W	40	W	0	43	5
325199	Other Basic Organic Chemicals	578	76	61	508	10	16	540	22
325211	Plastics Materials and Resins	709	15	6	671	31	9	668	32
325212	Synthetic Rubber	125	11	4	116	6	8	111	6
325222	Noncellulosic Organic Fibers	64	6	5	58	1	W	60	W
325311	Nitrogenous Fertilizers	56	13	6	42	7	6	43	7
325312	Phosphatic Fertilizers	27	17	16	11	0	W	W	0
3254	Pharmaceuticals and Medicines	1,143	20	12	1,095	36	10	1,097	36
325412	Pharmaceutical Preparation	606	12	8	569	29	8	569	29
325992	Photographic Film, Paper, Plate, and Chemicals	171	W	W	W	0	0	171	0
326	Plastics and Rubber Products	10,538	16	4	10,042	493	W	9,938	W
327	Nonmetallic Mineral Products	11,593	24	4	10,416	1,174	W	10,401	W
3272	Glass and Glass Products	1,047	10	0	1,011	36	0	944	103

Table 8.3 Number of Establishments by Usage of Cogeneration Technologies, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Usage within Cogeneration Technologies;
Unit: Establishment Counts.

		Combined-Cycle Combusion Turbines			Internal Combusion Engines with Heat Recovery			Steam Turbines Supplied by Heat Recovered from High-Temperature Processes			
NAICS Code(a)	Subsector and Industry	In Use(d)	Not in Use	Don't Know	In Use(d)	Not in Use	Don't Know	In Use(d)	Not in Use	Don't Know	RSE Row Factors
	RSE Column Factors:	0.6	0.8	1.6	1.1	0.8	1.8	0.8	0.8	1.6	
311	Food	111	13,695	1,283	66	13,808	1,215	Q	13,675	1,284	8.7
311221	Wet Corn Milling	W	47	W	0	47	2	0	48	1	1
31131	Sugar	W	64	W	0	69	8	5	64	8	1
311421	Fruit and Vegetable Canning	0	416	52	4	415	49	4	374	91	6.5
312	Beverage and Tobacco Products	W	1,445	W	5	1,442	147	5	1,452	138	7.6
3121	Beverages	W	1,370	W	5	1,367	145	5	1,376	135	8.1
3122	Tobacco	0	76	2	0	76	2	0	76	2	0.9
313	Textile Mills	0	2,135	112	3	2,115	129	16	2,119	112	5.7
314	Textile Product Mills	0	2,973	484	W	2,972	W	0	3,051	406	4.7
315	Apparel	0	4,635	865	0	4,466	1,034	0	4,620	880	4
316	Leather and Allied Products	0	528	157	0	528	157	0	528	157	12.9
321	Wood Products	W	9,780	W	27	9,729	731	22	9,745	720	3.4
321113	Sawmills	0	2,000	236	W	1,997	W	7	1,986	243	3.7
3212	Veneer, Plywood, and Engineered Woods	0	1,411	67	0	1,412	66	W	1,413	W	5.6
3219	Other Wood Products	W	6,091	W	24	6,043	394	12	6,069	380	4.9
322	Paper	21	3,889	347	6	3,899	352	48	3,865	344	2.3
322110	Pulp Mills	0	29	5	0	31	3	6	26	1	1
322121	Paper Mills, except Newsprint	9	303	11	0	298	25	27	273	23	6.7
322122	Newsprint Mills	W	18	W	0	20	1	0	20	1	1
322130	Paperboard Mills	8	189	13	W	191	W	14	181	15	1.7
323	Printing and Related Support	88	17,664	2,468	W	17,664	W	4	17,748	2,468	5.1
324	Petroleum and Coal Products	12	1,615	289	W	1,635	W	49	1,603	264	5.1
324110	Petroleum Refineries	12	193	10	W	197	W	W	160	W	1.3
324199	Other Petroleum and Coal Products	0	32	15	0	32	15	W	30	W	0.9
325	Chemicals	41	8,400	468	26	8,382	501	113	8,290	506	2.4
325110	Petrochemicals	W	29	W	W	30	W	11	20	6	1
325120	Industrial Gases	W	520	W	0	522	5	W	517	W	3.8
325181	Alkalies and Chlorine	3	29	1	0	32	1	W	30	W	1
325182	Carbon Black	0	21	1	0	22	0	W	W	0	1.2
325188	Other Basic Inorganic Chemicals	W	463	W	5	459	51	9	455	50	7.6
325192	Cyclic Crudes and Intermediates	W	33	W	0	35	2	3	31	2	1
325193	Ethyl Alcohol	0	42	6	0	40	8	0	40	8	0.9
325199	Other Basic Organic Chemicals	8	557	13	5	528	46	26	506	47	2
325211	Plastics Materials and Resins	8	669	32	0	677	32	11	666	32	2
325212	Synthetic Rubber	W	118	W	0	119	6	0	118	7	1.5
325222	Noncellulosic Organic Fibers	0	63	1	0	63	1	W	61	W	1
325311	Nitrogenous Fertilizers	W	47	W	0	49	7	11	37	7	1
325312	Phosphatic Fertilizers	0	26	1	W	W	0	16	10	1	1.1
3254	Pharmaceuticals and Medicines	W	1,105	W	W	1,096	W	W	1,098	W	3.8
325412	Pharmaceutical Preparation	W	575	W	W	575	W	W	575	W	4.6
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	0	171	0	0	170	1	2.9
326	Plastics and Rubber Products	W	9,908	W	12	9,847	679	W	10,012	W	1.8
327	Nonmetallic Mineral Products	W	10,392	W	15	10,392	1,187	3	10,502	1,089	5.2
3272	Glass and Glass Products	0	945	102	10	936	101	0	1,011	36	13.5

Table 8.3 Number of Establishments by Usage of Cogeneration Technologies, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Usage within Cogeneration Technologies;
Unit: Establishment Counts.

				Steam Turbines Supplied by Either Conventional or Fluidized Bed Boilers			Conventional Combusion Turbines with Heat Recovery		
NAICS Code(a)	**Subsector and Industry**	**Establishments(b)**	**Establishments with Any Cogeneration Technology in Use(c)**	**In Use(d)**	**Not in Use**	**Don't Know**	**In Use(d)**	**Not in Use**	**Don't Know**
327211	Flat Glass	38	0	0	30	8	0	29	9
327213	Glass Containers	61	W	0	58	3	0	57	4
327310	Cements	195	7	W	190	W	0	192	3
327410	Lime	65	W	0	62	3	0	62	3
327993	Mineral Wool	207	0	0	207	1	0	207	1
331	Primary Metals	4,166	31	14	3,881	272	9	3,879	279
331111	Iron and Steel Mills	771	12	9	656	106	W	665	W
331112	Electrometallurgical Ferroalloy Products	15	0	0	13	2	0	13	2
3312	Steel Products from Purchased Steel	548	0	0	524	24	0	526	22
3313	Alumina and Aluminum	446	W	W	394	W	W	388	W
331312	Primary Aluminum	41	0	0	40	1	0	40	1
3314	Nonferrous Metals, except Aluminum	671	W	W	643	W	W	643	W
3315	Foundries	1,715	12	W	1,651	W	5	1,644	66
331511	Iron Foundries	453	3	0	447	6	W	446	W
331521	Aluminum Die-Casting Foundries	227	W	0	212	15	W	223	W
331524	Aluminum Foundries, except Die-Casting	341	W	0	333	8	W	327	W
332	Fabricated Metal Products	35,349	71	0	32,565	2,784	0	32,257	3,092
333	Machinery	17,381	W	W	16,144	W	W	16,146	W
334	Computer and Electronic Products	9,238	8	W	8,863	W	0	8,865	373
334413	Semiconductors and Related Devices	578	W	0	577	1	0	576	2
335	Electrical Equip., Appliances, and Components	3,886	9	W	3,490	W	W	3,490	W
336	Transportation Equipment	7,653	39	14	7,187	452	10	7,191	452
336112	Light Trucks and Utility Vehicles	42	3	W	39	W	0	40	2
337	Furniture and Related Products	10,941	22	8	9,834	1,100	11	9,836	1,094
339	Miscellaneous	15,605	52	4	14,039	1,562	W	14,057	W
	Total	200,710	1,479	653	183,007	17,050	287	182,892	17,531

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) The 'Establishments' column includes those units which reported any of the five listed cogeneration technologies in use anytime in 2002, plus those units where usage of those cogeneration technologies was not ascertained.
(c) This count includes only those establishments that reported any of the five listed cogeneration technologies in use anytime in 2002.
(d) This count includes only those establishments that reported this cogeneration technology in use anytime in 2002.
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.'

Table 8.3 Number of Establishments by Usage of Cogeneration Technologies, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Usage within Cogeneration Technologies;
Unit: Establishment Counts.

		Combined-Cycle Combusion Turbines			Internal Combusion Engines with Heat Recovery			Steam Turbines Supplied by Heat Recovered from High-Temperature Processes			
NAICS Code(a)	Subsector and Industry	In Use(d)	Not in Use	Don't Know	In Use(d)	Not in Use	Don't Know	In Use(d)	Not in Use	Don't Know	RSE Row Factors
327211	Flat Glass	0	30	8	0	30	8	0	30	8	0.9
327213	Glass Containers	0	57	4	W	57	W	0	57	4	0.9
327310	Cements	W	192	W	W	188	W	3	190	2	1.6
327410	Lime	0	60	5	W	60	W	0	62	3	0.9
327993	Mineral Wool	0	207	1	0	207	1	0	207	1	2.7
331	Primary Metals	W	3,870	W	8	3,872	286	12	3,882	272	3.4
331111	Iron and Steel Mills	0	666	105	0	666	105	8	657	106	7.1
331112	Electrometallurgical Ferroalloy Products	0	13	2	0	13	2	0	13	2	0.9
3312	Steel Products from Purchased Steel	0	523	25	0	526	22	0	524	24	3.3
3313	Alumina and Aluminum	W	388	W	0	388	58	0	389	57	3.1
331312	Primary Aluminum	0	40	1	0	40	1	0	40	1	1.7
3314	Nonferrous Metals, except Aluminum	0	632	39	W	642	W	W	642	W	2.7
3315	Foundries	0	1,648	67	W	1,637	W	W	1,658	W	3.6
331511	Iron Foundries	0	447	6	W	444	W	0	447	6	3.6
331521	Aluminum Die-Casting Foundries	0	220	7	0	218	9	0	223	4	1.1
331524	Aluminum Foundries, except Die-Casting	0	328	13	0	327	14	W	328	W	2.8
332	Fabricated Metal Products	0	32,272	3,077	W	32,137	W	W	32,428	W	5.1
333	Machinery	0	16,145	1,236	0	15,938	1,443	0	16,143	1,238	2.1
334	Computer and Electronic Products	0	8,863	375	5	8,852	381	0	8,864	374	2.1
334413	Semiconductors and Related Devices	0	576	2	W	567	W	0	576	2	1.9
335	Electrical Equip., Appliances, and Components	0	3,491	395	Q	3,471	407	0	3,499	387	8
336	Transportation Equipment	W	7,218	W	14	7,122	517	W	7,146	W	2
336112	Light Trucks and Utility Vehicles	0	40	2	W	39	W	W	39	W	0.9
337	Furniture and Related Products	W	9,768	W	W	9,668	W	W	9,729	W	6.1
339	Miscellaneous	W	14,026	W	39	14,035	1,532	40	14,034	1,532	3.5
	Total	296	182,713	17,701	308	181,975	18,427	453	182,935	17,322	2.9

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).
(b) The 'Establishments' column includes those units which reported any of the five listed cogeneration technologies in use anytime in 2002, plus those units where usage of those cogeneration technologies was not ascertained.
(c) This count includes only those establishments that reported any of the five listed cogeneration technologies in use anytime in 2002.
(d) This count includes only those establishments that reported this cogeneration technology in use anytime in 2002.
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.'

Table 9.1 Enclosed Floorspace and Number of Establishment Buildings, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Floorspace and Buildings;
Unit: Floorspace Square Footage and Building Counts.

NAICS Code(a)	Subsector and Industry	Approximate Enclosed Floorspace of All Buildings Onsite (million sq ft)	Establishments(b) (counts)	Average Enclosed Floorspace per Establishment (sq ft)	Approximate Number of All Buildings Onsite (counts)	Average Number of Buildings Onsite per Establishment (counts)	RSE Row Factors
	Total United States						
	RSE Column Factors:	0	0	0	0	0	
311	Food	751	15,089	102,589.2	26,438	3.0	0
311221	Wet Corn Milling	5	49	239,993.7	428	13.0	0
31131	Sugar	17	77	418,497.0	821	15.2	0
311421	Fruit and Vegetable Canning	78	468	239,190.2	2,680	7.9	0
312	Beverage and Tobacco Products	181	1,595	163,081.7	4,496	3.1	0
3121	Beverages	148	1,517	141,087.1	4,064	2.9	0
3122	Tobacco	33	78	547,795.9	432	7.2	0
313	Textile Mills	253	2,247	201,870.0	3,416	2.2	0
314	Textile Product Mills	225	3,457	100,663.1	4,560	1.8	0
315	Apparel	111	5,500	42,905.2	4,439	1.3	0
316	Leather and Allied Products	34	685	37,749.0	1,704	1.5	0
321	Wood Products	445	10,486	64,500.8	33,402	3.6	0
321113	Sawmills	54	2,235	59,942.5	9,409	5.4	0
3212	Veneer, Plywood, and Engineered Woods	108	1,478	105,305.7	7,417	5.6	0
3219	Other Wood Products	277	6,461	57,482.1	15,553	2.6	0
322	Paper	580	4,257	179,561.7	10,783	3.1	0
322110	Pulp Mills	6	34	490,004.8	391	15.8	0
322121	Paper Mills, except Newsprint	81	323	623,894.0	3,358	19.5	0
322122	Newsprint Mills	5	21	447,776.7	152	8.8	0
322130	Paperboard Mills	66	210	274,183.2	2,193	8.2	0
323	Printing and Related Support	433	20,220	36,998.9	15,895	1.2	0
324	Petroleum and Coal Products	78	1,916	58,241.1	7,786	4.5	0
324110	Petroleum Refineries	40	215	592,841.0	3,420	30.2	0
324199	Other Petroleum and Coal Products	2	47	56,831.5	408	9.0	0
325	Chemicals	672	8,909	111,908.8	39,402	5.5	0
325110	Petrochemicals	1	37	98,436.2	297	14.6	0
325120	Industrial Gases	3	527	18,047.3	951	4.1	0
325181	Alkalies and Chlorine	3	33	326,448.2	623	25.0	0
325182	Carbon Black	1	22	221,963.3	304	19.8	0
325188	Other Basic Inorganic Chemicals	31	515	82,728.8	3,582	6.0	0
325192	Cyclic Crudes and Intermediates	1	37	72,441.0	323	13.7	0
325193	Ethyl Alcohol	2	48	78,286.1	392	12.4	0
325199	Other Basic Organic Chemicals	43	578	199,106.8	7,864	23.6	0
325211	Plastics Materials and Resins	64	709	87,766.4	4,883	5.2	0
325212	Synthetic Rubber	9	125	88,354.6	741	6.5	0
325222	Noncellulosic Organic Fibers	29	64	477,793.3	693	11.2	0

Table 9.1 Enclosed Floorspace and Number of Establishment Buildings, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Floorspace and Buildings;
Unit: Floorspace Square Footage and Building Counts.

NAICS Code(a)	Subsector and Industry	Approximate Enclosed Floorspace of All Buildings Onsite (million sq ft)	Establishments(b) (counts)	Average Enclosed Floorspace per Establishment (sq ft)	Approximate Number of All Buildings Onsite (counts)	Average Number of Buildings Onsite per Establishment (counts)	RSE Row Factors
325311	Nitrogenous Fertilizers	3	56	78,439.2	945	16.8	0
325312	Phosphatic Fertilizers	1	27	126,322.5	337	19.9	0
3254	Pharmaceuticals and Medicines	169	1,143	156,739.7	5,141	4.6	0
325412	Pharmaceutical Preparation	130	606	161,532.3	3,099	3.8	0
325992	Photographic Film, Paper, Plate, and Chemicals	54	171	Q	Q	3.2	0
326	Plastics and Rubber Products	767	10,538	94,074.3	17,743	1.8	0
327	Nonmetallic Mineral Products	501	11,593	75,319.1	27,549	3.0	0
3272	Glass and Glass Products	102	1,047	147,350.6	1,675	2.3	0
327211	Flat Glass	17	38	640,478.2	116	4.3	0
327213	Glass Containers	22	61	498,895.2	367	7.9	0
327310	Cements	11	195	114,618.1	1,846	7.4	0
327410	Lime	1	65	31,059.6	340	8.0	0
327993	Mineral Wool	30	207	131,687.1	698	2.7	0
331	Primary Metals	550	4,166	174,794.5	16,952	4.9	0
331111	Iron and Steel Mills	159	771	325,341.1	5,042	9.4	0
331112	Electrometallurgical Ferroalloy Products	4	15	245,937.9	218	10.8	0
3312	Steel Products from Purchased Steel	64	548	168,735.3	921	2.3	0
3313	Alumina and Aluminum	110	446	271,640.4	3,608	8.1	0
331312	Primary Aluminum	28	41	901,644.9	1,292	43.1	0
3314	Nonferrous Metals, except Aluminum	76	671	144,510.7	2,842	5.1	0
3315	Foundries	138	1,715	103,140.6	4,320	2.8	0
331511	Iron Foundries	53	453	171,750.9	1,823	5.2	0
331521	Aluminum Die-Casting Foundries	22	227	108,107.2	388	1.7	0
331524	Aluminum Foundries, except Die-Casting	22	341	90,363.0	595	2.1	0
332	Fabricated Metal Products	1,277	35,349	48,425.6	53,337	1.8	0
333	Machinery	825	17,381	72,187.0	24,317	1.9	0
334	Computer and Electronic Products	665	9,238	96,297.1	13,914	1.9	0
334413	Semiconductors and Related Devices	96	578	176,153.3	1,594	2.8	0
335	Electrical Equip., Appliances, and Components	309	3,886	122,535.1	5,822	2.0	0
336	Transportation Equipment	1,111	7,653	223,706.4	21,681	4.0	0
336112	Light Trucks and Utility Vehicles	91	42	2,612,588.8	237	6.6	0
337	Furniture and Related Products	473	10,941	60,782.0	13,957	1.5	0
339	Miscellaneous	400	15,605	39,778.9	20,487	1.7	0
	Total	10,643	200,710	80,268.0	368,081	2.4	0

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

(b) The 'Establishments (counts)' column includes those units which reported floorspace, plus those units where floorspace was not ascertained. To obtain the number of reporting establishments

Table 9.1 Enclosed Floorspace and Number of Establishment Buildings, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Floorspace and Buildings;
Unit: Floorspace Square Footage and Building Counts.

NAICS Code(a)	Subsector and Industry	Approximate Enclosed Floorspace of All Buildings Onsite (million sq ft)	Establishments(b) (counts)	Average Enclosed Floorspace per Establishment (sq ft)	Approximate Number of All Buildings Onsite (counts)	Average Number of Buildings Onsite per Establishment (counts)	RSE Row Factors

for any NAICS, divide the entry in the 'Approximate Enclosed Floorspace' column by the corresponding entry in the 'Average Enclosed Floorspace' column. For example, in the 'Total' row, (12,836 million sq ft) divided by (71,257.0 sq ft) equals 180,137, which is the number of reporting establishments (weighted) of the 226,813 total establishments.

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.'

Table 10.1 Nonswitchable Minimum and Maximum Consumption, 2002;
Level: National and Regional Data;
Row: Energy Sources;
Column: Consumption Potential;
Unit: Physical Units.

Energy Sources	Actual Consumption	Minimum Consumption(a)	Maximum Consumption(b)	RSE Row Factors
Total United States				
RSE Column Factors:	1	1	1	
Electricity Receipts(c) (million kilowatthours)	855,160	668,467	894,613	2
Natural Gas (billion cubic feet)	5,641	3,536	6,108	2
Distillate Fuel Oil (thousand barrels)	24,446	13,621	118,299	5
Residual Fuel Oil (thousand barrels)	33,132	14,781	84,800	3
Coal (thousand short tons)	60,310	34,999	62,947	8.3
LPG (thousand barrels)	26,547	8,661	142,736	4.8
Northeast Census Region				
RSE Column Factors:	0.9	1.1	1	
Electricity Receipts(c) (million kilowatthours)	100,190	77,610	110,498	5
Natural Gas (billion cubic feet)	523	292	559	3
Distillate Fuel Oil (thousand barrels)	5,104	2,997	21,941	6.6
Residual Fuel Oil (thousand barrels)	10,742	5,929	23,002	5.2
Coal (thousand short tons)	4,130	2,551	4,386	4.6
LPG (thousand barrels)	2,518	1,477	12,833	11.1
Midwest Census Region				
RSE Column Factors:	1	1.3	0.8	
Electricity Receipts(c) (million kilowatthours)	252,896	202,694	261,647	4
Natural Gas (billion cubic feet)	1,455	935	1,592	3
Distillate Fuel Oil (thousand barrels)	5,183	3,389	28,740	12.4
Residual Fuel Oil (thousand barrels)	3,442	451	15,723	14.4
Coal (thousand short tons)	26,946	15,368	28,059	9
LPG (thousand barrels)	5,343	2,830	52,593	12.7
South Census Region				

Table 10.1 Nonswitchable Minimum and Maximum Consumption, 2002;
Level: National and Regional Data;
Row: Energy Sources;
Column: Consumption Potential;
Unit: Physical Units.

Energy Sources	Actual Consumption	Minimum Consumption(a)	Maximum Consumption(b)	RSE Row Factors
RSE Column Factors:	1.1	0.9	1	
Electricity Receipts(c) (million kilowatthours)	395,373	303,266	409,561	2
Natural Gas (billion cubic feet)	3,005	1,905	3,216	2.3
Distillate Fuel Oil (thousand barrels)	9,374	4,977	51,867	7.1
Residual Fuel Oil (thousand barrels)	17,001	7,451	39,666	3.9
Coal (thousand short tons)	24,489	15,123	25,623	16.9
LPG (thousand barrels)	14,669	2,927	59,421	3.6
West Census Region				
RSE Column Factors:	1.1	1	0.9	
Electricity Receipts(c) (million kilowatthours)	106,701	84,938	112,907	2
Natural Gas (billion cubic feet)	658	403	741	3.6
Distillate Fuel Oil (thousand barrels)	4,784	2,259	15,750	13.1
Residual Fuel Oil (thousand barrels)	1,947	951	6,410	1.3
Coal (thousand short tons)	4,745	1,957	4,879	1.6
LPG (thousand barrels)	4,017	1,428	17,889	8.4

(a) Minimum consumption represents actual 2002 consumption decreased by the quantity of the designated type of energy that would no longer have been required if all ascertained switching from that type of energy had occurred. The minimum value includes the quantity of 2002 consumption for which switching capability was not ascertained.

(b) Maximum consumption represents actual 2002 consumption increased by the quantity of the designated type of energy that would have been required if all ascertained switching into that type of energy had occurred. This value assumes that all indicated substitutions were possible simultaneously and the substitutable amount consists of the sum of all possible switches to the designated type of energy. The estimate assumes that 2002 output remained constant.

Table 10.1 Nonswitchable Minimum and Maximum Consumption, 2002;
Level: National and Regional Data;
Row: Energy Sources;
Column: Consumption Potential;
Unit: Physical Units.

Energy Sources	Actual Consumption	Minimum Consumption(a)	Maximum Consumption(b)	RSE Row Factors

(c) '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.

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.'

Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Short Tons.

		Coal			Alternative Energy Sources(b)						
NAICS Code(a)	**Subsector and Industry**	**Total Consumed(c)**	**Switchable**	**Not Switchable**	**Electricity Receipts(d)**	**Natural Gas**	**Distillate Fuel Oil**	**Residual Fuel Oil**	**LPG**	**Other(e)**	**RSE Row Factors**
	Total United States										
	RSE Column Factors:	1.4	1.1	1.5	0.7	1.1	0.8	1.2	1.5	0.5	
311	Food	8,290	1,689	7,112	0	1,410	Q	212	313	7	8.5
311221	Wet Corn Milling	5,462	771	5,201	0	766	0	0	249	6	0.9
31131	Sugar	1,648	388	1,260	0	243	0	W	0	2	0.9
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	776	267	509	0	267	W	58	0	0	2.5
3121	Beverages	341	W	W	0	W	W	W	0	0	3.9
3122	Tobacco	435	W	W	0	W	0	W	0	0	0.8
313	Textile Mills	1,005	489	516	0	489	W	Q	W	0	28
314	Textile Product Mills	Q	Q	Q	0	W	Q	28	0	23	37.2
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	17,411	4,038	6,404	422	2,287	1,124	1,533	W	423	2.2
322110	Pulp Mills	W	22	W	0	0	0	22	0	0	0.8
322121	Paper Mills, except Newsprint	13,090	2,045	4,078	W	1,297	399	554	W	387	2.3
322122	Newsprint Mills	W	W	183	0	W	0	0	0	0	0.8
322130	Paperboard Mills	3,759	1,789	1,970	W	807	720	953	0	W	1
323	Printing and Related Support	0	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	569	18	551	*	18	W	0	0	0	7.2
324110	Petroleum Refineries	W	W	W	0	W	W	0	0	0	27.9
324199	Other Petroleum and Coal Products	512	6	505	*	6	0	0	0	0	0.9
325	Chemicals	14,303	5,135	8,917	47	4,231	712	561	0	W	9.6
325110	Petrochemicals	W	0	W	0	0	0	0	0	0	0.7
325120	Industrial Gases	0	*	0	0	0	0	0	0	0	0.9
325181	Alkalies and Chlorine	907	164	743	18	146	0	0	0	0	6.1
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	851	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	845	72	634	0	72	0	0	0	0	3.1
325199	Other Basic Organic Chemicals	W	W	4,390	0	Q	183	0	0	0	6.7

Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Short Tons.

		Coal			Alternative Energy Sources(b)						
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(e)	RSE Row Factors
325211	Plastics Materials and Resins	1,198	Q	833	0	Q	0	0	0	W	12
325212	Synthetic Rubber	226	69	41	0	35	35	0	0	0	0.9
325222	Noncellulosic Organic Fibers	W	W	W	6	W	W	W	0	0	0.9
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	33	0	33	0	0	0	0	0	0	0.7
3254	Pharmaceuticals and Medicines	396	190	206	0	184	55	63	0	0	0.9
325412	Pharmaceutical Preparation	396	190	206	0	184	55	63	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	Q	W	W	0	W	0	*	0	0	0.9
327	Nonmetallic Mineral Products	13,927	5,978	7,529	W	5,424	885	668	214	W	2.9
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	10,633	5,433	4,831	W	4,947	W	W	214	453	3.1
327410	Lime	2,958	540	2,366	0	473	W	W	0	W	1
327993	Mineral Wool	0	0	0	0	0	0	0	0	0	0
331	Primary Metals	2,196	133	2,064	0	100	39	0	0	33	2
331111	Iron and Steel Mills	1,712	55	1,657	0	22	0	0	0	33	2.3
331112	Electrometallurgical Ferroalloy Products	112	0	112	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	323	78	245	0	78	39	0	0	0	0.9
3315	Foundries	50	0	50	0	0	0	0	0	0	0.7
331511	Iron Foundries	49	0	49	0	0	0	0	0	0	0.7
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	35	0	35	0	0	0	0	0	0	4.9
333	Machinery	51	41	11	0	41	0	0	0	0	1.7
334	Computer and Electronic Products	1	*	*	0	*	0	*	0	0	21.6
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	19	2	17	0	2	0	0	0	0	4.4
336	Transportation Equipment	W	77	W	3	72	11	0	1	1	5
336112	Light Trucks and Utility Vehicles	W	W	W	0	W	0	0	1	0	0.8
337	Furniture and Related Products	56	W	W	W	28	0	0	0	4	3.2
339	Miscellaneous	0	0	0	0	0	0	0	0	0	0
	Total	60,310	18,185	34,999	540	14,544	3,273	3,123	667	1,095	6.2

Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Short Tons.

		Coal			Alternative Energy Sources(b)						
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(e)	RSE Row Factors
	Northeast Census Region										
	RSE Column Factors:	1.4	1.1	1.5	0.7	1.1	0.8	1.2	1.5	0.5	
	Total	4,130	1,264	2,551	*	533	W	W	0	1	2.4
	Midwest Census Region										
	RSE Column Factors:	1.4	1.1	1.5	0.7	1.1	0.8	1.2	1.5	0.5	
	Total	26,946	4,878	15,368	34	4,322	793	301	358	504	8.7
	South Census Region										
	RSE Column Factors:	1.4	1.1	1.5	0.7	1.1	0.8	1.2	1.5	0.5	
	Total	24,489	9,254	15,123	421	7,047	1,815	2,199	W	519	9.3
	West Census Region										
	RSE Column Factors:	1.4	1.1	1.5	0.7	1.1	0.8	1.2	1.5	0.5	
	Total	4,745	2,788	1,957	85	2,642	W	W	W	70	1.3
	Economic Characteristic (f)										
	RSE Column Factors:	1.5	1.8	1.6	0.5	1.9	0.8	0.9	1.1	0.3	
	Value of Shipments and Receipts (million dollars)										
	Under 20	2,120	526	1,546	0	511	W	37	0	6	6.4
	20-49	5,012	1,616	3,133	W	1,534	W	236	258	271	5.5
	50-99	8,346	3,734	4,507	Q	3,274	644	465	Q	284	4.8
	100-249	18,230	4,546	6,974	70	3,739	860	451	144	80	12.8
	250-499	14,820	5,584	9,236	231	4,244	1,091	1,296	261	170	6

Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Short Tons.

		Coal			Alternative Energy Sources(b)						
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(e)	RSE Row Factors
	500 and Over	11,783	2,180	9,604	W	1,243	396	638	1	283	1
	Total	60,310	18,185	34,999	540	14,544	3,273	3,123	667	1,095	6.2
	Employment Size										
	Under 50	1,654	313	1,343	0	311	0	W	0	2	9.4
	50-99	3,939	1,807	2,082	W	1,797	W	W	W	67	3.6
	100-249	13,180	5,386	7,288	18	4,689	1,031	610	240	511	5.6
	250-499	11,435	2,694	9,135	0	2,211	W	289	W	62	3.7
	500-999	19,160	4,740	7,452	W	Q	931	1,256	271	167	9.9
	1000 and Over	10,943	3,245	7,698	418	2,085	705	816	W	287	1.8
	Total	60,310	18,185	34,999	540	14,544	3,273	3,123	667	1,095	6.2

(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 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.
(c) '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.
(d) '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.
(e) 'Other' includes all other types of energy not already identified that respondents indicated could have been consumed in place of coal.
(f) Value of Shipments and Receipts and Employment Size categories were supplied by the Bureau of the Census.
NF=No applicable RSE row/column factor.

Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Short Tons.

		Coal			Alternative Energy Sources(b)						
NAICS Code(a)	**Subsector and Industry**	**Total Consumed(c)**	**Switchable**	**Not Switchable**	**Electricity Receipts(d)**	**Natural Gas**	**Distillate Fuel Oil**	**Residual Fuel Oil**	**LPG**	**Other(e)**	**RSE Row Factors**

* 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.'

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.

		Coal(b)			Alternative Energy Sources(c)						
NAICS Code(a)	**Subsector and Industry**	**Total Consumed(d)**	**Switchable**	**Not Switchable**	**Electricity Receipts(e)**	**Natural Gas**	**Distillate Fuel Oil**	**Residual Fuel Oil**	**LPG**	**Other(f)**	**RSE Row Factors**
	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

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.

		Coal(b)			Alternative Energy Sources(c)						
NAICS Code(a)	Subsector and Industry	Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(f)	RSE Row Factors
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

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.

		Coal(b)			Alternative Energy Sources(c)						
NAICS Code(a)	Subsector and Industry	Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(f)	RSE Row Factors

(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.'

Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		LPG			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)	RSE Row Factors
	Total United States											
	RSE Column Factors:	1	1	1	1.1	0.8	0.9	0.5	4.3	0	0.5	
311	Food	1,271	Q	745	Q	Q	Q	Q	Q	Q	Q	25.6
311221	Wet Corn Milling	1	*	1	*	*	0	0	0	0	*	1.1
31131	Sugar	11	1	10	1	0	0	0	1	0	*	0.9
311421	Fruit and Vegetable Canning	Q	6	Q	5	1	2	*	0	0	0	1.8
312	Beverage and Tobacco Products	297	35	200	10	27	Q	0	0	0	*	23.6
3121	Beverages	252	34	182	10	27	Q	0	0	0	*	20.1
3122	Tobacco	45	*	18	*	*	*	0	0	0	*	1.1
313	Textile Mills	501	32	461	Q	15	Q	Q	0	0	Q	32.3
314	Textile Product Mills	161	26	46	Q	25	0	0	0	0	0	49.5
315	Apparel	23	1	7	*	*	*	0	0	0	0	43.1
316	Leather and Allied Products	11	1	9	0	1	Q	0	0	0	*	16.2
321	Wood Products	1,200	124	848	46	47	56	16	Q	Q	30	24.7
321113	Sawmills	162	13	71	7	6	9	1	Q	Q	Q	30.8
3212	Veneer, Plywood, and Engineered Woods	681	70	579	15	35	24	Q	Q	Q	25	29.4
3219	Other Wood Products	341	40	184	23	6	23	Q	0	0	*	22.3
322	Paper	1,667	140	873	43	87	7	3	0	0	Q	34.2
322110	Pulp Mills	26	*	22	*	0	*	0	0	0	*	1.1
322121	Paper Mills, except Newsprint	344	11	237	1	9	1	0	0	0	1	5.4
322122	Newsprint Mills	45	1	40	0	1	1	0	0	0	0	1.1
322130	Paperboard Mills	128	3	98	1	1	1	2	0	0	*	2.1
323	Printing and Related Support	246	25	159	22	Q	2	0	0	0	1	18.2
324	Petroleum and Coal Products	6,106	4,274	1,312	10	4,210	Q	Q	0	0	W	16
324110	Petroleum Refineries	5,036	3,553	983	W	3,550	W	W	0	0	W	3.7
324199	Other Petroleum and Coal Products	1	*	1	0	*	0	0	0	0	0	1.1
325	Chemicals	8,908	120	490	34	76	15	0	0	0	Q	7.6
325110	Petrochemicals	W	0	W	0	0	0	0	0	0	0	1
325120	Industrial Gases	*	0	*	0	0	0	0	0	0	0	13.8
325181	Alkalies and Chlorine	3	0	2	0	0	0	0	0	0	0	1
325182	Carbon Black	*	0	*	0	0	0	0	0	0	0	1
325188	Other Basic Inorganic Chemicals	46	6	36	5	4	3	0	0	0	1	7.1
325192	Cyclic Crudes and Intermediates	W	*	W	0	*	0	0	0	0	0	1.1
325193	Ethyl Alcohol	11	8	2	0	8	0	0	0	0	0	1.1
325199	Other Basic Organic Chemicals	W	70	W	Q	46	1	0	0	0	Q	4.7
325211	Plastics Materials and Resins	125	13	96	8	Q	5	0	0	0	1	21
325212	Synthetic Rubber	10	1	5	1	*	0	0	0	0	*	6.9

Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		LPG			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)	RSE Row Factors
325222	Noncellulosic Organic Fibers	23	3	20	*	2	0	0	0	0	2	3.4
325311	Nitrogenous Fertilizers	3	*	2	*	*	*	0	0	0	*	1.1
325312	Phosphatic Fertilizers	1	*	1	0	0	0	0	0	0	*	1.2
3254	Pharmaceuticals and Medicines	Q	2	Q	1	2	0	0	0	0	*	6
325412	Pharmaceutical Preparation	11	1	7	1	*	0	0	0	0	*	6.5
325992	Photographic Film, Paper, Plate, and Chemicals	15	Q	1	Q	*	0	0	0	0	0	12.7
326	Plastics and Rubber Products	816	64	517	47	17	19	Q	0	0	11	27.3
327	Nonmetallic Mineral Products	829	322	361	14	296	Q	Q	Q	0	8	24.7
3272	Glass and Glass Products	142	10	119	1	5	3	0	0	0	W	21.2
327211	Flat Glass	9	1	4	*	1	0	0	0	0	*	1.1
327213	Glass Containers	52	1	48	0	0	1	0	0	0	0	1
327310	Cements	17	6	11	2	1	1	1	0	0	4	4.4
327410	Lime	8	3	4	1	0	3	0	0	0	W	1.1
327993	Mineral Wool	47	9	30	3	7	*	0	0	0	0	5.2
331	Primary Metals	809	94	577	15	78	16	4	*	0	Q	11.1
331111	Iron and Steel Mills	36	1	22	0	1	*	0	0	0	0	3.1
331112	Electrometallurgical Ferroalloy Products	3	0	2	0	0	0	0	0	0	0	1
3312	Steel Products from Purchased Steel	80	11	56	Q	8	Q	Q	0	0	1	21.7
3313	Alumina and Aluminum	145	37	86	Q	35	2	0	0	0	Q	9.6
331312	Primary Aluminum	37	27	9	0	27	0	0	0	0	0	1.1
3314	Nonferrous Metals, except Aluminum	295	14	248	Q	Q	2	Q	0	0	Q	5.8
3315	Foundries	249	30	163	8	24	9	*	*	0	1	5.9
331511	Iron Foundries	105	13	69	*	11	4	0	0	0	0	4.2
331521	Aluminum Die-Casting Foundries	46	6	26	4	5	*	*	0	0	*	3.5
331524	Aluminum Foundries, except Die-Casting	36	4	20	1	2	2	0	*	0	*	5.2
332	Fabricated Metal Products	965	119	468	77	82	25	Q	0	0	W	27.6
333	Machinery	664	60	462	34	34	14	Q	Q	0	W	31.4
334	Computer and Electronic Products	100	10	84	5	5	*	*	0	0	*	24.5
334413	Semiconductors and Related Devices	9	1	8	*	1	0	0	0	0	0	4.6
335	Electrical Equip., Appliances, and Components	319	51	189	16	43	8	Q	0	0	*	24.1
336	Transportation Equipment	1,090	121	533	64	74	62	Q	0	0	W	28.1
336112	Light Trucks and Utility Vehicles	33	W	W	0	W	0	0	0	0	0	1.1
337	Furniture and Related Products	383	56	213	23	Q	Q	Q	0	0	W	29.7
339	Miscellaneous	183	22	107	19	Q	Q	0	0	0	*	29.3
	Total	26,547	6,063	8,661	811	5,494	799	Q	Q	Q	155	12.3
	Northeast Census Region											
	RSE Column Factors:	1	1	1	1.1	0.8	0.9	0.5	4.3	0	0.5	

Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		LPG			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)	RSE Row Factors
	Total	2,518	485	1,477	121	407	238	Q	Q	Q	3	15.5
	Midwest Census Region											
	RSE Column Factors:	1	1	1	1.1	0.8	0.9	0.5	4.3	0	0.5	
	Total	5,343	1,483	2,830	203	1,329	115	55	Q	Q	54	21.2
	South Census Region											
	RSE Column Factors:	1	1	1	1.1	0.8	0.9	0.5	4.3	0	0.5	
	Total	14,669	2,165	2,927	170	1,946	Q	Q	Q	0	52	7.1
	West Census Region											
	RSE Column Factors:	1	1	1	1.1	0.8	0.9	0.5	4.3	0	0.5	
	Total	4,017	1,930	1,428	Q	1,812	92	Q	0	0	46	12.1
	Economic Characteristic (f)											
	RSE Column Factors:	0.6	1	0.7	2.4	1.1	2	2.9	0.1	0	1.7	
	Value of Shipments and Receipts (million dollars)											
	Under 20	5,132	1,301	2,559	209	1,091	W	W	Q	Q	41	19.3
	20-49	2,993	595	1,770	Q	Q	59	Q	0	0	48	20.5
	50-99	1,997	379	1,243	143	277	93	Q	Q	Q	37	15
	100-249	2,080	214	1,118	58	144	16	Q	1	0	W	12.6
	250-499	970	147	609	27	122	9	0	0	0	W	13.1
	500 and Over	13,376	3,427	1,361	13	3,419	W	W	Q	0	W	2.9
	Total	26,547	6,063	8,661	811	5,494	799	Q	Q	Q	155	9.1
	Employment Size											
	Under 50	3,755	1,032	1,694	114	906	Q	Q	Q	Q	16	22.8
	50-99	2,216	692	1,022	Q	602	95	Q	Q	Q	Q	31.1

Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		LPG			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)	RSE Row Factors
	100-249	3,607	579	2,208	173	W	57	Q	Q	Q	45	14.6
	250-499	3,569	720	1,917	112	619	75	35	1	0	54	9.6
	500-999	10,858	2,072	692	33	2,042	166	4	0	0	6	3.7
	1000 and Over	2,542	969	1,128	38	W	14	*	Q	0	4	5.4
	Total	26,547	6,063	8,661	811	5,494	799	Q	Q	Q	155	9.1

(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 LPG during 2002. The quantities are expressed in thousands of barrels, and therefore represent the quantity of LPG that could have been displaced by the given alternative type of energy.
(c) 'Total Consumed' represents those quantities (Total Inputs) of LPG that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.
(d) '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.
(e) 'Other' includes all other types of energy not already identified that respondents indicated could have been consumed in place of LPG.
(f) 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

Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		LPG			Alternative Energy Sources(b)							
NAICS Code(a)	**Subsector and Industry**	**Total Consumed(c)**	**Switchable**	**Not Switchable**	**Electricity Receipts(d)**	**Natural Gas**	**Distillate Fuel Oil**	**Residual Fuel Oil**	**Coal**	**Coal Coke and Breeze**	**Other(e)**	**RSE Row Factors**

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.'

Table 10.13 Number of Establishments with Capability to Switch LPG to Alternative Energy Sources, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Energy Sources;
Unit: Establishment Counts.

		LPG(b)			Alternative Energy Sources(c)							
NAICS Code(a)	**Subsector and Industry**	**Total Consumed(d)**	**Switchable**	**Not Switchable**	**Electricity Receipts(e)**	**Natural Gas**	**Distillate Fuel Oil**	**Residual Fuel Oil**	**Coal**	**Coal Coke and Breeze**	**Other(f)**	**RSE Row Factors**
	Total United States											
	RSE Column Factors:	0.6	0.8	0.6	0.9	0.7	0.8	1	2.8	2.7	0.7	
311	Food	3,159	793	2,492	570	533	147	225	22	20	21	21.9
311221	Wet Corn Milling	14	W	W	W	W	0	0	0	0	W	1.4
31131	Sugar	31	W	W	W	0	0	0	W	0	W	1.1
311421	Fruit and Vegetable Canning	229	15	215	11	4	W	W	0	0	0	5.3
312	Beverage and Tobacco Products	630	76	558	57	34	17	0	0	0	Q	32.6
3121	Beverages	586	71	519	W	W	W	0	0	0	W	34.3
3122	Tobacco	44	5	39	W	W	W	0	0	0	W	1.3
313	Textile Mills	865	264	618	112	90	24	18	0	0	92	12.6
314	Textile Product Mills	592	30	563	7	23	0	0	0	0	0	18.1
315	Apparel	608	23	592	18	5	11	0	0	0	0	30.1
316	Leather and Allied Products	71	Q	52	0	W	Q	0	0	0	W	20.9
321	Wood Products	4,274	592	3,770	374	125	352	85	50	47	124	8.3
321113	Sawmills	581	83	498	67	21	45	8	17	14	16	8.3
3212	Veneer, Plywood, and Engineered Woods	771	240	538	116	81	104	35	33	33	94	15.3
3219	Other Wood Products	2,794	256	2,619	183	15	196	36	0	0	14	5.8
322	Paper	2,197	279	1,943	145	89	25	7	0	0	61	5.1
322110	Pulp Mills	18	W	W	W	0	W	0	0	0	W	1.3
322121	Paper Mills, except Newsprint	215	29	189	Q	Q	W	0	0	0	W	6.3
322122	Newsprint Mills	12	W	W	0	W	W	0	0	0	0	1.4
322130	Paperboard Mills	148	6	144	W	W	W	W	0	0	W	1.5
323	Printing and Related Support	1,879	252	1,647	241	85	94	0	0	0	W	11.2
324	Petroleum and Coal Products	526	99	431	5	86	28	Q	0	0	W	20.9
324110	Petroleum Refineries	94	42	55	W	40	4	W	0	0	W	1.4
324199	Other Petroleum and Coal Products	10	W	W	0	W	0	0	0	0	0	1.4
325	Chemicals	3,205	402	2,830	293	176	98	0	0	0	147	4.5
325110	Petrochemicals	8	0	8	0	0	0	0	0	0	0	1.6
325120	Industrial Gases	Q	0	Q	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	6	0	6	0	0	0	0	0	0	0	1.6
325182	Carbon Black	4	0	4	0	0	0	0	0	0	0	1.6
325188	Other Basic Inorganic Chemicals	219	16	206	12	9	4	0	0	0	W	8.7
325192	Cyclic Crudes and Intermediates	12	W	W	0	W	0	0	0	0	0	1.4
325193	Ethyl Alcohol	12	4	8	0	4	0	0	0	0	0	1.4
325199	Other Basic Organic Chemicals	315	59	275	55	9	8	0	0	0	20	4.7
325211	Plastics Materials and Resins	341	83	259	62	23	W	0	0	0	W	4
325212	Synthetic Rubber	54	4	51	W	Q	0	0	0	0	W	7.3

Table 10.13 Number of Establishments with Capability to Switch LPG to Alternative Energy Sources, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Energy Sources;
Unit: Establishment Counts.

		LPG(b)			Alternative Energy Sources(c)							
NAICS Code(a)	Subsector and Industry	Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(f)	RSE Row Factors
325222	Noncellulosic Organic Fibers	31	5	26	W	W	0	0	0	0	W	1.4
325311	Nitrogenous Fertilizers	12	W	W	W	W	W	0	0	0	W	1.3
325312	Phosphatic Fertilizers	10	W	W	0	0	0	0	0	0	W	1.4
3254	Pharmaceuticals and Medicines	308	13	294	11	6	0	0	0	0	5	13.2
325412	Pharmaceutical Preparation	126	8	118	8	W	0	0	0	0	5	14.2
325992	Photographic Film, Paper, Plate, and Chemicals	69	Q	60	Q	W	0	0	0	0	0	13.4
326	Plastics and Rubber Products	3,960	755	3,239	605	234	394	18	0	0	59	4.5
327	Nonmetallic Mineral Products	3,127	760	2,411	219	561	229	Q	W	0	26	25.8
3272	Glass and Glass Products	329	68	262	11	42	8	0	0	0	10	31.9
327211	Flat Glass	28	W	W	W	W	0	0	0	0	W	1.4
327213	Glass Containers	51	W	W	0	0	W	0	0	0	0	1.4
327310	Cements	64	Q	49	Q	Q	W	W	0	0	W	2.5
327410	Lime	29	8	23	4	0	6	0	0	0	W	1.3
327993	Mineral Wool	68	Q	52	Q	Q	Q	0	0	0	0	21.6
331	Primary Metals	1,873	286	1,620	87	185	85	35	5	0	52	6.4
331111	Iron and Steel Mills	157	6	153	0	4	W	0	0	0	0	4
331112	Electrometallurgical Ferroalloy Products	6	0	6	0	0	0	0	0	0	0	1.6
3312	Steel Products from Purchased Steel	303	61	248	23	28	29	25	0	0	7	5.6
3313	Alumina and Aluminum	194	36	161	10	29	9	0	0	0	12	24.1
331312	Primary Aluminum	22	9	15	0	9	0	0	0	0	0	1.4
3314	Nonferrous Metals, except Aluminum	317	48	271	19	26	W	W	0	0	25	7
3315	Foundries	895	136	779	34	97	43	W	5	0	8	4.7
331511	Iron Foundries	253	38	225	W	18	24	0	0	0	0	6.9
331521	Aluminum Die-Casting Foundries	126	14	115	9	10	W	W	0	0	W	1.5
331524	Aluminum Foundries, except Die-Casting	152	19	136	11	15	9	0	5	0	4	6.5
332	Fabricated Metal Products	13,506	1,984	11,758	1,292	1,186	503	184	0	0	213	10.4
333	Machinery	5,965	953	5,145	471	679	258	21	W	0	126	7
334	Computer and Electronic Products	987	94	893	75	18	W	W	0	0	W	5.3
334413	Semiconductors and Related Devices	63	5	57	W	4	0	0	0	0	0	3.4
335	Electrical Equip., Appliances, and Components	1,446	182	1,309	100	99	13	Q	0	0	4	27.7
336	Transportation Equipment	3,253	487	2,828	285	194	170	32	0	0	66	3.8
336112	Light Trucks and Utility Vehicles	19	W	W	0	W	0	0	0	0	0	1.4
337	Furniture and Related Products	2,833	129	2,761	102	W	W	W	0	0	21	11.7
339	Miscellaneous	3,711	845	3,064	818	242	217	0	0	0	16	5.7
	Total	58,667	9,306	50,524	5,875	4,690	2,699	749	164	67	1,046	5.5

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

Table 10.13 Number of Establishments with Capability to Switch LPG to Alternative Energy Sources, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Energy Sources;
Unit: Establishment Counts.

		LPG(b)			Alternative Energy Sources(c)							
NAICS Code(a)	Subsector and Industry	Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(f)	RSE Row Factors

(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 LPG during 2002. The quantities are expressed in thousands of barrels, and therefore represent the quantity of LPG that could have been displaced by the given alternative type of energy.
(d) 'Total Consumed' represents those quantities (Total Inputs) of LPG 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 LPG.
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.'

Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Billion Cubic Feet.

		Natural Gas			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
	Total United States											
	RSE Column Factors:	0.8	1	0.9	1.6	1	1	1.1	1.1	0.5	1.3	
311	Food	560	155	298	20	70	40	2	63	*	Q	12
311221	Wet Corn Milling	59	11	41	3	3	3	*	4	0	*	2
31131	Sugar	22	7	10	*	2	5	*	0	*	0	1
311421	Fruit and Vegetable Canning	35	10	19	2	6	2	*	1	*	*	5.5
312	Beverage and Tobacco Products	45	18	21	1	8	7	1	2	*	0	3
3121	Beverages	41	15	20	1	7	6	1	2	0	0	4
3122	Tobacco	4	3	1	*	2	1	*	*	*	0	1
313	Textile Mills	72	26	30	1	15	8	1	5	0	0	20.2
314	Textile Product Mills	28	12	11	*	7	1	1	6	1	1	22
315	Apparel	16	3	9	*	2	1	*	Q	*	*	27
316	Leather and Allied Products	4	*	3	*	*	*	*	*	*	*	26.3
321	Wood Products	56	11	38	1	3	1	*	4	*	3	8.8
321113	Sawmills	10	3	6	*	2	*	*	*	0	*	14.7
3212	Veneer, Plywood, and Engineered Woods	32	5	23	*	*	*	0	2	0	3	5.2
3219	Other Wood Products	11	2	7	1	*	*	0	2	0	*	19.4
322	Paper	490	158	285	26	71	56	8	15	*	7	3.3
322110	Pulp Mills	23	8	15	0	3	5	0	2	0	*	1
322121	Paper Mills, except Newsprint	201	71	114	18	26	22	5	5	0	6	4
322122	Newsprint Mills	15	4	7	0	4	1	0	0	0	0	1
322130	Paperboard Mills	183	61	106	6	32	26	2	1	*	1	2.9
323	Printing and Related Support	45	14	24	Q	5	*	*	6	*	*	13
324	Petroleum and Coal Products	854	154	549	11	35	10	*	86	*	39	5.5
324110	Petroleum Refineries	799	142	515	11	27	7	*	83	*	39	4.1
324199	Other Petroleum and Coal Products	4	1	3	0	1	0	0	0	0	*	1
325	Chemicals	1,634	164	1,052	15	73	52	Q	21	0	11	5.2
325110	Petrochemicals	167	6	128	W	*	*	0	*	0	0	1
325120	Industrial Gases	51	1	49	*	1	0	0	*	0	*	2.6
325181	Alkalies and Chlorine	92	5	86	2	2	1	2	1	0	*	1.5
325182	Carbon Black	9	2	8	0	0	1	0	0	0	*	1
325188	Other Basic Inorganic Chemicals	67	7	44	*	3	1	*	3	0	1	9.4
325192	Cyclic Crudes and Intermediates	36	4	28	0	1	3	0	*	0	*	1
325193	Ethyl Alcohol	29	5	16	0	*	0	*	3	0	1	1.4
325199	Other Basic Organic Chemicals	414	39	299	1	18	15	Q	6	0	1	13.3
325211	Plastics Materials and Resins	339	22	124	1	9	3	Q	3	0	6	6.2
325212	Synthetic Rubber	27	3	13	*	1	Q	1	*	0	0	10.7

Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Billion Cubic Feet.

		Natural Gas			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
325222	Noncellulosic Organic Fibers	29	14	15	*	8	6	0	*	0	0	1
325311	Nitrogenous Fertilizers	184	2	138	0	1	*	0	*	0	*	1
325312	Phosphatic Fertilizers	18	0	18	0	0	0	0	0	0	0	1.2
3254	Pharmaceuticals and Medicines	60	28	27	5	18	6	1	1	0	*	2.8
325412	Pharmaceutical Preparation	39	16	18	*	10	5	1	*	0	*	3.2
325992	Photographic Film, Paper, Plate, and Chemicals	7	4	2	*	2	1	1	*	0	0	2.7
326	Plastics and Rubber Products	125	37	67	4	24	9	*	5	*	*	12.6
327	Nonmetallic Mineral Products	410	95	263	4	41	3	6	44	1	4	4.9
3272	Glass and Glass Products	148	39	87	1	18	1	*	21	0	2	4
327211	Flat Glass	51	18	19	*	13	0	0	3	0	2	0.9
327213	Glass Containers	51	14	35	*	4	1	0	10	0	0	1
327310	Cements	21	6	13	1	1	2	4	1	1	1	1.6
327410	Lime	7	2	5	*	*	1	1	*	*	*	1
327993	Mineral Wool	34	6	28	*	*	*	*	6	*	*	3.5
331	Primary Metals	652	83	495	3	12	30	6	31	2	5	2.8
331111	Iron and Steel Mills	377	45	293	*	5	28	6	Q	2	4	2.2
331112	Electrometallurgical Ferroalloy Products	7	*	2	0	*	*	0	*	0	0	1
3312	Steel Products from Purchased Steel	23	3	20	1	*	*	0	1	0	*	6.8
3313	Alumina and Aluminum	127	11	98	*	3	1	0	7	0	*	9.3
331312	Primary Aluminum	19	3	6	0	*	*	0	3	0	*	1.1
3314	Nonferrous Metals, except Aluminum	42	9	31	*	2	1	0	7	0	0	5.8
3315	Foundries	75	15	51	2	2	*	*	11	*	*	4.8
331511	Iron Foundries	27	8	17	*	2	*	*	6	0	*	2.7
331521	Aluminum Die-Casting Foundries	16	2	11	1	*	*	0	2	0	0	2.5
331524	Aluminum Foundries, except Die-Casting	14	2	10	*	*	*	0	2	0	*	1.9
332	Fabricated Metal Products	204	Q	116	6	3	1	Q	Q	*	Q	21.4
333	Machinery	80	13	53	3	4	2	*	7	*	*	15.2
334	Computer and Electronic Products	63	13	40	2	7	5	*	2	*	*	13.2
334413	Semiconductors and Related Devices	21	6	13	*	5	2	*	*	*	*	2.1
335	Electrical Equip., Appliances, and Components	51	12	28	2	2	1	*	8	*	*	16.5
336	Transportation Equipment	197	36	126	4	12	6	4	15	*	*	9.5
336112	Light Trucks and Utility Vehicles	35	5	24	0	0	*	W	W	0	*	1
337	Furniture and Related Products	24	4	13	2	1	*	*	3	*	*	22.2
339	Miscellaneous	31	8	16	1	5	*	*	1	*	*	12.9
	Total	5,641	1,063	3,536	110	400	233	47	365	5	77	6.1
	Northeast Census Region											
	RSE Column Factors:	0.8	1	0.9	1.6	1	1	1.1	1.1	0.5	1.3	

Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Billion Cubic Feet.

		Natural Gas			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
	Total	523	155	292	29	78	62	5	33	2	6	8.5
	Midwest Census Region											
	RSE Column Factors:	0.8	1	0.9	1.6	1	1	1.1	1.1	0.5	1.3	
	Total	1,455	339	935	27	100	66	21	146	*	14	8.9
	South Census Region											
	RSE Column Factors:	0.8	1	0.9	1.6	1	1	1.1	1.1	0.5	1.3	
	Total	3,005	449	1,905	36	174	84	19	145	1	51	7.8
	West Census Region											
	RSE Column Factors:	0.8	1	0.9	1.6	1	1	1.1	1.1	0.5	1.3	
	Total	658	120	403	18	48	20	3	42	1	6	7.7
	Economic Characteristic (f)											
	RSE Column Factors:	0.4	0.9	0.4	1.4	0.9	1.2	1.7	1.3	1.6	1.6	
	Value of Shipments and Receipts (million dollars)											
	Under 20	582	111	348	19	28	13	4	71	1	4	18.9
	20-49	575	142	342	19	51	35	4	61	1	10	13.9
	50-99	712	166	439	10	72	23	5	44	0	Q	9.7
	100-249	947	191	585	11	99	32	8	59	*	6	7.9
	250-499	804	172	537	17	66	68	Q	31	1	3	9.6
	500 and Over	2,022	279	1,284	35	85	61	14	99	2	25	2.2
	Total	5,641	1,063	3,536	110	400	233	47	365	5	77	6.2
	Employment Size											
	Under 50	408	66	262	10	26	11	2	23	*	Q	18.9
	50-99	532	88	359	7	34	15	3	22	1	Q	15.3

Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Billion Cubic Feet.

		Natural Gas			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
	100-249	1,022	200	642	22	86	33	9	71	*	9	9.8
	250-499	1,197	255	755	30	89	45	3	113	1	13	12
	500-999	1,061	238	628	20	79	62	Q	89	1	9	7.5
	1000 and Over	1,422	216	889	22	87	67	16	46	2	10	2
	Total	5,641	1,063	3,536	110	400	233	47	365	5	77	6.3

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

Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Billion Cubic Feet.

		Natural Gas			Alternative Energy Sources(b)							
NAICS Code(a)	**Subsector and Industry**	**Total Consumed(c)**	**Switchable**	**Not Switchable**	**Electricity Receipts(d)**	**Distillate Fuel Oil**	**Residual Fuel Oil**	**Coal**	**LPG**	**Coal Coke and Breeze**	**Other(e)**	**RSE Row Factors**

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.'

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.

		Natural Gas(b)			Alternative Energy Sources(c)							
NAICS Code(a)	Subsector and Industry	Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)	RSE Row Factors
	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

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.

		Natural Gas(b)			Alternative Energy Sources(c)							
NAICS Code(a)	Subsector and Industry	Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)	RSE Row Factors
325212	Synthetic Rubber	103	23	101	Q	21	13	W	13	0	0	1.6
325222	Noncellulosic Organic Fibers	50	27	31	5	15	9	0	5	0	0	1
325311	Nitrogenous Fertilizers	44	4	43	0	W	W	0	W	0	W	1
325312	Phosphatic Fertilizers	21	0	21	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

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.

		Natural Gas(b)			Alternative Energy Sources(c)							
NAICS Code(a)	Subsector and Industry	Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)	RSE Row Factors

(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.'

Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		Residual Fuel Oil			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
	Total United States											
	RSE Column Factors:	1.9	1.4	1.9	0.6	1.5	0.6	0.6	0.9	0	0.7	
311	Food	2,125	1,411	508	0	819	W	W	Q	0	Q	11.1
311221	Wet Corn Milling	61	W	45	0	0	W	0	0	0	0	0.8
31131	Sugar	346	193	98	0	169	0	W	0	0	0	0.7
311421	Fruit and Vegetable Canning	153	29	Q	0	29	*	0	0	0	0	24.6
312	Beverage and Tobacco Products	274	153	122	0	153	35	1	0	0	0	2.3
3121	Beverages	147	111	Q	0	111	W	0	0	0	0	2.1
3122	Tobacco	128	42	86	0	42	W	1	0	0	0	0.8
313	Textile Mills	647	288	268	0	177	148	Q	Q	0	*	21.8
314	Textile Product Mills	278	267	0	0	244	252	6	Q	0	0	41.8
315	Apparel	23	0	23	0	0	0	0	0	0	0	26
316	Leather and Allied Products	48	0	48	0	0	0	0	0	0	0	0.5
321	Wood Products	155	74	81	*	64	W	0	0	0	Q	5.5
321113	Sawmills	6	*	5	*	0	0	0	0	0	0	0.8
3212	Veneer, Plywood, and Engineered Woods	106	64	43	0	64	W	0	0	0	0	7.3
3219	Other Wood Products	Q	Q	Q	0	0	0	0	0	0	Q	0
322	Paper	15,937	6,041	8,808	505	4,433	1,049	W	286	0	498	2.7
322110	Pulp Mills	W	716	W	88	628	89	0	1	0	0	1
322121	Paper Mills, except Newsprint	7,539	2,311	4,348	416	1,375	235	W	113	0	396	3.7
322122	Newsprint Mills	W	1	W	0	1	0	0	0	0	0	0.6
322130	Paperboard Mills	5,392	2,877	2,332	1	2,293	725	W	W	0	W	2.4
323	Printing and Related Support	Q	Q	0	Q	Q	Q	0	0	0	Q	0
324	Petroleum and Coal Products	3,995	1,879	1,977	W	1,762	652	0	893	0	W	4.2
324110	Petroleum Refineries	3,340	1,470	1,852	W	1,372	392	0	893	0	W	1.6
324199	Other Petroleum and Coal Products	W	0	W	0	0	0	0	0	0	0	0.5
325	Chemicals	6,487	1,996	1,665	40	1,848	454	58	0	Q	0	14.4
325110	Petrochemicals	W	W	W	0	W	0	0	0	0	0	0.6
325120	Industrial Gases	0	0	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	Q	0	Q	0	0	0	0	0	0	0	0
325182	Carbon Black	1,724	*	1,723	0	*	0	0	0	0	0	0.6
325188	Other Basic Inorganic Chemicals	304	0	269	0	0	0	0	0	0	0	3.7
325192	Cyclic Crudes and Intermediates	W	W	W	0	W	0	0	0	0	0	0.6
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	2,108	Q	268	0	Q	W	0	0	0	0	6.2
325211	Plastics Materials and Resins	87	Q	65	Q	8	0	Q	0	Q	0	4.2
325212	Synthetic Rubber	9	9	0	0	9	Q	0	0	0	0	29.5

Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		Residual Fuel Oil			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
325222	Noncellulosic Organic Fibers	W	213	W	W	158	W	W	0	0	0	1.5
325311	Nitrogenous Fertilizers	0	0	*	0	0	0	0	0	0	0	0.5
325312	Phosphatic Fertilizers	182	20	162	0	20	0	0	0	0	0	0.6
3254	Pharmaceuticals and Medicines	287	249	38	0	W	W	0	0	0	0	1.4
325412	Pharmaceutical Preparation	254	249	Q	0	W	W	0	0	0	0	1
325992	Photographic Film, Paper, Plate, and Chemicals	156	W	W	0	22	0	W	0	0	0	0.7
326	Plastics and Rubber Products	1,174	685	430	0	685	115	0	*	0	*	3.8
327	Nonmetallic Mineral Products	459	167	283	Q	167	0	*	0	0	W	1.6
3272	Glass and Glass Products	W	41	W	0	41	0	0	0	0	0	0.6
327211	Flat Glass	W	0	W	0	0	0	0	0	0	0	0.5
327213	Glass Containers	0	0	0	0	0	0	0	0	0	0	0
327310	Cements	106	41	65	0	41	0	0	0	0	0	0.6
327410	Lime	W	W	0	*	W	0	0	0	0	W	0.8
327993	Mineral Wool	0	0	0	0	0	0	0	0	0	0	0.5
331	Primary Metals	142	24	88	0	24	6	0	0	0	0	5
331111	Iron and Steel Mills	96	0	71	0	0	0	0	0	0	0	0.5
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	24	8	Q	0	8	0	0	0	0	0	2.2
3313	Alumina and Aluminum	*	*	0	0	*	0	0	0	0	0	0.6
331312	Primary Aluminum	*	*	0	0	*	0	0	0	0	0	0.6
3314	Nonferrous Metals, except Aluminum	21	16	0	0	16	6	0	0	0	0	8.4
3315	Foundries	Q	*	0	0	*	0	0	0	0	0	0.7
331511	Iron Foundries	0	0	0	0	0	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	*	*	0	0	*	0	0	0	0	0	0.6
331524	Aluminum Foundries, except Die-Casting	Q	0	0	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	Q	Q	12	0	Q	0	0	0	0	0	13.1
333	Machinery	7	Q	*	0	Q	0	0	0	0	0	3.3
334	Computer and Electronic Products	123	56	66	0	53	3	0	0	0	0	10
334413	Semiconductors and Related Devices	1	1	0	0	1	0	0	0	0	0	0.6
335	Electrical Equip., Appliances, and Components	36	31	3	0	31	0	0	0	0	0	4.9
336	Transportation Equipment	990	475	399	159	475	10	4	7	0	13	1.5
336112	Light Trucks and Utility Vehicles	W	1	W	0	1	0	0	0	0	0	0.6
337	Furniture and Related Products	Q	0	0	0	0	0	0	0	0	0	0
339	Miscellaneous	36	36	0	0	36	0	0	0	0	0	1.3
	Total	33,132	13,710	14,782	714	11,095	3,348	683	1,263	Q	615	4.8
	Northeast Census Region											
	RSE Column Factors:	1.9	1.4	1.9	0.6	1.5	0.6	0.6	0.9	0	0.7	

Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		Residual Fuel Oil			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
	Total	10,742	3,400	5,929	556	2,434	678	46	100	Q	371	6.4
	Midwest Census Region											
	RSE Column Factors:	1.9	1.4	1.9	0.6	1.5	0.6	0.6	0.9	0	0.7	
	Total	3,442	2,964	451	W	2,920	W	40	716	0	W	9.9
	South Census Region											
	RSE Column Factors:	1.9	1.4	1.9	0.6	1.5	0.6	0.6	0.9	0	0.7	
	Total	17,001	6,664	7,451	144	5,059	2,249	596	W	0	187	4.7
	West Census Region											
	RSE Column Factors:	1.9	1.4	1.9	0.6	1.5	0.6	0.6	0.9	0	0.7	
	Total	1,947	683	951	W	682	W	0	W	0	W	1.2
	Economic Characteristic (f)											
	RSE Column Factors:	1.1	1.9	0.9	0.3	2.1	1.9	0.5	1.2	0	0.8	
	Value of Shipments and Receipts (million dollars)											
	Under 20	2,406	1,267	742	Q	721	Q	W	0	Q	Q	18.7
	20-49	4,485	1,586	917	*	1,380	Q	*	W	0	0	6.2
	50-99	2,774	839	1,659	W	677	238	0	99	0	0	9.8
	100-249	6,909	2,719	3,379	88	2,512	385	44	42	0	*	12.2
	250-499	9,019	3,724	5,157	W	2,846	1,015	W	W	0	337	1.9
	500 and Over	7,540	3,575	2,929	268	2,959	715	358	900	0	204	2.1
	Total	33,132	13,710	14,782	714	11,095	3,348	683	1,263	Q	615	4.8
	Employment Size											
	Under 50	910	493	274	Q	461	Q	W	W	Q	W	24.3
	50-99	3,779	1,099	639	*	465	Q	0	0	0	Q	10.9

Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		Residual Fuel Oil			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
	100-249	5,242	2,329	2,561	0	2,216	378	*	91	0	0	10.9
	250-499	6,893	2,417	3,846	211	2,077	849	W	628	0	W	2.9
	500-999	10,110	3,705	5,123	148	2,933	940	282	181	0	123	2.2
	1000 and Over	6,197	3,667	2,339	340	2,943	385	363	W	0	388	2
	Total	33,132	13,710	14,782	714	11,095	3,348	683	1,263	Q	615	4.8

(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 residual fuel oil during 2002. The quantities are expressed in thousands of barrels, and therefore represent the quantity of residual fuel oil that could have been displaced by the given alternative type of energy.
(c) 'Total Consumed' represents those quantities (Total Inputs) of residual fuel oil that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.
(d) '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.
(e) 'Other' includes all other types of energy not already identified that respondents indicated could have been consumed in place of residual fuel oil.
(f) 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.

Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		Residual Fuel Oil			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors

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.'

Table 10.5 Number of Establishments with Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Energy Sources;
Unit: Establishment Counts.

		Residual Fuel Oil(b)			Alternative Energy Sources(c)							
NAICS Code(a)	Subsector and Industry	Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)	RSE Row Factors
	Total United States											
	RSE Column Factors:	1.3	1	1.5	0.7	1	0.8	0.6	1.2	1.4	0.8	
311	Food	274	183	108	0	119	72	W	Q	0	15	15.2
311221	Wet Corn Milling	3	W	W	0	0	W	0	0	0	0	0.9
31131	Sugar	18	9	9	0	9	0	W	0	0	0	1
311421	Fruit and Vegetable Canning	38	26	30	0	26	W	0	0	0	0	8.1
312	Beverage and Tobacco Products	35	17	Q	0	17	6	W	0	0	0	8
3121	Beverages	24	9	Q	0	9	4	0	0	0	0	20.9
3122	Tobacco	11	8	4	0	8	W	W	0	0	0	1
313	Textile Mills	145	68	85	0	55	25	5	5	0	6	13.4
314	Textile Product Mills	16	W	W	0	12	6	W	4	0	0	23
315	Apparel	26	0	26	0	0	0	0	0	0	0	15.3
316	Leather and Allied Products	W	0	W	0	0	0	0	0	0	0	0.7
321	Wood Products	69	9	66	W	W	W	0	0	0	6	2.5
321113	Sawmills	W	W	W	W	0	0	0	0	0	0	0.9
3212	Veneer, Plywood, and Engineered Woods	7	W	W	0	W	W	0	0	0	0	2
3219	Other Wood Products	55	6	55	0	0	0	0	0	0	6	5.2
322	Paper	242	105	162	9	90	18	10	6	0	10	3.7
322110	Pulp Mills	15	9	10	W	8	3	0	W	0	0	1.1
322121	Paper Mills, except Newsprint	111	49	73	6	39	8	W	W	0	7	6
322122	Newsprint Mills	4	W	W	0	W	0	0	0	0	0	0.8
322130	Paperboard Mills	57	38	29	W	34	7	6	W	0	W	1
323	Printing and Related Support	136	136	0	84	84	52	0	0	0	52	24.5
324	Petroleum and Coal Products	118	56	61	W	55	36	0	10	0	W	7.8
324110	Petroleum Refineries	40	15	24	W	15	W	0	10	0	W	1
324199	Other Petroleum and Coal Products	W	0	W	0	0	0	0	0	0	0	0.7
325	Chemicals	270	156	123	56	92	34	57	0	55	0	3.5
325110	Petrochemicals	W	W	3	0	W	0	0	0	0	0	0.8
325120	Industrial Gases	0	0	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	W	0	W	0	0	0	0	0	0	0	1.4
325182	Carbon Black	4	W	W	0	W	0	0	0	0	0	0.8
325188	Other Basic Inorganic Chemicals	16	0	16	0	0	0	0	0	0	0	3.5
325192	Cyclic Crudes and Intermediates	4	W	W	0	W	0	0	0	0	0	0.8
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	30	17	13	0	17	W	0	0	0	0	2
325211	Plastics Materials and Resins	62	58	5	55	4	0	55	0	55	0	4.6

Table 10.5 Number of Establishments with Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Energy Sources;
Unit: Establishment Counts.

		Residual Fuel Oil(b)			Alternative Energy Sources(c)							
NAICS Code(a)	Subsector and Industry	Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)	RSE Row Factors
325212	Synthetic Rubber	24	24	0	0	24	17	0	0	0	0	1
325222	Noncellulosic Organic Fibers	19	11	9	W	9	W	W	0	0	0	1.1
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0	0	0.7
325312	Phosphatic Fertilizers	5	W	W	0	W	0	0	0	0	0	0.8
3254	Pharmaceuticals and Medicines	56	10	50	0	4	W	0	0	0	0	2.4
325412	Pharmaceutical Preparation	11	9	5	0	4	W	0	0	0	0	5
325992	Photographic Film, Paper, Plate, and Chemicals	4	W	W	0	W	0	W	0	0	0	1
326	Plastics and Rubber Products	81	31	50	0	31	5	0	W	0	W	2.1
327	Nonmetallic Mineral Products	27	9	84	Q	8	0	W	0	0	W	3.8
3272	Glass and Glass Products	W	W	W	0	W	0	0	0	0	0	0.8
327211	Flat Glass	W	0	W	0	0	0	0	0	0	0	0.7
327213	Glass Containers	0	0	0	0	0	0	0	0	0	0	0
327310	Cements	3	W	W	0	W	0	0	0	0	0	0.8
327410	Lime	7	W	W	W	W	0	0	0	0	W	1
327993	Mineral Wool	0	0	0	0	0	0	0	0	0	0	0.7
331	Primary Metals	44	9	35	0	9	W	0	0	0	0	3.9
331111	Iron and Steel Mills	5	0	5	0	0	0	0	0	0	0	0.7
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	13	W	W	0	W	0	0	0	0	0	10.9
3313	Alumina and Aluminum	W	W	0	0	W	0	0	0	0	0	0.9
331312	Primary Aluminum	W	W	0	0	W	0	0	0	0	0	0.9
3314	Nonferrous Metals, except Aluminum	W	5	W	0	5	W	0	0	0	0	4.2
3315	Foundries	13	W	W	0	W	0	0	0	0	0	4.6
331511	Iron Foundries	0	0	0	0	0	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	W	W	0	0	W	0	0	0	0	0	0.9
331524	Aluminum Foundries, except Die-Casting	W	0	W	0	0	0	0	0	0	0	22.3
332	Fabricated Metal Products	201	22	179	0	22	0	0	0	0	0	24.6
333	Machinery	14	7	7	0	7	0	0	0	0	0	8.8
334	Computer and Electronic Products	23	12	13	0	11	W	0	0	0	0	3.1
334413	Semiconductors and Related Devices	W	W	0	0	W	0	0	0	0	0	0.9
335	Electrical Equip., Appliances, and Components	17	7	12	0	7	0	0	0	0	0	4.3
336	Transportation Equipment	33	18	21	W	18	W	W	W	0	W	1.4
336112	Light Trucks and Utility Vehicles	3	W	W	0	W	0	0	0	0	0	0.8
337	Furniture and Related Products	W	0	W	0	0	0	0	0	0	0	29.3
339	Miscellaneous	12	W	W	0	W	0	0	0	0	0	1.8
	Total	1,846	861	1,128	218	641	261	78	Q	55	94	10.6

Table 10.5 Number of Establishments with Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Energy Sources;
Unit: Establishment Counts.

		Residual Fuel Oil(b)			Alternative Energy Sources(c)							
NAICS Code(a)	**Subsector and Industry**	**Total Consumed(d)**	**Switchable**	**Not Switchable**	**Electricity Receipts(e)**	**Natural Gas**	**Distillate Fuel Oil**	**Coal**	**LPG**	**Coal Coke and Breeze**	**Other(f)**	**RSE Row Factors**

(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 residual fuel oil during 2002. The quantities are expressed in thousands of barrels, and therefore represent the quantity of residual fuel oil that could have been displaced by the given alternative type of energy.
(d) 'Total Consumed' represents those quantities (Total Inputs) of residual 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 residual 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.'

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.

		Electricity Receipts			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 United States											
	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	Petroleum Refineries	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	Other Basic Inorganic Chemicals	26,179	44	9,857	13	W	0	0	0	0	0	0.8
325192	Cyclic Crudes and Intermediates	3,443	*	2,899	0	*	0	0	0	0	0	0.9
325193	Ethyl Alcohol	1,309	18	1,134	17	2	0	0	0	0	0	2.1
325199	Other Basic Organic Chemicals	25,136	336	21,771	263	63	0	0	*	0	8	3.1
325211	Plastics Materials and Resins	22,388	Q	15,790	Q	19	0	0	17	0	W	1.7
325212	Synthetic Rubber	1,916	0	1,604	0	0	0	0	0	0	0	20.8

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.

		Electricity Receipts			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	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.

		Electricity Receipts			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 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.

		Electricity Receipts			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.'

Table 10.7 Number of Establishments with Capability to Switch Electricity to Alternative Energy Sources, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Energy Sources;
Unit: Establishment Counts.

		Electricity Receipts(b)			Alternative Energy Sources(c)							
NAICS Code(a)	Subsector and Industry	Total Receipts(d)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
	Total United States											
	RSE Column Factors:	0.6	1.2	0.6	1.2	1.3	1	0.8	1.4	1.3	1.2	
311	Food	15,045	582	14,905	185	437	30	W	170	0	55	11.4
311221	Wet Corn Milling	49	W	W	W	0	0	0	0	0	0	1.2
31131	Sugar	77	8	74	W	4	W	W	0	0	W	1.1
311421	Fruit and Vegetable Canning	468	37	443	Q	34	0	0	13	0	0	10.4
312	Beverage and Tobacco Products	1,595	70	1,556	41	26	0	W	20	0	0	12.8
3121	Beverages	1,517	W	W	41	26	0	0	20	0	0	18.7
3122	Tobacco	78	W	W	0	0	0	W	0	0	0	1.4
313	Textile Mills	2,247	55	2,215	W	33	0	0	0	0	22	7.7
314	Textile Product Mills	3,456	153	3,341	114	W	0	0	W	0	37	4.9
315	Apparel	5,500	185	5,469	184	184	175	177	175	175	175	15.6
316	Leather and Allied Products	699	46	653	0	35	0	0	0	0	11	5.3
321	Wood Products	10,460	466	10,117	294	206	41	W	35	W	26	6.7
321113	Sawmills	2,209	162	2,065	28	152	36	0	28	0	25	9.5
3212	Veneer, Plywood, and Engineered Woods	1,478	35	1,472	28	7	W	0	W	0	W	4.7
3219	Other Wood Products	6,461	252	6,280	233	36	5	W	6	W	0	4.2
322	Paper	4,257	65	4,228	42	26	15	9	0	0	12	1.7
322110	Pulp Mills	34	W	W	0	0	W	0	0	0	0	1.3
322121	Paper Mills, except Newsprint	323	25	310	18	4	9	7	0	0	7	2.1
322122	Newsprint Mills	21	W	W	W	0	0	0	0	0	0	1.2
322130	Paperboard Mills	210	21	200	17	11	5	W	0	0	5	1.1
323	Printing and Related Support	20,220	512	19,834	485	107	90	272	199	173	9	15.8
324	Petroleum and Coal Products	1,915	130	1,837	37	87	W	W	37	W	17	4.9
324110	Petroleum Refineries	215	40	213	29	7	W	0	16	W	12	1
324199	Other Petroleum and Coal Products	46	W	W	W	0	0	W	0	0	3	1.2
325	Chemicals	8,909	334	8,726	154	145	18	5	26	0	60	3.6
325110	Petrochemicals	37	W	W	W	0	0	0	0	0	0	1.2
325120	Industrial Gases	527	0	527	0	0	0	0	0	0	0	3.6
325181	Alkalies and Chlorine	33	W	W	W	W	0	W	0	0	0	1.1
325182	Carbon Black	22	0	22	0	0	0	0	0	0	0	1.8
325188	Other Basic Inorganic Chemicals	515	5	515	W	W	0	0	0	0	0	1.7
325192	Cyclic Crudes and Intermediates	37	W	W	0	W	0	0	0	0	0	1.2
325193	Ethyl Alcohol	48	W	W	W	W	0	0	0	0	0	1.1
325199	Other Basic Organic Chemicals	578	24	568	14	13	0	0	W	0	W	1.2
325211	Plastics Materials and Resins	709	17	696	15	W	0	0	W	0	W	1.7
325212	Synthetic Rubber	125	0	125	0	0	0	0	0	0	0	5.4

Table 10.7 Number of Establishments with Capability to Switch Electricity to Alternative Energy Sources, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Energy Sources;
Unit: Establishment Counts.

		Electricity Receipts(b)			Alternative Energy Sources(c)							
NAICS Code(a)	Subsector and Industry	Total Receipts(d)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
325222	Noncellulosic Organic Fibers	64	W	W	W	0	W	W	0	0	0	1.2
325311	Nitrogenous Fertilizers	56	4	55	W	W	0	0	0	0	0	1.1
325312	Phosphatic Fertilizers	27	W	W	W	W	W	0	0	0	0	1.1
3254	Pharmaceuticals and Medicines	1,143	65	1,135	13	54	W	0	6	0	W	4.5
325412	Pharmaceutical Preparation	606	30	600	4	27	0	0	6	0	W	6.8
325992	Photographic Film, Paper, Plate, and Chemicals	171	0	171	0	0	0	0	0	0	0	8.9
326	Plastics and Rubber Products	10,538	367	10,282	255	193	16	62	184	0	89	4.1
327	Nonmetallic Mineral Products	11,516	626	11,161	283	384	Q	79	74	Q	Q	14.9
3272	Glass and Glass Products	1,047	62	1,013	48	33	0	Q	Q	0	0	18.6
327211	Flat Glass	38	9	35	W	8	0	0	W	0	0	1
327213	Glass Containers	61	7	60	6	W	0	0	0	0	0	1.1
327310	Cements	195	W	W	0	W	0	W	0	0	0	2.3
327410	Lime	65	0	65	0	0	0	0	0	0	0	1.8
327993	Mineral Wool	207	Q	169	Q	Q	Q	Q	Q	Q	0	15
331	Primary Metals	4,166	147	4,101	93	117	25	W	48	0	5	2.6
331111	Iron and Steel Mills	771	6	771	W	W	0	0	0	0	W	2.1
331112	Electrometallurgical Ferroalloy Products	15	W	W	0	W	0	0	0	0	0	1.2
3312	Steel Products from Purchased Steel	548	34	525	29	27	20	0	24	0	0	2.9
3313	Alumina and Aluminum	446	W	W	0	Q	0	0	0	0	0	6.2
331312	Primary Aluminum	41	0	41	0	0	0	0	0	0	0	7.2
3314	Nonferrous Metals, except Aluminum	671	25	659	11	24	0	0	9	0	0	4.3
3315	Foundries	1,715	65	1,702	52	46	5	W	15	0	W	2.1
331511	Iron Foundries	453	10	450	7	8	W	0	4	0	0	3.8
331521	Aluminum Die-Casting Foundries	227	8	226	7	5	0	0	4	0	0	1.3
331524	Aluminum Foundries, except Die-Casting	341	15	334	11	8	W	0	5	0	W	1.7
332	Fabricated Metal Products	35,349	1,529	34,400	1,083	639	183	216	584	81	74	9.5
333	Machinery	17,381	560	16,969	470	308	90	4	290	0	65	5.3
334	Computer and Electronic Products	9,238	384	8,985	250	177	79	W	80	W	52	2.6
334413	Semiconductors and Related Devices	578	19	575	11	15	W	W	3	W	W	1.5
335	Electrical Equip., Appliances, and Components	3,886	201	3,831	91	Q	W	0	13	0	11	12.7
336	Transportation Equipment	7,653	387	7,479	206	333	87	69	153	66	71	5.3
336112	Light Trucks and Utility Vehicles	42	5	41	W	W	0	W	0	0	W	1.1
337	Furniture and Related Products	10,941	331	10,817	316	96	5	W	84	0	78	6.5
339	Miscellaneous	15,605	619	15,295	W	W	97	221	W	214	79	5.2
	Total	200,574	7,749	196,202	4,984	3,811	994	1,123	2,262	752	1,033	4.5

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

Table 10.7 Number of Establishments with Capability to Switch Electricity to Alternative Energy Sources, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Energy Sources;
Unit: Establishment Counts.

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

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

Table 10.8 Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		Distillate Fuel Oil			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
	Total United States											
	RSE Column Factors:	1.7	1.6	1.7	0.9	1.5	0.6	0.7	1.7	0.3	0.8	
311	Food	3,177	986	767	Q	297	Q	1	Q	0	Q	10.4
311221	Wet Corn Milling	14	4	10	*	3	0	1	2	0	*	0.8
31131	Sugar	169	W	143	W	W	0	0	0	0	0	0.7
311421	Fruit and Vegetable Canning	242	Q	121	0	Q	0	0	0	0	*	27.1
312	Beverage and Tobacco Products	253	19	170	1	18	1	3	*	0	*	3.8
3121	Beverages	Q	15	Q	1	14	1	2	*	0	0	4.7
3122	Tobacco	48	4	31	0	3	*	*	*	0	*	0.9
313	Textile Mills	342	145	Q	0	145	Q	*	Q	0	0	9.4
314	Textile Product Mills	Q	53	Q	0	30	7	W	4	0	Q	13
315	Apparel	250	Q	61	0	Q	0	0	Q	0	0	28
316	Leather and Allied Products	41	30	9	0	*	0	0	30	0	0	1.7
321	Wood Products	1,720	138	1,183	84	29	5	1	23	W	15	10.4
321113	Sawmills	944	89	654	Q	1	2	0	10	0	5	21
3212	Veneer, Plywood, and Engineered Woods	326	10	286	3	5	1	0	5	0	Q	5.6
3219	Other Wood Products	329	21	186	5	9	Q	0	3	0	Q	21.9
322	Paper	2,263	1,297	902	50	1,176	265	50	13	W	154	2.1
322110	Pulp Mills	806	621	179	0	621	0	0	0	0	*	0.7
322121	Paper Mills, except Newsprint	682	262	402	45	185	56	38	6	0	54	2
322122	Newsprint Mills	22	W	11	0	W	0	0	0	0	0	0.6
322130	Paperboard Mills	661	358	285	6	318	W	W	1	W	W	1.4
323	Printing and Related Support	75	13	37	*	4	0	0	Q	0	*	8.9
324	Petroleum and Coal Products	2,821	522	1,586	10	443	Q	W	170	0	3	11.5
324110	Petroleum Refineries	853	90	735	7	82	0	W	W	0	1	1.6
324199	Other Petroleum and Coal Products	33	*	31	*	0	0	0	0	0	0	3.4
325	Chemicals	2,422	403	1,654	39	314	Q	23	1	0	3	4.8
325110	Petrochemicals	41	W	10	W	W	0	0	0	0	0	1.1
325120	Industrial Gases	6	W	W	*	1	0	0	*	0	0	0.7
325181	Alkalies and Chlorine	16	W	9	0	W	0	0	*	0	0	0.6
325182	Carbon Black	3	0	3	0	0	0	0	0	0	0	0.6
325188	Other Basic Inorganic Chemicals	351	8	221	0	6	1	0	*	0	0	1.4
325192	Cyclic Crudes and Intermediates	39	3	W	0	W	0	0	0	0	3	0.7
325193	Ethyl Alcohol	10	8	2	0	1	0	7	0	0	*	0.8
325199	Other Basic Organic Chemicals	292	Q	140	1	31	Q	0	*	0	*	2.7
325211	Plastics Materials and Resins	251	W	72	Q	W	0	0	*	0	0	2.2
325212	Synthetic Rubber	26	21	3	0	21	Q	13	0	0	0	5.2

Table 10.8 Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		Distillate Fuel Oil			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
325222	Noncellulosic Organic Fibers	27	19	8	0	19	0	*	0	0	0	0.7
325311	Nitrogenous Fertilizers	12	1	10	0	1	*	0	*	0	0	0.7
325312	Phosphatic Fertilizers	153	3	148	3	3	0	0	0	0	0	0.7
3254	Pharmaceuticals and Medicines	473	28	424	1	27	0	0	*	0	0	5.9
325412	Pharmaceutical Preparation	105	13	73	*	13	0	0	*	0	0	2.4
325992	Photographic Film, Paper, Plate, and Chemicals	75	Q	15	0	Q	0	W	0	0	0	9
326	Plastics and Rubber Products	323	106	182	Q	74	Q	0	Q	0	Q	18.6
327	Nonmetallic Mineral Products	5,366	417	2,912	1	206	150	162	94	0	Q	9.1
3272	Glass and Glass Products	W	20	W	1	20	0	0	1	0	0	2.1
327211	Flat Glass	W	W	W	0	W	0	0	0	0	0	0.6
327213	Glass Containers	13	0	13	0	0	0	0	0	0	0	0.6
327310	Cements	967	298	604	0	W	W	162	1	0	*	1.4
327410	Lime	210	11	194	0	0	W	0	W	0	1	0.8
327993	Mineral Wool	Q	*	Q	*	*	0	0	*	0	*	8.5
331	Primary Metals	2,560	101	2,288	5	87	Q	0	Q	0	Q	10
331111	Iron and Steel Mills	1,767	Q	1,632	4	Q	Q	0	Q	0	0	1.2
331112	Electrometallurgical Ferroalloy Products	9	0	9	0	0	0	0	0	0	0	15.5
3312	Steel Products from Purchased Steel	76	43	29	0	43	0	0	0	0	*	10.9
3313	Alumina and Aluminum	203	5	191	0	*	0	0	5	0	Q	10.3
331312	Primary Aluminum	36	0	36	0	0	0	0	0	0	0	0.6
3314	Nonferrous Metals, except Aluminum	369	7	334	Q	5	*	0	2	0	*	3.2
3315	Foundries	135	11	92	*	5	0	0	8	0	2	5
331511	Iron Foundries	87	6	72	*	5	0	0	4	0	2	6.4
331521	Aluminum Die-Casting Foundries	3	0	1	0	0	0	0	0	0	0	1.2
331524	Aluminum Foundries, except Die-Casting	9	*	7	*	*	0	0	*	0	0	8.1
332	Fabricated Metal Products	959	Q	438	Q	Q	Q	*	Q	*	Q	18.5
333	Machinery	371	21	252	Q	18	0	0	7	0	0	11.2
334	Computer and Electronic Products	172	37	132	Q	34	*	W	Q	0	0	8.1
334413	Semiconductors and Related Devices	35	28	6	*	27	*	0	*	0	0	1
335	Electrical Equip., Appliances, and Components	107	9	81	Q	9	Q	0	4	0	0	16.1
336	Transportation Equipment	552	107	345	18	96	3	*	Q	0	4	17
336112	Light Trucks and Utility Vehicles	W	0	W	0	0	0	0	0	0	0	0.6
337	Furniture and Related Products	91	14	43	Q	7	Q	0	*	0	0	18.1
339	Miscellaneous	71	Q	31	Q	Q	0	0	Q	0	*	23.4
	Total	24,446	4,920	13,621	314	3,381	1,135	263	1,739	W	220	9.3
	Northeast Census Region											
	RSE Column Factors:	1.7	1.6	1.7	0.9	1.5	0.6	0.7	1.7	0.3	0.8	

Table 10.8 Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		Distillate Fuel Oil			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
	Total	5,104	1,093	2,997	164	818	488	30	214	*	57	16.4
	Midwest Census Region											
	RSE Column Factors:	1.7	1.6	1.7	0.9	1.5	0.6	0.7	1.7	0.3	0.8	
	Total	5,183	736	3,389	25	Q	24	24	Q	0	20	16.9
	South Census Region											
	RSE Column Factors:	1.7	1.6	1.7	0.9	1.5	0.6	0.7	1.7	0.3	0.8	
	Total	9,374	2,305	4,977	116	1,464	404	209	Q	W	53	9.9
	West Census Region											
	RSE Column Factors:	1.7	1.6	1.7	0.9	1.5	0.6	0.7	1.7	0.3	0.8	
	Total	4,784	787	2,259	9	459	220	0	Q	0	91	13.3
	Economic Characteristic (f)											
	RSE Column Factors:	1.1	1.2	1.2	1.3	1.2	0.8	0.5	3.3	0.2	1.2	
	Value of Shipments and Receipts (million dollars)											
	Under 20	8,676	1,442	3,890	160	991	569	Q	920	1	24	25
	20-49	3,760	907	1,970	5	219	Q	Q	Q	0	8	20.4
	50-99	2,562	536	1,589	15	349	186	149	49	0	12	10.4
	100-249	2,863	386	1,967	30	285	*	22	104	0	39	11.7
	250-499	2,993	1,259	1,192	46	1,170	259	68	17	W	125	3.2
	500 and Over	3,591	391	3,013	59	368	8	5	55	0	13	1.4
	Total	24,446	4,920	13,621	314	3,381	1,135	263	1,739	W	220	9.3
	Employment Size											
	Under 50	6,739	857	3,185	Q	387	Q	Q	Q	1	22	16.7
	50-99	2,869	553	1,190	7	212	263	*	Q	0	7	33.3

Table 10.8 Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		Distillate Fuel Oil			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors
	100-249	4,966	1,036	2,967	65	528	351	170	213	*	8	11.9
	250-499	2,517	Q	1,478	26	Q	Q	33	Q	0	24	8.3
	500-999	3,124	1,140	1,878	22	1,075	25	41	115	0	34	10.7
	1000 and Over	4,230	631	2,923	61	527	243	14	52	W	124	2.7
	Total	24,446	4,920	13,621	314	3,381	1,135	263	1,739	W	220	9.3

(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 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.
(c) '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.
(d) '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.
(e) 'Other' includes all other types of energy not already identified that respondents indicated could have been consumed in place of distillate fuel oil.
(f) 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.

Table 10.8 Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Thousand Barrels.

		Distillate Fuel Oil			Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)	RSE Row Factors

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.'

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.

		Distillate Fuel Oil(b)			Alternative Energy Sources(c)							
NAICS Code(a)	Subsector and Industry	Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)	RSE Row Factors
	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

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.

		Distillate Fuel Oil(b)			Alternative Energy Sources(c)							
NAICS Code(a)	Subsector and Industry	Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)	RSE Row Factors
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).

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.

		Distillate Fuel Oil(b)			Alternative Energy Sources(c)							
NAICS Code(a)	Subsector and Industry	Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)	RSE Row Factors

(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.'

Table 11.1 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Electricity Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
	Total United States						
	RSE Column Factors:	1.3	1.1	0.9	0.6	1.2	
311	Food	W	W	5,622	708	73,143	5.1
311221	Wet Corn Milling	W	W	2,755	248	9,606	2.6
31131	Sugar	733	*	1,126	8	1,851	1
311421	Fruit and Vegetable Canning	1,987	*	388	28	2,348	3.3
312	Beverage and Tobacco Products	7,898	0	W	W	8,452	1.8
3121	Beverages	6,504	0	W	W	6,814	2.1
3122	Tobacco	1,394	0	W	W	1,637	1
313	Textile Mills	25,387	0	W	W	25,462	10.4
314	Textile Product Mills	4,870	0	55	0	4,924	8
315	Apparel	3,579	0	Q	0	3,588	10.7
316	Leather and Allied Products	717	0	*	0	716	5.7
321	Wood Products	21,525	98	W	W	22,438	2.6
321113	Sawmills	6,235	98	W	W	6,863	2.7
3212	Veneer, Plywood, and Engineered Woods	9,696	0	W	W	9,832	2.7
3219	Other Wood Products	5,284	0	151	2	5,433	5.8
322	Paper	W	W	51,208	8,630	114,468	1.8
322110	Pulp Mills	W	W	W	W	W	1
322121	Paper Mills, except Newsprint	24,755	503	25,816	4,288	46,786	2.1
322122	Newsprint Mills	10,827	0	W	W	12,097	1
322130	Paperboard Mills	W	W	18,864	3,291	35,200	2.3
323	Printing and Related Support	14,732	Q	W	W	14,770	2.3
324	Petroleum and Coal Products	41,280	Q	17,503	4,123	54,688	1.9
324110	Petroleum Refineries	38,603	Q	16,273	3,148	51,750	1.9
324199	Other Petroleum and Coal Products	430	6	1,226	970	692	1
325	Chemicals	160,360	1,021	49,148	8,280	202,371	2.6
325110	Petrochemicals	W	0	W	88	9,104	1
325120	Industrial Gases	W	W	W	W	24,823	2.5
325181	Alkalies and Chlorine	13,274	0	W	W	18,825	1
325182	Carbon Black	609	0	*	*	609	1
325188	Other Basic Inorganic Chemicals	W	W	W	275	26,638	3.3
325192	Cyclic Crudes and Intermediates	3,443	0	W	0	W	0.9
325193	Ethyl Alcohol	1,309	0	521	32	1,798	5

Table 11.1 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Electricity Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
325199	Other Basic Organic Chemicals	W	W	11,118	2,219	34,036	4.7
325211	Plastics Materials and Resins	W	W	16,224	W	37,720	1.7
325212	Synthetic Rubber	1,916	0	W	W	2,177	4.2
325222	Noncellulosic Organic Fibers	4,377	0	W	W	5,292	1
325311	Nitrogenous Fertilizers	3,502	0	W	W	4,076	1
325312	Phosphatic Fertilizers	2,006	0	2,671	982	3,695	1
3254	Pharmaceuticals and Medicines	10,964	0	W	W	11,970	2.1
325412	Pharmaceutical Preparation	8,498	0	W	W	9,116	2.3
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	W	0	2,384	3.4
326	Plastics and Rubber Products	53,196	0	W	W	W	5.4
327	Nonmetallic Mineral Products	41,406	56	W	W	42,072	3.1
3272	Glass and Glass Products	12,213	20	Q	0	12,244	1.3
327211	Flat Glass	1,842	0	W	0	W	0.9
327213	Glass Containers	3,932	0	2	0	3,933	0.9
327310	Cements	12,462	0	W	W	13,001	1
327410	Lime	1,353	0	0	0	1,353	0.8
327993	Mineral Wool	3,720	30	0	0	3,750	3.5
331	Primary Metals	W	W	6,020	W	150,522	1
331111	Iron and Steel Mills	54,356	0	W	W	58,067	2.1
331112	Electrometallurgical Ferroalloy Products	3,555	0	0	0	3,555	9
3312	Steel Products from Purchased Steel	4,611	0	0	0	4,611	5.7
3313	Alumina and Aluminum	W	W	785	W	57,458	1
331312	Primary Aluminum	W	W	W	W	W	1
3314	Nonferrous Metals, except Aluminum	W	W	W	W	10,926	1.6
3315	Foundries	15,896	0	12	3	15,905	2.8
331511	Iron Foundries	8,214	0	4	3	8,216	1.8
331521	Aluminum Die-Casting Foundries	1,897	0	*	0	1,897	1.9
331524	Aluminum Foundries, except Die-Casting	1,350	0	0	0	1,350	2.5
332	Fabricated Metal Products	47,121	Q	234	*	47,352	21.4
333	Machinery	24,487	Q	131	46	24,694	4.8
334	Computer and Electronic Products	38,428	0	65	75	38,417	12.4
334413	Semiconductors and Related Devices	13,027	0	27	24	13,028	1.5
335	Electrical Equip., Appliances, and Components	W	W	7	0	13,908	2.3
336	Transportation Equipment	W	W	W	181	51,026	3.4
336112	Light Trucks and Utility Vehicles	4,889	0	W	W	4,976	1
337	Furniture and Related Products	7,112	Q	W	W	7,181	5.8

Table 11.1 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Electricity Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
339	Miscellaneous	10,371	0	4	0	10,375	10.1
	Total	844,583	10,305	134,268	25,286	964,112	1.6
	Northeast Census Region						
	RSE Column Factors:	1.9	0.7	0.7	0.6	1.8	
311	Food	6,570	0	W	W	6,850	13.7
311221	Wet Corn Milling	W	0	0	0	W	0.5
31131	Sugar	W	0	W	0	W	0.7
311421	Fruit and Vegetable Canning	343	0	W	W	W	4.3
312	Beverage and Tobacco Products	1,000	0	W	0	W	3.2
3121	Beverages	W	0	W	0	W	3.3
3122	Tobacco	W	0	W	0	W	0.7
313	Textile Mills	1,340	0	W	W	W	3.9
314	Textile Product Mills	425	0	49	0	474	5.4
315	Apparel	567	0	0	0	567	23.9
316	Leather and Allied Products	111	0	*	0	111	3.6
321	Wood Products	1,390	0	W	W	1,464	4.3
321113	Sawmills	380	0	W	0	W	7.6
3212	Veneer, Plywood, and Engineered Woods	316	0	0	0	W	6
3219	Other Wood Products	682	0	W	0	W	6
322	Paper	W	W	8,345	2,668	15,215	2.6
322110	Pulp Mills	W	0	0	0	W	7.6
322121	Paper Mills, except Newsprint	W	W	W	2,661	9,597	1.7
322122	Newsprint Mills	W	0	W	1	W	0.9
322130	Paperboard Mills	985	0	W	6	W	1.4
323	Printing and Related Support	3,164	0	*	0	3,164	13
324	Petroleum and Coal Products	3,326	0	W	W	4,020	1.3
324110	Petroleum Refineries	2,808	0	W	W	3,487	0.9
324199	Other Petroleum and Coal Products	71	0	W	0	86	0.7
325	Chemicals	12,721	0	W	W	14,412	1.8
325110	Petrochemicals	19	0	*	0	19	1.6
325120	Industrial Gases	1,961	0	0	0	1,961	0.5
325181	Alkalies and Chlorine	W	0	0	0	W	0.5
325182	Carbon Black	0	0	0	0	0	0

Table 11.1 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Electricity Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
325188	Other Basic Inorganic Chemicals	1,034	0	W	W	W	2.4
325192	Cyclic Crudes and Intermediates	205	0	0	0	205	0.5
325193	Ethyl Alcohol	*	0	0	0	*	0.5
325199	Other Basic Organic Chemicals	772	0	W	W	781	2
325211	Plastics Materials and Resins	W	0	W	W	W	3.4
325212	Synthetic Rubber	50	0	0	0	50	0.5
325222	Noncellulosic Organic Fibers	W	0	0	0	W	19
325311	Nitrogenous Fertilizers	74	0	0	0	74	0.5
325312	Phosphatic Fertilizers	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	3,038	0	W	W	3,905	2.2
325412	Pharmaceutical Preparation	2,328	0	W	W	2,869	2.5
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	W	0	W	3.4
326	Plastics and Rubber Products	7,560	0	W	W	W	2.4
327	Nonmetallic Mineral Products	6,608	0	W	W	W	5.4
3272	Glass and Glass Products	W	0	W	0	W	3.3
327211	Flat Glass	W	0	W	0	W	0.7
327213	Glass Containers	W	0	0	0	W	0.5
327310	Cements	W	0	0	W	W	0.8
327410	Lime	W	0	0	0	W	0.5
327993	Mineral Wool	346	0	0	0	346	5.4
331	Primary Metals	15,135	0	W	W	16,388	1.3
331111	Iron and Steel Mills	6,072	0	673	*	6,744	1.6
331112	Electrometallurgical Ferroalloy Products	W	0	0	0	W	0.5
3312	Steel Products from Purchased Steel	W	0	0	0	W	9.2
3313	Alumina and Aluminum	W	0	0	0	W	0.5
331312	Primary Aluminum	W	0	0	0	W	0.5
3314	Nonferrous Metals, except Aluminum	W	0	W	W	W	2.4
3315	Foundries	W	0	W	0	W	1.2
331511	Iron Foundries	607	0	W	0	W	0.5
331521	Aluminum Die-Casting Foundries	52	0	0	0	52	5.4
331524	Aluminum Foundries, except Die-Casting	209	0	0	0	209	0.5
332	Fabricated Metal Products	6,456	0	W	0	W	7.1
333	Machinery	3,685	Q	1	0	3,693	12.2
334	Computer and Electronic Products	11,184	0	11	17	11,178	31.5
334413	Semiconductors and Related Devices	2,390	0	0	0	2,390	1.1
335	Electrical Equip., Appliances, and Components	W	W	7	0	2,020	3

Table 11.1 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Electricity Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
336	Transportation Equipment	4,049	0	W	W	W	2.4
336112	Light Trucks and Utility Vehicles	W	0	0	0	W	0.5
337	Furniture and Related Products	831	0	0	0	831	5.4
339	Miscellaneous	2,519	0	3	0	2,522	12.9
	Total	100,138	59	14,103	3,641	110,652	4
	Midwest Census Region						
	RSE Column Factors:	1.5	0.7	0.9	0.8	1.5	
311	Food	W	W	W	W	31,697	4.8
311221	Wet Corn Milling	5,955	0	W	W	8,274	0.9
31131	Sugar	379	0	W	W	W	0.9
311421	Fruit and Vegetable Canning	397	0	*	0	W	1.7
312	Beverage and Tobacco Products	1,392	0	W	W	W	2.8
3121	Beverages	W	0	W	W	W	2.8
3122	Tobacco	W	0	0	0	W	0.7
313	Textile Mills	313	0	0	W	W	3.6
314	Textile Product Mills	307	0	0	0	307	8.8
315	Apparel	184	0	Q	0	193	9.2
316	Leather and Allied Products	428	0	*	0	428	6.8
321	Wood Products	3,127	0	W	W	3,188	2.4
321113	Sawmills	428	0	W	0	W	13.3
3212	Veneer, Plywood, and Engineered Woods	1,103	0	W	W	1,157	1.6
3219	Other Wood Products	1,558	0	W	0	W	5.4
322	Paper	W	W	W	W	21,042	1.9
322110	Pulp Mills	W	0	W	W	W	0.9
322121	Paper Mills, except Newsprint	W	W	W	W	12,949	1.5
322122	Newsprint Mills	W	0	W	0	W	0.8
322130	Paperboard Mills	2,432	0	W	0	W	9.5
323	Printing and Related Support	5,171	0	0	0	5,171	5.4
324	Petroleum and Coal Products	6,860	0	W	W	8,104	3.6
324110	Petroleum Refineries	6,149	0	W	W	7,394	3.6
324199	Other Petroleum and Coal Products	60	0	0	0	60	0.7
325	Chemicals	29,403	0	W	W	30,155	4.4
325110	Petrochemicals	W	0	0	0	W	0.7

Table 11.1 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Electricity Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
325120	Industrial Gases	6,276	0	0	0	6,276	1.4
325181	Alkalies and Chlorine	W	0	0	0	W	8.8
325182	Carbon Black	W	0	0	0	W	0.7
325188	Other Basic Inorganic Chemicals	2,122	0	W	W	2,123	1.3
325192	Cyclic Crudes and Intermediates	W	0	0	0	W	0.7
325193	Ethyl Alcohol	1,251	0	521	32	1,739	4.4
325199	Other Basic Organic Chemicals	4,081	0	W	W	4,136	1.7
325211	Plastics Materials and Resins	4,322	0	W	W	4,379	5.1
325212	Synthetic Rubber	W	0	0	0	W	2.7
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	1,071	0	0	*	1,070	0.8
325312	Phosphatic Fertilizers	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	4,114	0	W	W	4,182	1.6
325412	Pharmaceutical Preparation	3,637	0	W	W	W	1.6
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	0	0	W	1.4
326	Plastics and Rubber Products	19,789	0	W	W	W	2.8
327	Nonmetallic Mineral Products	10,689	0	W	W	W	1.6
3272	Glass and Glass Products	3,618	0	W	0	W	1.7
327211	Flat Glass	W	0	W	0	W	0.8
327213	Glass Containers	W	0	0	0	W	0.7
327310	Cements	3,050	0	W	W	3,383	1.3
327410	Lime	487	0	0	0	487	0.7
327993	Mineral Wool	1,427	0	0	0	1,427	0.7
331	Primary Metals	W	W	W	W	58,381	1.8
331111	Iron and Steel Mills	22,772	0	W	W	25,401	3.1
331112	Electrometallurgical Ferroalloy Products	2,337	0	0	0	2,337	0.7
3312	Steel Products from Purchased Steel	2,160	0	0	0	W	3.4
3313	Alumina and Aluminum	W	W	0	W	15,954	1
331312	Primary Aluminum	W	W	0	W	W	1
3314	Nonferrous Metals, except Aluminum	W	W	*	0	2,716	1.9
3315	Foundries	9,810	0	W	0	W	6.1
331511	Iron Foundries	5,634	0	W	0	W	2.3
331521	Aluminum Die-Casting Foundries	1,510	0	*	0	1,510	1.7
331524	Aluminum Foundries, except Die-Casting	828	0	0	0	828	2.7
332	Fabricated Metal Products	21,309	0	W	0	W	24.5
333	Machinery	11,513	Q	W	W	11,547	4.9

Table 11.1 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Electricity Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
334	Computer and Electronic Products	5,270	0	Q	0	5,273	6.8
334413	Semiconductors and Related Devices	594	0	*	0	594	1.3
335	Electrical Equip., Appliances, and Components	4,949	0	*	0	4,949	9
336	Transportation Equipment	W	W	W	W	27,700	4.8
336112	Light Trucks and Utility Vehicles	W	0	W	W	W	0.9
337	Furniture and Related Products	2,294	0	W	W	2,306	2.5
339	Miscellaneous	2,786	0	*	0	2,786	9.5
	Total	247,463	5,466	16,421	1,782	267,535	3.4
	South Census Region						
	RSE Column Factors:	1.3	1	1	0.6	1.2	
311	Food	23,096	*	W	W	24,074	4.5
311221	Wet Corn Milling	1,070	0	93	0	1,162	0.9
31131	Sugar	210	*	W	6	W	1
311421	Fruit and Vegetable Canning	541	0	W	W	891	3.6
312	Beverage and Tobacco Products	3,632	0	W	W	3,946	2
3121	Beverages	2,278	0	W	0	W	3
3122	Tobacco	1,354	0	W	W	W	1
313	Textile Mills	22,798	0	W	W	22,843	8.1
314	Textile Product Mills	3,924	0	Q	0	3,928	8
315	Apparel	1,956	0	0	0	1,956	12
316	Leather and Allied Products	143	0	0	0	143	9.6
321	Wood Products	W	W	W	W	11,805	5.3
321113	Sawmills	W	W	W	W	W	4.9
3212	Veneer, Plywood, and Engineered Woods	5,985	0	W	W	W	18.6
3219	Other Wood Products	2,168	0	W	2	W	7.8
322	Paper	W	W	W	W	61,478	2.1
322110	Pulp Mills	W	W	W	W	5,727	1
322121	Paper Mills, except Newsprint	W	W	W	W	20,173	2.3
322122	Newsprint Mills	4,866	0	W	W	W	1
322130	Paperboard Mills	W	W	15,181	W	25,001	1.6
323	Printing and Related Support	4,527	0	0	0	4,527	7.2
324	Petroleum and Coal Products	23,956	Q	W	W	31,224	1.6
324110	Petroleum Refineries	22,895	Q	W	W	30,081	1.6

Table 11.1 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Electricity Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
324199	Other Petroleum and Coal Products	258	6	W	W	339	1.3
325	Chemicals	106,525	1,021	W	W	145,603	2.8
325110	Petrochemicals	W	0	W	88	W	1
325120	Industrial Gases	W	W	W	W	13,419	3.1
325181	Alkalies and Chlorine	9,602	0	W	W	15,152	1
325182	Carbon Black	W	0	W	W	W	1
325188	Other Basic Inorganic Chemicals	W	W	W	W	20,297	2.1
325192	Cyclic Crudes and Intermediates	2,980	0	W	0	W	0.9
325193	Ethyl Alcohol	12	0	0	0	12	0.8
325199	Other Basic Organic Chemicals	W	W	W	W	28,822	5.1
325211	Plastics Materials and Resins	W	W	W	W	31,991	1.9
325212	Synthetic Rubber	W	0	W	W	W	4.5
325222	Noncellulosic Organic Fibers	W	0	W	W	W	1
325311	Nitrogenous Fertilizers	1,894	0	W	W	2,349	1
325312	Phosphatic Fertilizers	1,422	0	W	W	3,085	1
3254	Pharmaceuticals and Medicines	2,740	0	20	0	2,760	9.5
325412	Pharmaceutical Preparation	1,868	0	W	0	W	19
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	0	0	W	12.8
326	Plastics and Rubber Products	21,454	0	*	0	21,455	2.9
327	Nonmetallic Mineral Products	17,561	56	20	0	17,802	9.8
3272	Glass and Glass Products	5,075	20	2	0	5,096	1.5
327211	Flat Glass	840	0	*	0	840	0.9
327213	Glass Containers	1,233	0	2	0	1,234	0.9
327310	Cements	4,839	0	0	0	5,005	2.4
327410	Lime	575	0	0	0	575	0.8
327993	Mineral Wool	1,418	30	0	0	1,448	5.1
331	Primary Metals	W	W	W	W	62,014	1.1
331111	Iron and Steel Mills	21,837	0	W	W	22,251	1
331112	Electrometallurgical Ferroalloy Products	W	0	0	0	W	32
3312	Steel Products from Purchased Steel	W	0	0	0	W	12.8
3313	Alumina and Aluminum	W	W	W	W	29,847	1.3
331312	Primary Aluminum	W	W	W	W	W	1
3314	Nonferrous Metals, except Aluminum	3,205	0	W	0	W	3.3
3315	Foundries	4,079	0	*	0	4,079	1.4
331511	Iron Foundries	1,804	0	0	0	1,804	2.4
331521	Aluminum Die-Casting Foundries	274	0	0	0	274	3.2

Table 11.1 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Electricity Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
331524	Aluminum Foundries, except Die-Casting	244	0	0	0	244	1.6
332	Fabricated Metal Products	15,240	0	Q	*	15,308	10.4
333	Machinery	7,116	Q	W	0	W	8
334	Computer and Electronic Products	9,202	0	*	23	9,179	4.3
334413	Semiconductors and Related Devices	3,664	0	*	23	3,641	2.5
335	Electrical Equip., Appliances, and Components	6,026	0	1	0	6,027	9
336	Transportation Equipment	14,164	0	W	W	14,147	5.5
336112	Light Trucks and Utility Vehicles	W	0	*	0	W	0.9
337	Furniture and Related Products	3,181	Q	Q	0	3,225	8.8
339	Miscellaneous	3,041	0	*	0	3,041	6.4
	Total	390,727	4,188	90,316	14,652	471,010	1.7
	West Census Region						
	RSE Column Factors:	1.8	0.4	1	0.7	1.9	
311	Food	W	W	W	W	10,523	9.7
311221	Wet Corn Milling	W	W	W	W	W	6.2
31131	Sugar	W	0	W	W	W	0.8
311421	Fruit and Vegetable Canning	706	*	W	W	709	3.9
312	Beverage and Tobacco Products	1,874	0	W	W	1,791	3
3121	Beverages	1,874	0	W	W	1,791	3
3122	Tobacco	*	0	0	0	*	0.5
313	Textile Mills	936	0	0	0	936	19.4
314	Textile Product Mills	215	0	Q	0	215	11.3
315	Apparel	872	0	*	0	872	15.6
316	Leather and Allied Products	36	0	0	0	36	19.4
321	Wood Products	W	W	W	W	5,981	2.5
321113	Sawmills	W	W	788	W	2,666	2.7
3212	Veneer, Plywood, and Engineered Woods	2,293	0	W	W	2,366	1.9
3219	Other Wood Products	876	0	Q	0	880	5.4
322	Paper	W	W	W	W	16,732	1.3
322110	Pulp Mills	402	0	W	W	554	0.8
322121	Paper Mills, except Newsprint	3,583	0	W	W	4,067	1.6
322122	Newsprint Mills	4,756	0	W	0	W	0.7
322130	Paperboard Mills	W	W	W	W	5,439	1

Table 11.1 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Electricity Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
323	Printing and Related Support	1,870	Q	W	W	1,908	3
324	Petroleum and Coal Products	7,139	0	W	W	11,341	2.8
324110	Petroleum Refineries	6,752	0	W	W	10,789	3
324199	Other Petroleum and Coal Products	41	0	W	W	207	0.8
325	Chemicals	11,711	0	W	W	12,201	1.1
325110	Petrochemicals	0	0	0	0	0	0
325120	Industrial Gases	3,166	0	0	*	3,166	1.6
325181	Alkalies and Chlorine	W	0	0	0	W	0.5
325182	Carbon Black	W	0	0	0	W	0.5
325188	Other Basic Inorganic Chemicals	2,907	0	W	0	W	0.7
325192	Cyclic Crudes and Intermediates	W	0	W	0	W	0.7
325193	Ethyl Alcohol	47	0	0	0	47	0.5
325199	Other Basic Organic Chemicals	296	0	0	0	296	14.5
325211	Plastics Materials and Resins	W	0	W	W	W	4.2
325212	Synthetic Rubber	18	0	0	0	18	0.5
325222	Noncellulosic Organic Fibers	2	0	0	0	2	0.5
325311	Nitrogenous Fertilizers	463	0	W	0	W	0.7
325312	Phosphatic Fertilizers	584	0	W	W	610	0.8
3254	Pharmaceuticals and Medicines	1,071	0	51	0	1,123	1.7
325412	Pharmaceutical Preparation	665	0	51	0	716	1.9
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	W	0	W	0.7
326	Plastics and Rubber Products	4,393	0	W	0	W	4.8
327	Nonmetallic Mineral Products	6,549	0	W	W	6,611	1.4
3272	Glass and Glass Products	W	0	W	0	W	1
327211	Flat Glass	W	0	W	0	W	0.7
327213	Glass Containers	W	0	0	0	W	0.5
327310	Cements	W	0	W	W	W	0.8
327410	Lime	W	0	0	0	W	0.5
327993	Mineral Wool	528	0	0	0	528	1.1
331	Primary Metals	W	W	W	7	13,739	1.3
331111	Iron and Steel Mills	3,676	0	0	4	3,672	0.7
331112	Electrometallurgical Ferroalloy Products	W	0	0	0	W	0.5
3312	Steel Products from Purchased Steel	W	0	0	0	W	1.6
3313	Alumina and Aluminum	W	0	W	0	W	1
331312	Primary Aluminum	W	0	0	0	W	0.5
3314	Nonferrous Metals, except Aluminum	W	W	W	0	W	2.3

Table 11.1 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Electricity Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
3315	Foundries	W	0	W	3	W	1.6
331511	Iron Foundries	169	0	W	3	W	1.1
331521	Aluminum Die-Casting Foundries	61	0	0	0	61	13.5
331524	Aluminum Foundries, except Die-Casting	69	0	0	0	69	2.2
332	Fabricated Metal Products	4,116	Q	W	0	W	10.8
333	Machinery	2,173	0	W	W	W	2.9
334	Computer and Electronic Products	12,771	0	50	34	12,786	4.6
334413	Semiconductors and Related Devices	6,379	0	27	1	6,403	1.6
335	Electrical Equip., Appliances, and Components	912	0	0	0	912	4.8
336	Transportation Equipment	4,733	0	W	0	W	7.3
336112	Light Trucks and Utility Vehicles	W	0	0	0	W	0.5
337	Furniture and Related Products	807	0	Q	0	818	7
339	Miscellaneous	2,025	0	*	0	2,026	7.5
	Total	106,254	592	13,428	5,211	114,916	1.9

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

(b) 'Transfers In' include quantities delivered from any other establishment(s) in the company, quantities transferred from other establishments of the company for which payment was not made, quantities purchased centrally within the company but separate from the reporting establishment, and quantities for which payment was made in-kind.

(c) 'Total Onsite Generation' includes cogeneration, generation by renewable energy sources, and conventional generation by combustible fuels.

(d) 'Net Demand' is the sum of purchases, transfers in, and total onsite generation, minus sales and transfers offsite. It is the total amount of electricity used. It is not comparable to net electricity which excludes electricity generated onsite by combustible energy sources.

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.

Table 11.1 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Electricity Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors

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

Table 11.2 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Electricity Components;
Unit: Million Kilowatthours.

Economic Characteristic(a)	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
Total United States						
RSE Column Factors:	1.1	1.1	1.1	0.7	1	
Value of Shipments and Receipts (million dollars)						
Under 20	127,569	476	609	251	128,332	13.5
20-49	122,190	20	4,155	2,975	123,374	2.4
50-99	117,207	87	6,356	1,907	121,942	3
100-249	166,129	1,227	19,027	4,240	182,279	3.5
250-499	133,950	5,141	36,752	5,578	170,265	2.4
500 and Over	177,688	3,355	69,334	10,336	240,039	1.5
Total	844,733	10,305	136,233	25,286	966,231	1.9
Employment Size						
Under 50	W	W	3,927	3,415	76,222	4.8
50-99	W	W	1,157	256	73,703	5.1
100-249	181,662	746	8,666	1,770	189,547	2.7
250-499	185,653	1,051	25,065	5,940	205,830	4.2
500-999	159,410	4,754	38,634	5,466	197,333	3.6
1000 and Over	W	W	58,784	8,440	223,596	1.1
Total	844,733	10,305	136,233	25,286	966,231	1.9
Northeast Census Region						
RSE Column Factors:	1.3	1	0.9	0.7	1.2	
Value of Shipments and Receipts (million dollars)						
Under 20	26,110	Q	285	108	26,286	23.9
20-49	17,181	0	W	W	17,337	3.5
50-99	15,448	0	W	W	15,827	5.2
100-249	W	W	3,112	W	19,519	2
250-499	W	W	W	W	12,100	2.2
500 and Over	14,757	0	5,349	524	19,582	1.7
Total	100,138	59	14,103	3,641	110,652	4.2
Employment Size						
Under 50	W	W	270	W	11,782	14.9
50-99	W	0	43	W	15,594	20.9
100-249	21,717	0	584	9	22,292	4.4
250-499	20,096	0	1,962	842	21,216	4.9
500-999	W	W	3,965	W	18,847	1.6
1000 and Over	W	W	7,278	2,089	20,921	1.3
Total	100,138	59	14,103	3,641	110,652	4.2
Midwest Census Region						
RSE Column Factors:	1.2	0.8	1.4	0.7	1.1	
Value of Shipments and Receipts (million dollars)						
Under 20	W	W	W	0	42,688	17

Table 11.2 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Electricity Components;
Unit: Million Kilowatthours.

Economic Characteristic(a)	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
20-49	34,813	0	W	W	35,394	8.7
50-99	37,516	0	W	W	38,311	4.5
100-249	W	W	3,645	W	44,497	3.8
250-499	W	W	W	639	44,069	2.4
500 and Over	W	W	8,337	555	62,575	3.7
Total	247,463	5,466	16,421	1,782	267,535	3.4
Employment Size						
Under 50	22,821	Q	Q	1	22,970	3.4
50-99	20,627	0	117	*	20,744	13
100-249	W	W	2,371	186	51,891	4.4
250-499	W	W	4,797	680	63,775	5.2
500-999	W	W	2,564	311	42,809	2.8
1000 and Over	W	W	6,439	604	65,346	1.3
Total	247,463	5,466	16,421	1,782	267,535	3.4
South Census Region						
RSE Column Factors:	1.3	1.1	1	0.6	1.2	
Value of Shipments and Receipts (million dollars)						
Under 20	W	W	W	109	42,329	12
20-49	52,309	20	W	W	52,571	2.6
50-99	W	W	W	W	52,791	4.2
100-249	W	W	9,538	W	89,746	4.4
250-499	W	W	27,580	W	97,628	3.9
500 and Over	W	W	49,464	7,084	138,072	1
Total	390,878	4,188	92,293	14,652	473,138	2
Employment Size						
Under 50	W	W	W	W	30,293	4.9
50-99	W	W	W	W	27,157	5.4
100-249	W	W	4,187	W	86,415	3.3
250-499	79,477	440	14,848	2,670	92,094	3.9
500-999	W	W	28,337	W	117,839	2.9
1000 and Over	W	W	41,923	5,157	119,339	1.3
Total	390,878	4,188	92,293	14,652	473,138	2
West Census Region						
RSE Column Factors:	1.8	0.4	0.8	1.1	1.7	
Value of Shipments and Receipts (million dollars)						
Under 20	W	W	W	34	17,029	3.1
20-49	17,886	0	W	W	18,071	3.3
50-99	W	W	W	W	15,011	4
100-249	W	W	2,732	684	28,517	3.4
250-499	15,457	0	W	W	16,467	1.8
500 and Over	W	W	6,184	2,174	19,811	2.2
Total	106,254	592	13,416	5,211	114,906	1.9

Table 11.2 Electricity: Components of Net Demand, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Electricity Components;
Unit: Million Kilowatthours.

Economic Characteristic(a)	Purchases	Transfers In(b)	Total Onsite Generation(c)	Sales and Transfers Offsite	Net Demand for Electricity(d)	RSE Row Factors
Employment Size						
Under 50	W	W	W	W	11,178	1.8
50-99	W	W	W	W	10,208	2.3
100-249	W	W	1,523	W	28,948	2.3
250-499	W	W	3,459	1,748	28,744	3.4
500-999	W	W	3,768	W	17,838	3.4
1000 and Over	15,435	0	3,144	589	17,989	1.5
Total	106,254	592	13,416	5,211	114,906	1.9

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

(b) 'Transfers In' include quantities delivered from any other establishment(s) in the company, quantities transferred from other establishments of the company for which payment was not made, quantities purchased centrally within the company but separate from the reporting establishment, and quantities for which payment was made in-kind.

(c) 'Total Onsite Generation' includes cogeneration, generation by renewable energy sources, and conventional generation by combustible fuels.

(d) 'Net Demand' is the sum of purchases, transfers in, and total onsite generation, minus sales and transfers offsite. It is the total amount of electricity used. It is not comparable to net electricity which excludes electricity generated onsite by combustible energy sources.

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.'

Table 11.3 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
	Total United States					
	RSE Column Factors:	0.9	0.8	1.1	1.3	
311	Food	5,622	5,375	0	247	12.5
311221	Wet Corn Milling	2,755	2,717	0	38	2.6
31131	Sugar	1,126	1,077	0	48	1
311421	Fruit and Vegetable Canning	388	W	0	W	1
312	Beverage and Tobacco Products	W	W	*	1	1.6
3121	Beverages	W	W	*	*	3.8
3122	Tobacco	W	W	0	1	1
313	Textile Mills	W	138	W	W	11.9
314	Textile Product Mills	55	49	Q	*	2.1
315	Apparel	Q	0	Q	*	0
316	Leather and Allied Products	*	*	0	*	1
321	Wood Products	W	W	0	72	10
321113	Sawmills	W	W	0	63	9
3212	Veneer, Plywood, and Engineered Woods	W	W	0	0	2.4
3219	Other Wood Products	151	142	0	Q	49.7
322	Paper	51,208	45,687	2,243	3,278	1.2
322110	Pulp Mills	W	5,179	0	W	1
322121	Paper Mills, except Newsprint	25,816	23,039	1,862	916	1.2
322122	Newsprint Mills	W	871	348	W	1
322130	Paperboard Mills	18,864	16,577	33	2,254	1.2
323	Printing and Related Support	W	W	0	*	3.7
324	Petroleum and Coal Products	17,503	16,868	0	635	1.3
324110	Petroleum Refineries	16,273	15,709	0	564	1.3
324199	Other Petroleum and Coal Products	1,226	1,159	0	66	1
325	Chemicals	49,148	47,747	Q	1,398	1
325110	Petrochemicals	W	3,954	0	W	1
325120	Industrial Gases	W	W	0	W	1
325181	Alkalies and Chlorine	W	W	0	W	1
325182	Carbon Black	*	*	0	0	1.2
325188	Other Basic Inorganic Chemicals	W	577	0	W	31.1
325192	Cyclic Crudes and Intermediates	W	W	0	W	1

Table 11.3 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
325193	Ethyl Alcohol	521	521	0	0	5.9
325199	Other Basic Organic Chemicals	11,118	11,107	0	12	2.5
325211	Plastics Materials and Resins	16,224	W	0	W	1
325212	Synthetic Rubber	W	W	0	0	1.2
325222	Noncellulosic Organic Fibers	W	W	0	0	1.2
325311	Nitrogenous Fertilizers	W	W	0	1	1
325312	Phosphatic Fertilizers	2,671	2,671	0	0	1.2
3254	Pharmaceuticals and Medicines	W	1,153	0	W	1.3
325412	Pharmaceutical Preparation	W	766	0	W	1.7
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	W	0	1.1
326	Plastics and Rubber Products	W	W	0	W	55.6
327	Nonmetallic Mineral Products	W	622	0	W	2.4
3272	Glass and Glass Products	Q	W	0	W	0.8
327211	Flat Glass	W	0	0	W	0.9
327213	Glass Containers	2	0	0	2	0.9
327310	Cements	W	530	0	W	1
327410	Lime	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0
331	Primary Metals	6,020	4,245	0	1,775	1
331111	Iron and Steel Mills	W	3,077	0	W	1
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0
3313	Alumina and Aluminum	785	785	0	0	1.2
331312	Primary Aluminum	W	W	0	0	1.2
3314	Nonferrous Metals, except Aluminum	W	377	0	W	1
3315	Foundries	12	6	0	6	16.4
331511	Iron Foundries	4	*	0	4	1
331521	Aluminum Die-Casting Foundries	*	0	0	*	0.9
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0
332	Fabricated Metal Products	234	W	W	Q	58
333	Machinery	131	73	0	58	14.4
334	Computer and Electronic Products	65	45	*	19	22.2
334413	Semiconductors and Related Devices	27	24	*	3	1.8
335	Electrical Equip., Appliances, and Components	7	7	0	1	4.2
336	Transportation Equipment	W	W	W	Q	5.2

Table 11.3 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
336112	Light Trucks and Utility Vehicles	W	W	W	*	1
337	Furniture and Related Products	W	W	Q	W	32.6
339	Miscellaneous	4	1	Q	*	7.5
	Total	134,268	124,261	2,382	7,625	1.4
	Northeast Census Region					
	RSE Column Factors:	1	0.7	1.4	1	
311	Food	W	W	0	W	10.3
311221	Wet Corn Milling	0	0	0	0	0
31131	Sugar	W	W	0	W	1.1
311421	Fruit and Vegetable Canning	W	W	0	0	1.2
312	Beverage and Tobacco Products	W	W	0	W	1.1
3121	Beverages	W	W	0	0	1.2
3122	Tobacco	W	0	0	W	1
313	Textile Mills	W	W	W	0	1.2
314	Textile Product Mills	49	49	0	0	1.2
315	Apparel	0	0	0	0	0
316	Leather and Allied Products	*	*	0	0	1.2
321	Wood Products	W	W	0	59	10.5
321113	Sawmills	W	W	0	W	18.4
3212	Veneer, Plywood, and Engineered Woods	0	0	0	0	0
3219	Other Wood Products	W	W	0	W	39.6
322	Paper	8345	W	W	W	1.3
322110	Pulp Mills	0	0	0	0	0
322121	Paper Mills, except Newsprint	W	6707	W	0	1.6
322122	Newsprint Mills	W	0	W	W	0.9
322130	Paperboard Mills	W	W	W	0	1
323	Printing and Related Support	*	0	0	*	47.3
324	Petroleum and Coal Products	W	W	0	W	1.1
324110	Petroleum Refineries	W	W	0	W	1.1
324199	Other Petroleum and Coal Products	W	W	0	0	1.2
325	Chemicals	W	W	Q	W	1.1
325110	Petrochemicals	*	0	0	*	0

Table 11.3 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
325120	Industrial Gases	0	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	W	0	3	4.3
325192	Cyclic Crudes and Intermediates	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0
325199	Other Basic Organic Chemicals	W	W	0	*	1.1
325211	Plastics Materials and Resins	W	0	0	W	1
325212	Synthetic Rubber	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0
3254	Pharmaceuticals and Medicines	W	W	0	W	1.1
325412	Pharmaceutical Preparation	W	W	0	W	1.1
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	W	0	1
326	Plastics and Rubber Products	W	W	0	0	1.2
327	Nonmetallic Mineral Products	W	60	0	W	5.9
3272	Glass and Glass Products	W	W	0	W	1.1
327211	Flat Glass	W	0	0	W	1
327213	Glass Containers	0	0	0	0	0
327310	Cements	0	0	0	0	0
327410	Lime	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0
331	Primary Metals	W	0	0	W	1
331111	Iron and Steel Mills	673	0	0	673	1
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0
3313	Alumina and Aluminum	0	0	0	0	0
331312	Primary Aluminum	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	W	0	0	W	1
3315	Foundries	W	0	0	W	1
331511	Iron Foundries	W	0	0	W	0
331521	Aluminum Die-Casting Foundries	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0
332	Fabricated Metal Products	W	W	0	0	0

Table 11.3 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
333	Machinery	1	0	0	1	39.1
334	Computer and Electronic Products	11	0	0	11	39.1
334413	Semiconductors and Related Devices	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	7	7	0	*	1.2
336	Transportation Equipment	W	W	0	Q	1.7
336112	Light Trucks and Utility Vehicles	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0
339	Miscellaneous	3	1	Q	*	11.9
	Total	14103	11026	1249	1827	2.2
	Midwest Census Region					
	RSE Column Factors:	1.1	1	0.6	1.4	
311	Food	W	W	0	38	3.7
311221	Wet Corn Milling	W	W	0	38	0.9
31131	Sugar	W	W	0	0	0.9
311421	Fruit and Vegetable Canning	*	0	0	*	0.8
312	Beverage and Tobacco Products	W	W	0	0	0.9
3121	Beverages	W	W	0	0	0.9
3122	Tobacco	0	0	0	0	0
313	Textile Mills	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0
315	Apparel	Q	0	Q	0	0
316	Leather and Allied Products	*	0	0	*	0.8
321	Wood Products	W	W	0	Q	1.6
321113	Sawmills	W	W	0	W	6.4
3212	Veneer, Plywood, and Engineered Woods	W	W	0	0	0.9
3219	Other Wood Products	W	0	0	W	0
322	Paper	W	W	W	W	2.6
322110	Pulp Mills	W	W	0	0	0.9
322121	Paper Mills, except Newsprint	W	4,565	W	W	2.1
322122	Newsprint Mills	W	W	0	0	0.9
322130	Paperboard Mills	W	W	W	0	7.6
323	Printing and Related Support	0	0	0	0	0

Table 11.3 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
324	Petroleum and Coal Products	W	W	0	0	4.7
324110	Petroleum Refineries	W	W	0	0	4.7
324199	Other Petroleum and Coal Products	0	0	0	0	0
325	Chemicals	W	W	0	*	7.7
325110	Petrochemicals	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	W	0	0	0.9
325192	Cyclic Crudes and Intermediates	0	0	0	0	0
325193	Ethyl Alcohol	521	521	0	0	4.7
325199	Other Basic Organic Chemicals	W	W	0	*	0.9
325211	Plastics Materials and Resins	W	W	0	*	3.1
325212	Synthetic Rubber	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0
3254	Pharmaceuticals and Medicines	W	W	0	*	2.3
325412	Pharmaceutical Preparation	W	W	0	W	0.9
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0
326	Plastics and Rubber Products	W	W	0	0	0
327	Nonmetallic Mineral Products	W	W	0	W	0.9
3272	Glass and Glass Products	W	0	0	W	0.8
327211	Flat Glass	W	0	0	W	0.8
327213	Glass Containers	0	0	0	0	0
327310	Cements	W	W	0	0	0.9
327410	Lime	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0
331	Primary Metals	W	2,799	0	W	1.2
331111	Iron and Steel Mills	W	2,797	0	W	0.9
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0
3313	Alumina and Aluminum	0	0	0	0	0
331312	Primary Aluminum	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	*	0	0	*	0.8

Table 11.3 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
3315	Foundries	W	Q	0	W	43.7
331511	Iron Foundries	W	*	0	W	0.9
331521	Aluminum Die-Casting Foundries	*	0	0	*	0.8
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0
332	Fabricated Metal Products	W	0	W	W	0
333	Machinery	W	73	0	W	10
334	Computer and Electronic Products	Q	*	0	Q	1
334413	Semiconductors and Related Devices	*	*	0	0	0.9
335	Electrical Equip., Appliances, and Components	*	0	0	*	31.4
336	Transportation Equipment	W	W	W	Q	6.9
336112	Light Trucks and Utility Vehicles	W	W	W	0	1.1
337	Furniture and Related Products	W	W	0	W	0.9
339	Miscellaneous	*	0	0	*	0
	Total	16,421	15,555	W	W	4
	South Census Region					
	RSE Column Factors:	1.1	0.8	1	1.1	
311	Food	W	W	0	W	3
311221	Wet Corn Milling	93	93	0	0	1
31131	Sugar	W	W	0	W	1
311421	Fruit and Vegetable Canning	W	W	0	0	1
312	Beverage and Tobacco Products	W	W	0	W	1
3121	Beverages	W	W	0	0	1
3122	Tobacco	W	W	0	W	1
313	Textile Mills	W	W	0	W	5.7
314	Textile Product Mills	Q	0	Q	*	0.9
315	Apparel	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0
321	Wood Products	W	W	0	0	25
321113	Sawmills	W	W	0	0	25
3212	Veneer, Plywood, and Engineered Woods	W	W	0	0	51.1
3219	Other Wood Products	W	W	0	0	45.9
322	Paper	W	28,469	W	W	1

Table 11.3 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
322110	Pulp Mills	W	W	0	0	1
322121	Paper Mills, except Newsprint	W	10,364	W	W	1
322122	Newsprint Mills	W	W	0	*	1
322130	Paperboard Mills	15,181	W	W	W	1
323	Printing and Related Support	0	0	0	0	0
324	Petroleum and Coal Products	W	8,763	0	W	1.6
324110	Petroleum Refineries	W	W	0	W	1.6
324199	Other Petroleum and Coal Products	W	W	0	0	1
325	Chemicals	W	44,312	0	W	1.2
325110	Petrochemicals	W	3,954	0	W	1
325120	Industrial Gases	W	W	0	W	1
325181	Alkalies and Chlorine	W	W	0	W	1
325182	Carbon Black	W	W	0	0	1
325188	Other Basic Inorganic Chemicals	W	W	0	W	37
325192	Cyclic Crudes and Intermediates	W	W	0	0	1
325193	Ethyl Alcohol	0	0	0	0	0
325199	Other Basic Organic Chemicals	W	W	0	11	2.4
325211	Plastics Materials and Resins	W	16,058	0	W	1
325212	Synthetic Rubber	W	W	0	0	1
325222	Noncellulosic Organic Fibers	W	W	0	0	1
325311	Nitrogenous Fertilizers	W	W	0	0	1
325312	Phosphatic Fertilizers	W	W	0	0	1
3254	Pharmaceuticals and Medicines	20	17	0	Q	3.1
325412	Pharmaceutical Preparation	W	W	0	W	6.3
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0
326	Plastics and Rubber Products	*	0	0	*	0.9
327	Nonmetallic Mineral Products	20	11	0	Q	32.6
3272	Glass and Glass Products	2	0	0	2	0.9
327211	Flat Glass	*	0	0	*	0.9
327213	Glass Containers	2	0	0	2	0.9
327310	Cements	0	0	0	0	0
327410	Lime	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0
331	Primary Metals	W	W	0	W	1
331111	Iron and Steel Mills	W	280	0	W	1

Table 11.3 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0
3313	Alumina and Aluminum	W	W	0	0	1
331312	Primary Aluminum	W	W	0	0	1
3314	Nonferrous Metals, except Aluminum	W	W	0	0	1
3315	Foundries	*	0	0	*	0.9
331511	Iron Foundries	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0
332	Fabricated Metal Products	Q	Q	0	Q	0
333	Machinery	W	0	0	W	0
334	Computer and Electronic Products	*	0	*	*	6.1
334413	Semiconductors and Related Devices	*	0	*	*	1.8
335	Electrical Equip., Appliances, and Components	1	0	0	1	27.2
336	Transportation Equipment	W	W	0	Q	6.3
336112	Light Trucks and Utility Vehicles	*	0	0	*	0.9
337	Furniture and Related Products	Q	Q	0	Q	0
339	Miscellaneous	*	0	0	*	0
	Total	90,316	84,725	W	W	1.2
	West Census Region					
	RSE Column Factors:	1.1	1	0.7	1.4	
311	Food	W	W	0	W	7.1
311221	Wet Corn Milling	W	W	0	0	43.8
31131	Sugar	W	W	0	0	1
311421	Fruit and Vegetable Canning	W	0	0	W	0.8
312	Beverage and Tobacco Products	W	W	*	*	7.5
3121	Beverages	W	W	*	*	7.5
3122	Tobacco	0	0	0	0	0
313	Textile Mills	0	0	0	0	0
314	Textile Product Mills	Q	0	Q	0	0
315	Apparel	*	0	0	*	0
316	Leather and Allied Products	0	0	0	0	0

Table 11.3 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
321	Wood Products	W	W	0	10	4.1
321113	Sawmills	788	782	0	6	1.4
3212	Veneer, Plywood, and Engineered Woods	W	W	0	0	1
3219	Other Wood Products	Q	0	0	Q	0
322	Paper	W	W	74	W	1
322110	Pulp Mills	W	W	0	W	0.9
322121	Paper Mills, except Newsprint	W	1,403	W	0	1.1
322122	Newsprint Mills	W	W	W	0	1.1
322130	Paperboard Mills	W	2,256	0	W	0.9
323	Printing and Related Support	W	W	0	0	1
324	Petroleum and Coal Products	W	6,035	0	W	0.9
324110	Petroleum Refineries	W	W	0	W	0.9
324199	Other Petroleum and Coal Products	W	W	0	66	0.9
325	Chemicals	W	W	0	W	1.8
325110	Petrochemicals	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	W	0	0	1
325192	Cyclic Crudes and Intermediates	W	0	0	W	0.8
325193	Ethyl Alcohol	0	0	0	0	0
325199	Other Basic Organic Chemicals	0	0	0	0	0
325211	Plastics Materials and Resins	W	0	0	W	0.8
325212	Synthetic Rubber	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0
325311	Nitrogenous Fertilizers	W	W	0	1	0.9
325312	Phosphatic Fertilizers	W	W	0	0	1
3254	Pharmaceuticals and Medicines	51	51	0	*	1
325412	Pharmaceutical Preparation	51	51	0	*	0.9
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	0	0	1
326	Plastics and Rubber Products	W	W	0	W	47.6
327	Nonmetallic Mineral Products	W	W	0	W	1
3272	Glass and Glass Products	W	0	0	W	0.8
327211	Flat Glass	W	0	0	W	0.8
327213	Glass Containers	0	0	0	0	0

Table 11.3 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
327310	Cements	W	W	0	W	0.9
327410	Lime	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0
331	Primary Metals	W	W	0	W	0.9
331111	Iron and Steel Mills	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0
3313	Alumina and Aluminum	W	W	0	0	1
331312	Primary Aluminum	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	W	W	0	0	1
3315	Foundries	W	4	0	W	0.9
331511	Iron Foundries	W	0	0	W	0.8
331521	Aluminum Die-Casting Foundries	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0
332	Fabricated Metal Products	W	0	0	W	35.1
333	Machinery	W	0	0	W	0.8
334	Computer and Electronic Products	50	45	*	5	11.4
334413	Semiconductors and Related Devices	27	24	*	3	1
335	Electrical Equip., Appliances, and Components	0	0	0	0	0
336	Transportation Equipment	W	W	0	0	14.3
336112	Light Trucks and Utility Vehicles	0	0	0	0	0
337	Furniture and Related Products	Q	Q	Q	0	0
339	Miscellaneous	*	0	*	0	0
	Total	13,428	12,955	77	396	2.6

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

(b) 'Cogeneration' is the production of electrical energy and another form of useful energy, such as heat or steam, through the sequential use of energy. Cogeneration includes electricity generated from fossil fuels, such as natural gas, fuel oils, and coal; wood; and other biomass.

(c) 'Renewable Energy' is energy obtained from essentially inexhaustible sources. Noncombustible sources include solar power, wind power, hydropower, and geothermal power.

Table 11.3 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: NAICS Codes; Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors

(d) 'Other' is that electricity obtained from a generator fueled by combustible energy sources, such as diesel fuels and other fuel oils.
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.'

Table 11.4 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

Economic Characteristic(a)	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
Total United States					
RSE Column Factors:	0.8	0.8	1.1	1.4	
Value of Shipments and Receipts (million dollars)					
Under 20	609	379	W	W	25.2
20-49	4,155	4,071	27	58	13.3
50-99	6,356	6,296	*	61	6.5
100-249	19,027	16,033	1,185	1,809	2.2
250-499	36,752	32,991	W	W	2.2
500 and Over	69,334	66,458	W	W	1.2
Total	136,233	126,228	2,381	7,625	2
Employment Size					
Under 50	3,927	3,713	74	140	10.7
50-99	1,157	1,122	Q	13	11.4
100-249	8,666	8,598	5	63	12.8
250-499	25,065	23,789	594	682	3.3
500-999	38,634	32,800	1,218	4,616	2.1
1000 and Over	58,784	56,206	468	2,110	1.2
Total	136,233	126,228	2,381	7,625	2
Northeast Census Region					
RSE Column Factors:	1.1	1.2	0.9	0.8	
Value of Shipments and Receipts (million dollars)					
Under 20	285	Q	W	W	34.8
20-49	W	297	8	W	4.4
50-99	W	451	0	W	17.5
100-249	3,112	1,504	827	781	1.2
250-499	W	4,432	W	W	1.4
500 and Over	5,349	4,179	W	W	1
Total	14,103	11,026	W	W	2.2
Employment Size					
Under 50	270	Q	Q	41	42.3
50-99	43	31	4	Q	7.1
100-249	584	567	Q	13	6.1
250-499	1,962	1,440	363	159	2.1
500-999	3,965	2,772	W	W	1
1000 and Over	7,278	6,048	W	W	1
Total	14,103	11,026	1,249	1,827	2.2
Midwest Census Region					
RSE Column Factors:	1.1	1.1	0.6	1.4	
Value of Shipments and Receipts (million dollars)					

Table 11.4 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

Economic Characteristic(a)	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
Under 20	W	W	Q	Q	22.1
20-49	W	598	Q	W	26.3
50-99	W	858	0	W	8.1
100-249	3,645	3,369	271	Q	5.9
250-499	W	W	W	W	3.6
500 and Over	8,337	8,118	W	W	2.2
Total	16,421	15,555	471	395	4
Employment Size					
Under 50	Q	Q	Q	Q	0
50-99	117	99	Q	*	9.1
100-249	2,371	2,368	Q	Q	12.9
250-499	4,797	4,607	W	W	5.4
500-999	2,564	2,154	W	W	1.7
1000 and Over	6,439	6,211	W	W	2.2
Total	16,421	15,555	W	W	4
South Census Region					
RSE Column Factors:	0.9	1	0.7	1.6	
Value of Shipments and Receipts (million dollars)					
Under 20	W	W	0	Q	40.6
20-49	W	W	0	W	6.1
50-99	W	2,921	*	W	6.3
100-249	9,538	8,613	W	W	6.1
250-499	27,580	24,315	W	W	2.5
500 and Over	49,464	48,131	0	1,333	0.9
Total	92,293	86,702	W	W	1.7
Employment Size					
Under 50	W	W	0	Q	1.1
50-99	W	W	0	*	14.9
100-249	4,187	4,148	0	39	8.6
250-499	14,848	14,462	W	W	2.2
500-999	28,337	24,273	W	W	2.5
1000 and Over	41,923	40,846	0	1,077	0.9
Total	92,293	86,702	W	W	1.7
West Census Region					
RSE Column Factors:	1	1.1	0.5	2	
Value of Shipments and Receipts (million dollars)					
Under 20	W	W	*	73	1.9
20-49	W	W	Q	W	4.9
50-99	W	2,066	0	W	2.4
100-249	2,732	2,546	W	W	4.2
250-499	W	W	W	W	2.3
500 and Over	6,184	6,030	*	153	1

Table 11.4 Electricity: Components of Onsite Generation, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Onsite-Generation Components;
Unit: Million Kilowatthours.

Economic Characteristic(a)	Total Onsite Generation	Cogeneration(b)	Renewable Energy (excluding Wood and Other Biomass)(c)	Other(d)	RSE Row Factors
Total	13,416	12,945	W	W	2
Employment Size					
Under 50	W	W	*	68	1
50-99	W	W	Q	5	0.8
100-249	1,523	1,515	0	9	3.8
250-499	3,459	3,279	W	W	2
500-999	3,768	3,601	*	166	3
1000 and Over	3,144	3,101	0	43	0.8
Total	13,416	12,945	W	W	2

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

(b) 'Cogeneration' is the production of electrical energy and another form of useful energy, such as heat or steam, through the sequential use of energy. Cogeneration includes electricity generated from fossil fuels, such as natural gas, fuel oils, and coal; wood; and other biomass.

(c) 'Renewable Energy' is energy obtained from essentially inexhaustible sources. Noncombustible sources include solar power, wind power, hydropower, and geothermal power.

(d) 'Other' is that electricity obtained from a generator fueled by combustible energy sources, such as diesel fuels and other fuel oils.

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.'

Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
	Total United States				
	RSE Column Factors:	1	0.9	1	
311	Food	708	380	328	31
311221	Wet Corn Milling	248	W	W	20.1
31131	Sugar	8	8	0	1
311421	Fruit and Vegetable Canning	28	W	W	1
312	Beverage and Tobacco Products	W	W	W	1
3121	Beverages	W	W	W	1
3122	Tobacco	W	W	0	1
313	Textile Mills	W	W	W	1.8
314	Textile Product Mills	0	0	0	0
315	Apparel	0	0	0	0
316	Leather and Allied Products	0	0	0	0
321	Wood Products	W	631	W	1.6
321113	Sawmills	W	481	W	2.1
3212	Veneer, Plywood, and Engineered Woods	W	W	0	1
3219	Other Wood Products	2	2	0	1
322	Paper	8,630	5,901	2,730	1
322110	Pulp Mills	W	W	445	1
322121	Paper Mills, except Newsprint	4,288	2,318	1,971	1.3
322122	Newsprint Mills	W	W	0	1
322130	Paperboard Mills	3,291	2,977	314	1
323	Printing and Related Support	W	W	0	1
324	Petroleum and Coal Products	4,123	2,744	1,379	1
324110	Petroleum Refineries	3,148	2,574	574	1
324199	Other Petroleum and Coal Products	970	166	803	1
325	Chemicals	8,280	2,956	5,324	1
325110	Petrochemicals	88	W	W	1
325120	Industrial Gases	W	W	W	1
325181	Alkalies and Chlorine	W	W	W	1
325182	Carbon Black	*	*	0	1
325188	Other Basic Inorganic Chemicals	275	31	243	6.3
325192	Cyclic Crudes and Intermediates	0	0	0	0

Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
325193	Ethyl Alcohol	32	0	32	1
325199	Other Basic Organic Chemicals	2,219	807	1,412	1
325211	Plastics Materials and Resins	W	388	W	1
325212	Synthetic Rubber	W	W	0	1
325222	Noncellulosic Organic Fibers	W	W	0	1
325311	Nitrogenous Fertilizers	W	W	W	1
325312	Phosphatic Fertilizers	982	509	473	1
3254	Pharmaceuticals and Medicines	W	W	W	1
325412	Pharmaceutical Preparation	W	W	W	1
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0
326	Plastics and Rubber Products	W	W	W	1
327	Nonmetallic Mineral Products	W	16	W	1
3272	Glass and Glass Products	0	0	0	0
327211	Flat Glass	0	0	0	0
327213	Glass Containers	0	0	0	0
327310	Cements	W	16	W	1
327410	Lime	0	0	0	0
327993	Mineral Wool	0	0	0	0
331	Primary Metals	W	W	673	1.4
331111	Iron and Steel Mills	W	14	W	2.7
331112	Electrometallurgical Ferroalloy Products	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0
3313	Alumina and Aluminum	W	W	W	1
331312	Primary Aluminum	W	W	W	1
3314	Nonferrous Metals, except Aluminum	W	5	W	1
3315	Foundries	3	3	0	1
331511	Iron Foundries	3	3	0	1
331521	Aluminum Die-Casting Foundries	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0
332	Fabricated Metal Products	*	*	0	0
333	Machinery	46	W	W	1
334	Computer and Electronic Products	75	1	74	3.7
334413	Semiconductors and Related Devices	24	1	23	1
335	Electrical Equip., Appliances, and Components	0	0	0	0
336	Transportation Equipment	181	76	105	1

Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
336112	Light Trucks and Utility Vehicles	W	W	0	1
337	Furniture and Related Products	W	W	0	1
339	Miscellaneous	0	0	0	0
	Total	25,286	14,486	10,800	1.3
	Northeast Census Region				
	RSE Column Factors:	1	1.1	0.9	
311	Food	W	W	W	32.5
311221	Wet Corn Milling	0	0	0	0
31131	Sugar	0	0	0	0
311421	Fruit and Vegetable Canning	W	W	0	0.9
312	Beverage and Tobacco Products	0	0	0	0
3121	Beverages	0	0	0	0
3122	Tobacco	0	0	0	0
313	Textile Mills	W	0	W	0
314	Textile Product Mills	0	0	0	0
315	Apparel	0	0	0	0
316	Leather and Allied Products	0	0	0	0
321	Wood Products	W	W	0	0.9
321113	Sawmills	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	0	0	0	0
3219	Other Wood Products	0	0	0	0
322	Paper	2,668	1,029	1,639	2
322110	Pulp Mills	0	0	0	0
322121	Paper Mills, except Newsprint	2,661	1,022	1,639	2
322122	Newsprint Mills	1	1	0	0.9
322130	Paperboard Mills	6	6	0	0.9
323	Printing and Related Support	0	0	0	0
324	Petroleum and Coal Products	W	W	W	1
324110	Petroleum Refineries	W	W	W	1
324199	Other Petroleum and Coal Products	0	0	0	0
325	Chemicals	W	W	W	1
325110	Petrochemicals	0	0	0	0

Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
325120	Industrial Gases	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0
325182	Carbon Black	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	W	W	1
325192	Cyclic Crudes and Intermediates	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0
325199	Other Basic Organic Chemicals	W	0	W	1.1
325211	Plastics Materials and Resins	W	0	W	1.1
325212	Synthetic Rubber	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0
3254	Pharmaceuticals and Medicines	W	W	0	0.9
325412	Pharmaceutical Preparation	W	W	0	0.9
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0
326	Plastics and Rubber Products	W	0	W	1.1
327	Nonmetallic Mineral Products	W	0	W	1.1
3272	Glass and Glass Products	0	0	0	0
327211	Flat Glass	0	0	0	0
327213	Glass Containers	0	0	0	0
327310	Cements	W	0	W	1.1
327410	Lime	0	0	0	0
327993	Mineral Wool	0	0	0	0
331	Primary Metals	W	5	W	1
331111	Iron and Steel Mills	*	0	*	1.1
331112	Electrometallurgical Ferroalloy Products	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0
3313	Alumina and Aluminum	0	0	0	0
331312	Primary Aluminum	0	0	0	0
3314	Nonferrous Metals, except Aluminum	W	5	W	1
3315	Foundries	0	0	0	0
331511	Iron Foundries	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0
332	Fabricated Metal Products	0	0	0	0

Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
333	Machinery	0	0	0	0
334	Computer and Electronic Products	17	0	17	28.9
334413	Semiconductors and Related Devices	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0
336	Transportation Equipment	W	W	0	0.9
336112	Light Trucks and Utility Vehicles	0	0	0	0
337	Furniture and Related Products	0	0	0	0
339	Miscellaneous	0	0	0	0
	Total	3,641	1,673	1,968	2.3
	Midwest Census Region				
	RSE Column Factors:	1.1	0.8	1.2	
311	Food	W	W	W	5.9
311221	Wet Corn Milling	W	W	W	1
31131	Sugar	W	W	0	1.1
311421	Fruit and Vegetable Canning	0	0	0	0
312	Beverage and Tobacco Products	W	W	0	1.1
3121	Beverages	W	W	0	1.1
3122	Tobacco	0	0	0	0
313	Textile Mills	W	0	W	0.9
314	Textile Product Mills	0	0	0	0
315	Apparel	0	0	0	0
316	Leather and Allied Products	0	0	0	0
321	Wood Products	W	W	0	1.1
321113	Sawmills	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	W	W	0	1.1
3219	Other Wood Products	0	0	0	0
322	Paper	W	W	11	1
322110	Pulp Mills	W	W	0	1.1
322121	Paper Mills, except Newsprint	W	W	11	1
322122	Newsprint Mills	0	0	0	0
322130	Paperboard Mills	0	0	0	0
323	Printing and Related Support	0	0	0	0

Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
324	Petroleum and Coal Products	W	W	W	3.3
324110	Petroleum Refineries	W	W	W	3.3
324199	Other Petroleum and Coal Products	0	0	0	0
325	Chemicals	W	W	W	5.1
325110	Petrochemicals	0	0	0	0
325120	Industrial Gases	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0
325182	Carbon Black	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	0	W	0.9
325192	Cyclic Crudes and Intermediates	0	0	0	0
325193	Ethyl Alcohol	32	0	32	0.9
325199	Other Basic Organic Chemicals	W	W	W	1
325211	Plastics Materials and Resins	W	0	W	26.1
325212	Synthetic Rubber	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0
325311	Nitrogenous Fertilizers	*	0	*	0.9
325312	Phosphatic Fertilizers	0	0	0	0
3254	Pharmaceuticals and Medicines	W	0	W	0.9
325412	Pharmaceutical Preparation	W	0	W	0.9
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0
326	Plastics and Rubber Products	W	W	0	1.1
327	Nonmetallic Mineral Products	W	W	0	1.1
3272	Glass and Glass Products	0	0	0	0
327211	Flat Glass	0	0	0	0
327213	Glass Containers	0	0	0	0
327310	Cements	W	W	0	1.1
327410	Lime	0	0	0	0
327993	Mineral Wool	0	0	0	0
331	Primary Metals	W	14	W	3.1
331111	Iron and Steel Mills	W	14	W	4.3
331112	Electrometallurgical Ferroalloy Products	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0
3313	Alumina and Aluminum	W	0	W	0.9
331312	Primary Aluminum	W	0	W	0.9
3314	Nonferrous Metals, except Aluminum	0	0	0	0

Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
3315	Foundries	0	0	0	0
331511	Iron Foundries	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0
332	Fabricated Metal Products	0	0	0	0
333	Machinery	W	0	W	0.9
334	Computer and Electronic Products	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0
336	Transportation Equipment	W	W	W	1
336112	Light Trucks and Utility Vehicles	W	W	0	1.1
337	Furniture and Related Products	W	W	0	1.1
339	Miscellaneous	0	0	0	0
	Total	1,782	981	801	2.5
	South Census Region				
	RSE Column Factors:	1.1	1	1	
311	Food	W	W	W	17.2
311221	Wet Corn Milling	0	0	0	0
31131	Sugar	6	6	0	1
311421	Fruit and Vegetable Canning	W	W	0	1
312	Beverage and Tobacco Products	W	W	0	1
3121	Beverages	0	0	0	0
3122	Tobacco	W	W	0	1
313	Textile Mills	W	W	0	1
314	Textile Product Mills	0	0	0	0
315	Apparel	0	0	0	0
316	Leather and Allied Products	0	0	0	0
321	Wood Products	W	W	W	3.8
321113	Sawmills	W	W	W	3.8
3212	Veneer, Plywood, and Engineered Woods	W	W	0	36.1
3219	Other Wood Products	2	2	0	1
322	Paper	W	W	581	1

Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
322110	Pulp Mills	W	W	445	1
322121	Paper Mills, except Newsprint	W	W	W	1
322122	Newsprint Mills	W	W	0	1
322130	Paperboard Mills	W	W	W	1
323	Printing and Related Support	0	0	0	0
324	Petroleum and Coal Products	W	W	W	1
324110	Petroleum Refineries	W	W	W	1
324199	Other Petroleum and Coal Products	W	166	W	1
325	Chemicals	W	W	5,065	1
325110	Petrochemicals	88	W	W	1
325120	Industrial Gases	W	W	W	1
325181	Alkalies and Chlorine	W	W	W	1
325182	Carbon Black	W	W	0	1
325188	Other Basic Inorganic Chemicals	W	W	W	7.6
325192	Cyclic Crudes and Intermediates	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0
325199	Other Basic Organic Chemicals	W	W	W	1
325211	Plastics Materials and Resins	W	388	W	1
325212	Synthetic Rubber	W	W	0	1
325222	Noncellulosic Organic Fibers	W	W	0	1
325311	Nitrogenous Fertilizers	W	W	W	1
325312	Phosphatic Fertilizers	W	W	473	1
3254	Pharmaceuticals and Medicines	0	0	0	0
325412	Pharmaceutical Preparation	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0
326	Plastics and Rubber Products	0	0	0	0
327	Nonmetallic Mineral Products	0	0	0	0
3272	Glass and Glass Products	0	0	0	0
327211	Flat Glass	0	0	0	0
327213	Glass Containers	0	0	0	0
327310	Cements	0	0	0	0
327410	Lime	0	0	0	0
327993	Mineral Wool	0	0	0	0
331	Primary Metals	W	W	W	1
331111	Iron and Steel Mills	W	0	W	1

Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
331112	Electrometallurgical Ferroalloy Products	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0
3313	Alumina and Aluminum	W	W	0	1
331312	Primary Aluminum	W	W	0	1
3314	Nonferrous Metals, except Aluminum	0	0	0	0
3315	Foundries	0	0	0	0
331511	Iron Foundries	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0
332	Fabricated Metal Products	*	*	0	0
333	Machinery	0	0	0	0
334	Computer and Electronic Products	23	0	23	1
334413	Semiconductors and Related Devices	23	0	23	1
335	Electrical Equip., Appliances, and Components	0	0	0	0
336	Transportation Equipment	W	0	W	1
336112	Light Trucks and Utility Vehicles	0	0	0	0
337	Furniture and Related Products	0	0	0	0
339	Miscellaneous	0	0	0	0
	Total	14,652	8,048	6,605	1.3
	West Census Region				
	RSE Column Factors:	1	1.1	0.9	
311	Food	W	W	W	31.1
311221	Wet Corn Milling	W	W	W	0
31131	Sugar	W	W	0	1
311421	Fruit and Vegetable Canning	W	0	W	1
312	Beverage and Tobacco Products	W	0	W	1
3121	Beverages	W	0	W	1
3122	Tobacco	0	0	0	0
313	Textile Mills	0	0	0	0
314	Textile Product Mills	0	0	0	0
315	Apparel	0	0	0	0
316	Leather and Allied Products	0	0	0	0

Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
321	Wood Products	W	W	0	2.9
321113	Sawmills	W	W	0	2.9
3212	Veneer, Plywood, and Engineered Woods	W	W	0	1
3219	Other Wood Products	0	0	0	0
322	Paper	W	W	499	1
322110	Pulp Mills	W	W	0	1
322121	Paper Mills, except Newsprint	W	719	W	1
322122	Newsprint Mills	0	0	0	0
322130	Paperboard Mills	W	W	W	1
323	Printing and Related Support	W	W	0	1
324	Petroleum and Coal Products	W	W	W	1
324110	Petroleum Refineries	W	W	W	1
324199	Other Petroleum and Coal Products	W	0	W	1
325	Chemicals	W	W	W	1
325110	Petrochemicals	0	0	0	0
325120	Industrial Gases	*	0	*	1
325181	Alkalies and Chlorine	0	0	0	0
325182	Carbon Black	0	0	0	0
325188	Other Basic Inorganic Chemicals	0	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0
325199	Other Basic Organic Chemicals	0	0	0	0
325211	Plastics Materials and Resins	W	0	W	1
325212	Synthetic Rubber	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0
325312	Phosphatic Fertilizers	W	W	0	1
3254	Pharmaceuticals and Medicines	0	0	0	0
325412	Pharmaceutical Preparation	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0
326	Plastics and Rubber Products	0	0	0	0
327	Nonmetallic Mineral Products	W	W	0	1
3272	Glass and Glass Products	0	0	0	0
327211	Flat Glass	0	0	0	0
327213	Glass Containers	0	0	0	0

Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
327310	Cements	W	W	0	1
327410	Lime	0	0	0	0
327993	Mineral Wool	0	0	0	0
331	Primary Metals	7	3	4	1
331111	Iron and Steel Mills	4	0	4	1
331112	Electrometallurgical Ferroalloy Products	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0
3313	Alumina and Aluminum	0	0	0	0
331312	Primary Aluminum	0	0	0	0
3314	Nonferrous Metals, except Aluminum	0	0	0	0
3315	Foundries	3	3	0	1
331511	Iron Foundries	3	3	0	1
331521	Aluminum Die-Casting Foundries	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0
332	Fabricated Metal Products	0	0	0	0
333	Machinery	W	W	0	1
334	Computer and Electronic Products	34	1	33	1
334413	Semiconductors and Related Devices	1	1	0	1
335	Electrical Equip., Appliances, and Components	0	0	0	0
336	Transportation Equipment	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0
337	Furniture and Related Products	0	0	0	0
339	Miscellaneous	0	0	0	0
	Total	5,211	3,785	1,426	2.3

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

(b) A 'Utility' is a company in the local area that produces and/or delivers electricity and is legally obligated to provide service to the general public within its franchise area.

(c) 'Nonutility' includes consumers, such as other manufacturers, households, and commercial entities; generators of electricity, such as independent power producers, small power producers, and cogenerators not located at the establishment site; and suppliers, such as brokers, marketers, and marketing subsidiaries of utilities.

NF=No applicable RSE row/column factor.

Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: NAICS Codes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors

* 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.'

Table 11.6 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

Economic Characteristic(a)	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
Total United States				
RSE Column Factors:	0.9	1.3	0.9	
Value of Shipments and Receipts (million dollars)				
Under 20	251	99	152	11.3
20-49	2,975	372	2,602	1.6
50-99	1,907	807	1,100	5.4
100-249	4,240	2,669	1,571	5.4
250-499	5,578	3,387	2,191	1
500 and Over	10,336	7,152	3,184	1.3
Total	25,286	14,486	10,800	1.3
Employment Size				
Under 50	3,415	294	3,121	2.2
50-99	256	152	104	5.5
100-249	1,770	862	908	3.1
250-499	5,940	4,245	1,695	3.5
500-999	5,466	3,615	1,850	1.8
1000 and Over	8,440	5,318	3,122	1
Total	25,286	14,486	10,800	1.3
Northeast Census Region				
RSE Column Factors:	1.1	1	0.9	
Value of Shipments and Receipts (million dollars)				
Under 20	108	72	36	23.6
20-49	W	78	W	3
50-99	W	33	W	1
100-249	W	375	W	1
250-499	W	794	W	2
500 and Over	524	320	204	3.5
Total	3,641	1,673	1,968	2.3
Employment Size				
Under 50	W	W	0	25.3
50-99	W	W	W	7.2
100-249	9	9	0	1
250-499	842	527	316	3.6
500-999	W	293	W	1
1000 and Over	2,089	701	1,388	1.3
Total	3,641	1,673	1,968	2.3
Midwest Census Region				
RSE Column Factors:	1	0.8	1.2	

Table 11.6 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

Economic Characteristic(a)	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
Value of Shipments and Receipts (million dollars)				
Under 20	0	0	0	0
20-49	W	10	W	7.7
50-99	W	W	17	1
100-249	W	W	W	2.1
250-499	639	357	282	1
500 and Over	555	106	448	3.1
Total	1,782	981	801	2.5
Employment Size				
Under 50	1	0	1	0.9
50-99	*	0	*	27.1
100-249	186	W	W	8.2
250-499	680	W	W	3.5
500-999	311	268	43	1
1000 and Over	604	W	W	1
Total	1,782	981	801	2.5
South Census Region				
RSE Column Factors:	1.1	0.8	1.2	
Value of Shipments and Receipts (million dollars)				
Under 20	109	W	W	1.8
20-49	W	47	W	1.9
50-99	W	W	W	4.9
100-249	W	W	W	3.8
250-499	W	W	W	1
500 and Over	7,084	4,719	2,365	1
Total	14,652	8,048	6,605	1.3
Employment Size				
Under 50	W	W	W	1.4
50-99	W	W	W	1
100-249	W	W	W	3.9
250-499	2,670	W	W	3.8
500-999	W	1,757	W	1
1000 and Over	5,157	4,267	891	1
Total	14,652	8,048	6,605	1.3
West Census Region				
RSE Column Factors:	1.2	1.3	0.6	
Value of Shipments and Receipts (million dollars)				
Under 20	34	W	W	4.1
20-49	W	238	W	2.5

Table 11.6 Electricity: Sales to Utility and Nonutility Purchasers, 2002;
Level: National and Regional Data;
Row: Values of Shipments and Employment Sizes;
Column: Utility and Nonutility Purchasers;
Unit: Million Kilowatthours.

Economic Characteristic(a)	Total of Sales and Transfers Offsite	Utility Purchaser(b)	Nonutility Purchaser(c)	RSE Row Factors
50-99	W	W	W	4.3
100-249	684	599	85	6.6
250-499	W	W	W	1
500 and Over	2,174	2,006	167	1
Total	5,211	3,785	1,426	2.3
Employment Size				
Under 50	W	0	W	1.1
50-99	W	W	W	1
100-249	W	W	W	1.8
250-499	1,748	1,659	88	4.8
500-999	W	1,298	W	4.2
1000 and Over	589	W	W	1
Total	5,211	3,785	1,426	2.3

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

(b) A 'Utility' is a company in the local area that produces and/or delivers electricity and is legally obligated to provide service to the general public within its franchise area.

(c) 'Nonutility' includes consumers, such as other manufacturers, households, and commercial entities; generators of electricity, such as independent power producers, small power producers, and cogenerators not located at the establishment site; and suppliers, such as brokers, marketers, and marketing subsidiaries of utilities.

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.'