

**Table 1.1 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006:**  
**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(a) (trillion Btu)	Shipments of Energy Sources Produced Onsite(g) (trillion Btu)
Total United States											
311	Food	1,186	73,440	4	3	620	1	7	*	105	*
3112	Grain and Oilseed Milling	318	15,464	*	*	117	*	5	0	29	*
311221	Wet Corn Milling	179	6,746	*	*	51	*	4	0	9	0
31131	Sugar Manufacturing	82	968	1	*	17	*	1	*	20	0
3114	Fruit and Vegetable Preserving and Specialty Food	169	9,708	*	*	123	*	*	0	4	0
3115	Dairy Product	121	10,079	*	*	80	*	*	0	1	0
3116	Animal Slaughtering and Processing	226	17,545	1	1	141	*	0	0	12	0
312	Beverage and Tobacco Products	107	8,858	*	*	40	*	1	0	11	0
3121	Beverages	95	7,607	*	*	37	*	1	0	11	0
3122	Tobacco	12	1,250	*	*	3	*	*	0	*	0
313	Textile Mills	178	19,224	*	*	63	*	1	0	12	0
314	Textile Product Mills	72	5,920	*	*	45	*	*	0	*	0
315	Apparel	14	2,013	*	*	7	*	0	0	*	0
316	Leather and Allied Products	3	413	*	*	1	*	0	0	*	0
321	Wood Products	451	26,723	1	4	84	1	Q	*	228	0
321113	Sawmills	139	6,724	*	2	12	*	0	0	94	0
3212	Veneer, Plywood, and Engineered Woods	169	9,902	*	*	44	1	*	0	84	0
3219	Other Wood Products	131	9,734	*	Q	27	*	Q	*	Q	0
322	Paper	2,354 <sup>h</sup>	72,518 <sup>h</sup>	15	2	461	1	10	0	1,302	0
322110	Pulp Mills	200	1,621	2	1	13	*	*	0	160	0
322121	Paper Mills, except Newsprint	939	22,872	8	*	169	*	6	0	515	0
322122	Newsprint Mills	72	9,486	*	*	8	*	1	0	15	0
322130	Paperboard Mills	827 <sup>h</sup>	21,868 <sup>h</sup>	5	1	138	*	3	0	502	0
323	Printing and Related Support	85	13,079	*	*	38	*	0	0	*	0
324	Petroleum and Coal Products	6,864 <sup>h</sup>	40,134 <sup>h</sup>	9	6	825	7 <sup>h</sup>	5	*	5,744 <sup>h</sup>	89
324110	Petroleum Refineries	6,629 <sup>h</sup>	37,155 <sup>h</sup>	8	1	766 <sup>h</sup>	7 <sup>h</sup>	*	0	5,625 <sup>h</sup>	0
324199	Other Petroleum and Coal Products	138	117	0	*	3	*	5	*	117	85
325	Chemicals	5,149 <sup>h</sup>	151,595 <sup>h</sup>	14	1	1,697 <sup>h</sup>	646 <sup>h</sup>	8	*	707 <sup>h</sup>	406 <sup>h</sup>
325110	Petrochemicals	1,006 <sup>h</sup>	4,740 <sup>h</sup>	1	*	107	W	0	0	W	237 <sup>h</sup>
325120	Industrial Gases	136	20,838 <sup>h</sup>	0	*	61	*	0	0	3	*
325181	Alkalies and Chlorine	153	6,086	0	*	104	*	1	0	9	0
325182	Carbon Black	85 <sup>h</sup>	594	10	*	16	*	0	0	*	0
325188	Other Basic Inorganic Chemicals	214	24,132	1	*	62	2	1	*	23	*
325192	Cyclic Crudes and Intermediates	37	2,566	0	*	15	*	*	0	13	*
325193	Ethyl Alcohol	114	2,717	0	*	81	*	1	0	1	0
325199	Other Basic Organic Chemicals	1,017	21,433	*	*	370	W	3	0	W	48
325211	Plastics Materials and Resins	1,547	19,180	*	*	334	331	*	*	43	104
325212	Synthetic Rubber	44	1,661	*	*	26	*	*	0	6	0
325222	Noncellulosic Organic Fibers	88	4,841	*	*	40	*	*	0	20	1
325311	Nitrogenous Fertilizers	302	2,430	0	*	285	*	0	0	1	0
325312	Phosphatic Fertilizers	27	1,489	*	*	18	*	0	0	*	0
3254	Pharmaceuticals and Medicines	92	9,207 <sup>h</sup>	*	*	45	*	*	0	6	0
325412	Pharmaceutical Preparation	64	6,332 <sup>h</sup>	*	*	30	*	*	0	4	0
325992	Photographic Film, Paper, Plate, and Chemicals	28	1,044	*	*	7	*	1	0	Q	0
326	Plastics and Rubber Products	337 <sup>h</sup>	53,404	1	1	125 <sup>h</sup>	1	*	0	*	0
327	Nonmetallic Mineral Products	1,114 <sup>h</sup>	42,976 <sup>h</sup>	1	5	447 <sup>h</sup>	1	14	*	138	0
327211	Flat Glass	69	1,903	*	*	50	*	*	0	9	0
327212	Other Pressed and Blown Glass and Glassware	94	5,121	0	*	Q	*	0	0	13	0
327213	Glass Containers	64	3,944	0	*	49	*	0	0	*	0
327215	Glass Products from Purchased Glass	65 <sup>h</sup>	3,670 <sup>h</sup>	0	*	50 <sup>h</sup>	*	*	0	*	0
327310	Cements	382	11,992	*	1	19	*	11	*	77	0
327410	Lime	116	1,431	*	*	5	*	4	*	22	0
327420	Gypsum	86	1,845	*	*	74	*	0	0	2	0
327993	Mineral Wool	51	4,032	0	*	34	*	0	*	*	0
331	Primary Metals	1,736 <sup>h</sup>	134,325 <sup>h</sup>	3	1	609 <sup>h</sup>	1	17	10	139 <sup>h</sup>	145
331111	Iron and Steel Mills	1,040 <sup>h</sup>	51,198	3	1	349 <sup>h</sup>	*	16	9	39	145
331112	Electrometallurgical Ferroalloy Products	22	3,111	0	*	1	*	*	*	3	0
3312	Steel Products from Purchased Steel	56	4,396	0	*	26	*	*	*	14	0
3313	Alumina and Aluminum	307	44,515 <sup>h</sup>	*	*	121	*	*	0	28 <sup>h</sup>	0
331314	Secondary Smelting and Alloying of Aluminum	21	611	*	*	17	*	*	0	*	0
331315	Aluminum Sheet, Plate and Foils	52	3,871	0	*	36	*	0	0	2	0
331316	Aluminum Extruded Products	25	1,994	*	*	17	*	0	0	*	0
3314	Nonferrous Metals, except Aluminum	147 <sup>h</sup>	14,323	*	*	42	*	*	*	Q	0
3315	Foundries	164	16,781	*	*	71	*	*	1	15	*
331511	Iron Foundries	84	8,563	*	*	23	*	0	1	15	*
331521	Aluminum Die-Casting Foundries	22	1,937	0	*	15	*	0	0	*	0
331524	Aluminum Foundries, except Die-Casting	18	1,134	*	*	13	*	0	0	*	0

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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)
332	Fabricated Metal Products	396	41,965	*	*	234	1	0	*	Q	0
333	Machinery	204	32,394	*	*	82	1	0	0	2	0
334	Computer and Electronic Products	142	27,509	*	*	44	*	0	0	2	0
334413	Semiconductors and Related Devices	64	12,747	*	*	18	*	0	0	2	0
335	Electrical Equip., Appliances, and Components	103	12,867	0	*	40	*	*	0	21	5
336	Transportation Equipment	477	57,169 <sup>r</sup>	1	*	242	1	*	*	13	0
336111	Automobiles	39	3,885	*	*	21	*	*	0	2	0
336112	Light Trucks and Utility Vehicles	43	4,516	*	*	24	*	*	0	2	0
3364	Aerospace Product and Parts	78	11,430	*	*	30	*	*	0	4	0
336411	Aircraft	20	3,400	*	*	8	*	0	0	*	0
337	Furniture and Related Products	61	9,264	*	*	16	*	*	0	8	0
339	Miscellaneous	66	9,677	*	*	24	*	0	0	Q	0
	Total	21,098 <sup>r</sup>	835,467 <sup>r</sup>	50	25	5,744 <sup>r</sup>	664 <sup>r</sup>	64	11	8,443 <sup>r</sup>	645 <sup>r</sup>

**Northeast Census Region**

311	Food	59	5,441	1	*	32	*	0	0	Q	0
3112	Grain and Oilseed Milling	4	506	*	*	2	*	0	0	*	0
311221	Wet Corn Milling	*	11	*	*	0	0	0	0	*	0
31131	Sugar Manufacturing	3	6	0	*	3	*	0	0	*	0
3114	Fruit and Vegetable Preserving and Specialty Food	7	690	*	*	3	*	0	0	Q	0
3115	Dairy Product	13	1,223	*	*	7	*	0	0	*	0
3116	Animal Slaughtering and Processing	4	586	0	*	2	*	0	0	*	0
312	Beverage and Tobacco Products	12	1,112	*	*	6	*	0	0	*	0
3121	Beverages	11	1,090	*	*	6	*	0	0	*	0
3122	Tobacco	1	23	*	*	*	*	0	0	0	0
313	Textile Mills	14	1,378	*	*	7	*	0	0	0	0
314	Textile Product Mills	4	485	0	*	1	*	*	0	0	0
315	Apparel	1	132	0	*	*	*	0	0	0	0
316	Leather and Allied Products	1	175	*	*	*	*	0	0	0	0
321	Wood Products	25	1,804	*	*	6	*	0	0	11	0
321113	Sawmills	9	522	*	*	Q	*	0	0	5	0
3212	Veneer, Plywood, and Engineered Woods	8	564	0	*	3	*	0	0	2	0
3219	Other Wood Products	8	704	0	*	2	*	0	0	4	0
322	Paper	213 <sup>r</sup>	6,358 <sup>r</sup>	4	*	63	*	1	0	82	0
322110	Pulp Mills	11	114	*	*	*	*	0	0	9	0
322121	Paper Mills, except Newsprint	147	2,099	3	*	39	*	1	0	65	0
322122	Newsprint Mills	4	526	*	*	0	*	0	0	0	0
322130	Paperboard Mills	21 <sup>r</sup>	1,161 <sup>r</sup>	*	*	10	*	0	0	4	0
323	Printing and Related Support	13	1,947	*	*	5	*	0	0	*	0
324	Petroleum and Coal Products	528	3,868 <sup>r</sup>	2	1	45	2 <sup>r</sup>	*	*	436	0
324110	Petroleum Refineries	498	2,987 <sup>r</sup>	1	*	37	1 <sup>r</sup>	*	0	435	0
324199	Other Petroleum and Coal Products	8	282	0	*	*	*	*	*	*	0
325	Chemicals	150	11,110 <sup>r</sup>	2	*	64	2	1	0	10	Q
325110	Petrochemicals	*	19	0	*	*	*	0	0	*	0
325120	Industrial Gases	11	2,048	0	0	2	*	0	0	2	0
325181	Alkalies and Chlorine	7	1,664	0	*	1	*	0	0	*	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	11	866	1	*	2	*	0	0	*	0
325192	Cyclic Crudes and Intermediates	6	178	0	*	4	*	0	0	1	0
325193	Ethyl Alcohol	*	1	0	0	*	*	0	0	0	0
325199	Other Basic Organic Chemicals	10	592	*	*	5	*	0	0	2	0
325211	Plastics Materials and Resins	22	1,078	*	*	7	2	0	0	2	Q
325212	Synthetic Rubber	1	56	0	*	*	*	0	0	*	0
325222	Noncellulosic Organic Fibers	*	53	*	*	*	*	0	0	0	0
325311	Nitrogenous Fertilizers	1	39	0	0	1	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	39	2,996 <sup>r</sup>	*	*	24	*	0	0	2	0
325412	Pharmaceutical Preparation	30	2,010 <sup>r</sup>	*	*	19	*	0	0	2	0
325992	Photographic Film, Paper, Plate, and Chemicals	20	294	*	*	3	*	1	*	*	0
326	Plastics and Rubber Products	49	6,856	*	*	21	Q	0	0	0	0
327	Nonmetallic Mineral Products	145 <sup>r</sup>	5,373 <sup>r</sup>	*	1	56	*	2	*	23	0
327211	Flat Glass	19	352	0	*	9	*	0	0	8	0
327212	Other Pressed and Blown Glass and Glassware	15	357	0	*	4	*	0	0	9	0
327213	Glass Containers	13	759	0	*	10	*	0	0	*	0
327215	Glass Products from Purchased Glass	3 <sup>r</sup>	374 <sup>r</sup>	0	*	1 <sup>r</sup>	*	*	0	*	0
327310	Cements	44	1,450	*	*	*	*	1	*	5	0
327410	Lime	4	77	*	*	0	*	0	0	*	0
327420	Gypsum	10	201	*	*	8	*	0	0	*	0
327993	Mineral Wool	7	395	0	*	6	*	0	*	*	0



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NAICS Code(a)	Subsector and Industry	Total(b) (trillion Btu)	Net Electricity(c) (million kWh)	Residual Fuel Oil(d) (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)
3254	Pharmaceuticals and Medicines	28	2,771	0	*	9	*	*	0	3	0
325412	Pharmaceutical Preparation	20	2,138	0	*	5	*	0	0	3	0
325992	Photographic Film, Paper, Plate, and Chemicals	1	149	0	*	*	*	0	0	0	0
326	Plastics and Rubber Products	129	23,080	0	*	48	*	0	0	*	0
327	Nonmetallic Mineral Products	318	12,897	0	Q	128	*	4	*	47	0
327211	Flat Glass	17	465	0	*	15	*	0	0	*	0
327212	Other Pressed and Blown Glass and Glassware	Q	Q	0	*	Q	*	0	0	Q	0
327213	Glass Containers	15	885	0	*	12	*	0	0	*	0
327215	Glass Products from Purchased Glass	9	1,708	0	*	3	*	0	0	*	0
327310	Cements	105	3,168	0	*	10	*	2	0	34	0
327410	Lime	46	459	0	*	2	*	2	*	8	0
327420	Gypsum	15	399	0	*	13	*	0	0	*	0
327993	Mineral Wool	21	1,683	0	*	14	*	0	0	*	0
331	Primary Metals	901 <sup>r</sup>	46,835	2	*	303 <sup>r</sup>	*	7	9	67	31
33111	Iron and Steel Mills	657 <sup>r</sup>	20,507	2	*	208 <sup>r</sup>	*	7	8	28	31
33112	Electrometallurgical Ferroalloy Products	15	2,080	0	*	1	*	*	*	3	0
3312	Steel Products from Purchased Steel	33	2,067	0	*	13	*	*	0	12	0
3313	Alumina and Aluminum	56	7,220	*	*	26	*	0	0	5	0
331314	Secondary Smelting and Alloving of Aluminum	11	257	0	*	10	*	0	0	*	0
331315	Aluminum Sheet, Plate and Foils	15	1,178	0	*	9	*	0	0	1	0
331316	Aluminum Extruded Products	8	760	*	*	5	*	0	0	*	0
3314	Nonferrous Metals, except Aluminum	38	5,051	0	*	12	*	0	0	5	0
3315	Foundries	101	9,909	0	*	43	*	0	0	15	0
331511	Iron Foundries	55	5,344	0	*	13	*	0	0	15	0
331521	Aluminum Die-Casting Foundries	15	1,424	0	*	10	*	0	0	*	0
331524	Aluminum Foundries, except Die-Casting	11	616	0	*	9	*	0	0	*	0
332	Fabricated Metal Products	184	17,626	0	*	118	1	0	0	*	0
333	Machinery	116	18,701	0	*	46	*	*	0	1	0
334	Computer and Electronic Products	24	4,232	0	*	9	*	0	0	*	0
334413	Semiconductors and Related Devices	3	645	0	0	1	*	0	0	*	0
335	Electrical Equip., Appliances, and Components	27	4,300	0	*	12	*	0	0	*	0
336	Transportation Equipment	278	29,743	*	*	157	1	*	*	6	0
336111	Automobiles	25	2,310	*	*	14	*	*	0	1	0
336112	Light Trucks and Utility Vehicles	27	2,489	0	*	16	*	*	0	1	0
3364	Aerospace Product and Parts	14	2,017	*	*	5	*	0	0	1	0
336411	Aircraft	5	804	0	*	2	*	0	0	*	0
337	Furniture and Related Products	23	2,935	0	*	10	*	*	0	Q	0
339	Miscellaneous	17	2,719	*	*	8	*	0	0	*	0
	Total	4,671 <sup>r</sup>	273,604 <sup>r</sup>	7	6	1,597 <sup>r</sup>	35 <sup>r</sup>	25	9	1,172	60

**South Census Region**

311	Food	349	24,169	2	1	165	*	1	0	Q	0
3112	Grain and Oilseed Milling	48	3,019	*	20	*	*	0	7	0	0
311221	Wet Corn Milling	17	885	0	*	3	*	*	0	4	0
3113	Sugar Manufacturing	35	138	1	*	8	*	*	0	17	0
3114	Fruit and Vegetable Preserving and Specialty Food	29	2,295	*	*	19	*	0	0	2	0
3115	Dairy Product	11	1,399	0	*	6	*	0	0	0	0
3116	Animal Slaughtering and Processing	88	8,550	*	*	48	*	0	0	Q	0
312	Beverage and Tobacco Products	47	4,124	*	*	17	*	*	0	7	0
3121	Beverages	36	2,914	*	*	14	*	*	0	7	0
3122	Tobacco	12	1,210	*	*	3	*	*	0	*	0
313	Textile Mills	160	17,656	*	*	53	*	1	0	12	0
314	Textile Product Mills	65	5,145	*	Q	*	*	0	*	*	0
315	Apparel	12	1,686	*	*	6	*	0	0	*	0
316	Leather and Allied Products	*	93	0	0	*	*	0	0	0	0
321	Wood Products	202	12,019	*	1	23	1	*	0	126	0
321113	Sawmills	60	3,550	*	1	2	*	0	0	42	0
3212	Veneer, Plywood, and Engineered Woods	117	6,140	*	*	18	*	*	0	75	0
3219	Other Wood Products	19	2,110	*	*	2	*	0	0	7	0
322	Paper	1,570	35,440	8	1	243	1	6	0	1,008	0
322110	Pulp Mills	W	1,144	1	1	W	*	0	0	142	0
322121	Paper Mills, except Newsprint	522	10,697	3	*	69	*	3	0	332	0
322122	Newsprint Mills	16	3,468	0	*	*	*	0	0	4	0
322130	Paperboard Mills	633	12,056	4	1	78	*	3	0	424	0
323	Printing and Related Support	37	5,002	0	*	19	*	0	0	*	0
324	Petroleum and Coal Products	4,162 <sup>r</sup>	20,888 <sup>r</sup>	6	2	490	2 <sup>r</sup>	1	*	3,570 <sup>r</sup>	64
324110	Petroleum Refineries	4,090 <sup>r</sup>	19,950 <sup>r</sup>	6	*	478 <sup>r</sup>	2 <sup>r</sup>	0	0	3,484 <sup>r</sup>	0
324199	Other Petroleum and Coal Products	51	188	0	*	1	*	1	*	86	63
325	Chemicals	4,303 <sup>r</sup>	89,922 <sup>r</sup>	11	1	1,357 <sup>r</sup>	612 <sup>r</sup>	4	*	642 <sup>r</sup>	389 <sup>r</sup>
325110	Petrochemicals	W	4,443 <sup>r</sup>	1	*	104	W	0	0	W	237 <sup>r</sup>

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325120	Industrial Gases	87	9,427	0	*	53	*	0	0	1	0
325181	Alkalies and Chlorine	121	2,884	0	*	91	*	0	0	7	0
325182	Carbon Black	75	532	9	*	17 <sup>r</sup>	*	0	0	*	0
325188	Other Basic Inorganic Chemicals	133	18,975	1	*	38	*	*	*	20	0
325192	Cyclic Crudes and Intermediates	22	2,191	0	*	10	*	*	0	4	0
325193	Ethyl Alcohol	2	47	0	*	2	*	0	0	*	0
325199	Other Basic Organic Chemicals	941	16,648	*	*	334	W	3	0	W	48
325211	Plastics Materials and Resins	W	14,258	*	*	307	W	*	0	37	103
325212	Synthetic Rubber	39	1,326	*	*	25	*	*	0	5	0
325222	Noncellulosic Organic Fibers	87	4,783	*	*	39	*	*	0	0	20
325311	Nitrogenous Fertilizers	250	1,634	0	*	238	*	0	0	*	0
325312	Phosphatic Fertilizers	W	1,137	*	*	W	*	0	0	*	0
3254	Pharmaceuticals and Medicines	18	2,427	*	*	8	*	0	0	1	0
325412	Pharmaceutical Preparation	10	1,596	*	*	4	*	0	0	*	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	268	0	*	W	*	0	0	Q	0
326	Plastics and Rubber Products	141	19,701	1	*	52 <sup>r</sup>	*	*	0	*	0
327	Nonmetallic Mineral Products	468	18,113	*	1	206	Q	6	*	44	0
327211	Flat Glass	25	868	0	*	20	*	0	0	1	0
327212	Other Pressed and Blown Glass and Glassware	23	1,746	0	*	17	*	0	0	*	0
327213	Glass Containers	22	1,341	0	*	17	*	0	0	*	0
327215	Glass Products from Purchased Glass	52	1,299	0	*	Q	*	*	0	*	0
327310	Cements	144	4,478	*	*	5	*	4	*	20	0
327410	Lime	48	648	0	*	3	*	1	*	10	0
327420	Gypsum	35	848	0	*	31	*	0	0	*	0
327993	Mineral Wool	17	1,416	0	*	11	*	0	*	*	0
331	Primary Metals	488 <sup>r</sup>	58,638	1	*	180	*	3	1	15 <sup>r</sup>	23
331111	Iron and Steel Mills	219	19,830	1	*	75	*	3	1	2	23
331112	Electrometallurgical Ferroalloy Products	7	1,028	0	*	*	0	*	0	*	0
3312	Steel Products from Purchased Steel	11	1,504	0	*	5	*	*	*	*	0
3313	Alumina and Aluminum	184 <sup>r</sup>	27,789	0	*	75	*	*	0	11 <sup>r</sup>	0
331314	Secondary Smelting and Alloying of Aluminum	7	269	0	*	6	*	0	0	*	0
331315	Aluminum Sheet, Plate and Foils	26	1,888	0	*	19	*	0	0	*	0
331316	Aluminum Extruded Products	9	708	0	*	6	*	0	0	*	0
3314	Nonferrous Metals, except Aluminum	26	3,662	0	*	8	*	*	*	1	0
3315	Foundries	42	4,825	0	*	17	*	*	*	*	*
331511	Iron Foundries	22	2,541	0	*	7	*	0	*	*	*
331521	Aluminum Die-Casting Foundries	4	331	0	*	3	*	0	0	*	0
331524	Aluminum Foundries, except Die-Casting	4	330	0	*	3	*	0	0	*	0
332	Fabricated Metal Products	124	13,937	*	*	71	1	0	0	*	0
333	Machinery	47	7,234	0	*	20	*	0	0	*	0
334	Computer and Electronic Products	36	7,674	0	*	9	*	0	0	*	0
334413	Semiconductors and Related Devices	16	3,358	0	*	4	*	0	0	*	0
335	Electrical Equip., Appliances, and Components	62	6,326	0	*	23	*	*	0	20	5
336	Transportation Equipment	102	15,631	*	*	38	*	*	0	4	0
336111	Automobiles	12	1,360	*	*	5	*	*	0	1	0
336112	Light Trucks and Utility Vehicles	16	2,026	*	*	9	*	0	0	1	0
3364	Aerospace Product and Parts	26	4,206	*	*	9	*	*	0	2	0
336411	Aircraft	9	1,455	*	*	3	*	0	0	*	0
337	Furniture and Related Products	30	5,112	0	*	4	*	*	0	6	0
339	Miscellaneous	19	2,720	0	*	9	*	0	0	*	0
	Total	12,424 <sup>r</sup>	371,230	30	9	3,029 <sup>r</sup>	619 <sup>r</sup>	23	2	5,524 <sup>r</sup>	482 <sup>r</sup>

**West Census Region**

311	Food	210	13,057	*	1	131	*	1	*	6	0
3112	Grain and Oilseed Milling	8	578	0	*	5	*	0	0	1	0
311221	Wet Corn Milling	2	65	0	*	1	*	0	0	1	0
31131	Sugar Manufacturing	22	224	0	*	2	*	1	*	3	0
3114	Fruit and Vegetable Preserving and Specialty Food	63	3,834	*	*	46	*	0	0	1	0
3115	Dairy Product	52	3,734	0	*	38	*	0	0	*	0
3116	Animal Slaughtering and Processing	22	1,563	0	*	15	*	0	0	*	0
312	Beverage and Tobacco Products	28	2,133	0	*	9	*	*	0	4	0
3121	Beverages	28	2,133	0	*	9	*	*	0	4	0
3122	Tobacco	0	0	0	0	0	0	0	0	0	0
313	Textile Mills	Q	Q	0	0	Q	*	0	0	0	0
314	Textile Product Mills	2	104	0	0	1	*	*	0	0	0
315	Apparel	1	147	0	0	*	0	0	0	0	0
316	Leather and Allied Products	*	22	0	*	*	*	0	0	*	0
321	Wood Products	95	5,386	*	1	17	*	0	0	50	0
321113	Sawmills	64	2,308	*	1	8 <sup>r</sup>	*	0	0	43	0
3212	Veneer, Plywood, and Engineered Woods	17	2,050	0	*	7	*	0	0	3	0

**Table 1.1 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006:**  
**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)
3219	Other Wood Products	10	943	*	*	2	*	0	0	4 <sup>r</sup>	0
322	Paper	287	15,908	1	*	82	*	1	0	125	0
322110	Pulp Mills	W	W	*	*	W	*	0	0	9	0
322121	Paper Mills, except Newsprint	83	2,666	1	*	25	*	0	0	44	0
322122	Newsprint Mills	47	4,977	*	*	8	*	1	0	9	0
322130	Paperboard Mills	129	6,243	*	*	38	*	*	0	64	0
323	Printing and Related Support	5	908	0	0	2	*	0	0	0	0
324	Petroleum and Coal Products	1,139	6,380	1	1	185	3 <sup>r</sup>	1	0	893	13
324110	Petroleum Refineries	1,086	6,283	1	1	166	3 <sup>r</sup>	0	0	870	0
324199	Other Petroleum and Coal Products	27	-411	0	*	*	*	1	0	21	13
325	Chemicals	113	9,250	*	*	47	*	1	0	7	*
325110	Petrochemicals	*	2	0	0	*	*	0	0	0	0
325120	Industrial Gases	9	2,099	0	0	1	0	0	0	0	*
325181	Alkalies and Chlorine	25	1,329	0	*	12	*	*	0	1	0
325182	Carbon Black	*	*	0	0	*	*	0	0	0	0
325188	Other Basic Inorganic Chemicals	42	3,052	*	*	11	*	1	0	2	*
325192	Cyclic Crudes and Intermediates	*	5	0	0	*	*	0	0	0	0
325193	Ethyl Alcohol	3	44	0	*	1	*	0	0	1	0
325199	Other Basic Organic Chemicals	4	217	0	*	2	*	0	0	1	0
325211	Plastics Materials and Resins	2	234	0	*	1	*	0	0	0	0
325212	Synthetic Rubber	*	19	0	0	*	*	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	8	224	0	*	7	*	0	0	*	0
325312	Phosphatic Fertilizers	W	352	0	*	W	*	0	0	*	0
3254	Pharmaceuticals and Medicines	8	1,013	0	*	4	*	0	0	*	0
325412	Pharmaceutical Preparation	5	588	0	*	3	*	0	0	*	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	332	0	*	W	*	0	0	0	0
326	Plastics and Rubber Products	18	3,767	0	*	4	*	0	0	*	0
327	Nonmetallic Mineral Products	182	6,593	*	Q	57	*	3	*	25	0
327211	Flat Glass	8	218	*	*	6	*	0	0	*	0
327212	Other Pressed and Blown Glass and Glassware	1	113	0	*	1	*	0	0	*	0
327213	Glass Containers	14	959	0	*	10	*	0	0	*	0
327215	Glass Products from Purchased Glass	1	290	0	*	*	*	0	0	*	0
327310	Cements	89	2,896	0	*	4	*	2	*	18	0
327410	Lime	18	248	*	*	*	*	1	0	4	0
327420	Gypsum	26	397	0	*	22	*	0	0	2	0
327993	Mineral Wool	5	537	0	*	3	*	0	0	*	0
331	Primary Metals	103 <sup>r</sup>	11,935	0	*	45	*	*	*	13 <sup>r</sup>	*
331111	Iron and Steel Mills	33	3,288	0	*	18	*	*	*	2	0
331112	Electrometallurgical Ferroalloy Products	*	3	0	*	*	*	0	0	0	0
3312	Steel Products from Purchased Steel	1	181	0	*	1	*	0	0	*	0
3313	Alumina and Aluminum	33 <sup>r</sup>	4,122	0	*	8	*	0	0	11 <sup>r</sup>	0
331314	Secondary Smelting and Alloying of Aluminum	2	45	0	*	2	*	0	0	*	0
331315	Aluminum Sheet, Plate and Foils	3	293	0	*	2	*	0	0	*	0
331316	Aluminum Extruded Products	4	238	0	*	3	*	0	0	0	0
3314	Nonferrous Metals, except Aluminum	26	3,480	0	*	14	*	0	0	*	0
3315	Foundries	9	861	0	*	5	*	0	0	*	*
331511	Iron Foundries	2	126	0	*	1	*	0	0	*	*
331521	Aluminum Die-Casting Foundries	1	45	0	0	*	*	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	1	79	0	*	1	*	0	0	*	0
332	Fabricated Metal Products	35	5,135	0	*	16	*	0	0	*	0
333	Machinery	7	1,393	0	*	2	*	0	0	*	0
334	Computer and Electronic Products	54	10,587	0	*	17	*	0	0	1	0
334413	Semiconductors and Related Devices	33	6,563	0	*	9	*	0	0	1	0
335	Electrical Equip., Appliances, and Components	5	720	0	*	Q	*	0	0	*	0
336	Transportation Equipment	36	5,134 <sup>r</sup>	0	*	16	*	0	0	*	0
336111	Automobiles	2	214	0	*	1	*	0	0	*	0
336112	Light Trucks and Utility Vehicles	*	1	0	0	*	0	0	0	0	0
3364	Aerospace Product and Parts	26	4,151 <sup>r</sup>	0	*	10	*	0	0	*	0
336411	Aircraft	6	937	0	*	2	*	0	0	*	0
337	Furniture and Related Products	2	544	0	0	1	*	0	0	*	0
339	Miscellaneous	7	1,615	0	*	1	*	0	0	*	0
	Total	2,334 <sup>r</sup>	100,852 <sup>r</sup>	3	5	637	4 <sup>r</sup>	7	*	1,124 <sup>r</sup>	13

(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

**Table 1.1 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006:**  
**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(d) (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)
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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 1.

(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.

R=Revised estimates.

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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006.

**Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006;**  
**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)	
											Total United States	
311	Food	1,186	251	26	16	638	3	147	1	105	105	*
3112	Grain and Oilseed Milling	318	53	2	1	120	*	114	0	29	29	*
311221	Wet Corn Milling	179	23	*	*	52	*	95	0	9	9	0
31131	Sugar Manufacturing	82	3	9	1	18	*	31	1	20	20	0
3114	Fruit and Vegetable Preserving and Specialty Food	169	33	2	1	126	1	1	0	4	4	0
3115	Dairy Product	121	34	1	1	83	*	*	0	1	1	0
3116	Animal Slaughtering and Processing	226	60	3	5	145	1	0	0	12	12	0
312	Beverage and Tobacco Products	107	30	3	1	41	1	20	0	11	11	0
3121	Beverages	95	26	2	1	38	1	16	0	11	11	0
3122	Tobacco	12	4	1	*	3	*	4	0	*	*	0
313	Textile Mills	178	66	2	*	65	*	32	0	12	12	0
314	Textile Product Mills	72	20	Q	*	46 <sup>R</sup>	1 <sup>R</sup>	3	0	*	*	0
315	Apparel	14	7	*	*	7	*	0	0	*	*	0
316	Leather and Allied Products	3	1	*	*	1	*	0	0	*	*	0
321	Wood Products	451	91	4	21	87	4	Q	Q	228	228	0
321113	Sawmills	139	23	*	9	12	1	0	0	94	94	0
3212	Veneer, Plywood, and Engineered Woods	169	34	*	1	45	2	2	0	84	84	0
3219	Other Wood Products	131	33	*	Q	28	1	Q	Q	0	0	0
322	Paper	2,354 <sup>R</sup>	247 <sup>R</sup>	91	13	474	5	221	0	1,302	1,302	0
322110	Pulp Mills	200	6	11	4	13	*	6	0	160	160	0
322121	Paper Mills, except Newsprint	939	78	47	2	174	1	122	0	515	515	0
322122	Newsprint Mills	72	32	2	*	8	*	14	0	15	15	0
322130	Paperboard Mills	827 <sup>R</sup>	75 <sup>R</sup>	29	6	142	*	73	0	502	502	0
323	Printing and Related Support	85	45	*	*	39	1	0	0	*	*	0
324	Petroleum and Coal Products	6,864 <sup>R</sup>	137	58	33	849	29	102	1	5,744 <sup>R</sup>	89	89
324110	Petroleum Refineries	6,629 <sup>R</sup>	127	52	8	789 <sup>R</sup>	28	1	0	5,625 <sup>R</sup>	0	0
324199	Other Petroleum and Coal Products	138	*	0	*	3	*	101	1	117	117	85
325	Chemicals	5,149 <sup>R</sup>	517	87	8	1,746 <sup>R</sup>	2,304 <sup>R</sup>	182	3	707 <sup>R</sup>	406 <sup>R</sup>	406 <sup>R</sup>
325110	Petrochemicals	1,006 <sup>R</sup>	16	5	*	110	W	0	0	W	237 <sup>R</sup>	*
325120	Industrial Gases	136	71	0	*	62	*	0	0	3	3	0
325181	Alkalies and Chlorine	153	21	0	*	107	*	16	0	9	9	0
325182	Carbon Black	85 <sup>R</sup>	2	64	*	19 <sup>R</sup>	*	0	0	*	*	0
325188	Other Basic Inorganic Chemicals	214	82	9	1	64	8	23	3	23	23	*
325192	Cyclic Crudes and Intermediates	37	9	0	*	16	*	*	0	13	13	*
325193	Ethyl Alcohol	114	9	0	*	83	*	19	0	1	1	0
325199	Other Basic Organic Chemicals	1,017	73	2	2	381	W	67	0	W	48	48
325211	Plastics Materials and Resins	1,547	65	*	1	344	1,185	11	*	43	43	104
325212	Synthetic Rubber	44	6	*	*	26	*	6	0	6	6	0
325222	Noncellulosic Organic Fibers	88	17	3	*	41	*	9	0	20	20	1
325311	Nitrogenous Fertilizers	302	8	0	*	293	*	0	0	1	1	0
325312	Phosphatic Fertilizers	27	5	*	1	19	*	2	0	*	*	0
3254	Pharmaceuticals and Medicines	92	31	1	1	47	*	6	0	6	6	0
325412	Pharmaceutical Preparation	64	22	1	1	31	*	5	0	4	4	0
325992	Photographic Film, Paper, Plate, and Chemicals	28	4	*	*	7	*	16	0	Q	Q	0
326	Plastics and Rubber Products	337 <sup>R</sup>	182	9	3	128	5	Q	0	*	*	0
327	Nonmetallic Mineral Products	1,114 <sup>R</sup>	147	3	30	460 <sup>R</sup>	5	320	11	138	138	0
327211	Flat Glass	69	6	1	*	52	*	*	0	9	9	0
327212	Other Pressed and Blown Glass and Glassware	94	17	0	*	Q	*	0	0	13	13	0
327213	Glass Containers	64	13	0	*	50	*	0	0	*	*	0
327215	Glass Products from Purchased Glass	65 <sup>R</sup>	13	0	*	52 <sup>R</sup>	*	*	0	*	*	0
327310	Cements	382	41	1	3	20	*	235	5	77	77	0
327410	Lime	116	5	*	1	5	*	78	4	22	22	0
327420	Gypsum	86	6	*	1	76	*	0	0	2	2	0
327993	Mineral Wool	51	14	0	*	35	*	0	3	*	*	0
331	Primary Metals	1,736 <sup>R</sup>	458	19	7	627 <sup>R</sup>	4	373	253	139 <sup>R</sup>	139 <sup>R</sup>	145
331111	Iron and Steel Mills	1,040 <sup>R</sup>	175	19	3	359 <sup>R</sup>	*	360	230	39	39	145
331112	Electrometallurgical Ferroalloy Products	22	11	0	*	1	*	5	2	3	3	0
3312	Steel Products from Purchased Steel	56	15	0	*	26	*	*	*	14	14	0
3313	Alumina and Aluminum	307 <sup>R</sup>	152	*	1	125	1	*	0	28 <sup>R</sup>	28 <sup>R</sup>	0
331314	Secondary Smelting and Alloying of Aluminum	21	2	*	*	18	*	*	0	*	*	0
331315	Aluminum Sheet, Plate and Foils	52	13	0	*	37	*	0	0	2	2	0
331316	Aluminum Extruded Products	25	7	*	*	17	1	0	0	*	*	0
3314	Nonferrous Metals, except Aluminum	147 <sup>R</sup>	49	*	1	43 <sup>R</sup>	1	7	6	Q	Q	0
3315	Foundries	164	57	*	2	73	1	1	15	15	15	*
331511	Iron Foundries	84	29	*	1	24	*	0	15	15	15	*
331521	Aluminum Die-Casting Foundries	22	7	0	*	15	*	0	0	*	*	0
331524	Aluminum Foundries, except Die-Casting	18	4	*	*	14	*	0	0	*	*	0
332	Fabricated Metal Products	396	143	*	2	240	5	0	Q	Q	Q	0
333	Machinery	204	111	Q	2	84	3	1	0	2	2	0
334	Computer and Electronic Products	142	94	*	1	45	*	0	0	2	2	0
334413	Semiconductors and Related Devices	64	43	*	*	19	*	0	0	2	2	0
335	Electrical Equip., Appliances, and Components	103	44	0	Q	42	1	*	0	21	21	5

**Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006;**  
**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)
336	Transportation Equipment	477	195	7	3	249	5	5	Q	13	0
336111	Automobiles	39	13	*	*	21	*	2	0	2	0
336112	Light Trucks and Utility Vehicles	43	15	*	*	25	*	1	0	2	0
3364	Aerospace Product and Parts	78	39	3	1	30	1	*	0	4	0
336411	Aircraft	20	12	*	*	8	*	0	0	*	0
337	Furniture and Related Products	61	32	*	Q	17	1	3	0	8	0
339	Miscellaneous	66	33	Q	*	25	1	0	Q	0	0
	Total	21,098 <sup>R</sup>	2,851 <sup>R</sup>	314	143	5,911 <sup>R</sup>	2,376 <sup>R</sup>	1,433	272	8,443 <sup>R</sup>	645 <sup>R</sup>

## Northeast Census Region

311	Food	59	19	3	3	33	*	0	0	Q	0
3112	Grain and Oilseed Milling	4	2	*	*	2	*	0	0	*	0
311221	Wet Corn Milling	*	*	*	*	0	0	0	0	*	0
31131	Sugar Manufacturing	3	*	0	*	3	*	0	0	*	0
3114	Fruit and Vegetable Preserving and Specialty Food	7	2	1	*	3	*	0	0	Q	0
3115	Dairy Product	13	4	*	1	8	*	0	0	*	0
3116	Animal Slaughtering and Processing	4	2	0	*	2	*	0	0	*	0
312	Beverage and Tobacco Products	12	4	1	*	6	*	0	0	*	0
3121	Beverages	11	4	1	*	6	*	0	0	*	0
3122	Tobacco	1	*	*	*	*	*	0	0	0	0
313	Textile Mills	14	5	2	*	7	*	0	0	0	0
314	Textile Product Mills	4	2	0	*	1	*	Q	0	0	0
315	Apparel	1	*	0	*	*	*	0	0	0	0
316	Leather and Allied Products	1	1	*	*	*	*	0	0	0	0
321	Wood Products	25	6	*	1	6	*	0	0	11	0
321113	Sawmills	9	2	*	1	Q	*	0	0	5	0
3212	Veneer, Plywood, and Engineered Woods	8	2	0	*	3	*	0	0	2	0
3219	Other Wood Products	8	2	0	*	2	*	0	0	4	0
322	Paper	213 <sup>R</sup>	22 <sup>R</sup>	27	1	65	2	15	0	82	0
322110	Pulp Mills	11	*	2	*	*	*	0	0	9	0
322121	Paper Mills, except Newsprint	147	7	20	1	40	*	14	0	65	0
322122	Newsprint Mills	4	2	2	*	0	*	0	0	0	0
322130	Paperboard Mills	21 <sup>R</sup>	4 <sup>R</sup>	2	*	10	*	0	0	4	0
323	Printing and Related Support	13	7	*	*	6	*	0	0	*	0
324	Petroleum and Coal Products	528	13	11	8	46	6	7	*	436	0
324110	Petroleum Refineries	498	10	7	1	38	6	1	0	435	0
324199	Other Petroleum and Coal Products	8	1	0	*	*	*	7	*	*	0
325	Chemicals	150	38	10	2	66	9	16	0	10	Q
325110	Petrochemicals	*	*	0	*	*	*	0	0	*	0
325120	Industrial Gases	11	7	0	0	2	*	0	0	2	0
325181	Alkalies and Chlorine	7	6	0	*	1	*	0	0	*	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	11	3	5	*	3	*	0	0	*	0
325192	Cyclic Crudes and Intermediates	6	1	0	*	5	*	0	0	1	0
325193	Ethyl Alcohol	*	*	0	0	*	*	0	0	0	0
325199	Other Basic Organic Chemicals	10	2	0	*	5	*	0	0	2	0
325211	Plastics Materials and Resins	22	4	*	*	7	8	0	0	2	Q
325212	Synthetic Rubber	1	*	0	*	*	*	0	0	*	0
325222	Noncellulosic Organic Fibers	*	*	*	*	*	*	0	0	0	0
325311	Nitrogenous Fertilizers	1	*	0	0	1	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	39	10	1	1	25	*	0	0	2	0
325412	Pharmaceutical Preparation	30	7	1	1	20	*	0	0	2	0
325992	Photographic Film, Paper, Plate, and Chemicals	20	1	*	*	3	*	16	0	*	0
326	Plastics and Rubber Products	49	23	Q	Q	21	Q	0	0	0	0
327	Nonmetallic Mineral Products	145 <sup>R</sup>	18	1	5	58 <sup>R</sup>	*	39	1	23	0
327211	Flat Glass	19	1	0	*	10	*	0	0	8	0
327212	Other Pressed and Blown Glass and Glassware	15	1	0	*	4	*	0	0	9	0
327213	Glass Containers	13	3	0	*	10	*	0	0	*	0
327215	Glass Products from Purchased Glass	3 <sup>R</sup>	1	0	*	1 <sup>R</sup>	*	*	0	*	0
327310	Cements	44	5	1	*	*	*	32	1	5	0
327410	Lime	4	*	*	*	0	*	3	0	*	0
327420	Gypsum	10	1	*	*	9	*	0	0	*	0
327993	Mineral Wool	7	1	0	*	6	*	0	*	*	0
331	Primary Metals	243	58	*	1	83	1	142	5	Q	90
331111	Iron and Steel Mills	131	26	0	*	50	*	139	6	6	90
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	11	2	0	*	7	*	*	1	0	0
3313	Alumina and Aluminum	34	18	*	*	13	*	0	0	2	0
331314	Secondary Smelting and Alloying of Aluminum	1	*	*	*	*	*	0	0	*	0
331315	Aluminum Sheet, Plate and Foils	8	2	0	*	5	*	0	0	*	0
331316	Aluminum Extruded Products	5	1	*	*	4	*	0	0	*	0
3314	Nonferrous Metals, except Aluminum	Q	7	*	*	8	*	3	3	Q	0
3315	Foundries	11	4	*	*	6	*	0	1	*	0
331511	Iron Foundries	5	2	*	*	2	*	0	1	*	0

**Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006;**  
**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)
331521	Aluminum Die-Casting Foundries	2	*	0	*	2	*	0	0	*	0
331524	Aluminum Foundries, except Die-Casting	1	*	*	*	1	*	0	0	0	0
332	Fabricated Metal Products	54	18	*	*	29	*	0	0	Q	0
333	Machinery	Q	17	Q	*	Q	*	0	0	*	0
334	Computer and Electronic Products	27	17	*	*	9	*	0	0	*	0
334413	Semiconductors and Related Devices	12	7	*	*	4	*	0	0	*	0
335	Electrical Equip., Appliances, and Components	9	5	0	*	3	*	0	0	*	0
336	Transportation Equipment	61	23	3	*	Q	*	0	0	Q	0
336111	Automobiles	*	*	0	0	*	*	0	0	0	0
336112	Light Trucks and Utility Vehicles	*	*	0	*	0	0	0	0	0	0
3364	Aerospace Product and Parts	11	4	3	*	5	*	0	0	*	0
336411	Aircraft	1	1	0	*	*	*	0	0	*	0
337	Furniture and Related Products	5	2	*	*	2	*	0	0	Q	0
339	Miscellaneous	23	9	Q	*	6	*	0	0	Q	0
	Total	1,670 <sup>R</sup>	306 <sup>R</sup>	64	24	495 <sup>R</sup>	21	220	7	622	91

## Midwest Census Region

311	Food	568	105	11	2	299	1	119	1	30	*
3112	Grain and Oilseed Milling	258	39	1	1	93	*	103	0	21	*
311221	Wet Corn Milling	160	20	0	*	49	*	88	0	3	0
31131	Sugar Manufacturing	23	2	1	*	5	*	14	1	*	0
3114	Fruit and Vegetable Preserving and Specialty Food	Q	10	1	*	Q	*	1	0	*	0
3115	Dairy Product	45	13	Q	*	30	*	*	0	1	0
3116	Animal Slaughtering and Processing	112	23	2	1	79	*	0	0	Q	0
312	Beverage and Tobacco Products	20	5	1	*	8	*	5	0	*	0
3121	Beverages	19	5	1	*	8	*	5	0	0	0
3122	Tobacco	*	*	0	*	*	*	0	0	0	0
313	Textile Mills	Q	*	0	0	*	*	0	0	0	0
314	Textile Product Mills	Q	Q	0	0	*	*	0	0	0	0
315	Apparel	*	*	0	0	*	0	0	0	*	0
316	Leather and Allied Products	1	*	0	0	1	*	0	0	*	0
321	Wood Products	129	26	*	Q	39	1	Q	Q	Q	0
321113	Sawmills	7	1	0	1	1	*	0	0	4	0
3212	Veneer, Plywood, and Engineered Woods	26	4	*	*	16	*	1	0	4	0
3219	Other Wood Products	95	20	*	Q	*	*	Q	Q	Q	0
322	Paper	284	51	6	1	76	1	63	0	87	0
322110	Pulp Mills	W	W	0	*	*	*	0	0	*	0
322121	Paper Mills, except Newsprint	188	25	5	*	37	*	47	0	74	0
322122	Newsprint Mills	4	2	0	*	*	*	0	0	2	0
322130	Paperboard Mills	43	8	1	*	12	*	12	0	9	0
323	Printing and Related Support	30	18	0	*	12	*	0	0	*	0
324	Petroleum and Coal Products	1,034	31	2	Q	108	3	51	0	845	13
324110	Petroleum Refineries	955	27	1	1	87	3	*	0	836	0
324199	Other Petroleum and Coal Products	51	*	0	*	1	*	51	0	9	9
325	Chemicals	583	141	8	1	236	115	50	50	49	Q
325110	Petrochemicals	W	1	0	*	2	W	0	0	*	*
325120	Industrial Gases	30	25	0	0	5	*	0	0	*	0
325181	Alkalies and Chlorine	1	1	0	*	*	*	0	0	*	0
325182	Carbon Black	10	*	8	*	1	*	0	0	*	0
325188	Other Basic Inorganic Chemicals	27	4	*	*	12	8	1	0	2	*
325192	Cyclic Crudes and Intermediates	9	1	0	*	1	*	0	0	7	*
325193	Ethyl Alcohol	109	9	0	*	81	*	19	0	7	0
325199	Other Basic Organic Chemicals	63	14	0	*	30	*	11	0	7	*
325211	Plastics Materials and Resins	W	12	0	*	20	W	6	*	3	*
325212	Synthetic Rubber	5	1	0	*	1	*	3	0	*	0
325222	Noncellulosic Organic Fibers	*	*	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	42	2	0	*	39	*	0	0	1	0
325312	Phosphatic Fertilizers	*	*	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	28	9	0	*	10	*	6	0	3	0
325412	Pharmaceutical Preparation	20	7	0	*	5	*	5	0	3	0
325992	Photographic Film, Paper, Plate, and Chemicals	1	1	0	*	*	*	0	0	0	0
326	Plastics and Rubber Products	129	79	0	*	49	1	0	0	*	0
327	Nonmetallic Mineral Products	318	44	0	Q	132	1	83	2	47	0
327211	Fiat Glass	17	2	0	*	15	*	0	0	*	0
327212	Other Pressed and Blown Glass and Glassware	Q	Q	0	*	Q	*	0	0	Q	0
327213	Glass Containers	15	3	0	*	12	*	0	0	*	0
327215	Glass Products from Purchased Glass	9	6	0	*	3	*	0	0	*	0
327310	Cements	105	11	0	1	10	*	49	0	34	0
327410	Lime	46	2	0	*	2	*	34	1	8	0
327420	Gypsum	15	1	0	*	13	*	0	0	*	0
327993	Mineral Wool	21	6	0	*	14	*	0	1	*	0
331	Primary Metals	901 <sup>R</sup>	160	15	3	312 <sup>R</sup>	1	162	213	67	31
331111	Iron and Steel Mills	657 <sup>R</sup>	70	15	2	214 <sup>R</sup>	*	159	200	28	31
331112	Electrometallurgical Ferroalloy Products	15	7	0	*	1	*	3	2	3	0
3312	Steel Products from Purchased Steel	33	7	0	*	14	*	*	0	12	0

**Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006;**  
**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)
3313	Alumina and Aluminum	56	25	*	*	27	*	0	0	5	0
331314	Secondary Smelting and Alloying of Aluminum	11	1	0	*	10	*	0	0	*	0
331315	Aluminum Sheet, Plate and Foils	15	4	0	*	10	*	0	0	1	0
331316	Aluminum Extruded Products	8	3	*	*	5	*	0	0	*	0
3314	Nonferrous Metals, except Aluminum	38	17	0	*	13	1	0	2	5	0
3315	Foundries	101	34	0	*	44	*	0	8	15	0
331511	Iron Foundries	55	18	0	*	14	*	0	8	*	0
331521	Aluminum Die-Casting Foundries	15	5	0	*	10	*	0	0	*	0
331524	Aluminum Foundries, except Die-Casting	11	2	0	*	9	*	0	0	*	0
332	Fabricated Metal Products	184	60	0	*	121	2	0	0	*	0
333	Machinery	116	64	0	1	48	1	1	0	1	0
334	Computer and Electronic Products	24	14	0	*	10	*	0	0	*	0
334413	Semiconductors and Related Devices	3	2	0	0	1	*	0	0	*	0
335	Electrical Equip., Appliances, and Components	27	15	0	*	12	*	0	0	*	0
336	Transportation Equipment	278	101	Q	1	161	3	5	Q	6	0
336111	Automobiles	25	8	*	*	15	*	2	0	1	0
336112	Light Trucks and Utility Vehicles	27	8	0	*	16	*	1	0	1	0
3364	Aerospace Product and Parts	14	7	*	*	6	*	0	0	1	0
336411	Aircraft	5	3	0	*	2	*	0	0	*	0
337	Furniture and Related Products	23	10	0	*	10	*	1	0	Q	0
339	Miscellaneous	17	9	*	*	8	*	0	0	*	0
	Total	4,671 <sup>R</sup>	934	45	36	1,643 <sup>R</sup>	130	554	217	1,172	60

## South Census Region

311	Food	349	82	11	4	170	1	12	0	Q	0
3112	Grain and Oilseed Milling	48	10	*	20	*	10	0	7	0	0
311221	Wet Corn Milling	17	3	0	*	3	*	6	0	4	0
31131	Sugar Manufacturing	35	*	7	1	8	*	2	0	17	0
3114	Fruit and Vegetable Preserving and Specialty Food	29	8	*	Q	19	*	0	0	2	0
3115	Dairy Product	11	5	0	*	6	*	0	0	0	0
3116	Animal Slaughtering and Processing	88	29	1	2	50	1	0	0	Q	0
312	Beverage and Tobacco Products	47	14	1	*	17	*	7	0	7	0
3121	Beverages	36	10	1	*	15	*	3	0	7	0
3122	Tobacco	12	4	*	*	3	*	4	0	*	0
313	Textile Mills	160	60	*	*	55	*	32	0	12	0
314	Textile Product Mills	65	18	Q	*	Q	Q	0	0	*	0
315	Apparel	12	6	*	*	7	*	0	0	*	0
316	Leather and Allied Products	*	*	0	0	*	*	0	0	0	0
321	Wood Products	202	41	Q	8	24	2	1	0	126	0
321113	Sawmills	60	12	*	3	2	*	0	0	42	0
3212	Veneer, Plywood, and Engineered Woods	117	21	*	1	18	1	1	0	75	0
3219	Other Wood Products	19	7	*	1	3	*	0	0	7	0
322	Paper	1,570	121	53	8	250	2	128	0	1,008	0
322110	Pulp Mills	W	4	9	4	W	*	6	0	142	0
322121	Paper Mills, except Newsprint	522	36	19	1	71	*	61	0	332	0
322122	Newsprint Mills	16	12	0	*	*	*	1	0	4	0
322130	Paperboard Mills	633	41	24	3	80	*	60	0	424	0
323	Printing and Related Support	37	17	0	*	20	*	0	0	0	0
324	Petroleum and Coal Products	4,162 <sup>R</sup>	71	37	9	505	7	25	1	3,570 <sup>R</sup>	64
324110	Petroleum Refineries	4,090 <sup>R</sup>	68	37	2	492 <sup>R</sup>	7	0	0	3,484 <sup>R</sup>	0
324199	Other Petroleum and Coal Products	51	1	0	*	1	*	25	1	86	63
325	Chemicals	4,303 <sup>R</sup>	307	69	5	1,396	2,180 <sup>R</sup>	93	*	642 <sup>R</sup>	389 <sup>R</sup>
325110	Petrochemicals	W	15	5	*	107	W	0	0	W	237 <sup>R</sup>
325120	Industrial Gases	87	32	0	*	54	*	0	0	1	0
325181	Alkalies and Chlorine	121	10	0	*	94	*	10	0	7	0
325182	Carbon Black	75 <sup>R</sup>	2	56	*	17 <sup>R</sup>	*	0	0	*	0
325188	Other Basic Inorganic Chemicals	133	65	3	1	39	*	6	0	20	0
325192	Cyclic Crudes and Intermediates	22	7	0	*	10	*	0	0	4	0
325193	Ethyl Alcohol	2	*	0	*	2	*	0	0	*	0
325199	Other Basic Organic Chemicals	941	57	1	2	343	W	56	0	W	48
325211	Plastics Materials and Resins	W	49	*	*	316	W	5	0	37	103
325212	Synthetic Rubber	39	5	*	*	25	*	3	0	5	0
325222	Noncellulosic Organic Fibers	87	16	3	*	41	*	9	0	20	1
325311	Nitrogenous Fertilizers	250	6	0	*	245	*	0	0	*	0
325312	Phosphatic Fertilizers	W	4	*	1	W	*	2	0	*	0
3254	Pharmaceuticals and Medicines	18	8	*	*	8	*	0	0	1	0
325412	Pharmaceutical Preparation	10	5	*	*	4	*	0	0	*	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	1	0	*	W	*	0	0	Q	0
326	Plastics and Rubber Products	141	67	8	Q	53	1	Q	0	*	0
327	Nonmetallic Mineral Products	468	62	*	9	212	Q	132	6	44	0
327211	Flat Glass	25	3	0	*	21	*	0	0	1	0
327212	Other Pressed and Blown Glass and Glassware	23	6	0	*	17	*	0	0	*	0
327213	Glass Containers	22	5	0	*	18	*	0	0	*	0
327215	Glass Products from Purchased Glass	52	4	0	*	Q	*	0	0	*	0
327310	Cements	144	15	*	2	6	*	99	2	20	0

**Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006;**  
**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)
327410	Lime	48	2	0	*	3	*	30	3	10	0
327420	Gypsum	35	3	0	*	32	*	0	0	*	0
327993	Mineral Wool	17	5	0	*	11	*	0	1	*	0
331	Primary Metals	488 <sup>r</sup>	200	4	3	185	1	69	34	15 <sup>r</sup>	23
331111	Iron and Steel Mills	219	68	4	1	77	*	61	29	2	23
331112	Electrometallurgical Ferroalloy Products	7	4	0	*	*	0	3	0	*	0
3312	Steel Products from Purchased Steel	11	5	0	*	5	*	*	*	*	0
3313	Alumina and Aluminum	184 <sup>r</sup>	95	0	*	77	1	*	0	11 <sup>r</sup>	0
331314	Secondary Smelting and Alloying of Aluminum	7	1	0	*	6	*	*	0	*	0
331315	Aluminum Sheet, Plate and Foils	26	6	0	*	20	*	0	0	*	0
331316	Aluminum Extruded Products	9	2	0	*	6	1	0	0	*	0
3314	Nonferrous Metals, except Aluminum	26	12	0	*	8	*	5	*	1	0
3315	Foundries	42	16	0	1	17	*	1	5	*	*
331511	Iron Foundries	22	9	0	1	7	*	0	5	*	*
331521	Aluminum Die-Casting Foundries	4	1	0	*	3	*	0	0	*	0
331524	Aluminum Foundries, except Die-Casting	4	1	0	*	3	*	0	0	*	0
332	Fabricated Metal Products	124	48	*	1	73	2	0	0	*	0
333	Machinery	47	25	0	*	21	Q	0	0	*	0
334	Computer and Electronic Products	36	26	0	*	9	*	0	0	*	0
334413	Semiconductors and Related Devices	16	11	0	*	4	*	0	0	*	0
335	Electrical Equip., Appliances, and Components	62	22	0	*	24	*	*	0	20	5
336	Transportation Equipment	102	53	3	1	39	1	1	0	4	0
336111	Automobiles	12	5	*	*	5	*	*	0	1	0
336112	Light Trucks and Utility Vehicles	16	7	*	*	9	*	0	0	1	0
3364	Aerospace Product and Parts	26	14	*	*	9	*	*	0	2	0
336411	Aircraft	9	5	*	*	3	*	0	0	*	0
337	Furniture and Related Products	30	17	0	Q	4	*	Q	0	6	0
339	Miscellaneous	19	9	0	*	9	*	0	0	*	0
	Total	12,424 <sup>r</sup>	1,267	187	52	3,117 <sup>r</sup>	2,206 <sup>r</sup>	513	41	5,524 <sup>r</sup>	482 <sup>r</sup>

## West Census Region

311	Food	210	45	1	7	135	1	15	*	6	0
3112	Grain and Oilseed Milling	8	2	0	*	5	*	0	0	1	0
311221	Wet Corn Milling	2	*	0	*	1	*	0	0	1	0
31131	Sugar Manufacturing	22	1	0	*	2	*	15	*	3	0
3114	Fruit and Vegetable Preserving and Specialty Food	63	13	1	*	47	*	0	0	1	0
3115	Dairy Product	52	13	0	*	39	*	0	0	*	0
3116	Animal Slaughtering and Processing	22	5	0	Q	15	*	0	0	*	0
312	Beverage and Tobacco Products	28	7	0	*	9	1	7	0	4	0
3121	Beverages	28	7	0	*	9	1	7	0	4	0
3122	Tobacco	0	0	0	0	0	0	0	0	0	0
313	Textile Mills	Q	*	0	0	Q	*	0	0	0	0
314	Textile Product Mills	2	*	0	0	1	*	*	0	0	0
315	Apparel	1	1	0	0	*	0	0	0	0	0
316	Leather and Allied Products	1	*	0	*	*	*	0	0	*	0
321	Wood Products	95	18	3	5	18	1	0	0	50	0
321113	Sawmills	64	8	*	4	Q	*	0	0	43	0
3212	Veneer, Plywood, and Engineered Woods	17	7	0	*	7	1	0	0	3	0
3219	Other Wood Products	10	3	*	*	2	*	0	0	4 <sup>r</sup>	0
322	Paper	287	54	5	3	84	1	14	0	125	0
322110	Pulp Mills	W	W	*	*	W	*	0	0	9	0
322121	Paper Mills, except Newsprint	83	9	3	*	26	*	0	0	44	0
322122	Newsprint Mills	47	17	*	*	8	*	13	0	9	0
322130	Paperboard Mills	129	21	1	2	39	*	1	0	64	0
323	Printing and Related Support	5	3	0	0	2	*	0	0	0	0
324	Petroleum and Coal Products	1,139	22	8	8	190	12	19	0	893	13
324110	Petroleum Refineries	1,086	21	7	5	171	12	0	0	870	0
324199	Other Petroleum and Coal Products	27	-1	0	*	*	*	19	0	21	13
325	Chemicals	113	32	*	*	48	*	24	3	7	*
325110	Petrochemicals	*	*	0	0	*	*	0	0	0	0
325120	Industrial Gases	9	7	0	0	2	0	0	0	0	*
325181	Alkalies and Chlorine	25	5	0	*	12	*	7	0	1	0
325182	Carbon Black	*	*	0	0	*	*	0	0	0	0
325188	Other Basic Inorganic Chemicals	42	10	*	*	11	*	16	3	2	*
325192	Cyclic Crudes and Intermediates	*	*	0	0	*	*	0	0	0	0
325193	Ethyl Alcohol	3	*	0	*	1	*	0	0	1	0
325199	Other Basic Organic Chemicals	4	1	0	*	2	*	0	0	1	0
325211	Plastics Materials and Resins	2	1	0	*	1	*	0	0	0	0
325212	Synthetic Rubber	*	*	0	0	*	*	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	8	1	0	*	8	*	0	0	*	0
325312	Phosphatic Fertilizers	W	1	0	*	W	*	0	0	*	0
3254	Pharmaceuticals and Medicines	8	3	0	*	4	*	0	0	*	0
325412	Pharmaceutical Preparation	5	2	0	*	3	*	0	0	*	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	1	0	*	W	*	0	0	0	0

**Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006;**  
**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)
326	Plastics and Rubber Products	18	13	0	*	4	Q	0	0	*	0
327	Nonmetallic Mineral Products	182	22	2	Q	58	*	66	2	25	0
327211	Flat Glass	8	1	1	*	6	*	0	0	*	0
327212	Other Pressed and Blown Glass and Glassware	1	*	0	*	1	*	0	0	*	0
327213	Glass Containers	14	3	0	*	11	*	0	0	*	0
327215	Glass Products from Purchased Glass	1	1	0	*	*	*	0	0	*	0
327310	Cements	89	10	0	1	4	*	54	2	18	0
327410	Lime	18	1	*	*	22	*	12	0	4	0
327420	Gypsum	26	1	0	*	*	*	0	0	2	0
327993	Mineral Wool	5	2	0	*	3	*	0	0	*	0
331	Primary Metals	103 <sup>r</sup>	41	0	1	46	*	*	2	13 <sup>r</sup>	*
331111	Iron and Steel Mills	33	11	0	*	18	*	*	1	2	0
331112	Electrometallurgical Ferroalloy Products	*	*	0	*	*	*	0	0	0	0
3312	Steel Products from Purchased Steel	1	1	0	*	1	*	0	0	*	0
3313	Alumina and Aluminum	33 <sup>r</sup>	14	0	*	8	*	0	0	11 <sup>r</sup>	0
331314	Secondary Smelting and Alloying of Aluminum	2	*	0	*	2	*	0	0	*	0
331315	Aluminum Sheet, Plate and Foils	3	1	0	*	2	*	0	0	*	0
331316	Aluminum Extruded Products	4	1	0	*	3	*	0	0	0	0
3314	Nonferrous Metals, except Aluminum	26	12	0	*	14	*	0	0	*	0
3315	Foundries	9	3	0	*	5	*	0	1	*	*
331511	Iron Foundries	2	*	0	*	1	*	0	1	*	*
331521	Aluminum Die-Casting Foundries	1	*	0	*	0	*	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	1	*	0	*	1	*	0	0	*	0
332	Fabricated Metal Products	35	18	0	Q	16	*	0	0	*	0
333	Machinery	7	5	0	*	2	*	0	0	*	0
334	Computer and Electronic Products	54	36	0	*	17	*	0	0	1	0
334413	Semiconductors and Related Devices	33	22	0	*	9	*	0	0	1	0
335	Electrical Equip., Appliances, and Components	5	2	0	*	Q	*	0	0	*	0
336	Transportation Equipment	36	18	0	Q	17	1	0	0	*	0
336111	Automobiles	2	1	0	*	1	*	0	0	*	0
336112	Light Trucks and Utility Vehicles	*	*	0	*	*	0	0	0	0	0
3364	Aerospace Product and Parts	26	14	0	*	11	*	0	0	*	0
336411	Aircraft	6	3	0	*	2	*	0	0	*	0
337	Furniture and Related Products	2	2	0	*	0	1 <sup>r</sup>	*	0	*	0
339	Miscellaneous	7	6	0	*	2	*	0	0	*	0
	Total	2,334 <sup>r</sup>	344	18	32	656	19	146	7	1,124 <sup>r</sup>	13

(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).<sup>1</sup>

(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 1.

(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

**Table 1.2 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006;**  
**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)
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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.

O=Withheld because Relative Standard Error is greater than 50 percent.

R=Revised estimates.

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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006.

**Table 1.3 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006;**

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)
<b>Total United States</b>										
<b>Value of Shipments and Receipts (million dollars)</b>										
Under 20	1,166	367	23	48	540	15	41	3	140	12
20-49	1,209	333	20	26	550	8	104	5	182	20
50-99	1,507	349	51	19	575	98	190	9	256	40
100-249	2,651	607	53	20	1,091	23	310	53	566	73
250-499	2,362	413	52	13	754	158	247	9	732	16
500 and Over	8,805	781	115	17	2,400	2,074	541	193	3,169	485
Not Ascertained (i)	3,399	0	0	0	0	0	0	0	3,399	0
<b>Total</b>	<b>21,098</b>	<b>2,851</b>	<b>314</b>	<b>143</b>	<b>5,911</b>	<b>2,376</b>	<b>1,433</b>	<b>272</b>	<b>8,443</b>	<b>645</b>
<b>Employment Size</b>										
Under 50	1,216	334	13	55	598	25	51	1	179	39
50-99	1,318	233	60	16	617	151	91	3	196	49
100-249	3,300	656	56	30	1,100	535	360	51	604	91
250-499	3,960	593	44	20	1,207	877	290	15	1,125	212
500-999	4,260	568	58	12	1,212	251	186	13	2,095	133
1000 and Over	3,645	467	83	12	1,177	537	455	190	844	121
Not Ascertained (i)	3,399	0	0	0	0	0	0	0	3,399	0
<b>Total</b>	<b>21,098</b>	<b>2,851</b>	<b>314</b>	<b>143</b>	<b>5,911</b>	<b>2,376</b>	<b>1,433</b>	<b>272</b>	<b>8,443</b>	<b>645</b>
<b>Northeast Census Region</b>										
<b>Value of Shipments and Receipts (million dollars)</b>										
Under 20	160	55	8	13	65	2	*	1	17	0
20-49	227	46	7	4	88	2	19	*	Q	*
50-99	147	43	16	1	59	Q	14	0	11	Q
100-249	242	64	6	2	114	1	24	4	28	0
250-499	150	32	9	2	36	8	15	3	44	0
500 and Over	468	65	17	2	134	6	148	0	186	90
Not Ascertained (i)	276	0	0	0	0	0	0	0	276	0
<b>Total</b>	<b>1,670</b>	<b>306</b>	<b>64</b>	<b>24</b>	<b>495</b>	<b>21</b>	<b>220</b>	<b>7</b>	<b>622</b>	<b>91</b>
<b>Employment Size</b>										
Under 50	121	42	6	13	51	1	2	*	5	0
50-99	168	33	4	2	62	9	6	*	Q	0
100-249	287	77	16	4	112	4	41	2	32	Q
250-499	222	56	13	2	77	1	11	1	62	0
500-999	345	47	17	2	115	6	12	5	141	0
1000 and Over	251	52	8	1	79	*	148	0	54	90
Not Ascertained (i)	276	0	0	0	0	0	0	0	276	0
<b>Total</b>	<b>1,670</b>	<b>306</b>	<b>64</b>	<b>24</b>	<b>495</b>	<b>21</b>	<b>220</b>	<b>7</b>	<b>622</b>	<b>91</b>
<b>Midwest Census Region</b>										
<b>Value of Shipments and Receipts (million dollars)</b>										
Under 20	450	132	Q	Q	253	4	3	1	Q	0
20-49	369	106	7	Q	180	2	33	2	41	9
50-99	466	132	5	8	W	W	49	3	39	5
100-249	816	240	5	3	367	8	86	43	87	Q
250-499	442	100	1	2	W	W	115	4	67	*
500 and Over	1,647	223	21	4	W	W	268	162	418	22
Not Ascertained (i)	481	0	0	0	0	0	0	0	481	0
<b>Total</b>	<b>4,671</b>	<b>934</b>	<b>45</b>	<b>36</b>	<b>1,643</b>	<b>130</b>	<b>554</b>	<b>217</b>	<b>1,172</b>	<b>60</b>
<b>Employment Size</b>										
Under 50	452	130	4	Q	246	2	10	1	Q	9

**Table 1.3 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006;**

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)
50-99	349	76	12	2	210	3	26	1	23	0
100-249	879	233	4	9	W	W	152	42	138	0
250-499	846	176	2	2	W	W	133	8	141	*
500-999	702	169	4	2	244	5	44	4	231	0
1000 and Over	963	150	19	3	352	1	189	162	109	22
Not Ascertained (i)	481	0	0	0	0	0	0	0	481	0
Total	4,671	934	45	36	1,643	130	554	217	1,172	60

**South Census Region****Value of Shipments and Receipts (million dollars)**

Under 20	391	130	5	16	164	6	8	1	Q	8
20-49	448	137	5	9	209	3	30	3	54	1
50-99	718	138	28	6	W	W	97	3	163	34
100-249	1,265	230	38	9	481	14	154	3	387	50
250-499	1,479	203	40	6	W	W	106	1	523	16
500 and Over	5,825	428	71	6	W	W	117	30	2,031	373
Not Ascertained (i)	2,298	0	0	0	0	0	0	0	2,298	0
Total	12,424	1,267	187	52	3,117	2,206	513	41	5,524	482

**West Census Region****Value of Shipments and Receipts (million dollars)**

Under 20	164	50	3	7	59	3	29	0	16	3
20-49	165	44	Q	Q	73	2	23	0	26	10
50-99	177	35	2	4	60	1	29	2	43	*
100-249	327	73	4	6	129	1	47	4	64	0
250-499	291	77	2	4	99	1	11	1	98	0
500 and Over	865	64	7	5	236	12	8	0	533	0
Not Ascertained (i)	344	0	0	0	0	0	0	0	344	0
Total	2,334	344	18	32	656	19	146	7	1,124	13

**Employment Size**

Under 50	166	42	1	7	63	2	30	0	35	13
50-99	124	32	2	Q	58	1	8	0	17	0
100-249	412	75	8	6	133	8	50	2	130	0
250-499	535	92	6	7	181	3	34	4	208	*
500-999	446	56	1	2	134	1	17	1	234	0
1000 and Over	306	48	*	3	86	4	7	0	157	0
Not Ascertained (i)	344	0	0	0	0	0	0	0	344	0
Total	2,334	344	18	32	656	19	146	7	1,124	13

(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

**Table 1.3 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006**

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)**

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) 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.

W-Withheld to avoid disclosing data for individual establishments.  
Q-Withheld because Relative Standard Error is greater than 50 percent.

Q=Withdrawn because  
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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006, and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 1.4 Number of Establishments by First Use of Energy for All Purposes (Fuel and Nonfuel), 2006:**

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)
<b>Total United States</b>											
311	Food	14,128	14,113	326	1,475	11,399	2,947	67	15	1,210	W
3112	Grain and Oilseed Milling	580	580	15	183	449	269	35	0	148	W
311221	Wet Corn Milling	47	47	W	17	44	19	18	0	18	0
31131	Sugar Manufacturing	78	78	11	45	61	35	26	15	45	0
3114	Fruit and Vegetable Preserving and Specialty Food	1,125	1,125	13	112	961	352	W	0	127	0
3115	Dairy Product	1,044	1,044	25	88	941	147	W	0	96	0
3116	Animal Slaughtering and Processing	1,715	1,715	45	394	1,542	352	0	0	209	0
312	Beverage and Tobacco Products	1,830	1,830	15	348	957	790	17	0	186	0
3121	Beverages	1,758	1,758	8	319	900	758	10	0	176	0
3122	Tobacco	72	72	7	30	57	33	7	0	10	0
313	Textile Mills	1,966	1,966	116	179	1,532	630	51	0	193	0
314	Textile Product Mills	3,332	3,332	23	106	1,925	687	Q	0	178	0
315	Apparel	5,567	5,499	W	Q	2,977	360	0	0	Q	0
316	Leather and Allied Products	687	687	3	Q	392	57	0	0	Q	0
321	Wood Products	10,785	10,777	105	3,311	4,328	4,490	Q	W	2,289	0
321113	Sawmills	2,282	2,274	10	1,241	432	535	0	0	712	0
3212	Veneer, Plywood, and Engineered Woods	1,462	1,462	3	385	806	684	Q	0	258	0
3219	Other Wood Products	6,688	6,688	86	1,481	2,908	3,178	W	W	1,205	0
322	Paper	3,957	3,928	206	415	3,215	2,039	107	0	489	0
322110	Pulp Mills	32	32	12	21	27	14	W	0	25	0
322121	Paper Mills, except Newsprint	288	288	87	116	241	182	59	0	142	0
322122	Newsprint Mills	20	20	3	11	14	12	3	0	11	0
322130	Paperboard Mills	200	200	60	111	176	124	38	0	93	0
323	Printing and Related Support	18,917	18,830	Q	335	12,825	2,263	0	0	378	0
324	Petroleum and Coal Products	1,813	1,813	98	864	996	467	10	W	475	40
324110	Petroleum Refineries	209	209	31	95	200	96	W	0	180	0
324199	Other Petroleum and Coal Products	48	48	0	21	41	13	7	W	21	11
325	Chemicals	8,623	8,621	103	1,609	6,441	2,368	65	W	1,090	77
325110	Petrochemicals	45	45	W	15	37	28	0	0	18	13
325120	Industrial Gases	560	560	0	9	255	36	0	0	65	W
325181	Alkalies and Chlorine	32	32	0	20	26	12	4	0	23	0
325182	Carbon Black	24	24	14	7	24	7	0	0	7	0
325188	Other Basic Inorganic Chemicals	473	473	10	151	328	197	6	W	123	W
325192	Cyclic Crudes and Intermediates	25	25	0	9	24	7	W	0	11	W
325193	Ethyl Alcohol	65	65	0	28	64	15	7	0	15	0
325199	Other Basic Organic Chemicals	488	488	16	163	426	205	9	0	145	11
325211	Plastics Materials and Resins	558	557	5	181	511	256	5	W	137	10
325212	Synthetic Rubber	92	92	W	21	70	36	W	0	15	0
325222	Noncellulosic Organic Fibers	77	77	13	27	63	32	8	0	27	W
325311	Nitrogenous Fertilizers	65	65	0	21	47	23	0	0	21	0
325312	Phosphatic Fertilizers	32	32	W	20	25	11	W	0	23	0
3254	Pharmaceuticals and Medicines	1,123	1,123	24	272	879	157	10	0	86	0
325412	Pharmaceutical Preparation	580	580	16	156	452	90	8	0	56	0
325992	Photographic Film, Paper, Plate, and Chemicals	143	143	W	16	107	33	W	0	Q	0
326	Plastics and Rubber Products	9,823	9,823	92	676	7,669	3,474	W	0	809	0
327	Nonmetallic Mineral Products	11,914	11,914	104	3,607	6,450	3,240	195	18	1,850	0
327211	Flat Glass	42	42	W	29	41	28	W	0	25	0
327212	Other Pressed and Blown Glass and Glassware	157	157	0	38	113	98	0	0	37	0
327213	Glass Containers	55	55	0	26	55	29	0	0	22	0
327215	Glass Products from Purchased Glass	768	768	0	94	496	309	Q	0	100	0
327310	Cements	188	188	6	85	93	36	81	3	76	0
327410	Lime	62	62	W	51	40	27	46	5	45	0
327420	Gypsum	145	145	W	61	112	95	0	0	35	0
327993	Mineral Wool	188	188	0	35	156	95	0	10	22	0
331	Primary Metals	3,290	3,271	31	921	2,920	1,638	56	107	898	W
331111	Iron and Steel Mills	348	347	9	145	300	135	37	31	151	17
331112	Electrometallurgical Ferroalloy Products	18	18	0	14	18	9	7	W	14	0
3312	Steel Products from Purchased Steel	446	446	0	113	394	210	W	W	125	0
3313	Alumina and Aluminum	384	384	5	109	362	198	W	0	95	0
331314	Secondary Smelting and Alloying of Aluminum	97	97	W	40	90	43	W	0	21	0
331315	Aluminum Sheet, Plate and Foils	56	56	0	23	54	30	0	0	15	0
331316	Aluminum Extruded Products	150	150	W	22	142	80	0	0	40	0
3314	Nonferrous Metals, except Aluminum	574	574	W	168	453	267	6	11	204	0

**Table 1.4 Number of Establishments by First Use of Energy for All Purposes (Fuel and Nonfuel), 2006:**

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)
3315	Foundries	1,520	1,503	W	372	1,393	819	W	57	310	W
331511	Iron Foundries	379	379	W	185	333	219	0	57	106	W
331521	Aluminum Die-Casting Foundries	185	185	0	5	172	62	0	0	32	0
331524	Aluminum Foundries, except Die-Casting	309	309	W	47	279	158	0	0	59	0
332	Fabricated Metal Products	35,520	35,520	Q	3,377	25,150	13,695	0	W	5,474	0
333	Machinery	16,296	16,296	W	1,720	12,891	4,894	W	0	1,911	0
334	Computer and Electronic Products	8,188	8,188	7	573	5,323	992	0	0	471	0
334413	Semiconductors and Related Devices	522	522	W	104	462	45	0	0	70	0
335	Electrical Equip., Appliances, and Components	3,596	3,596	0	299	2,818	980	W	0	379	W
336	Transportation Equipment	7,024	7,024	111	1,136	5,434	2,854	13	W	1,450	0
336111	Automobiles	77	77	W	23	68	42	4	0	30	0
336112	Light Trucks and Utility Vehicles	47	47	W	27	42	18	W	0	28	0
3364	Aerospace Product and Parts	910	910	Q	70	671	437	W	0	230	0
336411	Aircraft	105	105	W	24	78	38	0	0	18	0
337	Furniture and Related Products	11,545	11,368	Q	879	6,753	3,139	29	0	1,122	0
339	Miscellaneous	15,702	15,702	Q	704	9,609	3,097	0	0	1,059	0
	Total	194,504	194,099	2,013	22,654	132,003	55,101	738	160	22,069	140

(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 2006.

(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 nonenergetic 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

**Table 1.4 Number of Establishments by First Use of Energy for All Purposes (Fuel and Nonfuel), 2006:**

### **Level: National Data;**

Row: NAICS Codes; Column: Energy Sources and Shipments;  
Unit: Establishment Counts.

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.

**Table 1.5 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006;**

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
	Total United States
Coal	1,433
Natural Gas	5,911
Net Electricity	2,851
Purchases	2,894
Transfers In	20
Onsite Generation from Noncombustible Renewable Energy	4
Sales and Transfers Offsite	67
Coke and Breeze	272
Residual Fuel Oil	314
Distillate Fuel Oil	143
Liquefied Petroleum Gases and Natural Gas Liquids	2,376
Other	8,443
Asphalt and Road Oil (a)	1,259
Lubricants (a)	436
Naphtha < 401 Degrees (a)	608
Other Oils $\geq$ 401 Degrees (a)	815
Special Naphthas (a)	96
Waxes (a)	37
Miscellaneous Nonfuel Products (a)	148
Kerosene	30
Motor Gasoline	7
Crude Oil for Fuel	0
Petroleum Coke	834
Still Gas/Waste Gas	1,551
Pulping Liquor or Black Liquor	850
Biomass Total	631
Agricultural Waste	22
Wood Harvested Directly from Trees	96
Wood Residues and Byproducts from Mill Processing	495
Wood-Related and Paper-Related Refuse	17
Net Steam/Hot Water	855
Miscellaneous	287
Shipments of Energy Sources Produced Onsite (b)	645
Total (c)	21,098

(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.

(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

**Table 1.5 First Use of Energy for All Purposes (Fuel and Nonfuel), 2006;**

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
---------------	--------------------

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, '2006 Manufacturing Energy Consumption Survey.'

**Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**  
**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)
<b>Total United States</b>									
311	Food	3	0	*	2	*	0	*	*
3112	Grain and Oilseed Milling	3	0	*	2	*	0	0	*
311221	Wet Corn Milling	*	0	0	0	0	0	0	*
31131	Sugar Manufacturing	*	0	*	0	*	0	*	0
3114	Fruit and Vegetable Preserving and Specialty Food	*	0	0	0	*	0	0	0
3115	Dairy Product	*	0	*	*	0	0	0	*
3116	Animal Slaughtering and Processing	*	0	*	*	0	0	0	*
312	Beverage and Tobacco Products	*	0	*	0	*	0	0	0
3121	Beverages	*	0	*	0	0	0	0	0
3122	Tobacco	*	0	0	0	*	0	0	0
313	Textile Mills	0	0	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	7	*	1	*	*	0	0	*
321113	Sawmills	Q	*	*	0	*	0	0	*
3212	Veneer, Plywood, and Engineered Woods	*	0	*	*	*	0	0	*
3219	Other Wood Products	Q	0	Q	0	*	0	0	*
322	Paper	1	0	*	0	*	0	0	*
322110	Pulp Mills	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	*	0	*	0	*	0	0	*
322122	Newsprint Mills	*	0	*	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	3,572	0	Q	0	*	2	*	3,512
324110	Petroleum Refineries	3,399	0	0	0	0	0	0	3,399
324199	Other Petroleum and Coal Products	164	0	*	0	0	2	*	113
325	Chemicals	2,812 <sup>R</sup>	10	*	342 <sup>R</sup>	644 <sup>R</sup>	1	*	81
325110	Petrochemicals	W	0	*	W	0	0	0	1
325120	Industrial Gases	49	0	0	47	*	0	0	*
325181	Alkalies and Chlorine	1	0	*	*	0	0	0	*
325182	Carbon Black	72 <sup>R</sup>	10	0	8 <sup>R</sup>	0	0	0	0
325188	Other Basic Inorganic Chemicals	28	0	*	10	2	0	*	6
325192	Cyclic Crudes and Intermediates	1	0	0	*	0	*	0	*
325193	Ethyl Alcohol	3	0	*	2	*	0	0	1
325199	Other Basic Organic Chemicals	W	0	*	72	W	1	0	36
325211	Plastics Materials and Resins	1,198	*	*	11	329	0	0	7
325212	Synthetic Rubber	*	0	0	*	*	0	0	*
325222	Noncellulosic Organic Fibers	12	0	0	7	*	0	0	6
325311	Nitrogenous Fertilizers	177	0	*	171	*	0	0	*
325312	Phosphatic Fertilizers	8	*	*	8	0	0	0	0
3254	Pharmaceuticals and Medicines	1	0	*	*	*	0	0	*
325412	Pharmaceutical Preparation	*	0	*	*	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	0	*	*	0	0	0
326	Plastics and Rubber Products	Q	0	*	Q	0	0	0	0
327	Nonmetallic Mineral Products	12	0	*	1	*	*	0	12
327211	Flat Glass	8	0	0	0	*	0	0	8
327212	Other Pressed and Blown Glass and Glassware	Q	0	*	0	*	0	0	Q
327213	Glass Containers	*	0	0	0	0	0	0	*
327215	Glass Products from Purchased Glass	*	0	0	*	*	0	0	*
327310	Cements	*	0	*	0	0	0	0	*
327410	Lime	*	0	*	0	*	0	0	*
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	*	*	*	0	0	*
331	Primary Metals	529 <sup>R</sup>	*	*	41	*	16	2	82 <sup>R</sup>
331111	Iron and Steel Mills	431	0	*	31	*	16	2	9
331112	Electrometallurgical Ferroalloy Products	5	0	0	*	0	*	*	*
3312	Steel Products from Purchased Steel	12	0	0	1	*	*	*	12
3313	Alumina and Aluminum	35 <sup>R</sup>	*	*	9	*	0	0	26 <sup>R</sup>

**Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**  
**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)
331314	Secondary Smelting and Alloying of Aluminum		*	0	0	0	*	0	*
331315	Aluminum Sheet, Plate and Foils		*	0	*	0	0	0	*
331316	Aluminum Extruded Products		*	*	*	*	0	0	*
3314	Nonferrous Metals, except Aluminum	Q	0	0	*	*	*	*	Q
3315	Foundries	5	0	*	*	*	*	*	1
331511	Iron Foundries	4	0	*	*	*	0	*	1
331521	Aluminum Die-Casting Foundries	*	0	0	0	*	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	0	0	*	*	0	0	*
332	Fabricated Metal Products	1	0	*	*	*	0	0	*
333	Machinery	*	0	*	0	0	0	0	*
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	21	0	*	*	*	*	0	20
336	Transportation Equipment	2	0	*	*	*	0	0	1
336111	Automobiles	*	0	0	0	*	0	0	*
336112	Light Trucks and Utility Vehicles	*	0	*	0	*	0	0	*
3364	Aerospace Product and Parts	1	0	0	0	*	0	0	*
336411	Aircraft	*	0	0	0	0	0	0	*
337	Furniture and Related Products	*	0	0	0	0	0	0	*
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	6,962 <sup>R</sup>	10	3	387 <sup>R</sup>	645 <sup>R</sup>	19	2	3,711 <sup>R</sup>

**Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2006;****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)
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	*	0	*	*	*	0	0	*
325412	Pharmaceutical Preparation	*	0	0	*	0	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	0	*	0	0	0	0
326	Plastics and Rubber Products	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	8	0	*	0	*	0	0	8
327211	Flat Glass	8	0	0	0	*	0	0	8
327212	Other Pressed and Blown Glass and Glassware	*	0	*	0	*	0	0	*
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0
327310	Cements	*	0	*	0	0	0	0	0
327410	Lime	0	0	0	0	0	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	*	0	*	0	0	*
331	Primary Metals	185	0	0	1	*	6	*	Q
331111	Iron and Steel Mills	145	0	0	1	*	6	*	5
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	*	0	0	*	0	*	*	*
3313	Alumina and Aluminum	2	0	0	*	*	0	0	2
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	0	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	*	0	0	*	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	Q	0	0	0	*	0	*	Q
3315	Foundries	1	0	0	*	*	0	*	*
331511	Iron Foundries	1	0	0	0	*	0	*	*
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	*	0	*	*	*	0	0	*
333	Machinery	0	0	0	0	0	0	0	0
334	Computer and Electronic Products	*	0	*	0	0	0	0	*
334413	Semiconductors and Related Devices	*	0	*	0	0	0	0	*
335	Electrical Equip., Appliances, and Components	*	0	0	0	*	0	0	0
336	Transportation Equipment	*	0	0	0	*	0	0	*
336111	Automobiles	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	0	0	0	*	0	0	*
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	485	0	*	2	2	6	*	Q

311	Food	3	0	*	2	*	0	*	*
3112	Grain and Oilseed Milling	2	0	*	2	*	0	0	*
311221	Wet Corn Milling	*	0	0	0	0	0	0	*
31131	Sugar Manufacturing	*	0	0	0	0	0	*	0
3114	Fruit and Vegetable Preserving and Specialty Food	0	0	0	0	0	0	0	0
3115	Dairy Product	*	0	0	*	0	0	0	*
3116	Animal Slaughtering and Processing	*	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	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	Q	0	Q	0	*	0	0	*
321113	Sawmills	*	0	*	0	*	0	0	*
3212	Veneer, Plywood, and Engineered Woods	*	0	0	0	*	0	0	*

**Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2006;****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)
3219	Other Wood Products	Q	0	Q	0	*	0	0	*
322	Paper	*	0	0	0	*	0	0	*
322110	Pulp Mills	0	0	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	0	0
322130	Paperboard Mills	*	0	0	0	*	0	0	*
323	Printing and Related Support	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	499	0	Q	0	*	0	0	492
324110	Petroleum Refineries	481	0	0	0	0	0	0	481
324199	Other Petroleum and Coal Products	11	0	0	0	0	0	0	11
325	Chemicals	172	1	*	33	30	*	0	Q
325110	Petrochemicals	W	0	0	*	W	0	0	*
325120	Industrial Gases	4	0	0	4	0	0	0	*
325181	Alkalies and Chlorine	0	0	0	0	0	0	0	0
325182	Carbon Black	9	1	0	1	0	0	0	0
325188	Other Basic Inorganic Chemicals	9	0	*	1	2	0	0	*
325192	Cyclic Crudes and Intermediates	*	0	0	0	0	0	0	*
325193	Ethyl Alcohol	2	0	*	1	*	0	0	1
325199	Other Basic Organic Chemicals	1	0	*	1	*	0	0	*
325211	Plastics Materials and Resins	W	0	0	*	W	0	0	*
325212	Synthetic Rubber	*	0	0	*	0	0	0	*
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	25	0	0	24	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
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	0	0	0	0
326	Plastics and Rubber Products	*	0	*	0	0	0	0	0
327	Nonmetallic Mineral Products	Q	0	0	*	*	0	0	Q
327211	Flat Glass	*	0	0	0	0	0	0	*
327212	Other Pressed and Blown Glass and Glassware	Q	0	0	0	0	0	0	Q
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	*	0	0	*	*	0	0	*
327310	Cements	0	0	0	0	0	0	0	0
327410	Lime	0	0	0	0	0	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	0	*	*	0	0	0
331	Primary Metals	237	*	*	25	*	7	2	18
331111	Iron and Steel Mills	217	0	0	24	*	7	2	2
331112	Electrometallurgical Ferroalloy Products	2	0	0	*	0	*	*	*
3312	Steel Products from Purchased Steel	12	0	0	*	*	0	0	12
3313	Alumina and Aluminum	3	*	*	*	*	0	0	3
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	*	*	*	*	*	0	0	*
3314	Nonferrous Metals, except Aluminum	1	0	0	0	*	0	*	*
3315	Foundries	1	0	*	*	*	0	*	1
331511	Iron Foundries	1	0	0	0	*	0	0	1
331521	Aluminum Die-Casting Foundries	*	0	0	0	*	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	0	0	*	*	0	0	*
332	Fabricated Metal Products	*	0	0	0	*	0	0	*
333	Machinery	*	0	*	0	0	0	0	*
334	Computer and Electronic Products	*	0	0	0	0	0	0	*
334413	Semiconductors and Related Devices	*	0	0	0	0	0	0	*
335	Electrical Equip., Appliances, and Components	*	0	0	*	0	0	0	*
336	Transportation Equipment	1	0	*	*	*	0	0	*
336111	Automobiles	*	0	0	0	*	0	0	*
336112	Light Trucks and Utility Vehicles	*	0	0	0	0	0	0	*
3364	Aerospace Product and Parts	*	0	0	0	*	0	0	*
336411	Aircraft	*	0	0	0	0	0	0	*
337	Furniture and Related Products	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	918	1	Q	60	30	7	2	533

**Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**  
**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)
311	Food	*	0	*	*	0	0	0	0
3112	Grain and Oilseed Milling	*	0	0	*	0	0	0	0
311221	Wet Corn Milling	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	*	0	*	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	0	0	0	0	0	0	0	0
3115	Dairy Product	*	0	*	0	0	0	0	0
3116	Animal Slaughtering and Processing	*	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	0	0
3122	Tobacco	*	0	0	0	*	0	0	0
313	Textile Mills	0	0	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	3	*	*	*	*	0	0	*
321113	Sawmills	Q	*	*	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	*	0	*	0	*	0	0	*
322110	Pulp Mills	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	*	0	*	0	*	0	0	*
322122	Newsprint Mills	*	0	*	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	2,412	0	*	0	0	1	*	2,385
324110	Petroleum Refineries	2,298	0	0	0	0	0	0	2,298
324199	Other Petroleum and Coal Products	113	0	*	0	0	1	*	87
325	Chemicals	2,617 <sup>R</sup>	9	*	302 <sup>R</sup>	612 <sup>R</sup>	1	*	59
325110	Petrochemicals	W	0	*	0	W	0	0	1
325120	Industrial Gases	43	0	0	42	*	0	0	*
325181	Alkalies and Chlorine	*	0	0	*	0	0	0	0
325182	Carbon Black	62 <sup>R</sup>	9	0	7 <sup>R</sup>	0	0	0	0
325188	Other Basic Inorganic Chemicals	13	0	0	9	0	0	*	4
325192	Cyclic Crudes and Intermediates	*	0	0	*	0	*	0	*
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	W	0	*	71	W	1	0	36
325211	Plastics Materials and Resins	W	*	*	11	W	0	0	7
325212	Synthetic Rubber	*	0	0	0	*	0	0	*
325222	Noncellulosic Organic Fibers	12	0	0	7	*	0	0	6
325311	Nitrogenous Fertilizers	148	0	0	143	0	0	0	*
325312	Phosphatic Fertilizers	8	*	*	8	0	0	0	0
3254	Pharmaceuticals and Medicines	*	0	0	*	*	0	0	*
325412	Pharmaceutical Preparation	*	0	0	0	*	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	0	0	*	0	0	0
326	Plastics and Rubber Products	Q	0	0	Q	0	0	0	0
327	Nonmetallic Mineral Products	1	0	*	1	*	*	0	*
327211	Flat Glass	*	0	0	0	*	*	0	*
327212	Other Pressed and Blown Glass and Glassware	*	0	0	0	0	0	0	*
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	*	0	0	*	*	0	0	*
327310	Cements	0	0	0	0	0	0	0	0
327410	Lime	*	0	*	0	*	0	0	*
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	0	*	*	0	0	*
331	Primary Metals	91	0	*	15	*	3	*	12 <sup>R</sup>
331111	Iron and Steel Mills	68	0	*	7	*	3	*	2
331112	Electrometallurgical Ferroalloy Products	3	0	0	0	0	*	0	*
3312	Steel Products from Purchased Steel	*	0	0	*	0	*	*	*

**Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**  
**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)
3313	Alumina and Aluminum	19 <sup>R</sup>	0	0	8	*	0	0	10 <sup>R</sup>
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	0	0	0	0	0	*
331316	Aluminum Extruded Products	*	0	0	*	0	0	0	*
3314	Nonferrous Metals, except Aluminum	3	0	0	*	0	*	0	*
3315	Foundries	3	0	*	*	0	*	*	*
331511	Iron Foundries	2	0	*	*	0	0	*	0
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	*	0	0	0	*	0	0	*
333	Machinery	*	0	*	0	0	0	0	*
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	21	0	*	0	0	*	0	20
336	Transportation Equipment	Q	0	*	0	*	0	0	*
336111	Automobiles	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	*	0	*	0	*	0	0	*
3364	Aerospace Product and Parts	*	0	0	0	*	0	0	*
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	*	0	0	0	0	0	0	*
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	5,154 <sup>R</sup>	9	1	320 <sup>R</sup>	612 <sup>R</sup>	5	*	2,478 <sup>R</sup>

**Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**

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)
325211	Plastics Materials and Resins	0	0	0	0	0	0	0	0
325212	Synthetic Rubber	*	0	0	0	*	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	4	0	*	4	*	0	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	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	*	0	*	0	*	0	0	*
327211	Flat Glass	*	0	0	0	0	0	0	*
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0
327213	Glass Containers	*	0	0	0	0	0	0	*
327215	Glass Products from Purchased Glass	*	0	0	0	*	0	0	0
327310	Cements	*	0	0	0	0	0	0	*
327410	Lime	*	0	0	0	*	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	*	0	0	0	0	0
331	Primary Metals	12	0	0	*	*	*	*	11 <sup>R</sup>
331111	Iron and Steel Mills	1	0	0	0	0	*	*	*
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	*	0	0	0	*	0	0	*
3313	Alumina and Aluminum	11 <sup>R</sup>	0	0	0	*	0	0	11 <sup>R</sup>
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	0	0	0	0	*
331315	Aluminum Sheet, Plate and Foils	*	0	0	0	0	0	0	*
331316	Aluminum Extruded Products	*	0	0	0	*	0	0	0
3314	Nonferrous Metals, except Aluminum	*	0	0	*	*	0	0	*
3315	Foundries	*	0	0	*	*	0	*	*
331511	Iron Foundries	*	0	0	*	0	0	*	*
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	*	0	0	0	*	0	0	*
333	Machinery	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
336	Transportation Equipment	*	0	0	0	*	0	0	*
336111	Automobiles	*	0	0	0	0	0	0	*
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	0	0	0	*	0	0	*
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	405 <sup>R</sup>	0	*	6	*	1	*	374 <sup>R</sup>

(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' 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

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Next MECS will be conducted in 2010

**Table 2.1 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**

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)
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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.

R=Revised estimates.

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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006.

**Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2006;****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)
<b>Total United States</b>									
311	Food	3	0	*	2	*	0	*	*
3112	Grain and Oilseed Milling	3	0	*	2	*	0	0	*
311221	Wet Corn Milling	*	0	0	0	0	0	0	*
31131	Sugar Manufacturing	*	0	*	0	0	0	*	0
3114	Fruit and Vegetable Preserving and Specialty Food	*	0	0	0	*	0	0	0
3115	Dairy Product	*	0	*	*	0	0	0	*
3116	Animal Slaughtering and Processing	*	0	*	0	*	0	0	*
312	Beverage and Tobacco Products	*	0	*	0	*	0	0	0
3121	Beverages	*	0	*	0	0	0	0	0
3122	Tobacco	*	0	0	0	*	0	0	0
313	Textile Mills	0	0	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	7	*	6	*	*	0	0	*
321113	Sawmills	Q	*	Q	0	*	0	0	*
3212	Veneer, Plywood, and Engineered Woods	*	0	*	*	*	0	0	*
3219	Other Wood Products	Q	0	Q	0	*	0	0	*
322	Paper	1	0	*	0	*	0	0	*
322110	Pulp Mills	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	*	0	*	0	*	0	0	*
322122	Newsprint Mills	*	0	*	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	3,572	0	Q	0	*	49	1	3,512
324110	Petroleum Refineries	3,399	0	0	0	0	0	0	3,399
324199	Other Petroleum and Coal Products	164	0	*	0	0	49	1	113
325	Chemicals	2,812 <sup>R</sup>	64	1	352 <sup>R</sup>	2,297 <sup>R</sup>	15	3	81
325110	Petrochemicals	W	0	*	*	W	0	0	1
325120	Industrial Gases	49	0	0	49	*	0	0	*
325181	Alkalies and Chlorine	1	0	*	*	0	0	0	*
325182	Carbon Black	72 <sup>R</sup>	64	0	8 <sup>R</sup>	0	0	0	0
325188	Other Basic Inorganic Chemicals	28	0	*	11	8	0	3	6
325192	Cyclic Crudes and Intermediates	1	0	0	*	0	*	0	*
325193	Ethyl Alcohol	3	0	*	2	*	0	0	1
325199	Other Basic Organic Chemicals	W	0	*	74	W	13	0	36
325211	Plastics Materials and Resins	1,198	*	*	11	1,180	0	0	7
325212	Synthetic Rubber	*	0	0	*	*	0	0	*
325222	Noncellulosic Organic Fibers	12	0	0	7	*	0	0	6
325311	Nitrogenous Fertilizers	177	0	*	176	*	0	0	*
325312	Phosphatic Fertilizers	8	*	*	8	0	0	0	0
3254	Pharmaceuticals and Medicines	1	0	*	*	*	0	0	*
325412	Pharmaceutical Preparation	*	0	*	*	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	0	*	*	0	0	0
326	Plastics and Rubber Products	Q	0	*	Q	0	0	0	0
327	Nonmetallic Mineral Products	12	0	*	1	*	*	0	12
327211	Flat Glass	8	0	0	0	*	*	0	8
327212	Other Pressed and Blown Glass and Glassware	Q	0	*	0	*	0	0	Q
327213	Glass Containers	*	0	0	0	0	0	0	*
327215	Glass Products from Purchased Glass	*	0	0	*	*	0	0	*
327310	Cements	*	0	*	0	0	0	0	*
327410	Lime	*	0	*	0	*	0	0	*
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	*	*	*	0	0	*
331	Primary Metals	529 <sup>R</sup>	*	1	42	*	352	52	82 <sup>R</sup>
331111	Iron and Steel Mills	431	0	*	32	*	345	44	9
331112	Electrometallurgical Ferroalloy Products	5	0	0	*	0	3	2	*
3312	Steel Products from Purchased Steel	12	0	0	1	*	*	*	12
3313	Alumina and Aluminum	35 <sup>R</sup>	*	*	9	*	0	0	26 <sup>R</sup>
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	0	*	0	0	*

**Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**  
**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)
331315	Aluminum Sheet, Plate and Foils	*	0	0	*	0	0	0	0
331316	Aluminum Extruded Products	*	*	*	*	*	0	0	0
3314	Nonferrous Metals, except Aluminum	Q	0	0	*	*	3	3	0
3315	Foundries	5	0	1	*	*	1	3	3
331511	Iron Foundries	4	0	1	*	*	0	0	3
331521	Aluminum Die-Casting Foundries	*	0	0	0	*	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	0	0	*	*	0	0	0
332	Fabricated Metal Products	1	0	*	*	*	0	0	0
333	Machinery	*	0	*	0	0	0	0	0
334	Computer and Electronic Products	1	0	*	0	*	0	0	0
334413	Semiconductors and Related Devices	1	0	*	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	21	0	*	*	*	*	*	0
336	Transportation Equipment	2	0	*	*	1	0	0	0
336111	Automobiles	*	0	0	0	*	0	0	0
336112	Light Trucks and Utility Vehicles	*	0	*	0	*	0	0	0
3364	Aerospace Product and Parts	1	0	0	0	*	0	0	0
336411	Aircraft	*	0	0	0	0	0	0	0
337	Furniture and Related Products	*	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	6,962 <sup>R</sup>	64	17	398 <sup>R</sup>	2,299 <sup>R</sup>	417	56	3,71

## **Northeast Census Region**

**Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**  
**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)
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	*	0	*	*	*	0	0	0
325412	Pharmaceutical Preparation	*	0	0	*	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	0	*	0	0	0	0
326	Plastics and Rubber Products	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	8	0	*	0	*	0	0	0
327211	Flat Glass	8	0	0	0	*	0	0	0
327212	Other Pressed and Blown Glass and Glassware	*	0	*	0	*	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0
327310	Cements	*	0	*	0	0	0	0	0
327410	Lime	0	0	0	0	0	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	*	0	*	0	0	0
331	Primary Metals	185	0	0	1	*	139	3	*
331111	Iron and Steel Mills	145	0	0	1	*	139	*	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	*	0	0	*	0	*	0	0
3313	Alumina and Aluminum	2	0	0	*	*	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	0	*	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	0	*	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	Q	0	0	0	*	*	0	3
3315	Foundries	1	0	0	*	*	0	0	1
331511	Iron Foundries	1	0	0	0	*	0	0	1
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	*	0	*	*	*	0	0	0
333	Machinery	0	0	0	0	0	0	0	0
334	Computer and Electronic Products	*	0	*	0	0	0	0	0
334413	Semiconductors and Related Devices	*	0	*	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	*	0	0	0	*	0	0	0
336	Transportation Equipment	*	0	0	0	*	0	0	0
336111	Automobiles	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	0	0	0	*	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	485	0	Q	2	8	144	4	0

#### Midwest Census Region

311	Food	3	0	*	2	*	0	*
3112	Grain and Oilseed Milling	2	0	*	2	*	0	0
311221	Wet Corn Milling	*	0	0	0	0	0	0
31131	Sugar Manufacturing	*	0	0	0	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Food	0	0	0	0	0	0	0
3115	Dairy Product	*	0	0	*	0	0	0
3116	Animal Slaughtering and Processing	*	0	0	*	0	0	0
312	Beverage and Tobacco Products	*	0	*	0	0	0	0
3121	Beverages	*	0	*	0	0	0	0
3122	Tobacco	0	0	0	0	0	0	0
313	Textile Mills	0	0	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0
321	Wood Products	Q	0	Q	0	*	0	0
32113	Sawmills	*	0	*	0	*	0	0
3212	Veneer, Plywood, and Engineered Woods	*	0	0	0	*	0	0
3219	Other Wood Products	Q	0	Q	0	*	0	0
322	Paper	*	0	0	0	*	0	0
322110	Pulp Mills	0	0	0	0	0	0	0

**Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2006;****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)
322121	Paper Mills, except Newsprint	*	0	0	0	*	0	0	0
322122	Newsprint Mills	0	0	0	0	0	0	0	0
322130	Paperboard Mills	*	0	0	0	*	0	0	*
323	Printing and Related Support	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	499	0	Q	0	*	0	0	492
324110	Petroleum Refineries	481	0	0	0	0	0	0	481
324199	Other Petroleum and Coal Products	11	0	0	0	0	0	0	11
325	Chemicals	172	8	*	34	110	1	0	Q
325110	Petrochemicals	W	0	0	*	W	0	0	*
325120	Industrial Gases	4	0	0	4	0	0	0	*
325181	Alkalies and Chlorine	0	0	0	0	0	0	0	0
325182	Carbon Black	9	8	0	1	0	0	0	0
325188	Other Basic Inorganic Chemicals	9	0	*	1	8	0	0	*
325192	Cyclic Crudes and Intermediates	*	0	0	0	0	0	0	*
325193	Ethyl Alcohol	2	0	*	1	*	0	0	1
325199	Other Basic Organic Chemicals	1	0	*	1	*	0	0	*
325211	Plastics Materials and Resins	W	0	0	*	W	0	0	*
325212	Synthetic Rubber	*	0	0	*	0	0	0	*
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	25	0	0	25	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
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	0	0	0	0
326	Plastics and Rubber Products	*	0	*	0	0	0	0	0
327	Nonmetallic Mineral Products	Q	0	0	*	*	0	0	Q
327211	Flat Glass	*	0	0	0	0	0	0	*
327212	Other Pressed and Blown Glass and Glassware	Q	0	0	0	0	0	0	Q
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	*	0	0	*	*	0	0	*
327310	Cements	0	0	0	0	0	0	0	0
327410	Lime	0	0	0	0	0	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	0	*	*	0	0	0
331	Primary Metals	237	*	*	25	*	149	45	18
331111	Iron and Steel Mills	217	0	0	25	*	148	42	2
331112	Electrometallurgical Ferroalloy Products	2	0	0	*	0	*	2	*
3312	Steel Products from Purchased Steel	12	0	0	*	*	0	0	12
3313	Alumina and Aluminum	3	*	*	*	*	0	0	3
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	*	*	*	*	*	0	0	*
3314	Nonferrous Metals, except Aluminum	1	0	0	0	*	0	1	*
3315	Foundries	1	0	*	*	*	0	*	1
331511	Iron Foundries	1	0	0	*	0	0	*	1
331521	Aluminum Die-Casting Foundries	*	0	0	0	*	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	0	0	*	*	0	0	*
332	Fabricated Metal Products	*	0	0	0	*	0	0	*
333	Machinery	*	0	*	0	0	0	0	*
334	Computer and Electronic Products	*	0	0	0	0	0	0	*
334413	Semiconductors and Related Devices	*	0	0	0	0	0	0	*
335	Electrical Equip., Appliances, and Components	*	0	0	*	0	0	0	*
336	Transportation Equipment	1	0	*	*	*	0	0	*
336111	Automobiles	*	0	0	0	*	0	0	*
336112	Light Trucks and Utility Vehicles	*	0	0	0	0	0	0	*
3364	Aerospace Product and Parts	*	0	0	0	*	0	0	*
336411	Aircraft	*	0	0	0	0	0	0	*
337	Furniture and Related Products	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	918	8	Q	61	111	150	45	533

**Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2006;****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)
311	Food	*	0	*	*	0	0	0	0
3112	Grain and Oilseed Milling	*	0	0	*	0	0	0	0
311221	Wet Corn Milling	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	*	0	*	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	0	0	0	0	0	0	0	0
3115	Dairy Product	*	0	*	0	0	0	0	0
3116	Animal Slaughtering and Processing	*	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	0	0
3122	Tobacco	*	0	0	0	*	0	0	0
313	Textile Mills	0	0	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	3	*	3	*	*	0	0	*
321113	Sawmills	Q	*	Q	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	*	0	*	0	*	0	0	*
322110	Pulp Mills	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	*	0	*	0	*	0	0	*
322122	Newsprint Mills	*	0	*	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	2,412	0	Q	0	0	25	1	2,385
324110	Petroleum Refineries	2,298	0	0	0	0	0	0	2,298
324199	Other Petroleum and Coal Products	113	0	*	0	0	25	1	87
325	Chemicals	2,617 <sup>R</sup>	56	*	311 <sup>R</sup>	2,179 <sup>R</sup>	13	*	59
325110	Petrochemicals	W	0	*	0	W	0	0	1
325120	Industrial Gases	43	0	0	43	*	0	0	*
325181	Alkalies and Chlorine	*	0	0	*	0	0	0	0
325182	Carbon Black	62 <sup>R</sup>	56	0	7 <sup>R</sup>	0	0	0	0
325188	Other Basic Inorganic Chemicals	13	0	0	9	0	0	*	4
325192	Cyclic Crudes and Intermediates	*	0	0	*	0	*	0	*
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	W	0	*	73	W	13	0	36
325211	Plastics Materials and Resins	W	*	*	11	W	0	0	7
325212	Synthetic Rubber	*	0	0	0	*	0	0	*
325222	Noncellulosic Organic Fibers	12	0	0	7	*	0	0	6
325311	Nitrogenous Fertilizers	148	0	0	148	0	0	0	*
325312	Phosphatic Fertilizers	8	*	*	8	0	0	0	0
3254	Pharmaceuticals and Medicines	*	0	0	*	*	0	0	*
325412	Pharmaceutical Preparation	*	0	0	0	*	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	0	0	*	0	0	0
326	Plastics and Rubber Products	Q	0	0	Q	0	0	0	*
327	Nonmetallic Mineral Products	1	0	*	1	*	*	0	*
327211	Flat Glass	*	0	0	0	*	*	0	*
327212	Other Pressed and Blown Glass and Glassware	*	0	0	0	0	0	0	*
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	*	0	0	*	*	0	0	*
327310	Cements	0	0	0	0	0	0	0	0
327410	Lime	*	0	*	0	*	0	0	*
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	0	*	*	0	0	*
331	Primary Metals	96 <sup>R</sup>	0	1	16	*	64	3	12 <sup>R</sup>
331111	Iron and Steel Mills	68	0	*	7	*	58	2	2
331112	Electrometallurgical Ferroalloy Products	3	0	0	0	0	3	0	*
3312	Steel Products from Purchased Steel	*	0	0	*	0	*	*	*
3313	Alumina and Aluminum	19 <sup>R</sup>	0	0	9	*	0	0	10 <sup>R</sup>
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	0	0	0	0	0	*
331316	Aluminum Extruded Products	*	0	0	*	0	0	0	*
3314	Nonferrous Metals, except Aluminum	3	0	0	*	0	3	0	*

**Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**  
**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)
3315	Foundries	3	0	1	*	0	1	1	*
331511	Iron Foundries	2	0	1	*	0	0	1	0
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	*	0	0	0	*	0	0	*
333	Machinery	*	0	*	0	0	0	0	*
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	21	0	*	0	0	*	0	20
336	Transportation Equipment	Q	0	*	0	*	0	0	*
336111	Automobiles	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	*	0	*	0	*	0	0	*
3364	Aerospace Product and Parts	*	0	0	0	*	0	0	*
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	*	0	0	0	0	0	0	*
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	5,154 <sup>R</sup>	56	6	329 <sup>R</sup>	2,179 <sup>R</sup>	102	4	2,478 <sup>R</sup>

West Census Region

**Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2006;****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)
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	*	0	*	0	*	0	0	*
327211	Flat Glass	*	0	0	0	0	0	0	*
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0
327213	Glass Containers	*	0	0	0	0	0	0	*
327215	Glass Products from Purchased Glass	*	0	0	0	*	0	0	0
327310	Cements	*	0	0	0	0	0	0	*
327410	Lime	*	0	0	0	*	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	*	0	0	0	0	0
331	Primary Metals	12 <sup>R</sup>	0	0	*	*	*	1	11 <sup>R</sup>
331111	Iron and Steel Mills	1	0	0	0	0	*	1	*
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	*	0	0	0	*	0	0	*
3313	Alumina and Aluminum	11 <sup>R</sup>	0	0	0	*	0	0	11 <sup>R</sup>
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	0	0	0	0	*
331315	Aluminum Sheet, Plate and Foils	*	0	0	0	0	0	0	*
331316	Aluminum Extruded Products	*	0	0	0	*	0	0	0
3314	Nonferrous Metals, except Aluminum	*	0	0	*	*	0	0	*
3315	Foundries	*	0	0	*	*	0	*	*
331511	Iron Foundries	*	0	0	*	0	0	*	*
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	*	0	0	0	*	0	0	*
333	Machinery	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
336	Transportation Equipment	*	0	0	0	*	0	0	*
336111	Automobiles	*	0	0	0	0	0	0	*
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	0	0	0	*	0	0	*
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	405 <sup>R</sup>	0	*	7	*	20	4	374 <sup>R</sup>

(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' 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.

R=Revised estimates.

Originally Released: July 2009

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Next MECS will be conducted in 2010

**Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**

**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)
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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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006.

**Table 2.3 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**  
**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)
<b>Total United States</b>								
<b>Value of Shipments and Receipts (million dollars)</b>								
Under 20	47	0	3	5	Q	20	1	17
20-49	112	7	Q	20	1	12	1	64
50-99	247	29	Q	26	88	33	*	68
100-249	313	28	1	97	12	48	43	85
250-499	297	*	*	121	154	3	5	13
500 and Over	2,547	*	*	130	2,043	301	6	66
Not Ascertained (f)	3,399	0	0	0	0	0	0	3,399
<b>Total</b>	<b>6,262</b>	<b>64</b>	<b>17</b>	<b>202</b>	<b>3,200</b>	<b>417</b>	<b>5</b>	<b>3,711</b>

### Employment Size

Employment Size	161	4	Q	48	15	19	0	64
Under 50								
50-99	390	41	1	97	145	27	1	77
100-249	736	19	Q	76	512	22	39	65
250-499	1,058	*	1	72	862	46	8	69
500-999	330	*	1	59	235	3	7	25
1000 and Over	888	0	*	47	529	299	1	12
Not Ascertained (f)	3,399	0	0	0	0	0	0	3,399
Total	6,962	64	17	398	2,299	417	56	3,711

### **Northeast Census Region**

**Value of Shipments and Receipts  
(million dollars)**

(million dollars)	Q	0	Q	*	*	0	*	*
Under 20								
20-49	Q	0	*	*	*	12	*	*
50-99	1	0	*	1	*	0	0	*
100-249	1	0	*	0	*	0	1	*
250-499	11	0	*	*	8	0	3	*
500 and Over	139	0	0	0	*	132	0	7
Not Ascertained (f)	276	0	0	0	0	0	0	276
Total	485	0	Q	2	8	144	4	326

## Employment Size

Under 50	2	0	Q	*	*	0	0	*
50-99	Q	0	*	*	8	0	*	Q
100-249	22	0	*	1	*	12	*	8
250-499	1	0	*	*	*	0	1	*
500-999	5	0	*	0	*	0	3	2
1000 and Over	138	0	0	0	*	132	0	5
Not Ascertained (f)	276	0	0	0	0	0	0	276
Total	485	0	Q	2	8	144	4	326

## Midwest Census Region

**Table 2.3 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**

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)
<b>Value of Shipments and Receipts (million dollars)</b>								
Under 20								
20-49	37	4	Q	2	*	0	1	Q
50-99	29	4	Q	5	*	0	*	21
100-249	80	0	*	19	1	1	39	Q
250-499	14	0	*	W	W	*	2	*
500 and Over	270	0	*	W	W	146	3	5
Not Ascertained (f)	481	0	0	0	0	0	0	481
Total	918	8	Q	61	111	150	45	533
<b>Employment Size</b>								
Under 50	38	4	Q	13	*	0	0	14
50-99	27	4	*	18	*	2	1	Q
100-249	87	*	Q	W	W	1	39	30
250-499	108	0	*	W	W	0	3	2
500-999	7	0	*	*	*	*	2	4
1000 and Over	170	0	*	23	*	146	*	1
Not Ascertained (f)	481	0	0	0	0	0	0	481
Total	918	8	Q	61	111	150	45	533

**South Census Region**

Economic Characteristic(a)	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)
<b>Value of Shipments and Receipts (million dollars)</b>								
Under 20								
20-49	19	0	Q	Q	Q	1	0	13
50-99	19	3	2	14	*	0	0	*
100-249	199	25	*	W	W	30	0	50
250-499	218	28	1	74	11	46	1	57
500 and Over	265	*	*	W	W	3	*	7
Not Ascertained (f)	2,136	*	*	W	W	22	3	54
Total	2,298	0	0	0	0	0	0	2,298
	5,154	56	6	329	2,179	102	4	2,478

Economic Characteristic(a)	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)
<b>Value of Shipments and Receipts (million dollars)</b>								
Under 50								
50-99	84	0	Q	32	15	*	0	35
100-249	320	37	1	78	137	25	0	42
250-499	621	19	*	W	W	8	*	25
500-999	934	*	*	W	W	46	1	55
1000 and Over	317	*	1	59	235	3	2	18
Not Ascertained (f)	580	0	*	23	529	20	1	6
Total	2,298	0	0	0	0	0	0	2,298
	5,154	56	6	329	2,179	102	4	2,478

**West Census Region**

Economic Characteristic(a)	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)
<b>Value of Shipments and Receipts (million dollars)</b>								
Under 20								
Total	20	0	*	1	*	19	0	*

**Table 2.3 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**

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)
20-49	1	0	*	1	*	0	0	*
50-99	18	0	*	*	*	1	*	17
100-249	15	0	*	5	*	0	3	7
250-499	6	0	*	0	*	*	1	6
500 and Over	1	0	0	0	0	*	0	*
Not Ascertained (f)	344	0	0	0	0	0	0	344
Total	405	0	*	7	*	20	4	374
<b>Employment Size</b>								
Under 50	36	0	*	2	*	19	0	15
50-99	1	0	0	1	*	0	0	1
100-249	6	0	*	4	*	1	0	1
250-499	16	0	*	0	*	*	3	12
500-999	1	0	0	0	*	*	1	*
1000 and Over	*	0	0	0	0	0	0	*
Not Ascertained (f)	344	0	0	0	0	0	0	344
Total	405	0	*	7	*	20	4	374

(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 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

**Table 2.3 Nonfuel (Feedstock) Use of Combustible Energy, 2006;**

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)
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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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006, and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 2.4 Number of Establishments by Nonfuel (Feedstock) Use of Combustible Energy, 2006;**

Level: National Data;

Row: NAICS Codes; 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)
<b>Total United States</b>									
311	Food	183	0	105	38	Q	0	W	8
3112	Grain and Oilseed Milling	36	0	Q	13	W	0	0	6
311221	Wet Corn Milling	W	0	0	0	0	0	0	W
31131	Sugar Manufacturing	6	0	W	0	W	0	W	0
3114	Fruit and Vegetable Preserving and Specialty Food	Q	0	0	0	Q	0	0	0
3115	Dairy Product	Q	0	W	W	0	0	0	W
3116	Animal Slaughtering and Processing	Q	0	Q	W	0	0	0	W
312	Beverage and Tobacco Products	Q	0	W	0	0	0	0	0
3121	Beverages	W	0	W	0	0	0	0	0
3122	Tobacco	W	0	0	0	W	0	0	0
313	Textile Mills	0	0	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	459	W	69	W	233	0	0	169
321113	Sawmills	147	W	29	0	Q	0	0	64
3212	Veneer, Plywood, and Engineered Woods	62	0	Q	W	13	0	0	Q
3219	Other Wood Products	233	0	11	0	162	0	0	67
322	Paper	157	0	14	0	107	0	0	45
322110	Pulp Mills	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	24	0	W	0	13	0	0	10
322122	Newsprint Mills	W	0	W	0	0	0	0	0
322130	Paperboard Mills	18	0	7	0	5	0	0	12
323	Printing and Related Support	Q	0	W	0	Q	0	0	0
324	Petroleum and Coal Products	173	0	159	0	W	4	W	15
324110	Petroleum Refineries	0	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	19	0	4	0	0	4	W	12
325	Chemicals	735	W	75	192	236	6	W	339
325110	Petrochemicals	21	0	W	W	19	0	0	4
325120	Industrial Gases	74	0	0	20	W	0	0	54
325181	Alkalies and Chlorine	6	0	W	W	0	0	0	4
325182	Carbon Black	18	14	0	8	0	0	0	0
325188	Other Basic Inorganic Chemicals	39	0	W	10	3	0	W	26
325192	Cyclic Crudes and Intermediates	6	0	0	W	0	W	0	3
325193	Ethyl Alcohol	9	0	6	W	W	0	0	W
325199	Other Basic Organic Chemicals	79	0	4	31	38	W	0	30
325211	Plastics Materials and Resins	64	W	W	12	47	0	0	24
325212	Synthetic Rubber	8	0	0	W	W	0	0	6
325222	Noncellulosic Organic Fibers	8	0	0	W	4	0	0	4
325311	Nitrogenous Fertilizers	25	0	W	21	W	0	0	W
325312	Phosphatic Fertilizers	W	W	W	0	0	0	0	0
3254	Pharmaceuticals and Medicines	38	0	9	6	Q	0	0	19
325412	Pharmaceutical Preparation	17	0	W	3	W	0	0	6
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	0	W	W	0	0	0
326	Plastics and Rubber Products	Q	0	W	W	0	0	0	0
327	Nonmetallic Mineral Products	278	0	138	Q	82	W	0	42
327211	Flat Glass	14	0	0	0	W	W	0	13
327212	Other Pressed and Blown Glass and Glassware	Q	0	W	0	W	0	0	Q
327213	Glass Containers	W	0	0	0	0	0	0	W
327215	Glass Products from Purchased Glass	21	0	0	6	9	0	0	6
327310	Cements	W	0	W	0	0	0	0	W
327410	Lime	4	0	W	0	4	0	0	W
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	9	0	W	W	4	0	0	W
331	Primary Metals	299	W	5	59	64	35	30	153
331111	Iron and Steel Mills	68	0	W	18	6	24	11	28
331112	Electrometallurgical Ferroalloy Products	5	0	0	W	0	5	W	5
3312	Steel Products from Purchased Steel	31	0	0	9	W	W	W	18
3313	Alumina and Aluminum	43	W	W	10	7	0	0	25
331314	Secondary Smelting and Alloying of Aluminum	W	0	0	0	W	0	0	W
331315	Aluminum Sheet, Plate and Foils	4	0	0	W	0	0	0	W
331316	Aluminum Extruded Products	15	W	W	Q	W	0	0	6

**Table 2.4 Number of Establishments by Nonfuel (Feedstock) Use of Combustible Energy, 2006;**

Level: National Data;

Row: NAICS Codes; 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)
3314	Nonferrous Metals, except Aluminum	66	0	0	W	11	W	W	52
3315	Foundries	86	0	W	10	W	W	11	26
331511	Iron Foundries	29	0	W	5	3	0	11	10
331521	Aluminum Die-Casting Foundries	W	0	0	0	W	0	0	0
331524	Aluminum Foundries, except Die-Casting	18	0	0	4	W	0	0	0
332	Fabricated Metal Products	1,751	0	W	W	1,034	0	0	783
333	Machinery	238	0	230	0	0	0	0	Q
334	Computer and Electronic Products	149	0	Q	0	W	0	0	83
334413	Semiconductors and Related Devices	52	0	W	0	0	0	0	50
335	Electrical Equip., Appliances, and Components	73	0	W	W	W	W	0	Q
336	Transportation Equipment	361	0	Q	W	220	0	0	175
336111	Automobiles	5	0	0	0	W	0	0	W
336112	Light Trucks and Utility Vehicles	5	0	W	0	W	0	0	5
3364	Aerospace Product and Parts	67	0	0	0	30	0	0	Q
336411	Aircraft	W	0	0	0	0	0	0	W
337	Furniture and Related Products	Q	0	0	0	0	0	0	Q
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	5,317	19	1,078	360	2,233	50	36	2,060

(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 2006.

(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'.

(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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006.

**Table 3.1 Fuel Consumption, 2006:**

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)
<b>Total United States</b>										
311	Food	1,186	73,440	4	3	618	1	7	*	107
3112	Grain and Oilseed Milling	317	15,464	*	*	115	*	5	0	30
311221	Wet Corn Milling	179	6,746	*	*	51	*	4	0	9
31131	Sugar Manufacturing	82	968	1	*	17	*	1	*	20
3114	Fruit and Vegetable Preserving and Specialty Food	169	9,708	*	*	123	*	*	0	4
3115	Dairy Product	121	10,079	*	*	80	*	*	0	1
3116	Animal Slaughtering and Processing	227	17,545	1	1	141	*	0	0	13
312	Beverage and Tobacco Products	109	8,858	*	*	40	*	1	0	13
3121	Beverages	97	7,607	*	*	37	*	1	0	13
3122	Tobacco	12	1,250	*	*	3	*	*	0	*
313	Textile Mills	178	19,224	*	*	63	*	1	0	12
314	Textile Product Mills	72	5,920	*	*	45 <sup>r</sup>	*	*	0	*
315	Apparel	14	2,013	*	*	7	*	0	0	*
316	Leather and Allied Products	3	413	*	*	1	*	0	0	*
321	Wood Products	445	26,723	1	3	84	1	Q	*	228
321113	Sawmills	138	6,724	*	1	12	*	0	0	94
3212	Veneer, Plywood, and Engineered Woods	169	9,902	*	*	44	1	*	0	84
3219	Other Wood Products	129	9,734	*	1	27	*	Q	*	Q
322	Paper	2,354 <sup>r</sup>	72,518 <sup>r</sup>	15	2	461	1	10	0	1,303
322110	Pulp Mills	200	1,621	2	1	13	*	*	0	160
322121	Paper Mills, except Newsprint	939	22,872	8	*	169	*	6	0	515
322122	Newsprint Mills	72	9,486	*	*	8	*	1	0	15
322130	Paperboard Mills	827 <sup>r</sup>	21,868 <sup>r</sup>	5	1	138	*	3	0	502
323	Printing and Related Support	85	13,079	*	*	38	*	0	0	*
324	Petroleum and Coal Products	3,396 <sup>r</sup>	40,134 <sup>r</sup>	9	4	825	7	2	*	2,246 <sup>r</sup>
324110	Petroleum Refineries	3,230 <sup>r</sup>	37,155 <sup>r</sup>	8	1	766 <sup>r</sup>	7	*	0	2,226 <sup>r</sup>
324199	Other Petroleum and Coal Products	72	117	0	*	3	*	2	*	17
325	Chemicals	3,195 <sup>r</sup>	151,595 <sup>r</sup>	4	2	1,355 <sup>r</sup>	2	8	*	1,077 <sup>r</sup>
325110	Petrochemicals	757 <sup>r</sup>	4,740 <sup>r</sup>	1	*	107	*	0	0	625 <sup>r</sup>
325120	Industrial Gases	87	20,838	0	*	13	*	0	0	3
325181	Alkalies and Chlorine	153	6,086	0	*	103	*	1	0	9
325182	Carbon Black	15 <sup>r</sup>	594	*	*	10 <sup>r</sup>	*	0	0	2
325188	Other Basic Inorganic Chemicals	189	24,132	1	*	52	*	1	0	21
325192	Cyclic Crudes and Intermediates	37	2,566	*	*	15	*	0	0	12
325193	Ethyl Alcohol	110	2,717	0	*	80	*	1	0	*
325199	Other Basic Organic Chemicals	647	21,433	*	*	298	*	2	0	209
325211	Plastics Materials and Resins	559	19,180	*	*	324	2	*	*	143
325212	Synthetic Rubber	44	1,661	*	*	25	*	*	0	6
325222	Noncellulosic Organic Fibers	82	4,841	*	*	33	*	*	0	21
325311	Nitrogenous Fertilizers	128	2,430	0	*	113	*	0	0	3
325312	Phosphatic Fertilizers	19	1,489	*	*	11	*	*	0	*
3254	Pharmaceuticals and Medicines	92 <sup>r</sup>	9,207 <sup>r</sup>	*	*	45	*	*	0	5 <sup>r</sup>
325412	Pharmaceutical Preparation	64	6,332 <sup>r</sup>	*	*	30	*	*	0	4
325992	Photographic Film, Paper, Plate, and Chemicals	28	1,044	*	*	7	*	1	0	Q
326	Plastics and Rubber Products	336 <sup>r</sup>	53,404	1	1	124 <sup>r</sup>	1	*	0	*
327	Nonmetallic Mineral Products	1,105 <sup>r</sup>	42,976 <sup>r</sup>	1	5	446 <sup>r</sup>	1	14	*	130
327211	Flat Glass	61	1,903	*	*	50	*	0	0	1
327212	Other Pressed and Blown Glass and Glassware	91	5,121	0	*	Q	*	0	0	9
327213	Glass Containers	64	3,944	0	*	49	*	0	0	*
327215	Glass Products from Purchased Glass	65 <sup>r</sup>	3,670 <sup>r</sup>	0	*	50 <sup>r</sup>	*	*	0	*
327310	Cements	382	11,992	*	1	19	*	11	*	77
327410	Lime	116	1,431	*	*	5	*	4	*	22
327420	Gypsum	86	1,845	*	*	74	*	0	0	2
327993	Mineral Wool	51	4,032	0	*	33	*	0	*	*
331	Primary Metals	1,744 <sup>r</sup>	134,325 <sup>r</sup>	3	1	568 <sup>r</sup>	1	1	15	292
331111	Iron and Steel Mills	1,147 <sup>r</sup>	51,198	3	1	317 <sup>r</sup>	1	1	14	265
331112	Electrometallurgical Ferroalloy Products	17	3,111	0	*	1	*	*	*	3
3312	Steel Products from Purchased Steel	43	4,396	0	*	25	*	*	0	2
3313	Alumina and Aluminum	273	44,515 <sup>r</sup>	*	*	113	*	*	0	3
331314	Secondary Smelting and Alloying of Aluminum	21	611	*	*	17	*	*	0	*
331315	Aluminum Sheet, Plate and Foils	52	3,871	0	*	36	*	0	0	2
331316	Aluminum Extruded Products	25	1,994 <sup>r</sup>	*	*	17	*	0	0	*
3314	Nonferrous Metals, except Aluminum	107 <sup>r</sup>	14,323	*	*	42 <sup>r</sup>	*	*	*	6
3315	Foundries	158	16,781	*	*	70	*	0	*	14

Table 3.1 Fuel Consumption, 2006:

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)
331511	Iron Foundries	80	8,563	*	*	23	*	0	*	14
331521	Aluminum Die-Casting Foundries	22	1,937	0	*	15	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	17	1,134	*	*	13	*	0	0	*
332	Fabricated Metal Products	397	41,965	*	*	234	1	0	*	Q
333	Machinery	204	32,394	*	*	82	1	*	0	2
334	Computer and Electronic Products	141	27,509	*	*	44	*	0	0	1
334413	Semiconductors and Related Devices	63	12,747	*	*	18	*	0	0	1
335	Electrical Equip., Appliances, and Components	87	12,867	0	*	40	*	0	0	Q
336	Transportation Equipment	479	57,169 <sup>R</sup>	1	*	242	1	*	*	16
336111	Automobiles	39	3,885	*	*	21	*	*	0	2
336112	Light Trucks and Utility Vehicles	43	4,516	*	*	24	*	*	0	1
3364	Aerospace Product and Parts	77	11,430 <sup>R</sup>	*	*	30	*	*	0	3
336411	Aircraft	20	3,400	*	*	8	*	0	0	*
337	Furniture and Related Products	60	9,264	*	*	16	*	*	0	7
339	Miscellaneous	66	9,677	*	*	24	*	0	0	Q
	Total	15,657 <sup>R</sup>	835,467 <sup>R</sup>	40	22	5,357 <sup>R</sup>	21	46	15	5,445 <sup>R</sup>

## Northeast Census Region

311	Food	59	5,441	1	*	32	*	0	0	Q
3112	Grain and Oilseed Milling	4	506	*	*	2	*	0	0	*
311221	Wet Corn Milling	*	11	*	*	0	0	0	0	*
31131	Sugar Manufacturing	3	6	0	*	3	*	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Food	7	690	*	*	3	*	0	0	Q
3115	Dairy Product	13	1,223	*	*	7	*	0	0	*
3116	Animal Slaughtering and Processing	4	586	0	*	2	*	0	0	*
312	Beverage and Tobacco Products	13	1,112	*	*	6	*	0	0	1
3121	Beverages	12	1,090	*	*	6	*	0	0	1
3122	Tobacco	1	23	*	*	*	*	0	0	*
313	Textile Mills	14	1,378	*	*	7	*	0	0	*
314	Textile Product Mills	4	485	0	*	1	*	0	0	0
315	Apparel	1	132	0	*	*	*	0	0	0
316	Leather and Allied Products	1	175	*	*	*	*	0	0	0
321	Wood Products	25	1,804	*	*	6	*	0	0	11
321113	Sawmills	9	522	*	*	Q	*	0	0	5
3212	Veneer, Plywood, and Engineered Woods	8	564	0	*	3	*	0	0	2
3219	Other Wood Products	8	704	0	*	2	*	0	0	4
322	Paper	213 <sup>R</sup>	6,358 <sup>R</sup>	4	*	63	*	1	0	82
322110	Pulp Mills	11	114	*	*	*	*	0	0	9
322121	Paper Mills, except Newsprint	147	2,099	3	*	39	*	1	0	65
322122	Newsprint Mills	4	526	*	*	0	*	0	0	*
322130	Paperboard Mills	21 <sup>R</sup>	1,161 <sup>R</sup>	*	*	10	*	0	0	4
323	Printing and Related Support	13	1,947	*	*	5	*	0	0	*
324	Petroleum and Coal Products	249	3,868 <sup>R</sup>	2	1	45	2	*	*	163
324110	Petroleum Refineries	222	2,987 <sup>R</sup>	1	*	37	1	*	0	159
324199	Other Petroleum and Coal Products	7	282	0	*	*	*	*	*	4
325	Chemicals	142	11,110 <sup>R</sup>	2	*	64	*	1	0	11
325110	Petrochemicals	*	19	0	*	*	*	0	0	0
325120	Industrial Gases	11	2,048	0	0	1	*	0	0	2
325181	Alkalies and Chlorine	6	1,664	0	*	1	*	0	0	*
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	11	866	1	*	2	*	0	0	*
325192	Cyclic Crudes and Intermediates	6	178	0	*	4	*	0	0	1
325193	Ethyl Alcohol	*	1	0	0	*	*	0	0	0
325199	Other Basic Organic Chemicals	10	592	*	*	5	*	0	0	2
325211	Plastics Materials and Resins	15	1,078	*	*	7	*	0	0	2
325212	Synthetic Rubber	1	56	0	*	*	*	0	0	*
325222	Noncellulosic Organic Fibers	*	53	*	*	*	*	0	0	0
325311	Nitrogenous Fertilizers	1	39	0	0	1	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	39	2,996 <sup>R</sup>	*	*	24	*	0	0	2
325412	Pharmaceutical Preparation	30	2,010 <sup>R</sup>	*	*	19	*	0	0	2
325992	Photographic Film, Paper, Plate, and Chemicals	20	294	*	*	3	*	1	0	*
326	Plastics and Rubber Products	49	6,856	*	*	21	Q	0	0	*
327	Nonmetallic Mineral Products	141 <sup>R</sup>	5,373	*	1	56 <sup>R</sup>	*	2	*	19
327211	Flat Glass	11	352	0	*	9	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	15	357	0	*	4	*	0	0	9

Table 3.1 Fuel Consumption, 2006:

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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)
327213	Glass Containers	13	759	0	*	10	*	0	0	*
327215	Glass Products from Purchased Glass	3 <sup>R</sup>	374 <sup>R</sup>	0	*	1 <sup>R</sup>	*	*	0	*
327310	Cements	44	1,450	*	*	*	*	1	*	5
327410	Lime	4	77	*	*	0	*	*	0	*
327420	Gypsum	10	201	*	*	8	*	0	0	*
327993	Mineral Wool	7	395	0	*	6	*	0	*	*
331	Primary Metals	226	169,917 <sup>R</sup>	*	*	80	*	*	1	54
331111	Iron and Steel Mills	153	7,573	0	*	48	*	*	1	51
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	10	644	0	*	7	*	0	0	1
3313	Alumina and Aluminum	32	5,384 <sup>R</sup>	*	*	12	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	1	39	*	*	*	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	8	511	0	*	5	*	0	0	*
331316	Aluminum Extruded Products	5	288 <sup>R</sup>	*	*	4	*	0	0	*
3314	Nonferrous Metals, except Aluminum	20	2,130	*	*	8	*	*	*	*
3315	Foundries	11	1,186	*	*	6	*	0	*	*
331511	Iron Foundries	4	551	*	*	2	*	0	*	*
331521	Aluminum Die-Casting Foundries	2	137	0	*	2	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	109	*	*	1	*	0	0	*
332	Fabricated Metal Products	53	5,267	*	*	29	*	0	*	Q
333	Machinery	Q	5,066	*	*	Q	*	0	0	*
334	Computer and Electronic Products	27	5,015	*	*	9	*	0	0	*
334413	Semiconductors and Related Devices	12	2,180	*	*	4	*	0	0	*
335	Electrical Equip., Appliances, and Components	9	1,521	0	*	3	*	0	0	*
336	Transportation Equipment	64	6,661 <sup>R</sup>	*	*	Q	*	0	0	Q
336111	Automobiles	*	1	0	0	*	*	0	0	0
336112	Light Trucks and Utility Vehicles	*	*	0	*	0	0	0	0	0
3364	Aerospace Product and Parts	11	1,057 <sup>R</sup>	*	*	5	*	0	0	*
336411	Aircraft	1	204	0	*	*	*	0	0	*
337	Furniture and Related Products	5	673	*	*	2	*	0	0	Q
339	Miscellaneous	23	2,622	*	*	6	*	0	0	Q
	Total	1,365 <sup>R</sup>	89,780 <sup>R</sup>	10	4	480 <sup>R</sup>	3	3	1	359

## Midwest Census Region

311	Food	567	30,774	2	*	289	*	5	*	30
3112	Grain and Oilseed Milling	256	11,361	*	*	89	*	5	0	21
311221	Wet Corn Milling	160	5,784	0	*	48	*	4	0	3
31131	Sugar Manufacturing	23	600	*	*	5	*	1	*	*
3114	Fruit and Vegetable Preserving and Specialty Food	Q	2,889	*	*	Q	*	*	0	*
3115	Dairy Product	45	3,723	*	*	29	*	*	0	1
3116	Animal Slaughtering and Processing	112	6,846	*	*	76	*	0	0	Q
312	Beverage and Tobacco Products	20	1,488	*	*	8	*	*	0	1
3121	Beverages	20	1,471	*	*	8	*	*	0	1
3122	Tobacco	*	17	0	*	*	0	0	0	*
313	Textile Mills	Q	Q	0	0	*	*	0	0	0
314	Textile Product Mills	Q	Q	0	0	*	*	0	0	0
315	Apparel	*	48	0	0	*	0	0	0	0
316	Leather and Allied Products	1	123	0	0	1	*	0	0	*
321	Wood Products	127	7,514	*	1	38	*	Q	*	Q
321113	Sawmills	7	344	0	*	1	*	0	0	4
3212	Veneer, Plywood, and Engineered Woods	27	1,148	*	*	16	*	*	0	4
3219	Other Wood Products	92	5,976	*	Q	Q	*	Q	*	Q
322	Paper	284	14,812	1	*	74	*	3	0	87
322110	Pulp Mills	W	W	0	*	*	*	0	0	*
322121	Paper Mills, except Newsprint	188	7,410	1	*	35	*	2	0	74
322122	Newsprint Mills	4	515	0	*	*	*	0	0	2
322130	Paperboard Mills	43	2,408	*	*	12	*	1	0	9
323	Printing and Related Support	30	5,222	0	*	12	*	0	0	*
324	Petroleum and Coal Products	549	8,998	*	*	105	1	2	0	354
324110	Petroleum Refineries	474	7,935 <sup>R</sup>	*	*	85	1	*	0	355
324199	Other Petroleum and Coal Products	50	57	0	*	1	*	2	0	-1
325	Chemicals	438 <sup>R</sup>	41,312 <sup>R</sup>	*	*	196	1	2	*	41 <sup>R</sup>
325110	Petrochemicals	3	276	0	*	2	0	0	0	*
325120	Industrial Gases	26	7,264 <sup>R</sup>	0	0	1	*	0	0	*
325181	Alkalies and Chlorine	1	209	0	*	*	*	0	0	*
325182	Carbon Black	1	62	0	*	*	*	0	0	1

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Level: National and Regional Data;  
 Row: NAICS Codes; Column: Energy Sources;  
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325188	Other Basic Inorganic Chemicals	18	1,239	*	*	11	*	*	0	2
325192	Cyclic Crudes and Intermediates	9	193	*	*	1	*	0	0	7
325193	Ethyl Alcohol	107	2,624	0	*	78	*	1	0	-1
325199	Other Basic Organic Chemicals	63	3,976	0	*	29	*	1	0	9
325211	Plastics Materials and Resins	54	3,609	0	*	19	1	*	*	12
325212	Synthetic Rubber	5	260	0	*	1	*	0	0	*
325222	Noncellulosic Organic Fibers	*	5	0	0	*	0	0	0	0
325311	Nitrogenous Fertilizers	17	532	0	*	14	*	0	0	1
325312	Phosphatic Fertilizers	*	*	0	0	0	0	0	0	0
3254	Pharmaceutical and Medicines	28 <sup>R</sup>	2,771	0	*	9	*	*	0	3 <sup>R</sup>
325412	Pharmaceutical Preparation	20	2,138	0	*	5	*	*	0	3
325992	Photographic Film, Paper, Plate, and Chemicals	1	149	0	*	*	*	0	0	0
326	Plastics and Rubber Products	129	23,080	0	*	48	*	0	0	*
327	Nonmetallic Mineral Products	315	12,897	0	Q	128	*	4	*	43
327211	Flat Glass	17	465	0	*	15	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	Q	Q	0	*	Q	*	0	0	*
327213	Glass Containers	15	885	0	*	12	*	0	0	*
327215	Glass Products from Purchased Glass	9	1,708	0	*	3	*	0	0	*
327310	Cements	105	3,168	0	*	10	*	2	0	34
327410	Lime	46	459	0	*	2	*	2	*	8
327420	Gypsum	15	399	0	*	13	*	0	0	*
327993	Mineral Wool	21	1,683	0	*	14 <sup>R</sup>	*	0	*	*
331	Primary Metals	994 <sup>R</sup>	46,835	2	*	279 <sup>R</sup>	*	1	12	215
331111	Iron and Steel Mills	770 <sup>R</sup>	20,507	2	*	184 <sup>R</sup>	*	*	12	193
331112	Electrometallurgical Ferroalloy Products	13	2,080	0	*	1	*	*	*	3
3312	Steel Products from Purchased Steel	21	2,067	0	*	13	*	*	0	*
3313	Alumina and Aluminum	53	7,220	0	*	26	*	0	0	1
331314	Secondary Smelting and Alloying of Aluminum	11	257	0	*	10	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	15	1,178	0	*	9	*	0	0	1
331316	Aluminum Extruded Products	8	760	0	*	5	*	0	0	*
3314	Nonferrous Metals, except Aluminum	37	5,051	0	*	12	*	0	*	4
3315	Foundries	100	9,909	0	*	43	*	0	*	14
331511	Iron Foundries	54	5,344	0	*	13	*	0	*	14
331521	Aluminum Die-Casting Foundries	15	1,424	0	*	10	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	11	616	0	*	9	*	0	0	*
332	Fabricated Metal Products	185	17,626	0	*	118	1	0	0	Q
333	Machinery	116	18,701	0	*	46	*	*	0	1
334	Computer and Electronic Products	24	4,300 <sup>R</sup>	0	*	9	*	0	0	*
334413	Semiconductors and Related Devices	3	645	0	0	1	*	0	0	*
335	Electrical Equip., Appliances, and Components	27	4,300	0	*	12	*	0	0	*
336	Transportation Equipment	277	29,743	*	*	157	1	*	*	5
336111	Automobiles	25	2,310	*	*	14	*	*	0	1
336112	Light Trucks and Utility Vehicles	27	2,489	0	*	16	*	*	0	1
3364	Aerospace Product and Parts	14	2,017	*	*	5	*	0	0	1
336411	Aircraft	5	804	0	*	2	*	0	0	*
337	Furniture and Related Products	23	2,935	0	*	10	*	*	0	Q
339	Miscellaneous	17	2,719	*	*	8	*	0	0	*
	Total	4,127 <sup>R</sup>	273,604 <sup>R</sup>	6	4	1,537 <sup>R</sup>	5	18	12	821 <sup>R</sup>

## South Census Region

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)
311	Food	350	24,169	2	1	165	*	1	0	Q
31112	Grain and Oilseed Milling	49	3,019	*	*	19	*	*	0	8
311221	Wet Corn Milling	17	885	0	*	3	*	*	0	4
31131	Sugar Manufacturing	35	138	1	*	8	*	*	0	17
3114	Fruit and Vegetable Preserving and Specialty Food	29	2,295	*	*	19	*	0	0	2
3115	Dairy Product	11	1,399	0	*	6	*	0	0	0
3116	Animal Slaughtering and Processing	88	8,550	*	*	48	*	0	0	Q
312	Beverage and Tobacco Products	48	4,124	*	*	17	*	*	0	8
3121	Beverages	36	2,914	*	*	14	*	*	0	8
3122	Tobacco	12	1,210	*	*	3	*	*	0	*
313	Textile Mills	160	17,656	*	*	53	*	1	0	12
314	Textile Product Mills	65	5,145	*	*	Q	*	*	0	*
315	Apparel	12	1,686	*	*	6	*	0	0	*
316	Leather and Allied Products	*	93	0	0	*	*	0	0	0
321	Wood Products	198	12,019	*	1	23	1	*	0	126
321113	Sawmills	59	3,550	*	*	2	*	0	0	42
3212	Veneer, Plywood, and Engineered Woods	117	6,140	*	*	17	*	*	0	75

Table 3.1 Fuel Consumption, 2006:

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)
3219	Other Wood Products	19	2,110	*	*	2	*	0	0	7
322	Paper	1,570	35,440	8	1	243	*	6	0	1,008
322110	Pulp Mills	W	1,144	1	1	W	*	*	0	142
322121	Paper Mills, except Newsprint	522	10,697	3	*	69	*	3	0	332
322122	Newsprint Mills	16	3,468	0	*	*	*	*	0	4
322130	Paperboard Mills	633	12,056	4	1	78	*	3	0	424
323	Printing and Related Support	37	5,002	0	*	19	*	0	0	*
324	Petroleum and Coal Products	1,824 <sup>R</sup>	20,888 <sup>R</sup>	6	1	490	2	0	0	1,195 <sup>R</sup>
324110	Petroleum Refineries	1,792 <sup>R</sup>	19,950 <sup>R</sup>	6	*	478 <sup>R</sup>	2	0	0	1,186 <sup>R</sup>
324199	Other Petroleum and Coal Products	11	188	0	*	1	*	0	0	9
325	Chemicals	2,512 <sup>R</sup>	89,922 <sup>R</sup>	2	1	1,055 <sup>R</sup>	1	4	0	1,019 <sup>R</sup>
325110	Petrochemicals	753 <sup>R</sup>	4,443 <sup>R</sup>	1	*	104	*	0	0	625 <sup>R</sup>
325120	Industrial Gases	44	9,427	0	*	10	*	0	0	1
325181	Alkalies and Chlorine	121	2,884	0	*	91	*	*	0	8
325182	Carbon Black	13 <sup>R</sup>	532	*	*	10 <sup>R</sup>	*	0	0	1
325188	Other Basic Inorganic Chemicals	121	18,975	1	*	29	*	*	0	16
325192	Cyclic Crudes and Intermediates	22	2,191	*	*	10	*	0	0	4
325193	Ethyl Alcohol	2	47	0	*	2	*	0	0	*
325199	Other Basic Organic Chemicals	570	16,648	*	*	262	*	2	0	197
325211	Plastics Materials and Resins	488	14,258	*	*	296	*	*	0	128
325212	Synthetic Rubber	39	1,326	*	*	25	*	*	0	5
325222	Noncellulosic Organic Fibers	82	4,783	*	*	33	*	*	0	21
325311	Nitrogenous Fertilizers	105	1,634	0	*	95	*	0	0	2
325312	Phosphatic Fertilizers	W	1,137	*	*	W	*	*	0	*
3254	Pharmaceuticals and Medicines	18	2,427	*	*	8	*	0	0	1
325412	Pharmaceutical Preparation	10	1,596	*	*	4	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	W	268	0	*	W	*	0	0	Q
326	Plastics and Rubber Products	140	19,701	1	*	51 <sup>R</sup>	*	*	0	*
327	Nonmetallic Mineral Products	467	18,113	*	1	206	Q	6	*	43
327211	Flat Glass	24	868	0	*	20	*	0	0	1
327212	Other Pressed and Blown Glass and Glassware	23	1,746	0	*	17	*	0	0	*
327213	Glass Containers	22	1,341	0	*	17	*	0	0	*
327215	Glass Products from Purchased Glass	52	1,299	0	*	Q	*	*	0	*
327310	Cements	144	4,478	*	*	5	*	4	*	20
327410	Lime	48	648	0	*	3	*	1	*	10
327420	Gypsum	35	848	0	*	31	*	0	0	*
327993	Mineral Wool	17	1,416	0	*	11	*	0	*	*
331	Primary Metals	433	58,638	1	*	165	*	*	1	20
331111	Iron and Steel Mills	192	19,830	1	*	68	*	*	1	18
331112	Electrometallurgical Ferroalloy Products	4	1,028	0	*	*	0	0	0	*
3312	Steel Products from Purchased Steel	11	1,504	0	*	5	*	0	0	*
3313	Alumina and Aluminum	165	27,789	0	*	67	*	*	0	1
331314	Secondary Smelting and Alloying of Aluminum	7	269	0	*	6	*	*	0	*
331315	Aluminum Sheet, Plate and Foils	26	1,888	0	*	19	*	0	0	*
331316	Aluminum Extruded Products	9	708	0	*	5	*	0	0	*
3314	Nonferrous Metals, except Aluminum	23	3,662	0	*	8	*	*	*	1
3315	Foundries	38	4,825	0	*	17	*	0	*	*
331511	Iron Foundries	20	2,541	0	*	7	*	0	*	*
331521	Aluminum Die-Casting Foundries	4	331	0	*	3	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	4	330	0	*	3	*	0	0	*
332	Fabricated Metal Products	124	13,937	*	*	71	*	0	0	*
333	Machinery	47	7,234	0	*	20	*	0	0	*
334	Computer and Electronic Products	35	7,674	0	*	9	*	0	0	*
334413	Semiconductors and Related Devices	16	3,358	0	*	4	*	0	0	*
335	Electrical Equip., Appliances, and Components	46	6,326	0	*	23	*	0	0	*
336	Transportation Equipment	101	15,631	*	*	38	*	*	0	4
336111	Automobiles	12	1,360	*	*	5	*	*	0	1
336112	Light Trucks and Utility Vehicles	16	2,026	*	*	9	*	0	0	*
3364	Aerospace Product and Parts	26	4,206	*	*	9	*	*	0	2
336411	Aircraft	9	1,455	*	*	3	*	0	0	*
337	Furniture and Related Products	30	5,112	0	*	4	*	*	0	6
339	Miscellaneous	19	2,720	0	*	9	*	0	0	*
	Total	8,219 <sup>R</sup>	371,230	21	8	2,709 <sup>R</sup>	7	18	1	3,512

## West Census Region

311	Food	210	13,057	*	1	131	*	1	*	6
3112	Grain and Oilseed Milling	8	578	0	*	5	*	0	0	1

Table 3.1 Fuel Consumption, 2006:

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)
311221	Wet Corn Milling	2	65	0	*	1	*	0	0	1
31131	Sugar Manufacturing	22	224	0	*	2	*	1	*	3
3114	Fruit and Vegetable Preserving and Specialty Food	63	3,834	*	*	46	*	0	0	1
3115	Dairy Product	52	3,734	0	*	38	*	0	0	*
3116	Animal Slaughtering and Processing	22	1,563	0	*	15	*	0	0	*
312	Beverage and Tobacco Products	28	2,133	0	*	9	*	*	0	4
3121	Beverages	28	2,133	0	*	9	*	*	0	4
3122	Tobacco	0	0	0	0	0	0	0	0	0
313	Textile Mills	Q	Q	0	0	Q	*	0	0	0
314	Textile Product Mills	2	104	0	0	1	*	*	0	0
315	Apparel	1	147	0	0	*	0	0	0	0
316	Leather and Allied Products	*	22	0	*	*	*	0	0	*
321	Wood Products	94	5,386	*	1	17	*	0	0	49
321113	Sawmills	64	2,308	*	1	Q	*	0	0	43
3212	Veneer, Plywood, and Engineered Woods	17	2,050	0	*	7	*	0	0	3
3219	Other Wood Products	10	943	*	*	2	*	0	0	Q
322	Paper	287	15,908	1	*	82	*	1	0	125
322110	Pulp Mills	W	W	*	*	W	*	0	0	9
322121	Paper Mills, except Newsprint	83	2,666	1	*	25	*	0	0	44
322122	Newsprint Mills	47	4,977	*	*	8	*	1	0	9
322130	Paperboard Mills	129	6,243	*	*	38	*	*	0	64
323	Printing and Related Support	5	908	0	0	2	*	0	0	0
324	Petroleum and Coal Products	774	6,380	1	1	185	3	0	0	534
324110	Petroleum Refineries	742	6,283	1	1	166	3	0	0	526
324199	Other Petroleum and Coal Products	5	-411	0	*	*	*	0	0	6
325	Chemicals	103	9,250	*	*	40	*	1	0	6
325110	Petrochemicals	*	2	0	0	*	*	0	0	0
325120	Industrial Gases	7	2,099	0	0	*	0	0	0	0
325181	Alkalies and Chlorine	25	1,329	0	*	12	*	*	0	1
325182	Carbon Black	*	*	0	0	*	*	0	0	0
325188	Other Basic Inorganic Chemicals	39	3,052	*	*	10	*	1	0	2
325192	Cyclic Crudes and Intermediates	*	5	0	0	*	*	0	0	*
325193	Ethyl Alcohol	2	44	0	*	*	*	0	0	1
325199	Other Basic Organic Chemicals	4	217	0	*	2	*	0	0	1
325211	Plastics Materials and Resins	3	234	0	*	1	*	0	0	Q
325212	Synthetic Rubber	*	19	0	0	*	*	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	5	224	0	*	4	*	0	0	*
325312	Phosphatic Fertilizers	W	352	0	*	W	*	0	0	*
3254	Pharmaceuticals and Medicines	8	1,013	0	*	4	*	0	0	*
325412	Pharmaceutical Preparation	5	588	0	*	3	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	W	332	0	*	W	*	0	0	0
326	Plastics and Rubber Products	18	3,767	0	*	4	*	0	0	*
327	Nonmetallic Mineral Products	182	6,593	*	Q	57	*	3	*	25
327211	Flat Glass	8	218	*	*	6	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	1	113	0	*	1	*	0	0	*
327213	Glass Containers	14	959	0	*	10	*	0	0	*
327215	Glass Products from Purchased Glass	1	290	0	*	*	*	0	0	*
327310	Cements	89	2,896	0	*	4	*	2	*	18
327410	Lime	18	248	*	*	*	*	1	0	4
327420	Gypsum	26	397	0	*	22	*	0	0	2
327993	Mineral Wool	5	537	0	*	3	*	0	0	*
331	Primary Metals	91	11,935	0	*	45	*	0	*	3
331111	Iron and Steel Mills	32	3,288	0	*	18	*	0	*	2
331112	Electrometallurgical Ferroalloy Products	*	3	0	*	*	*	0	0	*
3312	Steel Products from Purchased Steel	1	181	0	*	1	*	0	0	*
3313	Alumina and Aluminum	22	4,122	0	*	8	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	2	45	0	*	2	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	3	293	0	*	2	*	0	0	*
331316	Aluminum Extruded Products	4	238	0	*	3	*	0	0	*
3314	Nonferrous Metals, except Aluminum	26	3,480	0	*	14	*	0	0	*
3315	Foundries	9	861	0	*	5	*	0	*	*
331511	Iron Foundries	2	126	0	*	1	*	0	*	*
331521	Aluminum Die-Casting Foundries	1	45	0	0	*	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	79	0	*	1	*	0	0	*
332	Fabricated Metal Products	35	5,135	0	*	16	*	0	0	*
333	Machinery	7	1,393	0	*	2	*	0	0	*
334	Computer and Electronic Products	54	10,587	0	*	17	*	0	0	1
334413	Semiconductors and Related Devices	32	6,563	0	*	9	*	0	0	1
335	Electrical Equip., Appliances, and Components	5	720	0	*	Q	*	0	0	*

**Table 3.1 Fuel Consumption, 2006:**

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)
336	Transportation Equipment	36	5,134 <sup>R</sup>	0	*	16	*	0	0	*
336111	Automobiles	2	214	0	*	1	*	0	0	*
336112	Light Trucks and Utility Vehicles	*	1	0	0	*	0	0	0	0
3364	Aerospace Product and Parts	26	4,151 <sup>R</sup>	0	*	10	*	0	0	*
336411	Aircraft	6	937	0	*	2	*	0	0	*
337	Furniture and Related Products	2	544	0	0	1 <sup>R</sup>	*	0	0	*
339	Miscellaneous	7	1,615	0	*	1	*	0	0	*
	Total	1,945	100,852 <sup>R</sup>	3	5	631	5	6	*	754

(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).<sup>1</sup>

(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.

R=Revised estimates.

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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006.

**Table 3.2 Fuel Consumption, 2006:**

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)
<b>Total United States</b>										
311	Food	1,186	251	26	16	635	3	147	1	107
3112	Grain and Oilseed Milling	317	53	2	1	118	*	114	0	30
311221	Wet Corn Milling	179	23	*	*	52	*	95	0	9
31131	Sugar Manufacturing	82	3	9	1	18	*	31	1	20
3114	Fruit and Vegetable Preserving and Specialty Food	169	33	2	1	126	1	1	0	4
3115	Dairy Product	121	34	1	1	83	*	*	0	1
3116	Animal Slaughtering and Processing	227	60	3	5	145	1	0	0	13
312	Beverage and Tobacco Products	109	30	3	1	41	1	20	0	13
3121	Beverages	97	26	2	1	38	1	16	0	13
3122	Tobacco	12	4	*	*	3	*	4	0	*
313	Textile Mills	178	66	2	*	65	*	32	0	12
314	Textile Product Mills	72	20	Q	*	46 <sup>R</sup>	1 <sup>R</sup>	3	0	*
315	Apparel	14	7	*	*	7	*	0	0	*
316	Leather and Allied Products	3	1	*	*	1	*	0	0	*
321	Wood Products	445	91	4	15	86	5	Q	Q	228
321113	Sawmills	138	23	*	8	12	*	0	0	94
3212	Veneer, Plywood, and Engineered Woods	169	34	*	1	45	3	2	0	84
3219	Other Wood Products	129	33	*	5	28	1	Q	Q	Q
322	Paper	2,354 <sup>R</sup>	251 <sup>R</sup>	91	13	474	5	221	0	1,303
322110	Pulp Mills	200	6	11	4	13	*	6	0	160
322121	Paper Mills, except Newsprint	939	78	47	2	174	1	122	0	515
322122	Newsprint Mills	72	32	2	*	8	*	14	0	15
322130	Paperboard Mills	827 <sup>R</sup>	75 <sup>R</sup>	29	6	142	*	73	0	502
323	Printing and Related Support	85	45	*	*	39	1	0	0	*
324	Petroleum and Coal Products	3,396 <sup>R</sup>	137	58	25	849	29	53	*	2,246 <sup>R</sup>
324110	Petroleum Refineries	3,230 <sup>R</sup>	127	52	8	789 <sup>R</sup>	28	1	0	2,226 <sup>R</sup>
324199	Other Petroleum and Coal Products	72	*	0	*	3	*	52	*	17
325	Chemicals	3,195 <sup>R</sup>	517	23	9	1,394 <sup>R</sup>	7	167	*	1,077 <sup>R</sup>
325110	Petrochemicals	757 <sup>R</sup>	16	5	1	110	*	0	0	625 <sup>R</sup>
325120	Industrial Gases	87	71	0	*	14	*	0	0	3
325181	Alkalies and Chlorine	153	21	0	*	106	*	16	0	9
325182	Carbon Black	15 <sup>R</sup>	2	*	*	11 <sup>R</sup>	*	0	0	2
325188	Other Basic Inorganic Chemicals	189	82	9	1	54	*	23	0	21
325192	Cyclic Crudes and Intermediates	37	9	1	*	16	*	0	0	12
325193	Ethyl Alcohol	110	9	0	*	82	*	19	0	*
325199	Other Basic Organic Chemicals	647	73	2	2	306	*	54	0	209
325211	Plastics Materials and Resins	559	65	*	1	333	6	11	*	143
325212	Synthetic Rubber	44	6	*	*	26	*	6	0	6
325222	Noncellulosic Organic Fibers	82	17	3	*	34	*	9	0	21
325311	Nitrogenous Fertilizers	128	8	0	*	117	*	0	0	3
325312	Phosphatic Fertilizers	19	5	*	1	11	*	2	0	*
3254	Pharmaceuticals and Medicines	92 <sup>R</sup>	31	1	1	46	*	6	0	5 <sup>R</sup>
325412	Pharmaceutical Preparation	64	22	1	1	31	*	5	0	4
325992	Photographic Film, Paper, Plate, and Chemicals	28	4	*	*	7	*	16	0	Q
326	Plastics and Rubber Products	336 <sup>R</sup>	182	9	3	127	5	Q	0	*
327	Nonmetallic Mineral Products	1,105 <sup>R</sup>	147	3	30	459 <sup>R</sup>	5	320	11	130
327211	Flat Glass	61	6	1	*	52	*	0	0	1
327212	Other Pressed and Blown Glass and Glassware	91	17	0	*	Q	*	0	0	9
327213	Glass Containers	64	13	0	*	50	*	0	0	*
327215	Glass Products from Purchased Glass	65 <sup>R</sup>	13	0	*	52 <sup>R</sup>	*	0	*	*
327310	Cements	382	41	1	3	20	*	235	5	77
327410	Lime	116	5	*	1	5	*	78	4	22
327420	Gypsum	86	6	*	1	76	*	0	0	2
327993	Mineral Wool	51	14	0	*	34	*	0	3	*
331	Primary Metals	1,744 <sup>R</sup>	458	19	6	585 <sup>R</sup>	4	21	359	292
331111	Iron and Steel Mills	1,147 <sup>R</sup>	175	19	3	326 <sup>R</sup>	*	14	344	265
331112	Electrometallurgical Ferroalloy Products	17	11	0	*	1	*	2	*	3
3312	Steel Products from Purchased Steel	43	15	0	*	26	*	*	0	2
3313	Alumina and Aluminum	273	152	*	1	116	1	*	0	3
331314	Secondary Smelting and Alloying of Aluminum	21	2	*	*	18	*	*	0	*
331315	Aluminum Sheet, Plate and Foils	52	13	0	*	37	*	0	0	2
331316	Aluminum Extruded Products	25	7	*	*	17	1	0	0	*
3314	Nonferrous Metals, except Aluminum	107 <sup>R</sup>	49	*	1	43 <sup>R</sup>	1	4	3	6
3315	Foundries	158	57	*	1	72	1	0	12	14
331511	Iron Foundries	80	29	*	1	24	*	0	12	14
331521	Aluminum Die-Casting Foundries	22	7	0	*	15	*	0	0	*

**Table 3.2 Fuel Consumption, 2006:**

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)
331524	Aluminum Foundries, except Die-Casting	17	4	*	*	13	*	0	0	*
332	Fabricated Metal Products	397	143	*	2	240	4	0	0	Q
333	Machinery	204	111	Q	2	84	3	1	0	2
334	Computer and Electronic Products	141	94	*	1	45	*	0	0	1
334413	Semiconductors and Related Devices	63	43	*	*	19	*	0	0	1
335	Electrical Equip., Appliances, and Components	87	44	0	Q	41	1	0	0	Q
336	Transportation Equipment	479	195	7	3	249	4	5	Q	16
336111	Automobiles	39	13	*	*	21	*	2	0	2
336112	Light Trucks and Utility Vehicles	43	15	*	*	25	*	1	0	1
3364	Aerospace Product and Parts	77	39	3	1	30	*	*	0	3
336411	Aircraft	20	12	*	*	8	*	0	0	*
337	Furniture and Related Products	60	32	*	Q	17	1	3	0	7
339	Miscellaneous	66	33	Q	*	25	1	0	0	Q
	Total	15,657 <sup>R</sup>	2,851 <sup>R</sup>	251	129	5,512 <sup>R</sup>	79	1,016	374	5,445 <sup>R</sup>

**Northeast Census Region**

311	Food	59	19	3	3	33	*	0	0	Q
3112	Grain and Oilseed Milling	4	2	*	*	2	*	0	0	*
311221	Wet Corn Milling	*	*	*	*	0	0	0	0	*
31131	Sugar Manufacturing	3	*	0	*	3	*	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Food	7	2	1	*	3	*	0	0	Q
3115	Dairy Product	13	4	*	1	8	*	0	0	*
3116	Animal Slaughtering and Processing	4	2	0	*	2	*	0	0	*
312	Beverage and Tobacco Products	13	4	1	*	6	*	0	0	1
3121	Beverages	12	4	1	*	6	*	0	0	1
3122	Tobacco	1	*	*	*	*	*	0	0	*
313	Textile Mills	14	5	2	*	7	*	0	0	*
314	Textile Product Mills	4	2	0	*	1	*	Q	0	0
315	Apparel	1	*	0	*	*	*	0	0	0
316	Leather and Allied Products	1	1	*	*	*	*	0	0	0
321	Wood Products	25	6	*	1	6	*	0	0	11
321113	Sawmills	9	2	*	1	Q	*	0	0	5
3212	Veneer, Plywood, and Engineered Woods	8	2	0	*	3	*	0	0	2
3219	Other Wood Products	8	2	0	*	2	*	0	0	4
322	Paper	213 <sup>R</sup>	22 <sup>R</sup>	27	1	65	2	15	0	82
	Pulp Mills	11	*	2	*	*	*	0	0	9
322121	Paper Mills, except Newsprint	147	7	20	1	40	*	14	0	65
322122	Newsprint Mills	4	2	2	*	0	*	0	0	*
322130	Paperboard Mills	21 <sup>R</sup>	4 <sup>R</sup>	2	*	10	*	0	0	4
323	Printing and Related Support	13	7	*	*	6	*	0	0	*
324	Petroleum and Coal Products	249	13	11	7	46	6	2	*	163
324110	Petroleum Refineries	222	10	7	1	38	6	1	0	159
324199	Other Petroleum and Coal Products	7	1	0	*	*	*	2	*	4
325	Chemicals	142	38	10	2	65	*	16	0	11
325110	Petrochemicals	*	*	0	*	*	*	0	0	0
325120	Industrial Gases	11	7	0	0	1	*	0	0	2
325181	Alkalies and Chlorine	6	6	0	*	1	*	0	0	*
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	11	3	5	*	2	*	0	0	*
325192	Cyclic Crudes and Intermediates	6	1	0	*	4	*	0	0	1
325193	Ethyl Alcohol	*	*	0	0	*	*	0	0	0
325199	Other Basic Organic Chemicals	10	2	*	*	5	*	0	0	0
325211	Plastics Materials and Resins	15	4	*	Q	7	*	0	0	2
325212	Synthetic Rubber	1	*	0	*	*	*	0	0	*
325222	Noncellulosic Organic Fibers	*	*	*	*	*	*	0	0	0
325311	Nitrogenous Fertilizers	1	*	0	0	1	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	39	10	1	1	25	*	0	0	2
325412	Pharmaceutical Preparation	30	7	1	1	20	*	0	0	2
325992	Photographic Film, Paper, Plate, and Chemicals	20	1	*	*	3	*	16	0	*
326	Plastics and Rubber Products	49	23	Q	Q	21	Q	0	0	*
327	Nonmetallic Mineral Products	141 <sup>R</sup>	18	1	4	58 <sup>R</sup>	*	39	1	19
327211	Flat Glass	11	1	0	*	10	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	15	1	0	*	4	*	0	0	9
327213	Glass Containers	13	3	0	*	10	*	0	0	*
327215	Glass Products from Purchased Glass	3 <sup>R</sup>	1	0	*	1 <sup>R</sup>	*	0	0	*
327310	Cements	44	5	1	*	*	*	32	1	5
327410	Lime	4	*	*	*	0	*	3	0	*

**Table 3.2 Fuel Consumption, 2006:**

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)
327420	Gypsum	10	1	*	*	9	*	0	0	*
327993	Mineral Wool	7	1	0	*	6	*	0	*	*
331	Primary Metals	226	58	*	1	82	1	3	27	54
331111	Iron and Steel Mills	153	26	0	*	49	*	*	26	51
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	10	2	0	*	7	*	0	0	1
3313	Alumina and Aluminum	32	18	*	*	13	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	1	*	*	*	*	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	8	2	0	*	5	*	0	0	*
331316	Aluminum Extruded Products	5	1	*	*	4	*	0	0	*
3314	Nonferrous Metals, except Aluminum	20	7	*	*	8	*	3	1	1
3315	Foundries	11	4	*	*	6	*	0	1	*
331511	Iron Foundries	4	2	*	*	2	*	0	1	*
331521	Aluminum Die-Casting Foundries	2	*	0	*	2	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	*	*	*	1	*	0	0	*
332	Fabricated Metal Products	53	18	*	*	29	*	0	0	0
333	Machinery	Q	17	Q	*	Q	*	0	0	*
334	Computer and Electronic Products	27	17	*	*	9	*	0	0	*
334413	Semiconductors and Related Devices	12	7	*	*	4	*	0	0	*
335	Electrical Equip., Appliances, and Components	9	5	0	*	3	*	0	0	*
336	Transportation Equipment	64	23	3	*	Q	*	0	0	0
336111	Automobiles	*	*	0	*	*	*	0	0	0
336112	Light Trucks and Utility Vehicles	*	*	0	*	0	0	0	0	0
3364	Aerospace Product and Parts	11	4	3	*	5	*	0	0	*
336411	Aircraft	1	1	0	*	*	*	0	0	*
337	Furniture and Related Products	5	2	*	*	2	*	0	0	0
339	Miscellaneous	23	9	Q	*	6	*	0	0	0
	Total	1,365 <sup>R</sup>	306 <sup>R</sup>	64	24	494 <sup>R</sup>	13	76	30	359

**Midwest Census Region**

311	Food	567	105	11	2	297	1	119	*	30
3112	Grain and Oilseed Milling	256	39	1	1	91	*	103	0	21
311221	Wet Corn Milling	160	20	0	*	49	*	88	0	3
31131	Sugar Manufacturing	23	2	1	*	5	*	14	*	*
3114	Fruit and Vegetable Preserving and Specialty Food	Q	10	1	*	Q	*	1	0	*
3115	Dairy Product	45	13	Q	*	30	*	*	0	1
3116	Animal Slaughtering and Processing	112	23	2	1	79	*	0	0	Q
312	Beverage and Tobacco Products	20	5	1	*	8	*	5	0	1
3121	Beverages	20	5	1	*	8	*	5	0	1
3122	Tobacco	*	*	0	*	*	*	0	0	*
313	Textile Mills	Q	*	0	0	*	*	0	0	0
314	Textile Product Mills	Q	Q	0	0	*	*	0	0	0
315	Apparel	*	*	0	0	*	0	0	0	0
316	Leather and Allied Products	1	*	0	0	1	*	0	0	*
321	Wood Products	127	26	*	4	39	Q	Q	Q	Q
321113	Sawmills	7	1	0	1	1	*	0	0	4
3212	Veneer, Plywood, and Engineered Woods	27	4	*	*	16	Q	1	0	4
3219	Other Wood Products	92	20	*	Q	Q	*	Q	Q	Q
322	Paper	284	51	6	1	76	1	63	0	87
322110	Pulp Mills	W	W	0	*	*	*	0	0	*
322121	Paper Mills, except Newsprint	188	25	5	*	37	*	47	0	74
322122	Newsprint Mills	4	2	0	*	*	*	0	0	2
322130	Paperboard Mills	43	8	1	*	12	*	12	0	9
323	Printing and Related Support	30	18	0	*	12	*	0	0	*
324	Petroleum and Coal Products	549	31	2	1	108	3	51	0	354
324110	Petroleum Refineries	474	27	1	1	87	3	*	0	355
324199	Other Petroleum and Coal Products	50	*	0	*	1	*	51	0	-1
325	Chemicals	438 <sup>R</sup>	141	1	1	202	5	49	*	41 <sup>R</sup>
325110	Petrochemicals	3	1	0	*	2	0	0	0	*
325120	Industrial Gases	26	25	0	0	1	*	0	0	*
325181	Alkalies and Chlorine	1	1	0	*	*	*	0	0	*
325182	Carbon Black	1	*	0	*	*	*	0	0	1
325188	Other Basic Inorganic Chemicals	18	4	*	*	11	*	1	0	2
325192	Cyclic Crudes and Intermediates	9	1	1	*	1	*	0	0	7
325193	Ethyl Alcohol	107	9	0	*	80	*	19	0	-1
325199	Other Basic Organic Chemicals	63	14	0	*	30	*	11	0	9
325211	Plastics Materials and Resins	54	12	0	*	20	4	6	*	12
325212	Synthetic Rubber	5	1	0	*	1	*	3	0	*

**Table 3.2 Fuel Consumption, 2006:**

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)
325222	Noncellulosic Organic Fibers	*	*	0	0	*	0	0	0	0
325311	Nitrogenous Fertilizers	17	2	*	*	14	*	0	0	1
325312	Phosphatic Fertilizers	*	*	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	28 <sup>R</sup>	9	0	*	10	*	6	0	3 <sup>R</sup>
325412	Pharmaceutical Preparation	20	7	0	*	5	*	5	0	3
325992	Photographic Film, Paper, Plate, and Chemicals	1	1	0	*	*	*	0	0	0
326	Plastics and Rubber Products	129	79	0	*	49	1	0	0	*
327	Nonmetallic Mineral Products	315	44	0	Q	132	1	83	2	43
327211	Flat Glass	17	2	0	*	15	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	Q	Q	0	*	Q	*	0	0	*
327213	Glass Containers	15	3	0	*	12	*	0	0	*
327215	Glass Products from Purchased Glass	9	6	0	*	3	*	0	0	*
327310	Cements	105	11	0	1	10	*	49	0	34
327410	Lime	46	2	0	*	2	*	34	1	8
327420	Gypsum	15	1	0	*	13	*	0	0	*
327993	Mineral Wool	21	6	0	*	14	*	0	1	*
331	Primary Metals	994 <sup>R</sup>	160	15	3	287 <sup>R</sup>	1	13	300	215
331111	Iron and Steel Mills	770 <sup>R</sup>	70	15	2	189 <sup>R</sup>	*	11	291	193
331112	Electrometallurgical Ferroalloy Products	13	7	0	*	1	*	2	*	3
3312	Steel Products from Purchased Steel	21	7	0	*	13	*	*	0	*
3313	Alumina and Aluminum	53	25	0	*	27	*	0	0	1
331314	Secondary Smelting and Alloying of Aluminum	11	1	0	*	10	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	15	4	0	*	10	*	0	0	1
331316	Aluminum Extruded Products	8	3	0	*	5	*	0	0	*
3314	Nonferrous Metals, except Aluminum	37	17	0	*	13	1	0	2	4
3315	Foundries	100	34	0	*	44	*	0	7	14
331511	Iron Foundries	54	18	0	*	14	*	0	7	14
331521	Aluminum Die-Casting Foundries	15	5	0	*	10	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	11	2	0	*	9	*	0	0	*
332	Fabricated Metal Products	185	60	0	*	121	2	0	0	Q
333	Machinery	116	64	0	1	48	1	1	0	1
334	Computer and Electronic Products	24	14	0	*	10	*	0	0	*
334413	Semiconductors and Related Devices	3	2	0	0	1	*	0	0	*
335	Electrical Equip., Appliances, and Components	27	15	0	*	12	*	0	0	*
336	Transportation Equipment	277	101	Q	1	161	2	5	Q	5
336111	Automobiles	25	8	*	*	15	*	2	0	1
336112	Light Trucks and Utility Vehicles	27	8	0	*	16	*	1	0	1
3364	Aerospace Product and Parts	14	7	*	*	6	*	0	0	1
336411	Aircraft	5	3	0	*	2	*	0	0	*
337	Furniture and Related Products	23	10	0	*	10	*	1	0	Q
339	Miscellaneous	17	9	*	*	8	*	0	0	*
	Total	4,127 <sup>R</sup>	934	37	26	1,582 <sup>R</sup>	21	404	304	821 <sup>R</sup>

**South Census Region**

311	Food	350	82	11	4	170	1	12	0	Q
3112	Grain and Oilseed Milling	49	10	*	*	20	*	10	0	8
311221	Wet Corn Milling	17	3	0	*	3	*	6	0	4
31131	Sugar Manufacturing	35	*	7	1	8	*	2	0	17
3114	Fruit and Vegetable Preserving and Specialty Food	29	8	*	Q	19	*	0	0	2
3115	Dairy Product	11	5	0	*	6	*	0	0	0
3116	Animal Slaughtering and Processing	88	29	1	2	50	1	0	0	Q
312	Beverage and Tobacco Products	48	14	1	*	17	*	7	0	8
3121	Beverages	36	10	1	*	15	*	3	0	8
3122	Tobacco	12	4	*	*	3	*	4	0	*
313	Textile Mills	160	60	*	*	55	*	32	0	12
314	Textile Product Mills	65	18	Q	*	Q	Q	0	0	*
315	Apparel	12	6	*	*	7	*	0	0	0
316	Leather and Allied Products	*	*	0	0	*	*	0	0	0
321	Wood Products	198	41	Q	5	23	2	1	0	126
321113	Sawmills	59	12	*	2	2	*	0	0	42
3212	Veneer, Plywood, and Engineered Woods	117	21	*	1	18	1	1	0	75
3219	Other Wood Products	19	7	*	1	3	*	0	0	7
322	Paper	1,570	121	53	8	250	2	128	0	1,008
322110	Pulp Mills	W	4	9	4	W	*	6	0	142
322121	Paper Mills, except Newsprint	522	36	19	1	71	*	61	0	332
322122	Newsprint Mills	16	12	0	*	*	*	1	0	4
322130	Paperboard Mills	633	41	24	3	80	*	60	0	424
323	Printing and Related Support	37	17	0	*	20	*	0	0	*



Table 3.2 Fuel Consumption, 2006;

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)
313	Textile Mills	Q	*	0	0	Q	*	0	0	0
314	Textile Product Mills	2	*	0	0	1	*	0	0	0
315	Apparel	1	1	0	0	*	0	0	0	0
316	Leather and Allied Products	*	*	*	*	*	*	0	0	*
321	Wood Products	94	18	3	5	18	1	0	0	49
321113	Sawmills	64	8	*	4	Q	*	0	0	43
3212	Veneer, Plywood, and Engineered Woods	17	7	0	*	7	1	0	0	3
3219	Other Wood Products	10	3	*	*	2	*	0	0	4
322	Paper	287	54	5	3	84	1	14	0	125
322110	Pulp Mills	W	W	*	*	W	*	0	0	9
322121	Paper Mills, except Newsprint	83	9	3	*	26	*	0	0	44
322122	Newsprint Mills	47	17	*	*	8	*	13	0	9
322130	Paperboard Mills	129	21	1	2	39	*	1	0	64
323	Printing and Related Support	5	3	0	0	2	*	0	0	0
324	Petroleum and Coal Products	774	22	8	8	190	12	0	0	534
324110	Petroleum Refineries	742	21	7	5	171	12	0	0	526
324199	Other Petroleum and Coal Products	5	-1	0	*	*	*	0	0	6
325	Chemicals	103	32	*	*	41	*	23	0	6
325110	Petrochemicals	*	*	0	0	*	*	0	0	0
325120	Industrial Gases	7	7	0	0	*	*	0	0	0
325181	Alkalies and Chlorine	25	5	0	*	12	*	7	0	1
325182	Carbon Black	*	*	0	0	*	*	0	0	0
325188	Other Basic Inorganic Chemicals	39	10	*	*	10	*	16	0	2
325192	Cyclic Crudes and Intermediates	*	*	0	0	*	*	0	0	*
325193	Ethyl Alcohol	2	*	0	*	*	*	0	0	1
325199	Other Basic Organic Chemicals	4	1	0	*	2	*	0	0	1
325211	Plastics Materials and Resins	3	1	0	*	1	*	0	0	Q
325212	Synthetic Rubber	*	*	0	0	*	*	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	5	1	0	*	4	*	0	0	*
325312	Phosphatic Fertilizers	W	1	0	*	W	*	0	0	*
3254	Pharmaceuticals and Medicines	8	3	0	*	4	*	0	0	*
325412	Pharmaceutical Preparation	5	2	0	*	3	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	W	1	0	*	W	*	0	0	0
326	Plastics and Rubber Products	18	13	0	*	4	Q	0	0	*
327	Nonmetallic Mineral Products	182	22	2	Q	58	*	66	2	25
327211	Flat Glass	8	1	1	*	6	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	1	*	0	*	1	*	0	0	*
327213	Glass Containers	14	3	0	*	11	*	0	0	*
327215	Glass Products from Purchased Glass	1	1	0	*	*	*	0	0	*
327310	Cements	89	10	0	1	4	*	54	2	18
327410	Lime	18	1	*	*	*	*	12	0	4
327420	Gypsum	26	1	0	*	22	*	0	0	2
327993	Mineral Wool	5	2	0	*	3	*	0	0	*
331	Primary Metals	91	41	0	1	46	*	0	1	3
331111	Iron and Steel Mills	32	11	0	*	18	*	0	0	2
331112	Electrometallurgical Ferroalloy Products	*	*	0	*	*	*	0	0	*
3312	Steel Products from Purchased Steel	1	1	0	*	1	*	0	0	*
3313	Alumina and Aluminum	22	14	0	*	8	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	2	*	0	*	2	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	3	1	0	*	2	*	0	0	*
331316	Aluminum Extruded Products	4	1	0	*	3	*	0	0	*
3314	Nonferrous Metals, except Aluminum	26	12	0	*	14	*	0	0	*
3315	Foundries	9	3	0	*	5	*	0	1	*
331511	Iron Foundries	2	*	0	*	1	*	0	1	*
331521	Aluminum Die-Casting Foundries	1	*	0	0	*	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	*	0	*	1	*	0	0	*
332	Fabricated Metal Products	35	18	0	Q	16	*	0	0	*
333	Machinery	7	5	0	*	2	*	0	0	*
334	Computer and Electronic Products	54	36	0	*	17	*	0	0	1
334413	Semiconductors and Related Devices	32	22	0	*	9	*	0	0	*
335	Electrical Equip., Appliances, and Components	5	2	0	*	Q	*	0	0	*
336	Transportation Equipment	36	18	0	Q	17	*	0	0	*
336111	Automobiles	2	1	0	*	1	*	0	0	*
336112	Light Trucks and Utility Vehicles	*	*	0	0	*	0	0	0	0
3364	Aerospace Product and Parts	26	14	0	*	11	*	0	0	*
336411	Aircraft	6	3	0	*	2	*	0	0	*
337	Furniture and Related Products	2	2	0	0	1	*	0	0	*
339	Miscellaneous	7	6	0	*	2	*	0	0	*
	Total	1,945	344	18	32	649	19	126	3	754

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**Table 3.2 Fuel Consumption, 2006:**

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)
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(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.

R=Revised estimates.

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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006.

**Table 3.3 Fuel Consumption, 2006:**

### Level: National and Regional Data:

Level: National and Regional Data.  
Row: Values of Shipments and Employment Sizes.

Row: Values of Shipments  
Column: Energy Sources:

Column: Energy  
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)
<b>Total United States</b>									
<b>Value of Shipments and Receipts (million dollars)</b>									
Under 20	1,139	367	23	45	535	14	21	3	131
20-49	1,122	333	13	19	530	8	93	5	122
50-99	1,309	349	22	17	549	10	157	8	197
100-249	2,443	607	25	19	994	11	263	10	512
250-499	2,092	413	53	13	633	4	244	3	730
500 and Over	7,551	781	115	17	2,271	31	240	344	3,752
<b>Total</b>	<b>15,657</b>	<b>2,851</b>	<b>251</b>	<b>129</b>	<b>5,512</b>	<b>79</b>	<b>1,016</b>	<b>374</b>	<b>5,445</b>

### Total United States

**Value of Shipments and Receipts  
(million dollars)**

Under 20	1,139	367	23	45	535	14	21	3	131
20-49	1,122	333	13	19	530	8	93	5	122
50-99	1,309	349	22	17	549	10	157	8	197
100-249	2,443	607	25	19	994	11	263	10	512
250-499	2,092	413	53	13	633	4	244	3	730
500 and Over	7,551	781	115	17	2,271	31	240	344	3,752
<b>Total</b>	<b>15,657</b>	<b>2,851</b>	<b>251</b>	<b>129</b>	<b>5,512</b>	<b>79</b>	<b>1,016</b>	<b>374</b>	<b>5,445</b>

### Employment Size

Under 50	1,103	334	10	45	550	10	32	1	122
50-99	988	233	19	15	520	7	64	3	129
100-249	2,722	656	38	27	1,024	23	339	12	604
250-499	3,317	593	44	19	1,135	15	244	7	1,259
500-999	4,170	568	57	11	1,153	16	182	5	2,178
1000 and Over	3,356	467	83	11	1,131	8	156	347	1,153
<b>Total</b>	<b>15 657</b>	<b>2 851</b>	<b>251</b>	<b>129</b>	<b>5 512</b>	<b>79</b>	<b>1 016</b>	<b>374</b>	<b>5 445</b>

Northeast Census Region

**Value of Shipments and Receipts  
(million dollars)**

(million dollars)	166	55	8	12	65	2	*	1	24
Under 20									
20-49	174	46	7	4	88	2	7	*	20
50-99	150	43	16	2	58	Q	14	0	14
100-249	242	64	6	2	114	1	24	Q	29
250-499	139	32	9	2	36	*	15	*	44
500 and Over	495	65	17	2	134	6	16	26	229
Total	1,365	306	64	24	494	13	76	30	359

### Employment Size

Employment Size	122	42	6	12	50	1	2	*	9
Under 50									
50-99	130	33	4	2	62	1	6	*	23
100-249	271	77	16	5	111	4	29	1	28
250-499	221	56	13	2	77	1	11	*	62
500-999	341	47	17	2	115	6	12	Q	140
1000 and Over	279	52	8	1	79	*	16	26	98
Total	1,365	306	64	24	494	13	76	30	359

Midwest Census Region

**Value of Shipments and Receipts  
(million dollars)**

(trillion dollars)	446	132	Q	Q	250	4	3	1	Q
Under 20									
20-49	341	106	3	1	175	2	33	2	20
50-99	447	132	1	4	216	2	47	3	42
100-249	763	240	5	3	348	7	85	5	70
250-499	429	100	2	2	140	1	115	2	68
500 and Over	1,702	223	21	4	453	4	122	291	584
Total	4,127	934	37	26	1,582	21	404	304	821

### Employment Size

**Table 3.3 Fuel Consumption, 2006:**

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)
Under 50	424	130	Q	Q	232	2	10	1	Q
50-99	327	76	Q	2	192	3	23	1	23
100-249	823	233	5	6	305	6	151	3	114
250-499	748	176	2	2	280	3	133	4	149
500-999	695	169	4	2	244	5	44	2	228
1000 and Over	1,110	150	19	3	329	1	43	294	271
Total	4,127	934	37	26	1,582	21	404	304	821

**South Census Region****Value of Shipments and Receipts (million dollars)**

Under 20	381	130	5	14	163	5	7	1	Q
20-49	432	137	2	8	195	3	30	3	55
50-99	554	138	3	6	216	4	68	3	115
100-249	1,124	230	11	8	407	3	108	2	356
250-499	1,239	203	40	6	359	2	103	1	526
500 and Over	4,490	428	71	6	1,448	10	95	27	2,405
Total	8,219	1,267	131	48	2,788	27	410	37	3,512

**Employment Size**

Under 50	412	120	2	14	206	5	9	0	Q
50-99	408	93	5	6	208	1	27	1	67
100-249	1,222	271	9	10	479	5	109	5	334
250-499	1,826	270	24	9	597	8	66	1	851
500-999	2,690	296	35	5	661	5	109	2	1,577
1000 and Over	1,661	217	57	4	637	2	90	27	627
Total	8,219	1,267	131	48	2,788	27	410	37	3,512

**West Census Region****Value of Shipments and Receipts (million dollars)**

Under 20	147	50	3	7	57	3	10	0	16
20-49	175	44	Q	Q	72	1	23	0	27
50-99	159	35	2	4	60	1	28	2	26
100-249	314	73	4	6	125	1	47	1	58
250-499	285	77	2	4	99	1	11	*	92
500 and Over	865	64	7	5	236	12	7	0	533
Total	1,945	344	18	32	649	19	126	3	754

**Employment Size**

Under 50	144	42	1	7	61	2	11	0	21
50-99	123	32	2	Q	58	1	8	0	16
100-249	406	75	8	6	130	7	49	2	129
250-499	521	92	6	7	181	3	34	1	197
500-999	444	56	1	2	134	1	17	0	234
1000 and Over	306	48	*	3	86	4	7	0	157
Total	1,945	344	18	32	649	19	126	3	754

(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

**Table 3.3 Fuel Consumption, 2006:**

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)
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coeneration 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 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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006, and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 3.4 Number of Establishments by Fuel Consumption, 2006:**

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)
<b>Total United States</b>										
311	Food	14,128	14,113	326	1,462	11,395	2,920	67	13	1,240
3112	Grain and Oilseed Milling	580	580	15	174	445	269	35	0	148
311221	Wet Corn Milling	47	47	W	17	44	19	18	0	18
31131	Sugar Manufacturing	78	78	11	43	61	35	26	13	45
3114	Fruit and Vegetable Preserving and Specialty Food	1,125	1,125	13	112	961	325	W	0	127
3115	Dairy Product	1,044	1,044	25	88	941	147	W	0	104
3116	Animal Slaughtering and Processing	1,715	1,715	45	393	1,542	352	0	0	228
312	Beverage and Tobacco Products	1,830	1,830	15	348	957	790	17	0	234
3121	Beverages	1,758	1,758	8	319	900	758	10	0	224
3122	Tobacco	72	72	7	30	57	33	7	0	10
313	Textile Mills	1,966	1,966	116	179	1,532	630	51	0	193
314	Textile Product Mills	3,332	3,332	23	106	1,925	687	Q	0	178
315	Apparel	5,567	5,499	W	Q	2,977	360	0	0	Q
316	Leather and Allied Products	687	687	3	Q	392	57	0	0	Q
321	Wood Products	10,785	10,777	103	3,302	4,327	4,477	Q	W	2,189
321113	Sawmills	2,282	2,274	9	1,241	432	534	0	0	677
3212	Veneer, Plywood, and Engineered Woods	1,462	1,462	3	385	804	712	Q	0	230
3219	Other Wood Products	6,688	6,688	86	1,474	2,908	3,138	W	W	1,169
322	Paper	3,957	3,928	208	411	3,215	2,032	107	0	463
322110	Pulp Mills	32	32	12	21	27	14	W	0	25
322121	Paper Mills, except Newsprint	288	288	87	113	241	176	59	0	142
322122	Newsprint Mills	20	20	3	11	14	12	3	0	12
322130	Paperboard Mills	200	200	61	110	176	123	38	0	88
323	Printing and Related Support	18,917	18,830	Q	249	12,825	2,177	0	0	378
324	Petroleum and Coal Products	1,813	1,813	98	764	996	467	7	W	481
324110	Petroleum Refineries	209	209	31	95	200	96	W	0	180
324199	Other Petroleum and Coal Products	48	48	0	21	41	13	4	W	23
325	Chemicals	8,623	8,621	91	1,603	6,398	2,268	61	W	1,133
325110	Petrochemicals	45	45	W	14	37	9	0	0	24
325120	Industrial Gases	560	560	0	9	251	36	0	0	62
325181	Alkalies and Chlorine	32	32	0	19	26	12	4	0	23
325182	Carbon Black	24	24	W	7	23	7	0	0	8
325188	Other Basic Inorganic Chemicals	473	473	10	151	326	194	6	0	118
325192	Cyclic Crudes and Intermediates	25	25	W	9	23	7	0	0	11
325193	Ethyl Alcohol	65	65	0	26	64	14	7	0	15
325199	Other Basic Organic Chemicals	488	488	16	163	426	177	9	0	155
325211	Plastics Materials and Resins	558	557	4	181	510	241	5	W	208
325212	Synthetic Rubber	92	92	W	21	70	36	W	0	15
325222	Noncellulosic Organic Fibers	77	77	13	27	63	32	8	0	27
325311	Nitrogenous Fertilizers	65	65	0	21	47	23	0	0	22
325312	Phosphatic Fertilizers	32	32	W	20	25	11	W	0	23
3254	Pharmaceuticals and Medicines	1,123	1,123	24	271	878	157	10	0	78
325412	Pharmaceutical Preparation	580	580	16	156	452	92	8	0	56
325992	Photographic Film, Paper, Plate, and Chemicals	143	143	W	16	107	31	W	0	Q
326	Plastics and Rubber Products	9,823	9,823	92	647	7,669	3,474	W	0	809
327	Nonmetallic Mineral Products	11,914	11,914	104	3,606	6,449	3,229	194	18	1,907
327211	Flat Glass	42	42	W	29	41	28	0	0	23
327212	Other Pressed and Blown Glass and Glassware	157	157	0	37	113	98	0	0	36
327213	Glass Containers	55	55	0	26	55	29	0	0	22
327215	Glass Products from Purchased Glass	768	768	0	94	495	300	Q	0	100
327310	Cements	188	188	6	85	93	36	81	3	76
327410	Lime	62	62	W	51	40	27	46	5	45
327420	Gypsum	145	145	W	61	112	95	0	0	35
327993	Mineral Wool	188	188	0	35	156	93	0	10	21
331	Primary Metals	3,290	3,271	30	921	2,916	1,599	24	86	859
331111	Iron and Steel Mills	348	347	9	145	300	134	14	21	152
331112	Electrometallurgical Ferroalloy Products	18	18	0	14	18	9	W	W	14
3312	Steel Products from Purchased Steel	446	446	0	113	390	210	W	0	113
3313	Alumina and Aluminum	384	384	4	109	362	194	W	0	87
331314	Secondary Smelting and Alloying of Aluminum	97	97	W	40	90	43	W	0	19
331315	Aluminum Sheet, Plate and Foils	56	56	0	23	54	30	0	0	15
331316	Aluminum Extruded Products	150	150	W	22	142	80	0	0	38
3314	Nonferrous Metals, except Aluminum	574	574	W	168	453	263	5	W	190
3315	Foundries	1,520	1,503	W	372	1,393	789	0	52	305
331511	Iron Foundries	379	379	W	185	333	219	0	52	101
331521	Aluminum Die-Casting Foundries	185	185	0	5	172	62	0	0	32
331524	Aluminum Foundries, except Die-Casting	309	309	W	47	279	156	0	0	59
332	Fabricated Metal Products	35,520	35,520	Q	3,298	25,150	13,059	0	W	4,934
333	Machinery	16,296	16,296	W	1,707	12,891	4,894	W	0	1,898

**Table 3.4 Number of Establishments by Fuel Consumption, 2006;**

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)
334	Computer and Electronic Products	8,188	8,188	7	541	5,323	992	0	0	426
334413	Semiconductors and Related Devices	522	522	W	104	462	45	0	0	24
335	Electrical Equip., Appliances, and Components	3,596	3,596	0	299	2,818	965	0	0	349
336	Transportation Equipment	7,024	7,024	111	1,096	5,434	2,754	13	W	1,369
336111	Automobiles	77	77	W	23	68	42	4	0	29
336112	Light Trucks and Utility Vehicles	47	47	W	25	42	17	W	0	28
3364	Aerospace Product and Parts	910	910	Q	70	671	426	W	0	193
336411	Aircraft	105	105	W	24	78	38	0	0	18
337	Furniture and Related Products	11,545	11,368	Q	879	6,753	3,139	29	0	1,073
339	Miscellaneous	15,702	15,702	Q	704	9,609	3,097	0	0	1,059
	Total	194,504	194,099	2,000	22,239	131,949	54,065	694	134	21,331

(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 2006.

(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 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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006.

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Next MECS will be conducted in 2010

**Table 3.5 Selected Byproducts In Fuel Consumption, 2006;**  
**Level: National and Regional Data;**  
**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
<b>Total United States</b>								
311	Food	10	0	3	0	0	7	Q
3112	Grain and Oilseed Milling	7	0	1	0	0	6	*
311221	Wet Corn Milling	5	0	*	0	0	4	0
31131	Sugar Manufacturing	1	0	0	0	0	1	0
3114	Fruit and Vegetable Preserving and Specialty Food	Q	0	*	0	0	0	Q
3115	Dairy Product	*	0	*	0	0	0	0
3116	Animal Slaughtering and Processing	1	0	1	0	0	*	*
312	Beverage and Tobacco Products	2	0	2	0	0	1	*
3121	Beverages	2	0	2	0	0	1	*
3122	Tobacco	0	0	0	0	0	0	0
313	Textile Mills	Q	0	0	0	0	Q	0
314	Textile Product Mills	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0
321	Wood Products	217	0	*	*	0	208	9
321113	Sawmills	84	0	0	0	0	84	1
3212	Veneer, Plywood, and Engineered Woods	84	0	0	0	0	76	8
3219	Other Wood Products	Q	0	*	*	0	Q	*
322	Paper	1,230	*	*	18	850	351	10
322110	Pulp Mills	158	0	0	*	120	37	1
322121	Paper Mills, except Newsprint	477	0	*	16	325	132	4
322122	Newsprint Mills	7	0	0	0	0	4	2
322130	Paperboard Mills	478	0	*	2	329	145	3
323	Printing and Related Support	0	0	0	0	0	0	0
324	Petroleum and Coal Products	2,047 <sup>R</sup>	10	1,482 <sup>R</sup>	547	0	0	7
324110	Petroleum Refineries	2,021 <sup>R</sup>	0	1,481 <sup>R</sup>	535	0	0	5
324199	Other Petroleum and Coal Products	22	10	*	12	0	0	0
325	Chemicals	474 <sup>R</sup>	0	459 <sup>R</sup>	0	0	0	15
325110	Petrochemicals	W	0	221 <sup>R</sup>	0	0	0	W
325120	Industrial Gases	*	0	*	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0	0	0	0
325182	Carbon Black	2	0	2	0	0	0	0
325188	Other Basic Inorganic Chemicals	2	0	2	0	0	0	*
325192	Cyclic Crudes and Intermediates	*	0	*	0	0	0	*
325193	Ethyl Alcohol	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	144	0	139	0	0	0	5
325211	Plastics Materials and Resins	W	0	88	0	0	0	W
325212	Synthetic Rubber	*	0	*	0	0	0	*
325222	Noncellulosic Organic Fibers	5	0	5	0	0	0	*
325311	Nitrogenous Fertilizers	2	0	2	0	0	0	0
325312	Phosphatic Fertilizers	*	0	*	0	0	0	0
3254	Pharmaceuticals and Medicines	*	0	*	0	0	0	*
325412	Pharmaceutical Preparation	*	0	*	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	*	0	0	0	0
326	Plastics and Rubber Products	*	0	0	0	0	*	*
327	Nonmetallic Mineral Products	106	0	1	73	0	Q	20
327211	Flat Glass	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0

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**Table 3.5 Selected Byproducts In Fuel Consumption, 2006;**  
**Level: National and Regional Data;**  
**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
327310	Cements	65	0	0	50	0	*	16
327410	Lime	22	0	0	22	0	0	*
327420	Gypsum	1	0	1	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0
331	Primary Metals	256	245	1	8	0	2	*
331111	Iron and Steel Mills	246	245	*	*	0	0	*
331112	Electrometallurgical Ferroalloy Products	1	0	0	0	0	1	0
3312	Steel Products from Purchased Steel	*	0	*	0	0	0	0
3313	Alumina and Aluminum	*	0	0	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	*	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	0	0	0	0	*
331316	Aluminum Extruded Products	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	2	0	*	1	0	1	0
3315	Foundries	7	*	0	7	0	0	*
331511	Iron Foundries	7	*	0	7	0	0	*
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	*	0	0	0	0	0
332	Fabricated Metal Products	Q	0	Q	0	0	0	*
333	Machinery	0	0	0	0	0	0	0
334	Computer and Electronic Products	*	0	*	0	0	0	0
334413	Semiconductors and Related Devices	*	0	*	0	0	0	0
335	Electrical Equip., Appliances, and Components	*	0	*	0	0	0	0
336	Transportation Equipment	9	0	5	0	0	0	Q
336111	Automobiles	2	0	2	0	0	0	0
336112	Light Trucks and Utility Vehicles	1	0	1	0	0	0	0
3364	Aerospace Product and Parts	1	0	1	0	0	0	*
336411	Aircraft	*	0	0	0	0	0	*
337	Furniture and Related Products	7	0	0	0	0	7	0
339	Miscellaneous	*	0	0	0	0	*	0
	Total	4,363	256	1,955	646	850	591	65

### heast Census Region

311	Food	Q	0	*	0	0	*	Q
3112	Grain and Oilseed Milling	*	0	0	0	0	*	0
311221	Wet Corn Milling	*	0	0	0	0	*	0
31131	Sugar Manufacturing	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	Q	0	0	0	0	0	Q
3115	Dairy Product	*	0	*	0	0	0	0
3116	Animal Slaughtering and Processing	*	0	0	0	0	0	*
312	Beverage and Tobacco Products	*	0	*	0	0	0	0
3121	Beverages	*	0	*	0	0	0	0
3122	Tobacco	0	0	0	0	0	0	0
313	Textile Mills	0	0	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0
321	Wood Products	11	0	*	0	0	11	*
321113	Sawmills	5	0	0	0	0	5	*
3212	Veneer, Plywood, and Engineered Woods	2	0	0	0	0	2	0
3219	Other Wood Products	4	0	*	0	0	4	*
322	Paper	60	*	*	0	37	23	*
322110	Pulp Mills	9	0	0	0	7	2	0

**Table 3.5 Selected Byproducts In Fuel Consumption, 2006;**  
**Level: National and Regional Data;**  
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**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
322121	Paper Mills, except Newsprint	48	0	*	0	28	20	*
322122	Newsprint Mills	*	0	0	0	0	0	*
322130	Paperboard Mills	0	0	0	0	0	0	0
323	Printing and Related Support	0	0	0	0	0	0	0
324	Petroleum and Coal Products	160	4	101	55	0	0	*
324110	Petroleum Refineries	156	0	101	55	0	0	0
324199	Other Petroleum and Coal Products	4	4	0	0	0	0	0
325	Chemicals	1	0	*	0	0	0	1
325110	Petrochemicals	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	*	0	0	0	0	0	*
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	*	0	*	0	0	0	*
325211	Plastics Materials and Resins	*	0	*	0	0	0	*
325212	Synthetic Rubber	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	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
326	Plastics and Rubber Products	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	9	0	0	4	0	*	Q
327211	Flat Glass	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0
327310	Cements	5	0	0	3	0	*	2
327410	Lime	*	0	0	*	0	0	0
327420	Gypsum	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0
331	Primary Metals	51	51	*	*	0	0	0
331111	Iron and Steel Mills	51	51	0	*	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	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	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	1	0	*	*	0	0	0
3315	Foundries	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0
332	Fabricated Metal Products	*	0	0	0	0	0	*
333	Machinery	0	0	0	0	0	0	0
334	Computer and Electronic Products	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0
336	Transportation Equipment	Q	0	*	0	0	0	Q
336111	Automobiles	0	0	0	0	0	0	0

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**Table 3.5 Selected Byproducts In Fuel Consumption, 2006;**  
**Level: National and Regional Data;**  
**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
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	0	0	0	0	0	*
336411	Aircraft	*	0	0	0	0	0	*
337	Furniture and Related Products	Q	0	0	0	0	Q	0
339	Miscellaneous	0	0	0	0	0	0	0
	Total	298	55	103	59	37	35	10

**West Census Region**

311	Food	2	0	1	0	0	*	*
3112	Grain and Oilseed Milling	1	0	*	0	0	0	*
311221	Wet Corn Milling	*	0	*	0	0	0	0
31131	Sugar Manufacturing	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	0	0	0	0	0	0	0
3115	Dairy Product	0	0	0	0	0	0	0
3116	Animal Slaughtering and Processing	1	0	1	0	0	*	0
312	Beverage and Tobacco Products	1	0	1	0	0	0	*
3121	Beverages	1	0	1	0	0	0	*
3122	Tobacco	0	0	0	0	0	0	0
313	Textile Mills	0	0	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0
321	Wood Products	Q	0	0	*	0	Q	*
321113	Sawmills	4	0	0	0	0	4	0
3212	Veneer, Plywood, and Engineered Woods	5	0	0	0	0	5	*
3219	Other Wood Products	Q	0	0	*	0	Q	*
322	Paper	73	0	*	5	42	24	3
322110	Pulp Mills	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	70	0	*	5	41	22	3
322122	Newsprint Mills	0	0	0	0	0	0	0
322130	Paperboard Mills	3	0	*	0	1	2	*
323	Printing and Related Support	0	0	0	0	0	0	0
324	Petroleum and Coal Products	344	0	251	93	0	0	*
324110	Petroleum Refineries	343	0	250	93	0	0	*
324199	Other Petroleum and Coal Products	*	0	*	0	0	0	0
325	Chemicals	10	0	9	0	0	0	1
325110	Petrochemicals	*	0	*	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0	0	0	0
325182	Carbon Black	1	0	1	0	0	0	0
325188	Other Basic Inorganic Chemicals	0	0	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	1	0	*	0	0	0	1
325211	Plastics Materials and Resins	8	0	7	0	0	0	1
325212	Synthetic Rubber	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	*	0	*	0	0	0	0
325412	Pharmaceutical Preparation	*	0	*	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0

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**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
326	Plastics and Rubber Products	*	0	0	0	0	0	*
327	Nonmetallic Mineral Products	37	0	0	32	0	*	5
327211	Flat Glass	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0
327310	Cements	28	0	0	23	0	*	4
327410	Lime	8	0	0	8	0	0	0
327420	Gypsum	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0
331	Primary Metals	186	177	0	7	0	1	*
331111	Iron and Steel Mills	177	177	0	*	0	0	*
331112	Electrometallurgical Ferroalloy Products	1	0	0	0	0	1	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0
3313	Alumina and Aluminum	*	0	0	0	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	0	0	0	0	*
331316	Aluminum Extruded Products	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	1	0	0	1	0	0	0
3315	Foundries	6	*	0	6	0	0	*
331511	Iron Foundries	6	*	0	6	0	0	*
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	*	0	0	0	0	0
332	Fabricated Metal Products	Q	0	Q	0	0	0	0
333	Machinery	0	0	0	0	0	0	0
334	Computer and Electronic Products	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0
336	Transportation Equipment	3	0	3	0	0	0	*
336111	Automobiles	1	0	1	0	0	0	0
336112	Light Trucks and Utility Vehicles	1	0	1	0	0	0	0
3364	Aerospace Product and Parts	1	0	1	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0
337	Furniture and Related Products	Q	0	0	0	0	Q	0
339	Miscellaneous	0	0	0	0	0	0	0
	Total	699	177	266	138	42	68	10

**South Census Region**

311	Food	8	0	1	0	0	6	*
3112	Grain and Oilseed Milling	7	0	Q	0	0	6	0
311221	Wet Corn Milling	4	0	0	0	0	4	0
31131	Sugar Manufacturing	1	0	0	0	0	1	0
3114	Fruit and Vegetable Preserving and Specialty Food	*	0	*	0	0	0	0
3115	Dairy Product	0	0	0	0	0	0	0
3116	Animal Slaughtering and Processing	*	0	*	0	0	0	*
312	Beverage and Tobacco Products	1	0	1	0	0	1	0
3121	Beverages	1	0	1	0	0	1	0
3122	Tobacco	0	0	0	0	0	0	0
313	Textile Mills	Q	0	0	0	0	Q	0
314	Textile Product Mills	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0

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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
321	Wood Products	120	0	0	0	0	111	9
321113	Sawmills	36	0	0	0	0	35	1
3212	Veneer, Plywood, and Engineered Woods	75	0	0	0	0	67	8
3219	Other Wood Products	7	0	0	0	0	7	*
322	Paper	978	0	*	13	677	284	4
322110	Pulp Mills	141	0	0	*	105	35	1
322121	Paper Mills, except Newsprint	317	0	*	11	227	78	1
322122	Newsprint Mills	3	0	0	0	0	3	0
322130	Paperboard Mills	412	0	0	2	271	136	3
323	Printing and Related Support	0	0	0	0	0	0	0
324	Petroleum and Coal Products	1,053 <sup>R</sup>	7	751 <sup>R</sup>	296	0	0	*
324110	Petroleum Refineries	1,041 <sup>R</sup>	0	751 <sup>R</sup>	290	0	0	*
324199	Other Petroleum and Coal Products	12	7	0	6	0	0	0
325	Chemicals	461 <sup>R</sup>	0	448 <sup>R</sup>	0	0	0	13
325110	Petrochemicals	W	0	220 <sup>R</sup>	0	0	0	W
325120	Industrial Gases	*	0	*	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0	0	0	0
325182	Carbon Black	1	0	1	0	0	0	0
325188	Other Basic Inorganic Chemicals	*	0	*	0	0	0	0
325192	Cyclic Crudes and Intermediates	*	0	*	0	0	0	*
325193	Ethyl Alcohol	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	143	0	138	0	0	0	4
325211	Plastics Materials and Resins	W	0	79	0	0	0	W
325212	Synthetic Rubber	*	0	*	0	0	0	*
325222	Noncellulosic Organic Fibers	5	0	5	0	0	0	*
325311	Nitrogenous Fertilizers	2	0	2	0	0	0	0
325312	Phosphatic Fertilizers	*	0	*	0	0	0	0
3254	Pharmaceuticals and Medicines	*	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
326	Plastics and Rubber Products	*	0	0	0	0	0	0
327	Nonmetallic Mineral Products	38	0	0	24	0	Q	2
327211	Flat Glass	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0
327310	Cements	16	0	0	15	0	*	2
327410	Lime	10	0	0	10	0	0	*
327420	Gypsum	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0
331	Primary Metals	19	18	*	1	0	1	*
331111	Iron and Steel Mills	18	18	*	*	0	0	*
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0
3313	Alumina and Aluminum	*	0	0	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	*	0	0	0
331315	Aluminum Sheet, Plate and Foils	*	0	0	0	0	0	*
331316	Aluminum Extruded Products	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	1	0	0	0	0	1	0
3315	Foundries	*	0	0	*	0	0	0
331511	Iron Foundries	*	0	0	*	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0

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**Table 3.5 Selected Byproducts In Fuel Consumption, 2006;**  
**Level: National and Regional Data;**  
**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
332	Fabricated Metal Products	0	0	0	0	0	0	0
333	Machinery	0	0	0	0	0	0	0
334	Computer and Electronic Products	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	*	0	*	0	0	0	0
336	Transportation Equipment	1	0	1	0	0	0	0
336111	Automobiles	1	0	1	0	0	0	0
336112	Light Trucks and Utility Vehicles	*	0	*	0	0	0	0
3364	Aerospace Product and Parts	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0
337	Furniture and Related Products	Q	0	0	0	0	Q	0
339	Miscellaneous	*	0	0	0	0	*	0
	Total	2,689	24	1,202	334	677	424	29

**West Census Region**

311	Food	*	0	*	0	0	*	*
3112	Grain and Oilseed Milling	0	0	0	0	0	0	0
311221	Wet Corn Milling	0	0	0	0	0	0	0
31131	Sugar Manufacturing	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	0	0	0	0	0	0	0
3115	Dairy Product	0	0	0	0	0	0	0
3116	Animal Slaughtering and Processing	*	0	*	0	0	0	0
312	Beverage and Tobacco Products	*	0	*	0	0	0	0
3121	Beverages	*	0	*	0	0	0	0
3122	Tobacco	0	0	0	0	0	0	0
313	Textile Mills	0	0	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0
321	Wood Products	44	0	0	0	0	44	*
321113	Sawmills	39	0	0	0	0	39	*
3212	Veneer, Plywood, and Engineered Woods	Q	0	0	0	0	Q	0
3219	Other Wood Products	Q	0	0	0	0	Q	0
322	Paper	118	0	0	*	95	20	3
322110	Pulp Mills	9	0	0	*	9	0	0
322121	Paper Mills, except Newsprint	42	0	0	0	29	12	*
322122	Newsprint Mills	4	0	0	0	0	2	2
322130	Paperboard Mills	64	0	0	*	57	7	*
323	Printing and Related Support	0	0	0	0	0	0	0
324	Petroleum and Coal Products	489	0	380	103	0	0	7
324110	Petroleum Refineries	481	0	380	97	0	0	4
324199	Other Petroleum and Coal Products	6	0	0	6	0	0	0
325	Chemicals	3	0	3	0	0	0	0
325110	Petrochemicals	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	2	0	2	0	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	Q	0	Q	0	0	0	0

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**Table 3.5 Selected Byproducts In Fuel Consumption, 2006;**  
**Level: National and Regional Data;**  
**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
325212	Synthetic Rubber	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	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
326	Plastics and Rubber Products	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	22	0	1	13	0	0	8
327211	Flat Glass	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0
327310	Cements	17	0	0	9	0	0	8
327410	Lime	4	0	0	4	0	0	0
327420	Gypsum	1	0	1	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0
331	Primary Metals	*	0	0	*	0	0	0
331111	Iron and Steel Mills	0	0	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0
3313	Alumina and Aluminum	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	*	0	0	*	0	0	0
3315	Foundries	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0
332	Fabricated Metal Products	0	0	0	0	0	0	0
333	Machinery	0	0	0	0	0	0	0
334	Computer and Electronic Products	*	0	*	0	0	0	0
334413	Semiconductors and Related Devices	*	0	*	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0
336	Transportation Equipment	*	0	*	0	0	0	0
336111	Automobiles	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	0	*	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0
	Total	677	0	384	116	95	65	17

(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.

R=Revised estimates.

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

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**Table 3.5 Selected Byproducts In Fuel Consumption, 2006;**

### **Level: National and Regional Data;**

Row: NAICS Codes; Column: Energy Sources;

Unit: Trillion Btu.

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, '2006 Manufacturing Energy Consumption Survey.'

**Table 3.6 Selected Wood and Wood-Related Products in Fuel Consumption, 2006:**

### Level: National and Regional Data:

Level: National and Regional Data;  
Row: Selected NAICS Codes; Column: Energy Sources:

Unit: Trillion Btu.

## Selected Wood and Wood-Related Products

NAICS Code(a)	Subsector and Industry	Pulping Liquor or Black Liquor	Biomass Total(b)	Agricultural Waste(c)	Wood Harvested Directly from Trees(d)	Biomass		Wood Residues and Byproducts from Mill Processing(e)	Wood-Related and Paper-Related Refuse(f)
						Wood Harvested Directly from Trees(d)	Byproducts from Mill Processing(e)		
Total United States									
311	Food	0	24	17	5	2	*		*
311221	Wet Corn Milling	0	4	0	4	*			C
312	Beverage and Tobacco Products	0	1	0	0	1			C
321	Wood Products	0	217	0	Q	167	9		1
321113	Sawmills	0	84	0	2	81			1
3212	Veneer, Plywood, and Engineered Woods	0	84	0	9	67			8
3219	Other Wood Products	0	Q	0	Q	18			*
322	Paper	850	364	5	39	311	8		
322110	Pulp Mills	120	37	0	*	37			C
322121	Paper Mills, except Newsprint	325	136	*	23	109	3		C
322122	Newsprint Mills	0	11	5	0	4			2
322130	Paperboard Mills	329	147	*	16	129	2		
337	Furniture and Related Products	0	7	0	*	7			C
	Other Manufacturing	0	19	*	Q	8			*
	Total	850	631	22	96	495			17
Northeast Census Region									
311	Food	0	*	0	0	*			C
311221	Wet Corn Milling	0	*	0	0	*			C
312	Beverage and Tobacco Products	0	0	0	0	0			C
321	Wood Products	0	11	0	1	10			C
321113	Sawmills	0	5	0	1	4			C
3212	Veneer, Plywood, and Engineered Woods	0	2	0	*	2			C
3219	Other Wood Products	0	4	0	0	4			C
322	Paper	37	23	0	15	8			*
322110	Pulp Mills	7	2	0	*	2			C
322121	Paper Mills, except Newsprint	28	20	0	15	6			*
322122	Newsprint Mills	0	0	0	0	0			C
322130	Paperboard Mills	0	0	0	0	0			C
337	Furniture and Related Products	0	Q	0	*	Q			C
	Other Manufacturing	0	*	0	*	*			C
	Total	37	35	0	16	19			*

## Midwest Census Region

**Table 3.6 Selected Wood and Wood-Related Products in Fuel Consumption, 2006:**

### Level: National and Regional Data:

Row: Selected NAICS Codes; Column: Energy Sources

Unit: Trillion Btu.

## Selected Wood and Wood-Related Products

NAICS Code(a)	Subsector and Industry	Pulping Liquor or Black Liquor	Biomass					Wood-Related and Paper-Related Refuse(f)
			Biomass Total(b)	Agricultural Waste(c)	Wood Harvested Directly from Trees(d)	Wood Residues and Byproducts from Mill Processing(e)		
311	Food	0	1	*	*	*	*	*
311221	Wet Corn Milling	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	0	0	0	0	0	0	0
321	Wood Products	0	Q	0	Q	14	*	*
321113	Sawmills	0	4	0	0	0	4	0
3212	Veneer, Plywood, and Engineered Woods	0	5	0	0	0	5	0
3219	Other Wood Products	0	Q	0	Q	4	*	*
322	Paper	42	26	*	3	21	3	3
322110	Pulp Mills	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	41	24	*	3	19	3	3
322122	Newsprint Mills	0	0	0	0	0	0	0
322130	Paperboard Mills	1	2	0	0	2	*	*
337	Furniture and Related Products	0	Q	0	0	Q	0	0
	Other Manufacturing	0	1	0	1	*	*	*
	Total	42	71	*	Q	36	36	36

## South Census Region

311	Food	0	23	16	5	1	*
311221	Wet Corn Milling	0	4	0	4	0	C
312	Beverage and Tobacco Products	0	1	0	0	1	C
321	Wood Products	0	120	0	9	102	9
321113	Sawmills	0	36	0	1	34	1
3212	Veneer, Plywood, and Engineered Woods	0	75	0	8	59	8
3219	Other Wood Products	0	7	0	*	7	*
322	Paper	677	287	*	17	267	3
322110	Pulp Mills	105	35	0	*	35	C
322121	Paper Mills, except Newsprint	227	78	0	5	72	*
322122	Newsprint Mills	0	3	0	0	3	C
322130	Paperboard Mills	271	139	*	12	124	2
337	Furniture and Related Products	0	0	0	0	0	C
	Other Manufacturing	0	17	*	Q	8	*
	Total	677	452	17	41	383	12

## West Census Region

**Table 3.6 Selected Wood and Wood-Related Products in Fuel Consumption, 2006;**

Level: National and Regional Data;

Row: Selected NAICS Codes; Column: Energy Sources;

Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Pulping Liquor or Black Liquor	Selected Wood and Wood-Related Products					Wood-Related and Paper-Related Refuse(f)	
			Biomass						
			Biomass Total(b)	Agricultural Waste(c)	Wood Harvested Directly from Trees(d)	Wood Residues and Byproducts from Mill Processing(e)			
311	Food	0	*	0	*	0	0	0	
311221	Wet Corn Milling	0	0	0	0	0	0	0	
312	Beverage and Tobacco Products	0	0	0	0	0	0	0	
321	Wood Products	0	44	0	2	42	0	0	
321113	Sawmills	0	39	0	1	38	0	0	
3212	Veneer, Plywood, and Engineered Woods	0	Q	0	Q	Q	0	0	
3219	Other Wood Products	0	Q	0	Q	Q	0	0	
322	Paper	95	28	5	4	16	3	3	
322110	Pulp Mills	9	0	0	0	0	0	0	
322121	Paper Mills, except Newsprint	29	12	0	0	12	*	*	
322122	Newsprint Mills	0	9	5	0	2	2	2	
322130	Paperboard Mills	57	7	0	4	2	*	*	
337	Furniture and Related Products	0	0	0	0	0	0	0	
	Other Manufacturing	0	*	*	0	0	0	0	
	Total	95	72	5	7	58	3	3	

(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 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

**Table 3.6 Selected Wood and Wood-Related Products in Fuel Consumption, 2006;**

Level: National and Regional Data;

Row: Selected NAICS Codes; Column: Energy Sources;

Unit: Trillion Btu.

		Selected Wood and Wood-Related Products				
NAICS Code(a)	Subsector and Industry	Pulping Liquor or Black Liquor	Biomass			Wood-Related and Paper-Related Refuse(f)
			Biomass Total(b)	Agricultural Waste(c)	Wood Harvested Directly from Trees(d)	

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, '2006 Manufacturing Energy Consumption Survey.'

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**Table 4.1 Offsite-Produced Fuel Consumption, 2006;**

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)
<b>Total United States</b>										
311	Food	1,124	73,551	4	3	618	1	7	*	45
3112	Grain and Oilseed Milling	316	15,536	*	*	115	*	5	0	28
311221	Wet Corn Milling	179	6,801	*	*	51	*	4	0	8
31131	Sugar Manufacturing	67	974	1	*	17	*	1	*	4
3114	Fruit and Vegetable Preserving and Specialty Food	168	9,721	*	*	123	*	*	0	3
3115	Dairy Product	121	10,079	*	*	80	*	*	0	1
3116	Animal Slaughtering and Processing	220	17,545	1	1	141	*	0	0	Q
312	Beverage and Tobacco Products	101	8,822	*	*	40	*	1	0	5
3121	Beverages	89	7,572	*	*	37	*	1	0	5
3122	Tobacco	13	1,250	*	*	3	*	*	0	*
313	Textile Mills	178	19,486	*	*	63	*	1	0	12
314	Textile Product Mills	72	5,919	*	*	45 <sup>R</sup>	*	*	0	*
315	Apparel	14	2,013	*	*	7	*	0	0	*
316	Leather and Allied Products	3	413	*	*	1	*	0	0	*
321	Wood Products	296	27,564	1	3	84	1	Q	*	77
321113	Sawmills	65	7,563	*	1	12	*	0	0	18
3212	Veneer, Plywood, and Engineered Woods	110	9,902	*	*	44	1	*	0	26
3219	Other Wood Products	113	9,736	*	1	27	*	Q	*	Q
322	Paper	1,350 <sup>R</sup>	76,719 <sup>R</sup>	15	2	461	1	10	0	284
322110	Pulp Mills	63	1,683	2	1	13	*	*	0	23
322121	Paper Mills, except Newsprint	567	25,561	8	*	169	*	6	0	133
322122	Newsprint Mills	69	9,294	*	*	8	*	1	0	12
322130	Paperboard Mills	443 <sup>R</sup>	23,515 <sup>R</sup>	5	1	138	*	3	0	112
323	Printing and Related Support	85	13,079	*	*	38	*	0	0	*
324	Petroleum and Coal Products	1,434 <sup>R</sup>	43,983 <sup>R</sup>	6	3	825	1	2	*	318 <sup>R</sup>
324110	Petroleum Refineries	1,275 <sup>R</sup>	40,527 <sup>R</sup>	5	1	766 <sup>R</sup>	1	*	0	305 <sup>R</sup>
324199	Other Petroleum and Coal Products	67	594	0	*	3	*	2	*	10
325	Chemicals	2,772 <sup>R</sup>	158,176 <sup>R</sup>	4	1	1,349 <sup>R</sup>	2	8	*	639 <sup>R</sup>
325110	Petrochemicals	577 <sup>R</sup>	W	1	*	107	*	0	0	W
325120	Industrial Gases	88	20,925 <sup>R</sup>	0	*	13	*	0	0	3
325181	Alkalies and Chlorine	162	8,893	0	*	103	*	1	0	8
325182	Carbon Black	13 <sup>R</sup>	690	*	*	10 <sup>R</sup>	*	0	0	*
325188	Other Basic Inorganic Chemicals	186	24,171	1	*	52	*	1	0	18
325192	Cyclic Crudes and Intermediates	36	2,566	0	*	15	*	0	0	12
325193	Ethyl Alcohol	111	2,717	0	*	80	*	1	0	1
325199	Other Basic Organic Chemicals	514	W	*	*	298	*	2	0	W
325211	Plastics Materials and Resins	451	20,536	*	*	318	2	*	*	36
325212	Synthetic Rubber	44	1,715	*	*	25	*	*	0	5
325222	Noncellulosic Organic Fibers	77	4,911	*	*	33	*	*	0	14
325311	Nitrogenous Fertilizers	126	2,448	0	*	113	*	0	0	1
325312	Phosphatic Fertilizers	20	1,827	*	*	11	*	*	0	*
3254	Pharmaceuticals and Medicines	92	9,224 <sup>R</sup>	*	*	45	*	*	0	5
325412	Pharmaceutical Preparation	64	6,350 <sup>R</sup>	*	*	30	*	*	0	4
325992	Photographic Film, Paper, Plate, and Chemicals	28	1,059	*	*	7	*	1	0	Q
326	Plastics and Rubber Products	336 <sup>R</sup>	53,404	1	1	124 <sup>R</sup>	1	*	0	*
327	Nonmetallic Mineral Products	1,105 <sup>R</sup>	43,914 <sup>R</sup>	1	5	446 <sup>R</sup>	1	14	*	126
327211	Flat Glass	61	1,903	*	*	50	*	0	0	1

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Next MECS will be conducted in 2010

**Table 4.1 Offsite-Produced Fuel Consumption, 2006;**

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)
327212	Other Pressed and Blown Glass and Glassware	91	5,121	0	*	Q	*	0	0	9
327213	Glass Containers	64	3,944	0	*	49	*	0	0	*
327215	Glass Products from Purchased Glass	65 <sup>R</sup>	3,670 <sup>R</sup>	0	*	50 <sup>R</sup>	*	*	0	*
327310	Cements	385	12,931	*	1	19	*	11	*	77
327410	Lime	116	1,431	*	*	5	*	4	*	22
327420	Gypsum	86	1,845	*	*	74	*	0	0	2
327993	Mineral Wool	51	4,032	0	*	33	*	0	*	*
331	Primary Metals	1,353 <sup>R</sup>	136,216 <sup>R</sup>	3	1	568 <sup>R</sup>	1	1	8	52
331111	Iron and Steel Mills	749 <sup>R</sup>	51,381	3	1	317 <sup>R</sup>	*	1	8	25
331112	Electrometallurgical Ferroalloy Products	17	3,178	0	*	1	*	*	*	3
3312	Steel Products from Purchased Steel	43	4,396	0	*	25	*	*	0	2
3313	Alumina and Aluminum	277	45,796 <sup>R</sup>	*	*	113	*	*	0	3
331314	Secondary Smelting and Alloying of Aluminum	21	611	*	*	17	*	*	0	*
331315	Aluminum Sheet, Plate and Foils	52	3,871	0	*	36	*	0	0	2
331316	Aluminum Extruded Products	25	1,994 <sup>R</sup>	*	*	17	*	0	0	*
3314	Nonferrous Metals, except Aluminum	107	14,683	*	*	42 <sup>R</sup>	*	*	*	5
3315	Foundries	158	16,781	*	*	70	*	0	*	14
331511	Iron Foundries	80	8,563	*	*	23	*	0	*	14
331521	Aluminum Die-Casting Foundries	22	1,937	0	*	15	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	17	1,134	*	*	13	*	0	0	*
332	Fabricated Metal Products	396	41,965	*	*	234	1	0	*	Q
333	Machinery	204	32,394	*	*	82	1	*	0	2
334	Computer and Electronic Products	141	27,508	*	*	44	*	0	0	1
334413	Semiconductors and Related Devices	63	12,746	*	*	18	*	0	0	1
335	Electrical Equip., Appliances, and Components	87	12,869	0	*	40	*	0	0	*
336	Transportation Equipment	476	57,250 <sup>R</sup>	1	*	242	1	*	*	13
336111	Automobiles	39	3,899	*	*	21	*	*	0	2
336112	Light Trucks and Utility Vehicles	43	4,495	*	*	24	*	*	0	1
3364	Aerospace Product and Parts	77	11,519 <sup>R</sup>	*	*	30	*	*	0	3
336411	Aircraft	21	3,446	*	*	8	*	0	0	*
337	Furniture and Related Products	54	9,264	*	*	16	*	*	0	1
339	Miscellaneous	66	9,677	*	*	24	*	0	0	Q
	Total	11,647 <sup>R</sup>	854,186 <sup>R</sup>	37	21	5,351 <sup>R</sup>	14	46	9	1,586 <sup>R</sup>

**Northeast Census Region**

311	Food	59	5,445	1	*	32	*	0	0	Q
3112	Grain and Oilseed Milling	4	511	*	*	2	*	0	0	*
311221	Wet Corn Milling	*	11	*	*	0	0	0	0	*
31131	Sugar Manufacturing	3	6	0	*	3	*	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Food	7	690	*	*	3	*	0	0	Q
3115	Dairy Product	13	1,223	*	*	7	*	0	0	*
3116	Animal Slaughtering and Processing	4	586	0	*	2	*	0	0	*
312	Beverage and Tobacco Products	12	1,112	*	*	6	*	0	0	*
3121	Beverages	11	1,090	*	*	6	*	0	0	*
3122	Tobacco	1	23	*	*	*	*	0	0	*
313	Textile Mills	14	1,378	*	*	7	*	0	0	*
314	Textile Product Mills	4	485	0	*	1	*	*	0	0
315	Apparel	1	132	0	*	*	*	0	0	0

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Next MECS will be conducted in 2010

**Table 4.1 Offsite-Produced Fuel Consumption, 2006;**

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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)
316	Leather and Allied Products	1	175	*	*	*	*	0	0	0
321	Wood Products	17	1,804	*	*	6	*	0	0	3
321113	Sawmills	5	522	*	*	Q	*	0	0	2
3212	Veneer, Plywood, and Engineered Woods	6	564	0	*	3	*	0	0	*
3219	Other Wood Products	5	704	0	*	2	*	0	0	Q
322	Paper	181 <sup>R</sup>	8,321 <sup>R</sup>	4	*	63	*	1	0	43
322110	Pulp Mills	2	31	*	*	*	*	0	0	*
322121	Paper Mills, except Newsprint	127	4,365	3	*	39	*	1	0	37
322122	Newsprint Mills	3	305	*	*	0	*	0	0	0
322130	Paperboard Mills	21 <sup>R</sup>	1,159 <sup>R</sup>	*	*	10	*	0	0	4
323	Printing and Related Support	13	1,947	*	*	5	*	0	0	*
324	Petroleum and Coal Products	89	4,095 <sup>R</sup>	1	1	45	*	*	*	10
324110	Petroleum Refineries	66	3,214 <sup>R</sup>	1	*	37	*	*	0	10
324199	Other Petroleum and Coal Products	3	282	0	*	*	*	*	*	*
325	Chemicals	143	11,141 <sup>R</sup>	2	*	64	*	1	0	12
325110	Petrochemicals	*	19	0	*	*	*	0	0	0
325120	Industrial Gases	11	2,048	0	0	1	*	0	0	2
325181	Alkalies and Chlorine	8	1,664	0	*	1	*	0	0	2
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	11	866	1	*	2	*	0	0	*
325192	Cyclic Crudes and Intermediates	6	178	0	*	4	*	0	0	1
325193	Ethyl Alcohol	*	1	0	0	*	*	0	0	0
325199	Other Basic Organic Chemicals	10	592	*	*	5	*	0	0	2
325211	Plastics Materials and Resins	14	1,078	*	*	7	*	0	0	2
325212	Synthetic Rubber	1	56	0	*	*	*	0	0	*
325222	Noncellulosic Organic Fibers	*	53	*	*	*	*	0	0	0
325311	Nitrogenous Fertilizers	1	39	0	0	1	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	39	3,010 <sup>R</sup>	*	*	24	*	0	0	2
325412	Pharmaceutical Preparation	30	2,024 <sup>R</sup>	*	*	19	*	0	0	2
325992	Photographic Film, Paper, Plate, and Chemicals	20	310	*	*	3	*	1	0	*
326	Plastics and Rubber Products	49	6,856	*	*	21	Q	0	0	*
327	Nonmetallic Mineral Products	137 <sup>R</sup>	5,373 <sup>R</sup>	*	1	56 <sup>R</sup>	*	2	*	15
327211	Flat Glass	11	352	0	*	9	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	15	356	0	*	4	*	0	0	9
327213	Glass Containers	13	759	0	*	10	*	0	0	*
327215	Glass Products from Purchased Glass	3 <sup>R</sup>	374 <sup>R</sup>	0	*	1 <sup>R</sup>	*	*	0	*
327310	Cements	44	1,450	*	*	*	*	1	*	5
327410	Lime	4	77	*	*	0	*	*	0	*
327420	Gypsum	10	201	*	*	8	*	0	0	*
327993	Mineral Wool	7	395	0	*	6	*	0	*	*
331	Primary Metals	149	17,044 <sup>R</sup>	*	*	80	*	*	*	3
331111	Iron and Steel Mills	76	7,573	0	*	48	*	*	0	1
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	10	644	0	*	7	*	0	0	1
3313	Alumina and Aluminum	32	5,384 <sup>R</sup>	*	*	12	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	1	39	*	*	*	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	8	511	0	*	5	*	0	0	*
331316	Aluminum Extruded Products	5	288 <sup>R</sup>	*	*	4	*	0	0	*
3314	Nonferrous Metals, except Aluminum	20	2,256	*	*	8	*	*	*	*

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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)
3315	Foundries	11	1,186	*	*	6	*	0	*	*
331511	Iron Foundries	4	551	*	*	2	*	0	*	*
331521	Aluminum Die-Casting Foundries	2	137	0	*	2	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	109	*	*	1	*	0	0	*
332	Fabricated Metal Products	53	5,267	*	*	29	*	0	*	Q
333	Machinery	Q	5,066	*	*	Q	*	0	0	*
334	Computer and Electronic Products	27	5,015	*	*	9	*	0	0	*
334413	Semiconductors and Related Devices	12	2,180	*	*	4	*	0	0	*
335	Electrical Equip., Appliances, and Components	9	1,522	0	*	3	*	0	0	*
336	Transportation Equipment	61	6,703 <sup>R</sup>	*	*	Q	*	0	0	Q
336111	Automobiles	*	1	0	0	*	*	0	0	0
336112	Light Trucks and Utility Vehicles	*	*	0	*	0	0	0	0	0
3364	Aerospace Product and Parts	11	1,098 <sup>R</sup>	*	*	5	*	0	0	*
336411	Aircraft	1	204	0	*	*	*	0	0	*
337	Furniture and Related Products	5	673	*	*	2	*	0	0	*
339	Miscellaneous	23	2,622	*	*	6	*	0	0	Q
	Total	1,081 <sup>R</sup>	92,174 <sup>R</sup>	10	4	480 <sup>R</sup>	2	3	*	100

**Midwest Census Region**

311	Food	565	30,834	2	*	289	*	5	*	28
3112	Grain and Oilseed Milling	256	11,421	*	*	89	*	5	0	20
311221	Wet Corn Milling	160	5,839	0	*	48	*	4	0	3
31131	Sugar Manufacturing	23	600	*	*	5	*	1	*	*
3114	Fruit and Vegetable Preserving and Specialty Food	Q	2,889	*	*	Q	*	*	0	*
3115	Dairy Product	45	3,723	*	*	29	*	*	0	1
3116	Animal Slaughtering and Processing	111	6,846	*	*	76	*	0	0	Q
312	Beverage and Tobacco Products	20	1,488	*	*	8	*	*	0	*
3121	Beverages	19	1,471	*	*	8	*	*	0	*
3122	Tobacco	*	17	0	*	*	0	0	0	*
313	Textile Mills	Q	Q	0	0	*	*	0	0	0
314	Textile Product Mills	Q	Q	0	0	*	*	0	0	0
315	Apparel	*	48	0	0	*	0	0	0	0
316	Leather and Allied Products	1	123	0	0	1	*	0	0	*
321	Wood Products	114	7,515	*	1	38	*	Q	*	Q
321113	Sawmills	3	344	0	*	1	*	0	0	1
3212	Veneer, Plywood, and Engineered Woods	22	1,149	*	*	16	*	*	0	*
3219	Other Wood Products	88	5,976	*	Q	Q	*	Q	*	Q
322	Paper	228	14,536	1	*	74	*	3	0	32
322110	Pulp Mills	1	160	0	*	*	*	0	0	*
322121	Paper Mills, except Newsprint	134	7,156	1	*	35	*	2	0	21
322122	Newsprint Mills	4	515	0	*	*	*	0	0	2
322130	Paperboard Mills	41	2,394	*	*	12	*	1	0	7
323	Printing and Related Support	30	5,222	0	*	12	*	0	0	*
324	Petroleum and Coal Products	225 <sup>R</sup>	9,124	*	*	105	*	2	0	32 <sup>R</sup>
324110	Petroleum Refineries	148	8,061 <sup>R</sup>	*	*	85	*	*	0	32 <sup>R</sup>
324199	Other Petroleum and Coal Products	52	57	0	*	1	*	2	0	*
325	Chemicals	430	41,376 <sup>R</sup>	*	*	196	1	2	*	32
325110	Petrochemicals	3	276	0	*	2	0	0	0	*
325120	Industrial Gases	26	7,264 <sup>R</sup>	0	0	1	*	0	0	*

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325181	Alkalies and Chlorine	1	209	0	*	*	*	0	0	*
325182	Carbon Black	1	62	0	*	*	*	0	0	*
325188	Other Basic Inorganic Chemicals	18	1,248	*	*	11	*	*	0	2
325192	Cyclic Crudes and Intermediates	9	193	0	*	1	*	0	0	7
325193	Ethyl Alcohol	108	2,624	0	*	78	*	1	0	*
325199	Other Basic Organic Chemicals	62	4,013	0	*	29	*	1	0	7
325211	Plastics Materials and Resins	46	3,610	0	*	19	1	*	*	3
325212	Synthetic Rubber	5	260	0	*	1	*	*	0	*
325222	Noncellulosic Organic Fibers	*	5	0	0	*	0	0	0	0
325311	Nitrogenous Fertilizers	17	544	0	*	14	*	0	0	1
325312	Phosphatic Fertilizers	*	*	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	28	2,775	0	*	9	*	*	0	3
325412	Pharmaceutical Preparation	20	2,142	0	*	5	*	*	0	3
325992	Photographic Film, Paper, Plate, and Chemicals	1	149	0	*	*	*	0	0	0
326	Plastics and Rubber Products	129	23,080	0	*	48	*	0	0	*
327	Nonmetallic Mineral Products	315	12,906	0	Q	128	*	4	*	43
327211	Flat Glass	17	465	0	*	15	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	Q	Q	0	*	Q	*	0	0	*
327213	Glass Containers	15	885	0	*	12	*	0	0	*
327215	Glass Products from Purchased Glass	9	1,708	0	*	3	*	0	0	*
327310	Cements	105	3,177	0	*	10	*	2	0	34
327410	Lime	46	459	0	*	2	*	2	*	8
327420	Gypsum	15	399	0	*	13	*	0	0	*
327993	Mineral Wool	21	1,683	0	*	14	*	0	*	*
331	Primary Metals	691 <sup>R</sup>	47,081	2	*	279 <sup>R</sup>	*	1	7	43
331111	Iron and Steel Mills	467 <sup>R</sup>	20,686	2	*	184 <sup>R</sup>	*	*	6	21
331112	Electrometallurgical Ferroalloy Products	13	2,147	0	*	1	*	*	*	3
3312	Steel Products from Purchased Steel	21	2,067	0	*	13	*	*	0	*
3313	Alumina and Aluminum	53	7,220	0	*	26	*	0	0	1
331314	Secondary Smelting and Alloying of Aluminum	11	257	0	*	10	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	15	1,178	0	*	9	*	0	0	1
331316	Aluminum Extruded Products	8	760	0	*	5	*	0	0	*
3314	Nonferrous Metals, except Aluminum	37	5,051	0	*	12	*	0	*	4
3315	Foundries	100	9,909	0	*	43	*	0	*	14
331511	Iron Foundries	54	5,345	0	*	13	*	0	*	14
331521	Aluminum Die-Casting Foundries	15	1,424	0	*	10	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	11	616	0	*	9	*	0	0	*
332	Fabricated Metal Products	184	17,626	0	*	118	1	0	0	*
333	Machinery	116	18,701	0	*	46	*	*	0	1
334	Computer and Electronic Products	24	4,232	0	*	9	*	0	0	*
334413	Semiconductors and Related Devices	3	645	0	0	1	*	0	0	*
335	Electrical Equip., Appliances, and Components	27	4,300	0	*	12	*	0	0	*
336	Transportation Equipment	278	29,735	*	*	157	1	*	*	6
336111	Automobiles	26	2,324	*	*	14	*	*	0	1
336112	Light Trucks and Utility Vehicles	27	2,468	0	*	16	*	*	0	1
3364	Aerospace Product and Parts	14	2,017	*	*	5	*	0	0	1
336411	Aircraft	5	804	0	*	2	*	0	0	*

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337	Furniture and Related Products	23	2,935	0	*	10	*	*	0	*
339	Miscellaneous	17	2,719	*	*	8	*	0	0	*
	Total	3,418 <sup>R</sup>	273,828 <sup>R</sup>	6	4	1,537 <sup>R</sup>	5	18	7	247 <sup>R</sup>
<b>South Census Region</b>										
311	Food	290	24,201	2	1	165	*	1	0	10
3112	Grain and Oilseed Milling	48	3,027	*	*	19	*	*	0	7
311221	Wet Corn Milling	17	885	0	*	3	*	*	0	4
31131	Sugar Manufacturing	19	143	1	*	8	*	*	0	1
3114	Fruit and Vegetable Preserving and Specialty Food	29	2,309	*	*	19	*	0	0	1
3115	Dairy Product	11	1,399	0	*	6	*	0	0	0
3116	Animal Slaughtering and Processing	83	8,550	*	*	48	*	0	0	*
312	Beverage and Tobacco Products	41	4,124	*	*	17	*	*	0	1
3121	Beverages	30	2,914	*	*	14	*	*	0	1
3122	Tobacco	12	1,210	*	*	3	*	*	0	*
313	Textile Mills	160	17,917	*	*	53	*	1	0	12
314	Textile Product Mills	65	5,145	*	*	0	*	*	0	*
315	Apparel	12	1,686	*	*	6	*	0	0	*
316	Leather and Allied Products	*	93	0	0	*	*	0	0	0
321	Wood Products	106	12,145	*	1	23	1	*	0	34
321113	Sawmills	25	3,674	*	*	2	*	0	0	8
3212	Veneer, Plywood, and Engineered Woods	65	6,140	*	*	17	*	*	0	23
3219	Other Wood Products	13	2,112	*	*	2	*	0	0	2
322	Paper	746	36,288	8	1	243	*	6	0	181
322110	Pulp Mills	57	W	1	1	W	*	*	0	22
322121	Paper Mills, except Newsprint	251	10,805	3	*	69	*	3	0	61
322122	Newsprint Mills	15	3,468	0	*	*	*	*	0	2
322130	Paperboard Mills	305	12,651	4	1	78	*	3	0	94
323	Printing and Related Support	37	5,002	0	*	19	*	0	0	*
324	Petroleum and Coal Products	816 <sup>R</sup>	23,782 <sup>R</sup>	4	1	490	*	0	0	198 <sup>R</sup>
324110	Petroleum Refineries	791 <sup>R</sup>	22,800 <sup>R</sup>	4	*	478 <sup>R</sup>	*	0	0	194 <sup>R</sup>
324199	Other Petroleum and Coal Products	6	233	0	*	1	*	0	0	3
325	Chemicals	2,098 <sup>R</sup>	96,272 <sup>R</sup>	2	1	1,048 <sup>R</sup>	*	4	0	592 <sup>R</sup>
325110	Petrochemicals	574 <sup>R</sup>	W	1	*	104	*	0	0	W
325120	Industrial Gases	44	9,514	0	*	10	*	0	0	1
325181	Alkalies and Chlorine	128	5,691	0	*	91	*	*	0	5
325182	Carbon Black	13 <sup>R</sup>	628	*	*	10 <sup>R</sup>	*	0	0	*
325188	Other Basic Inorganic Chemicals	120	18,994	1	*	29	*	*	0	15
325192	Cyclic Crudes and Intermediates	22	2,191	0	*	10	*	0	0	4
325193	Ethyl Alcohol	2	47	0	*	2	*	0	0	*
325199	Other Basic Organic Chemicals	439	W	*	*	262	*	2	0	W
325211	Plastics Materials and Resins	389	15,614	*	*	290	*	*	0	31
325212	Synthetic Rubber	39	1,380	*	*	25	*	*	0	5
325222	Noncellulosic Organic Fibers	76	4,853	*	*	33	*	*	0	14
325311	Nitrogenous Fertilizers	103	1,640	0	*	95	*	0	0	*
325312	Phosphatic Fertilizers	16	W	*	*	W	*	*	0	*
3254	Pharmaceuticals and Medicines	18	2,427	*	*	8	*	0	0	1
325412	Pharmaceutical Preparation	10	1,596	*	*	4	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	4	W	0	*	W	*	0	0	Q

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Next MECS will be conducted in 2010

**Table 4.1 Offsite-Produced Fuel Consumption, 2006;**

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)
326	Plastics and Rubber Products	140 <sup>R</sup>	19,701	1	*	51 <sup>R</sup>	*	*	0	*
327	Nonmetallic Mineral Products	470	19,041	*	1	206	Q	6	*	43
327211	Flat Glass	24	868	0	*	20	*	0	0	1
327212	Other Pressed and Blown Glass and Glassware	23	1,746	0	*	17	*	0	0	*
327213	Glass Containers	22	1,341	0	*	17	*	0	0	*
327215	Glass Products from Purchased Glass	52	1,299	0	*	Q	*	*	0	*
327310	Cements	147	5,406	*	*	5	*	4	*	20
327410	Lime	48	648	0	*	3	*	1	*	10
327420	Gypsum	35	848	0	*	31	*	0	0	*
327993	Mineral Wool	17	1,416	0	*	11	*	0	*	*
331	Primary Metals	420	59,919	1	*	165	*	*	1	3
331111	Iron and Steel Mills	174	19,830	1	*	68	*	*	1	1
331112	Electrometallurgical Ferroalloy Products	4	1,028	0	*	*	0	0	0	*
3312	Steel Products from Purchased Steel	11	1,504	0	*	5	*	0	0	*
3313	Alumina and Aluminum	170	29,070	0	*	67	*	*	0	1
331314	Secondary Smelting and Alloying of Aluminum	7	269	0	*	6	*	*	0	*
331315	Aluminum Sheet, Plate and Foils	26	1,888	0	*	19	*	0	0	*
331316	Aluminum Extruded Products	9	708	0	*	5	*	0	0	*
3314	Nonferrous Metals, except Aluminum	23	3,662	0	*	8	*	*	*	1
3315	Foundries	38	4,825	0	*	17	*	0	*	*
331511	Iron Foundries	20	2,541	0	*	7	*	0	*	*
331521	Aluminum Die-Casting Foundries	4	331	0	*	3	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	4	330	0	*	3	*	0	0	*
332	Fabricated Metal Products	124	13,937	*	*	71	*	0	0	*
333	Machinery	47	7,234	0	*	20	*	0	0	*
334	Computer and Electronic Products	35	7,673	0	*	9	*	0	0	*
334413	Semiconductors and Related Devices	16	3,356	0	*	4	*	0	0	*
335	Electrical Equip., Appliances, and Components	46	6,326	0	*	23	*	0	0	*
336	Transportation Equipment	102	15,678	*	*	38	*	*	0	4
336111	Automobiles	12	1,360	*	*	5	*	*	0	1
336112	Light Trucks and Utility Vehicles	16	2,026	*	*	9	*	0	0	*
3364	Aerospace Product and Parts	26	4,253	*	*	9	*	*	0	2
336411	Aircraft	9	1,502	*	*	3	*	0	0	*
337	Furniture and Related Products	25	5,112	0	*	4	*	*	0	1
339	Miscellaneous	19	2,720	0	*	9	*	0	0	*
	Total	5,802 <sup>R</sup>	383,995	19	8	2,703 <sup>R</sup>	5	18	1	1,079

**West Census Region**

311	Food	210	13,071	*	1	131	*	1	*	6
3112	Grain and Oilseed Milling	8	578	0	*	5	*	0	0	1
311221	Wet Corn Milling	2	65	0	*	1	*	0	0	1
31131	Sugar Manufacturing	22	225	0	*	2	*	1	*	3
3114	Fruit and Vegetable Preserving and Specialty Food	63	3,834	*	*	46	*	0	0	1
3115	Dairy Product	52	3,734	0	*	38	*	0	0	*
3116	Animal Slaughtering and Processing	22	1,563	0	*	15	*	0	0	*
312	Beverage and Tobacco Products	28	2,097	0	*	9	*	*	0	4
3121	Beverages	28	2,097	0	*	9	*	*	0	4
3122	Tobacco	0	0	0	0	0	0	0	0	0
313	Textile Mills	Q	Q	0	0	Q	*	0	0	0

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**Table 4.1 Offsite-Produced Fuel Consumption, 2006;**

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)
314	Textile Product Mills	2	103	0	0	1	*	*	0	0
315	Apparel	1	147	0	0	*	0	0	0	0
316	Leather and Allied Products	*	22	0	*	*	*	0	0	*
321	Wood Products	59	6,100	*	1	17	*	0	0	12
321113	Sawmills	32	3,023	*	1	8 <sup>R</sup>	*	0	0	8
3212	Veneer, Plywood, and Engineered Woods	17	2,049	0	*	7	*	0	0	2
3219	Other Wood Products	7	943	*	*	2	*	0	0	Q
322	Paper	195	17,574	1	*	82	*	1	0	28
322110	Pulp Mills	3	W	*	*	W	*	0	0	*
322121	Paper Mills, except Newsprint	55	3,234	1	*	25	*	0	0	14
322122	Newsprint Mills	47	5,006	*	*	8	*	1	0	8
322130	Paperboard Mills	75	7,311	*	*	38	*	*	0	6
323	Printing and Related Support	5	908	0	0	2	*	0	0	0
324	Petroleum and Coal Products	304 <sup>R</sup>	6,983	1	1	185	*	0	0	78 <sup>R</sup>
324110	Petroleum Refineries	270 <sup>R</sup>	6,453	1	*	166	*	0	0	70 <sup>R</sup>
324199	Other Petroleum and Coal Products	6	22	0	*	*	*	0	0	6
325	Chemicals	100	9,387	*	*	40	*	1	0	3
325110	Petrochemicals	*	2	0	0	*	*	0	0	0
325120	Industrial Gases	7	2,099	0	0	*	0	0	0	0
325181	Alkalies and Chlorine	25	1,329	0	*	12	*	*	0	1
325182	Carbon Black	*	*	0	0	*	*	0	0	0
325188	Other Basic Inorganic Chemicals	37	3,062	*	*	10	*	1	0	*
325192	Cyclic Crudes and Intermediates	*	5	0	0	*	*	0	0	*
325193	Ethyl Alcohol	2	44	0	*	*	*	0	0	1
325199	Other Basic Organic Chemicals	4	217	0	*	2	*	0	0	1
325211	Plastics Materials and Resins	2	234	0	*	1	*	0	0	*
325212	Synthetic Rubber	*	19	0	0	*	*	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	5	224	0	*	4	*	0	0	*
325312	Phosphatic Fertilizers	4	W	0	*	W	*	0	0	*
3254	Pharmaceuticals and Medicines	8	1,012	0	*	4	*	0	0	*
325412	Pharmaceutical Preparation	5	587	0	*	3	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	3	W	0	*	W	*	0	0	0
326	Plastics and Rubber Products	18	3,767	0	*	4	*	0	0	*
327	Nonmetallic Mineral Products	182	6,595	*	Q	57	*	3	*	25
327211	Flat Glass	8	218	*	*	6	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	1	113	0	*	1	*	0	0	*
327213	Glass Containers	14	959	0	*	10	*	0	0	*
327215	Glass Products from Purchased Glass	1	290	0	*	*	*	0	0	*
327310	Cements	89	2,897	0	*	4	*	2	*	18
327410	Lime	18	248	*	*	*	*	1	0	4
327420	Gypsum	26	397	0	*	22	*	0	0	2
327993	Mineral Wool	5	537	0	*	3	*	0	0	*
331	Primary Metals	92	12,172	0	*	45	*	0	*	3
331111	Iron and Steel Mills	32	3,292	0	*	18	*	0	*	2
331112	Electrometallurgical Ferroalloy Products	*	3	0	*	*	*	0	0	*
3312	Steel Products from Purchased Steel	1	181	0	*	1	*	0	0	*
3313	Alumina and Aluminum	22	4,122	0	*	8	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	2	45	0	*	2	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	3	293	0	*	2	*	0	0	*
331316	Aluminum Extruded Products	4	238	0	*	3	*	0	0	*

**Table 4.1 Offsite-Produced Fuel Consumption, 2006;**

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)
3314	Nonferrous Metals, except Aluminum	27	3,713	0	*	14	*	0	0	*
3315	Foundries	9	861	0	*	5	*	0	*	*
331511	Iron Foundries	2	126	0	*	1	*	0	*	*
331521	Aluminum Die-Casting Foundries	1	45	0	0	*	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	79	0	*	1	*	0	0	*
332	Fabricated Metal Products	35	5,135	0	*	16	*	0	0	*
333	Machinery	7	1,393	0	*	2	*	0	0	*
334	Computer and Electronic Products	54	10,589	0	*	17	*	0	0	1
334413	Semiconductors and Related Devices	32	6,564	0	*	9	*	0	0	1
335	Electrical Equip., Appliances, and Components	5	720	0	*	Q	*	0	0	*
336	Transportation Equipment	36	5,134 <sup>R</sup>	0	*	16	*	0	0	*
336111	Automobiles	2	214	0	*	1	*	0	0	*
336112	Light Trucks and Utility Vehicles	*	1	0	0	*	0	0	0	0
3364	Aerospace Product and Parts	25	4,151 <sup>R</sup>	0	*	10	*	0	0	*
336411	Aircraft	6	937	0	*	2	*	0	0	*
337	Furniture and Related Products	2	544	0	0	1 <sup>R</sup>	*	0	0	*
339	Miscellaneous	7	1,615	0	*	1	*	0	0	*
	Total	1,347 <sup>R</sup>	104,188 <sup>R</sup>	3	5	631	2	6	*	160 <sup>R</sup>

(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.

R=Revised estimates.

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

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**Table 4.1 Offsite-Produced Fuel Consumption, 2006;**

Level: National and Regional Data;

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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)
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and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006.

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**Table 4.2 Offsite-Produced Fuel Consumption, 2006;**

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)
<b>Total United States</b>										
311	Food	1,124	251	26	16	635	3	147	1	45
3112	Grain and Oilseed Milling	316	53	2	1	118	*	114	0	28
311221	Wet Corn Milling	179	23	*	*	52	*	95	0	8
31131	Sugar Manufacturing	67	3	9	1	18	*	31	1	4
3114	Fruit and Vegetable Preserving and Specialty Food	168	33	2	1	126	1	1	0	3
3115	Dairy Product	121	34	1	1	83	*	*	0	1
3116	Animal Slaughtering and Processing	220	60	3	5	145	1	0	0	Q
312	Beverage and Tobacco Products	101	30	3	1	41	1	20	0	5
3121	Beverages	89	26	2	1	38	1	16	0	5
3122	Tobacco	13	4	1	*	3	*	4	0	*
313	Textile Mills	178	66	2	*	65	*	32	0	12
314	Textile Product Mills	72	20	Q	*	46 <sup>R</sup>	1 <sup>R</sup>	3	0	*
315	Apparel	14	7	*	*	7	*	0	0	*
316	Leather and Allied Products	3	1	*	*	1	*	0	0	*
321	Wood Products	296	94	4	15	86	4	Q	Q	77
321113	Sawmills	65	26	*	8	12	*	0	0	18
3212	Veneer, Plywood, and Engineered Woods	110	34	*	1	45	2	2	0	26
3219	Other Wood Products	113	33	*	5	28	1	Q	Q	Q
322	Paper	1,350 <sup>R</sup>	262 <sup>R</sup>	91	13	474	5	221	0	284
322110	Pulp Mills	63	6	11	4	13	*	6	0	23
322121	Paper Mills, except Newsprint	567	87	47	2	174	1	122	0	133
322122	Newsprint Mills	69	32	2	*	8	*	14	0	12
322130	Paperboard Mills	443 <sup>R</sup>	80 <sup>R</sup>	29	6	142	*	73	0	112
323	Printing and Related Support	85	45	*	*	39	1	0	0	*
324	Petroleum and Coal Products	1,434 <sup>R</sup>	150	40	19	849	5	53	*	318 <sup>R</sup>
324110	Petroleum Refineries	1,275 <sup>R</sup>	138	35	3	789 <sup>R</sup>	5	1	0	305 <sup>R</sup>
324199	Other Petroleum and Coal Products	67	2	0	*	3	*	52	*	10
325	Chemicals	2,772 <sup>R</sup>	540	23	8	1,388 <sup>R</sup>	7	167	*	639 <sup>R</sup>
325110	Petrochemicals	577 <sup>R</sup>	W	5	*	110	*	0	0	W
325120	Industrial Gases	88	71	0	*	14	*	0	0	3
325181	Alkalies and Chlorine	162	30	0	*	106	*	16	0	8
325182	Carbon Black	13 <sup>R</sup>	2	*	*	11 <sup>R</sup>	*	0	0	*
325188	Other Basic Inorganic Chemicals	186	82	9	1	54	*	23	0	18
325192	Cyclic Crudes and Intermediates	36	9	0	*	16	*	0	0	12
325193	Ethyl Alcohol	111	9	0	*	82	*	19	0	1
325199	Other Basic Organic Chemicals	514	W	2	2	306	*	54	0	W
325211	Plastics Materials and Resins	451	70	*	1	327	6	11	*	36
325212	Synthetic Rubber	44	6	*	*	26	*	6	0	5
325222	Noncellulosic Organic Fibers	77	17	3	*	34	*	9	0	14
325311	Nitrogenous Fertilizers	126	8	0	*	117	*	0	0	1
325312	Phosphatic Fertilizers	20	6	*	1	11	*	2	0	*
3254	Pharmaceuticals and Medicines	92	31	1	1	46	*	6	0	5
325412	Pharmaceutical Preparation	64	22	1	1	31	*	5	0	4

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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	Coke and Breeze	Other(f)
325992	Photographic Film, Paper, Plate, and Chemicals	28	4	*	*	7	*	16	0	0	Q
326	Plastics and Rubber Products	336 <sup>R</sup>	182	9	3	127	5	Q	0	0	*
327	Nonmetallic Mineral Products	1,105 <sup>R</sup>	150	3	30	459 <sup>R</sup>	5	320	11	126	
327211	Flat Glass	61	6	1	*	52	*	0	0	0	1
327212	Other Pressed and Blown Glass and Glassware	91	17	0	*	Q	*	0	0	0	9
327213	Glass Containers	64	13	0	*	50	*	0	0	0	*
327215	Glass Products from Purchased Glass	65 <sup>R</sup>	13	0	*	52 <sup>R</sup>	*	*	0	0	*
327310	Cements	385	44	1	3	20	*	235	5	5	77
327410	Lime	116	5	*	1	5	*	78	4	4	22
327420	Gypsum	86	6	*	1	76	*	0	0	0	2
327993	Mineral Wool	51	14	0	*	34	*	0	3	3	*
331	Primary Metals	1,353 <sup>R</sup>	465	19	6	585 <sup>R</sup>	4	21	201	52	
331111	Iron and Steel Mills	749 <sup>R</sup>	175	19	3	326 <sup>R</sup>	*	14	186	25	
331112	Electrometallurgical Ferroalloy Products	17	11	0	*	1	*	2	*	3	
3312	Steel Products from Purchased Steel	43	15	0	*	26	*	*	0	2	
3313	Alumina and Aluminum	277	156	*	1	116	1	*	0	0	3
331314	Secondary Smelting and Alloying of Aluminum	21	2	*	*	18	*	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	52	13	0	*	37	*	0	0	0	2
331316	Aluminum Extruded Products	25	7	*	*	17	1	0	0	0	*
3314	Nonferrous Metals, except Aluminum	107	50	*	1	43 <sup>R</sup>	1	4	3	5	
3315	Foundries	158	57	*	1	72	1	0	12	14	
331511	Iron Foundries	80	29	*	1	24	*	0	12	14	
331521	Aluminum Die-Casting Foundries	22	7	0	*	15	*	0	0	*	
331524	Aluminum Foundries, except Die-Casting	17	4	*	*	13	*	0	0	*	
332	Fabricated Metal Products	396	143	*	2	240	4	0	Q	Q	
333	Machinery	204	111	Q	2	84	3	1	0	0	2
334	Computer and Electronic Products	141	94	*	1	45	*	0	0	0	1
334413	Semiconductors and Related Devices	63	43	*	*	19	*	0	0	0	1
335	Electrical Equip., Appliances, and Components	87	44	0	Q	41	1	0	0	0	*
336	Transportation Equipment	476	195	7	3	249	4	5	Q	13	
336111	Automobiles	39	13	*	*	21	*	2	0	0	2
336112	Light Trucks and Utility Vehicles	43	15	*	*	25	*	1	0	0	1
3364	Aerospace Product and Parts	77	39	3	1	30	*	*	0	0	3
336411	Aircraft	21	12	*	*	8	*	0	0	*	
337	Furniture and Related Products	54	32	*	Q	17	1	3	0	0	1
339	Miscellaneous	66	33	Q	*	25	1	0	0	0	Q
	Total	11,647 <sup>R</sup>	2,914 <sup>R</sup>	233	121	5,506 <sup>R</sup>	54	1,016	216	1,586 <sup>R</sup>	

**Northeast Census Region**

311	Food	59	19	3	3	33	*	0	0	0	Q
3112	Grain and Oilseed Milling	4	2	*	*	2	*	0	0	0	*
311221	Wet Corn Milling	*	*	*	*	0	0	0	0	0	*
31131	Sugar Manufacturing	3	*	0	*	3	*	0	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Food	7	2	1	*	3	*	0	0	0	Q
3115	Dairy Product	13	4	*	1	8	*	0	0	0	*

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**Table 4.2 Offsite-Produced Fuel Consumption, 2006;**

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)
3116	Animal Slaughtering and Processing	4	2	0	*	2	*	0	0	*
312	Beverage and Tobacco Products	12	4	1	*	6	*	0	0	*
3121	Beverages	11	4	1	*	6	*	0	0	*
3122	Tobacco	1	*	*	*	*	*	0	0	*
313	Textile Mills	14	5	2	*	7	*	0	0	*
314	Textile Product Mills	4	2	0	*	1	*	Q	0	0
315	Apparel	1	*	0	*	*	*	0	0	0
316	Leather and Allied Products	1	1	*	*	*	*	0	0	0
321	Wood Products	17	6	*	1	6	*	0	0	3
321113	Sawmills	5	2	*	1	Q	*	0	0	2
3212	Veneer, Plywood, and Engineered Woods	6	2	0	*	3	*	0	0	*
3219	Other Wood Products	5	2	0	*	2	*	0	0	Q
322	Paper	181 <sup>R</sup>	28 <sup>R</sup>	27	1	65	2	15	0	43
322110	Pulp Mills	2	*	2	*	*	*	0	0	*
322121	Paper Mills, except Newsprint	127	15	20	1	40	*	14	0	37
322122	Newsprint Mills	3	1	2	*	0	*	0	0	0
322130	Paperboard Mills	21 <sup>R</sup>	4 <sup>R</sup>	2	*	10	*	0	0	4
323	Printing and Related Support	13	7	*	*	6	*	0	0	*
324	Petroleum and Coal Products	89	14	9	6	46	1	2	*	10
324110	Petroleum Refineries	66	11	5	*	38	1	1	0	10
324199	Other Petroleum and Coal Products	3	1	0	*	*	*	2	*	*
325	Chemicals	143	38	10	2	65	*	16	0	12
325110	Petrochemicals	*	*	0	*	*	*	0	0	0
325120	Industrial Gases	11	7	0	0	1	*	0	0	2
325181	Alkalies and Chlorine	8	6	0	*	1	*	0	0	2
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	11	3	5	*	2	*	0	0	*
325192	Cyclic Crudes and Intermediates	6	1	0	*	4	*	0	0	1
325193	Ethyl Alcohol	*	*	0	0	*	*	0	0	0
325199	Other Basic Organic Chemicals	10	2	*	*	5	*	0	0	2
325211	Plastics Materials and Resins	14	4	*	*	7	*	0	0	2
325212	Synthetic Rubber	1	*	0	*	*	*	0	0	*
325222	Noncellulosic Organic Fibers	*	*	*	*	*	*	0	0	0
325311	Nitrogenous Fertilizers	1	*	0	0	1	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	39	10	1	1	25	*	0	0	2
325412	Pharmaceutical Preparation	30	7	1	1	20	*	0	0	2
325992	Photographic Film, Paper, Plate, and Chemicals	20	1	*	*	3	*	16	0	*
326	Plastics and Rubber Products	49	23	Q	Q	21	Q	0	0	*
327	Nonmetallic Mineral Products	137 <sup>R</sup>	18	1	4	58 <sup>R</sup>	*	39	1	15
327211	Flat Glass	11	1	0	*	10	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	15	1	0	*	4	*	0	0	9
327213	Glass Containers	13	3	0	*	10	*	0	0	*
327215	Glass Products from Purchased Glass	3 <sup>R</sup>	1	0	*	1 <sup>R</sup>	*	*	0	*
327310	Cements	44	5	*	*	0	*	32	1	5
327410	Lime	4	*	*	*	0	*	3	0	*
327420	Gypsum	10	1	*	*	9	*	0	0	*

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**Table 4.2 Offsite-Produced Fuel Consumption, 2006;**

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	Coke and Breeze	Other(f)
327993	Mineral Wool	7	1	0	*	6	*	0	*	*	*
331	Primary Metals	149	58	*	1	82	1	3	1	3	
331111	Iron and Steel Mills	76	26	0	*	49	*	*	0	1	
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	
3312	Steel Products from Purchased Steel	10	2	0	*	7	*	0	0	0	1
3313	Alumina and Aluminum	32	18	*	*	13	*	0	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	1	*	*	*	*	*	0	0	0	*
331315	Aluminum Sheet, Plate and Foils	8	2	0	*	5	*	0	0	0	*
331316	Aluminum Extruded Products	5	1	*	*	4	*	0	0	0	*
3314	Nonferrous Metals, except Aluminum	20	8	*	*	8	*	3	1	1	*
3315	Foundries	11	4	*	*	6	*	0	1	1	*
331511	Iron Foundries	4	2	*	*	2	*	0	1	1	*
331521	Aluminum Die-Casting Foundries	2	*	0	*	2	*	0	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	*	*	*	1	*	0	0	0	*
332	Fabricated Metal Products	53	18	*	*	29	*	0	Q	Q	
333	Machinery	Q	17	Q	*	Q	*	0	0	0	*
334	Computer and Electronic Products	27	17	*	*	9	*	0	0	0	*
334413	Semiconductors and Related Devices	12	7	*	*	4	*	0	0	0	*
335	Electrical Equip., Appliances, and Components	9	5	0	*	3	*	0	0	0	*
336	Transportation Equipment	61	23	3	*	Q	*	0	0	0	Q
336111	Automobiles	*	*	0	0	*	*	0	0	0	0
336112	Light Trucks and Utility Vehicles	*	*	0	*	0	0	0	0	0	0
3364	Aerospace Product and Parts	11	4	3	*	5	*	0	0	0	*
336411	Aircraft	1	1	0	*	*	*	0	0	0	*
337	Furniture and Related Products	5	2	*	*	2	*	0	0	0	*
339	Miscellaneous	23	9	Q	*	6	*	0	0	0	Q
	Total	1,081 <sup>R</sup>	314 <sup>R</sup>	62	22	494 <sup>R</sup>	8	76	4	100	

**Midwest Census Region**

311	Food	565	105	11	2	297	1	119	*	28
3112	Grain and Oilseed Milling	256	39	1	1	91	*	103	0	20
311221	Wet Corn Milling	160	20	0	*	49	*	88	0	3
31131	Sugar Manufacturing	23	2	1	*	5	*	14	*	*
3114	Fruit and Vegetable Preserving and Specialty Food	Q	10	1	*	Q	*	1	0	*
3115	Dairy Product	45	13	Q	*	30	*	*	0	1
3116	Animal Slaughtering and Processing	111	23	2	1	79	*	0	0	Q
312	Beverage and Tobacco Products	20	5	1	*	8	*	5	0	*
3121	Beverages	19	5	1	*	8	*	5	0	*
3122	Tobacco	*	*	0	*	*	*	0	0	*
313	Textile Mills	Q	*	0	0	*	*	0	0	0
314	Textile Product Mills	Q	Q	0	0	*	*	0	0	0
315	Apparel	*	*	0	0	*	0	0	0	0
316	Leather and Allied Products	1	*	0	0	1	*	0	0	*
321	Wood Products	114	26	*	4	39	1	Q	Q	Q
321113	Sawmills	3	1	0	1	1	*	0	0	1

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**Table 4.2 Offsite-Produced Fuel Consumption, 2006;**

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)
3212	Veneer, Plywood, and Engineered Woods	22	4	*	*	16	*	1	0	*
3219	Other Wood Products	88	20	*	Q	Q	*	Q	Q	Q
322	Paper	228	50	6	1	76	1	63	0	32
322110	Pulp Mills	1	1	0	*	*	*	0	0	*
322121	Paper Mills, except Newsprint	134	24	5	*	37	*	47	0	21
322122	Newsprint Mills	4	2	0	*	*	*	0	0	2
322130	Paperboard Mills	41	8	1	*	12	*	12	0	7
323	Printing and Related Support	30	18	0	*	12	*	0	0	*
324	Petroleum and Coal Products	225 <sup>R</sup>	31	1	1	108	1	51	0	32 <sup>R</sup>
324110	Petroleum Refineries	148	28	1	*	87	1	*	0	32 <sup>R</sup>
324199	Other Petroleum and Coal Products	52	*	0	*	1	*	51	0	*
325	Chemicals	430	141	*	1	202	5	49	*	32
325110	Petrochemicals	3	1	0	*	2	0	0	0	*
325120	Industrial Gases	26	25	0	0	1	*	0	0	*
325181	Alkalies and Chlorine	1	1	0	*	*	*	0	0	*
325182	Carbon Black	1	*	0	*	*	*	0	0	*
325188	Other Basic Inorganic Chemicals	18	4	*	*	11	*	1	0	2
325192	Cyclic Crudes and Intermediates	9	1	0	*	1	*	0	0	7
325193	Ethyl Alcohol	108	9	0	*	80	*	19	0	*
325199	Other Basic Organic Chemicals	62	14	0	*	30	*	11	0	7
325211	Plastics Materials and Resins	46	12	0	*	20	4	6	*	3
325212	Synthetic Rubber	5	1	0	*	1	*	3	0	*
325222	Noncellulosic Organic Fibers	*	*	0	0	*	0	0	0	0
325311	Nitrogenous Fertilizers	17	2	0	*	14	*	0	0	1
325312	Phosphatic Fertilizers	*	*	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	28	9	0	*	10	*	6	0	3
325412	Pharmaceutical Preparation	20	7	0	*	5	*	5	0	3
325992	Photographic Film, Paper, Plate, and Chemicals	1	1	0	*	*	*	0	0	0
326	Plastics and Rubber Products	129	79	0	*	49	1	0	0	*
327	Nonmetallic Mineral Products	315	44	0	Q	132	1	83	2	43
327211	Flat Glass	17	2	0	*	15	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	Q	Q	0	*	Q	*	0	0	*
327213	Glass Containers	15	3	0	*	12	*	0	0	*
327215	Glass Products from Purchased Glass	9	6	0	*	3	*	0	0	*
327310	Cements	105	11	0	1	10	*	49	0	34
327410	Lime	46	2	0	*	2	*	34	1	8
327420	Gypsum	15	1	0	*	13	*	0	0	*
327993	Mineral Wool	21	6	0	*	14	*	0	1	*
331	Primary Metals	691 <sup>R</sup>	161	15	3	287 <sup>R</sup>	1	13	168	43
331111	Iron and Steel Mills	467 <sup>R</sup>	71	15	2	189 <sup>R</sup>	*	11	158	21
331112	Electrometallurgical Ferroalloy Products	13	7	0	*	1	*	2	*	3
3312	Steel Products from Purchased Steel	21	7	0	*	13	*	*	0	*
3313	Alumina and Aluminum	53	25	0	*	27	*	0	0	1
331314	Secondary Smelting and Alloying of Aluminum	11	1	0	*	10	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	15	4	0	*	10	*	0	0	1
331316	Aluminum Extruded Products	8	3	0	*	5	*	0	0	*
3314	Nonferrous Metals, except Aluminum	37	17	0	*	13	1	0	2	4

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**Table 4.2 Offsite-Produced Fuel Consumption, 2006;**

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	Coke and Breeze	Other(f)
3315	Foundries	100	34	0	*	44	*	0	7	14	
331511	Iron Foundries	54	18	0	*	14	*	0	7	14	
331521	Aluminum Die-Casting Foundries	15	5	0	*	10	*	0	0	*	
331524	Aluminum Foundries, except Die-Casting	11	2	0	*	9	*	0	0	*	
332	Fabricated Metal Products	184	60	0	*	121	2	0	0	*	
333	Machinery	116	64	0	1	48	1	1	0	0	1
334	Computer and Electronic Products	24	14	0	*	10	*	0	0	*	
334413	Semiconductors and Related Devices	3	2	0	0	1	*	0	0	*	
335	Electrical Equip., Appliances, and Components	27	15	0	*	12	*	0	0	*	
336	Transportation Equipment	278	101	Q	1	161	2	5	Q	6	
336111	Automobiles	26	8	*	*	15	*	2	0	1	
336112	Light Trucks and Utility Vehicles	27	8	0	*	16	*	1	0	1	
3364	Aerospace Product and Parts	14	7	*	*	6	*	0	0	1	
336411	Aircraft	5	3	0	*	2	*	0	0	*	
337	Furniture and Related Products	23	10	0	*	10	*	1	0	*	
339	Miscellaneous	17	9	*	*	8	*	0	0	*	
	Total	3,418 <sup>R</sup>	934	36	25	1,582 <sup>R</sup>	17	404	172	247 <sup>R</sup>	

**South Census Region**

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	Coke and Breeze	Other(f)
311	Food	290	83	11	4	170	1	12	0	10	
3112	Grain and Oilseed Milling	48	10	*	*	20	*	10	0	7	
311221	Wet Corn Milling	17	3	0	*	3	*	6	0	4	
31131	Sugar Manufacturing	19	*	7	1	8	*	2	0	1	
3114	Fruit and Vegetable Preserving and Specialty Food	29	8	*	Q	19	*	0	0	1	
3115	Dairy Product	11	5	0	*	6	*	0	0	0	
3116	Animal Slaughtering and Processing	83	29	1	2	50	1	0	0	*	
312	Beverage and Tobacco Products	41	14	1	*	17	*	7	0	1	
3121	Beverages	30	10	1	*	15	*	3	0	1	
3122	Tobacco	12	4	*	*	3	*	4	0	*	
313	Textile Mills	160	61	*	*	55	*	32	0	12	
314	Textile Product Mills	65	18	Q	*	Q	Q	Q	0	*	
315	Apparel	12	6	*	*	7	*	0	0	*	
316	Leather and Allied Products	*	*	0	0	*	*	0	0	0	
321	Wood Products	106	41	Q	5	23	2	1	0	34	
321113	Sawmills	25	13	*	2	2	*	0	0	8	
3212	Veneer, Plywood, and Engineered Woods	65	21	*	1	18	1	1	0	23	
3219	Other Wood Products	13	7	*	1	3	*	0	0	2	
322	Paper	746	124	53	8	250	2	128	0	181	
322110	Pulp Mills	57	W	9	4	W	*	6	0	22	
322121	Paper Mills, except Newsprint	251	37	19	1	71	*	61	0	61	
322122	Newsprint Mills	15	12	0	*	*	*	1	0	2	
322130	Paperboard Mills	305	43	24	3	80	*	60	0	94	
323	Printing and Related Support	37	17	0	*	20	*	0	0	*	
324	Petroleum and Coal Products	816 <sup>R</sup>	81	25	7	505	1	0	0	198 <sup>R</sup>	
324110	Petroleum Refineries	791 <sup>R</sup>	78	25	1	492 <sup>R</sup>	1	0	0	194 <sup>R</sup>	

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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	Coke	Other(f)
324199	Other Petroleum and Coal Products	6	1	0	*	1	*	0	0	0	3
325	Chemicals	2,098 <sup>R</sup>	328	13	5	1,079 <sup>R</sup>	2	80	0	0	592 <sup>R</sup>
325110	Petrochemicals	574 <sup>R</sup>	W	5	*	107	*	0	0	0	W
325120	Industrial Gases	44	32	0	*	11	*	0	0	0	1
325181	Alkalies and Chlorine	128	19	0	*	93	*	10	0	0	5
325182	Carbon Black	13 <sup>R</sup>	2	*	*	10 <sup>R</sup>	*	0	0	0	*
325188	Other Basic Inorganic Chemicals	120	65	3	1	30	*	6	0	0	15
325192	Cyclic Crudes and Intermediates	22	7	0	*	10	*	0	0	0	4
325193	Ethyl Alcohol	2	*	0	*	2	*	0	0	0	*
325199	Other Basic Organic Chemicals	439	W	1	1	270	*	43	0	0	W
325211	Plastics Materials and Resins	389	53	*	*	299	1	5	0	0	31
325212	Synthetic Rubber	39	5	*	*	25	*	3	0	0	5
325222	Noncellulosic Organic Fibers	76	17	3	*	34	*	9	0	0	14
325311	Nitrogenous Fertilizers	103	6	0	*	97	*	0	0	0	*
325312	Phosphatic Fertilizers	16	W	*	1	W	*	2	0	0	*
3254	Pharmaceuticals and Medicines	18	8	*	*	8	*	0	0	0	1
325412	Pharmaceutical Preparation	10	5	*	*	4	*	0	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	4	W	0	*	W	*	0	0	0	Q
326	Plastics and Rubber Products	140	67	8	Q	52 <sup>R</sup>	1	Q	0	0	*
327	Nonmetallic Mineral Products	470	65	*	9	212	Q	132	6	43	
327211	Flat Glass	24	3	0	*	21	*	0	0	0	1
327212	Other Pressed and Blown Glass and Glassware	23	6	0	*	17	*	0	0	0	*
327213	Glass Containers	22	5	0	*	18	*	0	0	0	*
327215	Glass Products from Purchased Glass	52	4	0	*	Q	*	*	0	0	*
327310	Cements	147	18	*	2	6	*	99	2	20	
327410	Lime	48	2	0	*	3	*	30	3	10	
327420	Gypsum	35	3	0	*	32	*	0	0	0	*
327993	Mineral Wool	17	5	0	*	11	*	0	1	0	*
331	Primary Metals	420	204	4	2	170	1	5	31	3	
331111	Iron and Steel Mills	174	68	4	1	70	*	4	27	1	
331112	Electrometallurgical Ferroalloy Products	4	4	0	*	*	0	0	0	0	*
3312	Steel Products from Purchased Steel	11	5	0	*	5	*	0	0	0	*
3313	Alumina and Aluminum	170	99	0	*	69	1	*	0	0	1
331314	Secondary Smelting and Alloying of Aluminum	7	1	0	*	6	*	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	26	6	0	*	20	*	0	0	0	*
331316	Aluminum Extruded Products	9	2	0	*	6	1	0	0	0	*
3314	Nonferrous Metals, except Aluminum	23	12	0	*	8	*	2	0	*	1
3315	Foundries	38	16	0	1	17	*	0	3	3	*
331511	Iron Foundries	20	9	0	*	7	*	0	3	3	*
331521	Aluminum Die-Casting Foundries	4	1	0	*	3	*	0	0	0	*
331524	Aluminum Foundries, except Die-Casting	4	1	0	*	3	*	0	0	0	*
332	Fabricated Metal Products	124	48	*	1	73	2	0	0	0	*
333	Machinery	47	25	0	*	21	Q	0	0	0	*
334	Computer and Electronic Products	35	26	0	*	9	*	0	0	0	*
334413	Semiconductors and Related Devices	16	11	0	*	4	*	0	0	0	*
335	Electrical Equip., Appliances, and Components	46	22	0	*	24	*	0	0	0	*
336	Transportation Equipment	102	53	3	1	39	1	1	0	0	4

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**Table 4.2 Offsite-Produced Fuel Consumption, 2006;**

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	Coke and Breeze	Other(f)
336111	Automobiles	12	5	*	*	5	*	*	0	1	
336112	Light Trucks and Utility Vehicles	16	7	*	*	9	*	0	0	*	
3364	Aerospace Product and Parts	26	15	*	*	9	*	*	0	2	
336411	Aircraft	9	5	*	*	3	*	0	0	*	
337	Furniture and Related Products	25	17	0	Q	4	*	Q	0	1	
339	Miscellaneous	19	9	0	*	9	*	0	0	*	
	Total	5,802 <sup>R</sup>	1,310	119	45	2,782 <sup>R</sup>	20	410	37	1,079 <sup>R</sup>	

**West Census Region**

311	Food	210	45	1	7	135	1	15	*	6
3112	Grain and Oilseed Milling	8	2	0	*	5	*	0	0	1
311221	Wet Corn Milling	2	*	0	*	1	*	0	0	1
31131	Sugar Manufacturing	22	1	0	*	2	*	15	*	3
3114	Fruit and Vegetable Preserving and Specialty Food	63	13	1	*	47	*	0	0	1
3115	Dairy Product	52	13	0	*	39	*	0	0	*
3116	Animal Slaughtering and Processing	22	5	0	Q	15	*	0	0	*
312	Beverage and Tobacco Products	28	7	0	*	9	1	7	0	4
3121	Beverages	28	7	0	*	9	1	7	0	4
3122	Tobacco	0	0	0	0	0	0	0	0	0
313	Textile Mills	Q	*	0	0	Q	*	0	0	0
314	Textile Product Mills	2	*	0	0	1	*	*	0	0
315	Apparel	1	1	0	0	*	0	0	0	0
316	Leather and Allied Products	*	*	0	*	*	*	0	0	*
321	Wood Products	59	21	3	5	18	1	0	0	12
321113	Sawmills	32	10	*	4	Q	*	0	0	8
3212	Veneer, Plywood, and Engineered Woods	17	7	0	*	7	1	0	0	2
3219	Other Wood Products	7	3	*	*	2	*	0	0	Q
322	Paper	195	60	5	3	84	1	14	0	28
322110	Pulp Mills	3	W	*	*	W	*	0	0	*
322121	Paper Mills, except Newsprint	55	11	3	*	26	*	0	0	14
322122	Newsprint Mills	47	17	*	*	8	*	13	0	8
322130	Paperboard Mills	75	25	1	2	39	*	1	0	6
323	Printing and Related Support	5	3	0	0	2	*	0	0	0
324	Petroleum and Coal Products	304 <sup>R</sup>	24	5	5	190	2	0	0	78 <sup>R</sup>
324110	Petroleum Refineries	270 <sup>R</sup>	22	4	2	171	2	0	0	70 <sup>R</sup>
324199	Other Petroleum and Coal Products	6	*	0	*	*	*	0	0	6
325	Chemicals	100	32	*	*	41	*	23	0	3
325110	Petrochemicals	*	*	0	0	*	*	0	0	0
325120	Industrial Gases	7	7	0	0	*	0	0	0	0
325181	Alkalies and Chlorine	25	5	0	*	12	*	7	0	1
325182	Carbon Black	*	*	0	0	*	*	0	0	0
325188	Other Basic Inorganic Chemicals	37	10	*	*	10	*	16	0	*
325192	Cyclic Crudes and Intermediates	*	*	0	0	*	*	0	0	*
325193	Ethyl Alcohol	2	*	0	*	*	*	0	0	1
325199	Other Basic Organic Chemicals	4	1	0	*	2	*	0	0	1

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**Table 4.2 Offsite-Produced Fuel Consumption, 2006;**

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	Coke and Breeze	Other(f)
325211	Plastics Materials and Resins	2	1	0	*	1	*	0	0	0	*
325212	Synthetic Rubber	*	*	0	0	*	*	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	5	1	0	*	4	*	0	0	0	*
325312	Phosphatic Fertilizers	4	W	0	*	W	*	0	0	0	*
3254	Pharmaceuticals and Medicines	8	3	0	*	4	*	0	0	0	*
325412	Pharmaceutical Preparation	5	2	0	*	3	*	0	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	3	W	0	*	W	*	0	0	0	0
326	Plastics and Rubber Products	18	13	0	*	4	Q	0	0	0	*
327	Nonmetallic Mineral Products	182	23	2	Q	58	*	66	2	25	
327211	Flat Glass	8	1	1	*	6	*	0	0	0	*
327212	Other Pressed and Blown Glass and Glassware	1	*	0	*	1	*	0	0	0	*
327213	Glass Containers	14	3	0	*	11	*	0	0	0	*
327215	Glass Products from Purchased Glass	1	1	0	*	*	*	0	0	0	*
327310	Cements	89	10	0	1	4	*	54	2	18	
327410	Lime	18	1	*	*	*	*	12	0	4	
327420	Gypsum	26	1	0	*	22	*	0	0	0	2
327993	Mineral Wool	5	2	0	*	3	*	0	0	0	*
331	Primary Metals	92	42	0	1	46	*	0	1	3	
331111	Iron and Steel Mills	32	11	0	*	18	*	0	*	2	
331112	Electrometallurgical Ferroalloy Products	*	*	0	*	*	*	0	0	*	
3312	Steel Products from Purchased Steel	1	1	0	*	1	*	0	0	0	*
3313	Alumina and Aluminum	22	14	0	*	8	*	0	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	2	*	0	*	2	*	0	0	0	*
331315	Aluminum Sheet, Plate and Foils	3	1	0	*	2	*	0	0	0	*
331316	Aluminum Extruded Products	4	1	0	*	3	*	0	0	0	*
3314	Nonferrous Metals, except Aluminum	27	13	0	*	14	*	0	0	0	*
3315	Foundries	9	3	0	*	5	*	0	1	*	
331511	Iron Foundries	2	*	0	*	1	*	0	1	*	
331521	Aluminum Die-Casting Foundries	1	*	0	0	*	*	0	0	*	
331524	Aluminum Foundries, except Die-Casting	1	*	0	*	1	*	0	0	*	
332	Fabricated Metal Products	35	18	0	Q	16	*	0	0	0	*
333	Machinery	7	5	0	*	2	*	0	0	0	*
334	Computer and Electronic Products	54	36	0	*	17	*	0	0	0	1
334413	Semiconductors and Related Devices	32	22	0	*	9	*	0	0	0	1
335	Electrical Equip., Appliances, and Components	5	2	0	*	Q	*	0	0	0	*
336	Transportation Equipment	36	18	0	Q	17	*	0	0	0	*
336111	Automobiles	2	1	0	*	1	*	0	0	0	*
336112	Light Trucks and Utility Vehicles	*	*	0	0	*	0	0	0	0	0
3364	Aerospace Product and Parts	25	14	0	*	11	*	0	0	0	*
336411	Aircraft	6	3	0	*	2	*	0	0	0	*
337	Furniture and Related Products	2	2	0	0	1 <sup>R</sup>	*	0	0	0	*
339	Miscellaneous	7	6	0	*	2	*	0	0	0	*
	Total	1,347 <sup>R</sup>	355	16	29	649 <sup>R</sup>	8	126	3	160 <sup>R</sup>	

(a) The Bureau of the Census classifies establishments using the North American

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**Table 4.2 Offsite-Produced Fuel Consumption, 2006;**

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)
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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.

R=Revised estimates.

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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006.

**Table 4.3 Offsite-Produced Fuel Consumption, 2006:**

#### Level: National and Regional Data:

Level: National and Regional Data;  
Row: Values of Shipments and Employment Sizes

Row: Values of Shipments  
Column: Energy Sources:

Column: Energy  
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)
<b>Total United States</b>									
<b>Value of Shipments and Receipts (million dollars)</b>									
Under 20	1,066	367	23	45	535	13	21	3	56
20-49	1,063	334	13	18	530	8	93	5	62
50-99	1,233	357	22	16	549	10	157	8	114
100-249	2,119	615	25	19	994	11	263	10	182
250-499	1,548	424	52	12	633	4	244	3	176
500 and Over	4,618	818	98	13	2,264	8	240	186	997
Total	11,647	2,914	233	121	5,506	54	1,016	216	1,586
<b>Employment Size</b>									
Under 50	1,040	335	10	43	550	10	32	1	56
50-99	951	237	19	14	520	6	64	3	90
100-249	2,353	668	35	25	1,024	19	339	12	233
250-499	2,315	605	43	19	1,129	9	244	7	255
500-999	2,726	582	55	10	1,153	7	182	5	732
1000 and Over	2,262	487	72	11	1,131	4	156	189	214
Total	11,647	2,914	233	121	5,506	54	1,016	216	1,586
<b>Northeast Census Region</b>									
<b>Value of Shipments and Receipts (million dollars)</b>									
Under 20	157	55	8	12	65	2	*	1	C
20-49	170	46	7	4	88	2	7	*	16
50-99	142	44	16	1	58	Q	14	0	6
100-249	235	69	6	2	114	1	24	Q	18
250-499	119	34	9	2	36	*	15	*	23
500 and Over	258	67	15	1	134	1	16	0	24
Total	1,081	314	62	22	494	8	76	4	100
<b>Employment Size</b>									
Under 50	118	42	6	12	50	1	2	*	4
50-99	123	33	4	2	62	1	6	*	16
100-249	263	76	16	4	111	4	29	1	21
250-499	177	59	13	2	77	*	11	*	15
500-999	218	53	15	2	115	1	12	Q	18
1000 and Over	182	52	8	1	79	*	16	0	26
Total	1,081	314	62	22	494	8	76	4	100
<b>Midwest Census Region</b>									
<b>Value of Shipments and Receipts (million dollars)</b>									
Under 20	440	132	Q	Q	250	3	3	1	C
20-49	340	106	3	1	175	2	33	2	18
50-99	440	132	1	4	216	2	47	3	34
100-249	747	240	5	3	348	7	85	5	55
250-499	390	100	1	2	140	1	115	2	30
500 and Over	1,062	224	20	3	453	1	122	159	78
Total	3,418	934	36	25	1,582	17	404	172	247

## Employment Size

**Table 4.3 Offsite-Produced Fuel Consumption, 2006:**

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)
Under 50	423	130	Q	Q	232	2	10	1	Q
50-99	323	76	Q	2	192	2	23	1	20
100-249	782	233	4	6	305	6	151	3	74
250-499	634	176	1	2	280	2	133	4	36
500-999	501	169	4	1	244	3	44	2	35
1000 and Over	755	151	19	3	329	1	43	161	47
Total	3,418	934	36	25	1,582	17	404	172	247

**South Census Region****Value of Shipments and Receipts (million dollars)**

Under 20	334	130	5	14	163	5	7	1	8
20-49	396	137	2	7	195	3	30	3	20
50-99	500	143	3	6	216	4	68	3	57
100-249	843	231	11	8	407	3	108	2	75
250-499	831	209	40	6	359	2	103	1	112
500 and Over	2,897	461	58	5	1,441	3	95	27	807
Total	5,802	1,310	119	45	2,782	20	410	37	1,079

**Employment Size**

Under 50	363	120	2	14	206	5	9	0	8
50-99	390	96	5	5	208	1	27	1	46
100-249	1,000	283	9	10	479	5	109	5	101
250-499	1,139	272	24	9	591	5	66	1	171
500-999	1,764	303	35	4	661	2	109	2	647
1000 and Over	1,146	236	45	4	637	2	90	27	106
Total	5,802	1,310	119	45	2,782	20	410	37	1,079

**West Census Region****Value of Shipments and Receipts (million dollars)**

Under 20	136	50	3	7	57	3	10	0	6
20-49	157	44	Q	Q	72	1	23	0	9
50-99	152	38	2	4	60	1	28	2	17
100-249	293	76	4	6	125	1	47	1	34
250-499	207	81	2	3	99	*	11	*	12
500 and Over	401	66	4	4	236	2	7	0	82
Total	1,347	355	16	29	649	8	126	3	160

**Employment Size**

Under 50	135	43	1	6	61	2	11	0	12
50-99	115	32	2	Q	58	1	8	0	8
100-249	308	77	6	5	130	3	49	2	37
250-499	364	98	6	7	181	1	34	1	37
500-999	244	57	1	2	134	*	17	0	32
1000 and Over	180	49	*	3	86	1	7	0	34
Total	1,347	355	16	29	649	8	126	3	160

(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.'

**Table 4.3 Offsite-Produced Fuel Consumption, 2006:**

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)
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(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).<sup>\*</sup>

(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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006, and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 4.4 Number of Establishments by Offsite-Produced Fuel Consumption, 2006;**

Level: National Data;

Row: NAICS Codes (3-Digit Only); 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)	
<b>Total United States</b>											
311	Food	14,128	14,109	326	1,462	11,395	2,920	67	13	1,149	
3112	Grain and Oilseed Milling	580	580	15	174	445	269	35	0	144	
311221	Wet Corn Milling	47	47	W	17	44	19	18	0	17	
31131	Sugar Manufacturing	78	78	11	43	61	35	26	13	35	
3114	Fruit and Vegetable Preserving and Specialty Food	1,125	1,125	13	112	961	325	W	0	127	
3115	Dairy Product	1,044	1,044	25	88	941	147	W	0	95	
3116	Animal Slaughtering and Processing	1,715	1,715	45	393	1,542	352	0	0	199	
312	Beverage and Tobacco Products	1,830	1,830	15	348	957	790	17	0	184	
3121	Beverages	1,758	1,758	8	319	900	758	10	0	175	
3122	Tobacco	72	72	7	30	57	33	7	0	10	
313	Textile Mills	1,966	1,966	116	179	1,532	630	51	0	193	
314	Textile Product Mills	3,332	3,332	23	106	1,925	687	W	0	178	
315	Apparel	5,567	5,499	W	Q	2,977	360	0	0	W	
316	Leather and Allied Products	687	687	3	Q	392	57	0	0	W	
321	Wood Products	10,785	10,777	103	3,302	4,304	4,448	Q	W	1,740	
321113	Sawmills	2,282	2,274	9	1,241	409	534	0	0	571	
3212	Veneer, Plywood, and Engineered Woods	1,462	1,462	3	385	804	683	Q	0	184	
3219	Other Wood Products	6,688	6,688	86	1,474	2,908	3,138	W	W	881	
322	Paper	3,957	3,928	206	411	3,215	2,032	107	0	435	
322110	Pulp Mills	32	32	12	21	27	14	W	0	22	
322121	Paper Mills, except Newsprint	288	288	87	113	241	176	59	0	130	
322122	Newsprint Mills	20	20	3	11	14	12	3	0	8	
322130	Paperboard Mills	200	200	60	110	176	123	38	0	78	
323	Printing and Related Support	18,917	18,830	Q	249	12,825	2,177	0	0	378	
324	Petroleum and Coal Products	1,813	1,813	98	764	996	467	7	W	474	
324110	Petroleum Refineries	209	209	31	95	200	96	W	0	180	
324199	Other Petroleum and Coal Products	48	48	0	21	41	13	4	W	20	
325	Chemicals	8,623	8,619	89	1,603	6,398	2,256	61	W	1,006	
325110	Petrochemicals	45	45	W	14	37	9	0	0	16	
325120	Industrial Gases	560	560	0	9	251	36	0	0	62	
325181	Alkalies and Chlorine	32	31	0	19	26	12	4	0	22	
325182	Carbon Black	24	24	W	7	23	7	0	0	7	
325188	Other Basic Inorganic Chemicals	473	473	10	151	326	194	6	0	113	
325192	Cyclic Crudes and Intermediates	25	25	0	9	23	7	0	0	11	
325193	Ethyl Alcohol	65	65	0	26	64	14	7	0	13	
325199	Other Basic Organic Chemicals	488	488	16	163	426	176	9	0	130	
325211	Plastics Materials and Resins	558	555	4	181	510	232	5	W	132	
325212	Synthetic Rubber	92	92	W	21	70	36	W	0	14	
325222	Noncellulosic Organic Fibers	77	77	13	27	63	32	8	0	25	
325311	Nitrogenous Fertilizers	65	65	0	21	47	23	0	0	21	
325312	Phosphatic Fertilizers	32	32	W	20	25	11	W	0	23	
3254	Pharmaceuticals and Medicines	1,123	1,123	24	271	878	155	10	0	78	
325412	Pharmaceutical Preparation	580	580	16	156	452	90	8	0	56	
325992	Photographic Film, Paper, Plate, and Chemicals	143	143	W	16	107	31	W	0	Q	
326	Plastics and Rubber Products	9,823	9,823	92	647	7,669	3,474	W	0	800	
327	Nonmetallic Mineral Products	11,914	11,914	104	3,606	6,449	3,229	194	18	1,845	
327211	Flat Glass	42	42	W	29	41	28	0	0	23	
327212	Other Pressed and Blown Glass and Glassware	157	157	0	37	113	98	0	0	36	
327213	Glass Containers	55	55	0	26	55	29	0	0	22	
327215	Glass Products from Purchased Glass	768	768	0	94	495	300	Q	0	100	
327310	Cements	188	188	6	85	93	36	81	3	76	
327410	Lime	62	62	W	51	40	27	46	5	45	
327420	Gypsum	145	145	W	61	112	95	0	0	35	
327993	Mineral Wool	188	188	0	35	156	93	0	10	21	
331	Primary Metals	3,290	3,271	30	921	2,913	1,597	24	84	851	
331111	Iron and Steel Mills	348	347	9	145	300	134	14	20	146	
331112	Electrometallurgical Ferroalloy Products	18	18	0	14	18	9	W	W	14	
3312	Steel Products from Purchased Steel	446	446	0	113	390	210	W	0	113	
3313	Alumina and Aluminum	384	384	4	109	362	194	W	0	86	
331314	Secondary Smelting and Alloying of Aluminum	97	97	W	40	90	43	W	0	19	
331315	Aluminum Sheet, Plate and Foils	56	56	0	23	54	30	0	0	14	
331316	Aluminum Extruded Products	150	150	W	22	142	80	0	0	38	
3314	Nonferrous Metals, except Aluminum	574	574	W	168	453	263	5	W	1	89
3315	Foundries	1,520	1,503	W	372	1,390	786	0	52	305	
331511	Iron Foundries	379	379	W	185	333	219	0	52	101	
331521	Aluminum Die-Casting Foundries	185	185	0	5	172	62	0	0	32	
331524	Aluminum Foundries, except Die-Casting	309	309	W	47	279	156	0	0	59	
332	Fabricated Metal Products	35,520	35,520	Q	3,298	25,150	13,059	0	W	4,934	
333	Machinery	16,296	16,296	W	1,707	12,891	4,894	W	0	1,898	

**Table 4.4 Number of Establishments by Offsite-Produced Fuel Consumption, 2006;**

Level: National Data;

Row: NAICS Codes (3-Digit Only); 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)
334	Computer and Electronic Products	8,188	8,188	7	541	5,323	992	0	0	426
334413	Semiconductors and Related Devices	522	522	W	104	462	45	0	0	24
335	Electrical Equip., Appliances, and Components	3,596	3,596	0	299	2,818	965	0	0	349
336	Transportation Equipment	7,024	7,024	111	1,096	5,434	2,753	13	W	1,338
336111	Automobiles	77	77	W	23	68	42	4	0	28
336112	Light Trucks and Utility Vehicles	47	47	W	25	42	17	W	0	28
3364	Aerospace Product and Parts	910	910	Q	70	671	425	W	0	191
336411	Aircraft	105	105	W	24	78	38	0	0	18
337	Furniture and Related Products	11,545	11,368	Q	879	6,753	3,139	29	0	998
339	Miscellaneous	15,702	15,702	Q	704	9,609	3,097	0	0	1,041
	Total	194,504	194,093	1,997	22,239	131,924	54,020	694	132	20,310

(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 2006.

(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=Not 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, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006.

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
<b>Total United States</b>									
<b>311 - 339 ALL MANUFACTURING INDUSTRIES</b>									
<b>TOTAL FUEL CONSUMPTION</b>		15,658	835,382	40	22	5,357	21	46	5,820
<b>Indirect Uses-Boiler Fuel</b>		--	12,109	21	4	2,059	2	25	--
Conventional Boiler Use		--	12,109	11	3	1,245	2	6	--
CHP and/or Cogeneration Process		--	--	10	1	814	*	19	--
<b>Direct Uses-Total Process</b>		--	657,810	10	9	2,709	10	19	--
Process Heating		--	101,516	9	3	2,417	8	16	--
Process Cooling and Refrigeration		--	60,381	*	*	31	*	*	--
Machine Drive		--	422,408	*	4	126	*	3	--
Electro-Chemical Processes		--	60,323	--	--	--	--	--	--
Other Process Use		--	13,181	*	1	136	1	*	--
<b>Direct Uses-Total Nonprocess</b>		--	157,829	1	9	426	7	*	--
Facility HVAC (g)		--	77,768	1	1	367	1	*	--
Facility Lighting		--	58,013	--	--	--	--	--	--
Other Facility Support		--	17,644	*	*	29	*	*	--
Onsite Transportation		--	2,197	--	6	3	5	--	--
Conventional Electricity Generation		--	--	*	1	19	*	*	--
Other Nonprocess Use		--	2,208	*	1	8	*	*	--
<b>End Use Not Reported</b>		6,125	7,634	8	1	164	1	2	5,820
<b>311 FOOD</b>									
<b>TOTAL FUEL CONSUMPTION</b>		1,186	73,440	4	3	618	1	7	108
<b>Indirect Uses-Boiler Fuel</b>		--	1,758	4	1	344	*	6	--
Conventional Boiler Use		--	1,758	3	1	319	*	1	--
CHP and/or Cogeneration Process		--	--	1	*	26	*	5	--
<b>Direct Uses-Total Process</b>		--	57,259	*	1	225	*	*	--
Process Heating		--	4,585	*	*	203	*	*	--
Process Cooling and Refrigeration		--	19,783	*	*	2	0	0	--
Machine Drive		--	32,259	*	*	10	*	0	--
Electro-Chemical Processes		--	112	--	--	--	--	--	--
Other Process Use		--	520	*	*	10	*	0	--
<b>Direct Uses-Total Nonprocess</b>		--	13,538	*	1	39	*	*	--
Facility HVAC (g)		--	6,036	*	*	29	*	*	--
Facility Lighting		--	5,291	--	--	--	--	--	--
Other Facility Support		--	1,819	*	*	8	*	0	--
Onsite Transportation		--	218	--	*	*	*	--	--
Conventional Electricity Generation		--	--	0	*	*	*	0	--
Other Nonprocess Use		--	174	0	*	1	*	0	--
<b>End Use Not Reported</b>		129	885	*	*	9	*	*	108
<b>3112 Grain and Oilseed Milling</b>									
<b>TOTAL FUEL CONSUMPTION</b>		317	15,464	*	*	115	*	5	30
<b>Indirect Uses-Boiler Fuel</b>		--	375	*	*	63	*	4	--
Conventional Boiler Use		--	375	*	*	54	*	1	--
CHP and/or Cogeneration Process		--	--	0	*	8	0	4	--
<b>Direct Uses-Total Process</b>		--	13,358	0	*	48	*	*	--
Process Heating		--	378	0	*	44	*	*	--
Process Cooling and Refrigeration		--	1,354	0	0	0	0	0	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	Machine Drive	--	11,542	0	*	2	*	0	--
	Electro-Chemical Processes	--	4	--	--	--	--	--	--
	Other Process Use	--	80	0	*	1	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1,344	0	*	3	*	*	--
	Facility HVAC (g)	--	626	0	*	3	*	*	--
	Facility Lighting	--	561	--	--	--	--	--	--
	Other Facility Support	--	135	0	*	*	*	0	--
	Onsite Transportation	--	21	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	Q	0	*	*	*	0	--
	<b>End Use Not Reported</b>	38	387	0	*	1	*	*	30
<b>311221</b>	<b>Wet Corn Milling</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	179	6,746	*	*	51	*	4	9
	<b>Indirect Uses-Boiler Fuel</b>	--	175	*	*	23	*	4	--
	Conventional Boiler Use	--	175	*	0	17	*	1	--
	CHP and/or Cogeneration Process	--	--	0	*	6	0	3	--
	<b>Direct Uses-Total Process</b>	--	5,842	0	*	27	*	*	--
	Process Heating	--	62	0	*	27	*	*	--
	Process Cooling and Refrigeration	--	854	0	0	0	0	0	--
	Machine Drive	--	4,905	0	*	0	*	0	--
	Electro-Chemical Processes	--	0	--	--	--	--	--	--
	Other Process Use	--	21	0	*	0	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	341	0	*	1	*	0	--
	Facility HVAC (g)	--	173	0	0	1	*	0	--
	Facility Lighting	--	152	--	--	--	--	--	--
	Other Facility Support	--	16	0	*	*	0	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	0	0	*	0	0	0	--
	<b>End Use Not Reported</b>	16	387	0	0	0	*	*	9
<b>31131</b>	<b>Sugar</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	82	968	1	*	17	*	1	20
	<b>Indirect Uses-Boiler Fuel</b>	--	41	1	*	12	*	1	--
	Conventional Boiler Use	--	41	0	*	2	0	*	--
	CHP and/or Cogeneration Process	--	--	1	*	10	*	1	--
	<b>Direct Uses-Total Process</b>	--	780	*	*	4	*	*	--
	Process Heating	--	13	*	*	4	0	*	--
	Process Cooling and Refrigeration	--	8	0	0	0	0	0	--
	Machine Drive	--	758	0	*	*	0	0	--
	Electro-Chemical Processes	--	1	--	--	--	--	--	--
	Other Process Use	--	0	0	0	0	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	147	0	*	1	*	*	--
	Facility HVAC (g)	--	55	0	0	*	*	*	--
	Facility Lighting	--	65	--	--	--	--	--	--
	Other Facility Support	--	7	0	0	*	*	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	19	0	*	*	*	0	--
	<b>End Use Not Reported</b>	20	0	0	0	0	*	0	20

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
3114	Fruit and Vegetable Preserving and Specialty Foods								
<b>TOTAL FUEL CONSUMPTION</b>									
	Indirect Uses-Boiler Fuel	169	9,708	*	*	123	*	*	4
	Conventional Boiler Use	--	255	*	*	88	*	*	--
	CHP and/or Cogeneration Process	--	255	*	*	85	*	*	--
	Direct Uses-Total Process	--	7,745	0	0	4	0	0	--
	Process Heating	--	784	*	*	26	*	0	--
	Process Cooling and Refrigeration	--	3,602	0	*	*	0	0	--
	Machine Drive	--	3,317	0	*	1	*	0	--
	Electro-Chemical Processes	--	8	--	--	--	--	--	--
	Other Process Use	--	34	*	0	*	0	0	--
	Direct Uses-Total Nonprocess	--	1,697	*	*	8	*	0	--
	Facility HVAC (g)	--	684	*	*	6	*	0	--
	Facility Lighting	--	716	--	--	--	--	--	--
	Other Facility Support	--	226	0	*	2	*	0	--
	Onsite Transportation	--	47	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	*	0	--
	Other Nonprocess Use	--	Q	0	*	*	*	0	--
	End Use Not Reported	4	Q	0	*	*	0	0	4
3115	Dairy Products								
<b>TOTAL FUEL CONSUMPTION</b>									
	Indirect Uses-Boiler Fuel	121	10,079	*	*	80	*	*	1
	Conventional Boiler Use	--	186	*	*	36	*	0	--
	CHP and/or Cogeneration Process	--	186	*	*	35	*	0	--
	Direct Uses-Total Process	--	7,895	0	*	1	0	0	--
	Process Heating	--	498	*	*	37	*	0	--
	Process Cooling and Refrigeration	--	3,195	0	*	*	0	0	--
	Machine Drive	--	3,989	0	*	2	*	0	--
	Electro-Chemical Processes	--	31	--	--	--	--	--	--
	Other Process Use	--	Q	0	*	5	0	0	--
	Direct Uses-Total Nonprocess	--	1,966	*	*	4	*	0	--
	Facility HVAC (g)	--	857	*	*	4	*	0	--
	Facility Lighting	--	775	--	--	--	--	--	--
	Other Facility Support	--	215	*	*	1	*	0	--
	Onsite Transportation	--	53	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	66	0	*	*	*	0	--
	End Use Not Reported	4	Q	0	*	2	*	*	1
3116	Animal Slaughtering and Processing								
<b>TOTAL FUEL CONSUMPTION</b>									
	Indirect Uses-Boiler Fuel	227	17,545	1	1	141	*	0	13
	Conventional Boiler Use	--	437	*	*	95	*	0	--
	CHP and/or Cogeneration Process	--	437	*	*	95	*	0	--
	Direct Uses-Total Process	--	13,952	0	0	0	0	0	--
	Process Heating	--	944	*	*	29	*	0	--
	Process Cooling and Refrigeration	--	7,395	*	*	1	0	0	--
	Machine Drive	--	5,405	*	*	3	*	0	--
	Electro-Chemical Processes	--	18	--	--	--	--	--	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

### **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)
								Coal Coke and Breeze (million short tons)	Other (million short tons)	
	Other Process Use	--	191	0	*	2	*	*	0	--
<b>Direct Uses-Total Nonprocess</b>		--	3,029	*	*	11	*	*	0	--
Facility HVAC (q)	--	1,263	*	*	*	8	*	*	0	--
Facility Lighting	--	1,284	--	--	--	--	--	--	--	--
Other Facility Support	--	391	*	*	*	3	*	*	0	--
Onsite Transportation	--	33	--	*	*	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	*	0	--
Other Nonprocess Use	--	58	0	*	*	*	*	*	0	--
<b>End Use Not Reported</b>		14	127	*	*	*	*	*	0	13

312 BEVERAGE AND TOBACCO PRODUCTS

<b>TOTAL FUEL CONSUMPTION</b>	109	8,858	*	*	40	*	1	13
<b>Indirect Uses-Boiler Fuel</b>	--	81	*	*	29	*	1	--
Conventional Boiler Use	--	81	*	*	26	*	*	--
CHP and/or Cogeneration Process	--	--	0	*	3	0	1	--
<b>Direct Uses-Total Process</b>	--	6,248	*	*	7	*	*	--
Process Heating	--	286	*	0	4	*	0	--
Process Cooling and Refrigeration	--	2,321	0	0	*	0	0	--
Machine Drive	--	3,459	0	*	1	*	*	--
Electro-Chemical Processes	--	Q	--	--	--	--	--	--
Other Process Use	--	159	0	*	2	*	*	--
<b>Direct Uses-Total Nonprocess</b>	--	2,497	*	*	4	*	*	--
Facility HVAC (g)	--	1,153	*	*	4	*	*	--
Facility Lighting	--	930	--	--	--	--	--	--
Other Facility Support	--	267	0	*	*	*	*	--
Onsite Transportation	--	37	--	*	*	*	*	--
Conventional Electricity Generation	--	--	0	*	0	*	0	--
Other Nonprocess Use	--	110	0	*	*	*	*	--
<b>End Use Not Reported</b>	13	Q	0	*	*	*	*	0

## 3121 Beverages

<b>TOTAL FUEL CONSUMPTION</b>	97	7,607	*	*	37	*	1	13
<b>Indirect Uses-Boiler Fuel</b>	--	66	*	*	27	*	1	--
Conventional Boiler Use	--	66	*	*	24	*	*	--
CHP and/or Cogeneration Process	--	--	0	*	3	0	1	--
<b>Direct Uses-Total Process</b>	--	5,662	0	*	6	*	*	--
Process Heating	--	254	0	0	4	*	0	--
Process Cooling and Refrigeration	--	2,254	0	0	*	0	0	--
Machine Drive	--	2,975	0	*	1	*	*	--
Electro-Chemical Processes	--	Q	--	--	--	--	--	--
Other Process Use	--	156	0	*	2	*	*	--
<b>Direct Uses-Total Nonprocess</b>	--	1,848	0	*	4	*	*	--
Facility HVAC (q)	--	706	0	*	4	*	*	--
Facility Lighting	--	773	--	--	--	--	--	--
Other Facility Support	--	224	0	*	*	*	*	--
Onsite Transportation	--	35	--	*	*	*	*	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	110	0	*	*	*	*	--
<b>End Use Not Reported</b>	13	Q	0	*	*	*	*	0

3122 Tobacco

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	<b>TOTAL FUEL CONSUMPTION</b>	12	1,250	*	*	3	*	*	*
	<b>Indirect Uses-Boiler Fuel</b>								
	Conventional Boiler Use	--	15	*	*	2	*	*	--
	CHP and/or Cogeneration Process	--	15	*	*	2	*	*	--
	<b>Direct Uses-Total Process</b>	--	586	*	*	*	*	0	--
	Process Heating	--	32	*	0	*	0	0	--
	Process Cooling and Refrigeration	--	67	0	0	*	0	0	--
	Machine Drive	--	484	0	*	*	*	0	--
	Electro-Chemical Processes	--	0	--	--	--	--	--	--
	Other Process Use	--	3	0	0	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	649	*	*	*	*	*	--
	Facility HVAC (g)	--	446	*	*	*	*	*	--
	Facility Lighting	--	157	--	--	--	--	--	--
	Other Facility Support	--	44	0	0	*	*	*	--
	Onsite Transportation	--	2	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	*	0	--
	Other Nonprocess Use	--	0	0	*	*	*	0	--
	<b>End Use Not Reported</b>	*	0	0	0	0	*	0	*
313	TEXTILE MILLS								
	<b>TOTAL FUEL CONSUMPTION</b>	178	19,224	*	*	63	*	1	12
	<b>Indirect Uses-Boiler Fuel</b>								
	Conventional Boiler Use	--	182	*	*	33	*	1	--
	CHP and/or Cogeneration Process	--	182	*	*	33	*	1	--
	<b>Direct Uses-Total Process</b>	--	14,971	*	*	22	*	0	--
	Process Heating	--	1,933	*	0	21	*	0	--
	Process Cooling and Refrigeration	--	2,617	*	0	0	0	0	--
	Machine Drive	--	10,243	*	*	Q	*	0	--
	Electro-Chemical Processes	--	0	--	--	--	--	--	--
	Other Process Use	--	Q	*	0	Q	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	4,071	*	*	8	*	0	--
	Facility HVAC (g)	--	2,064	*	*	7	*	0	--
	Facility Lighting	--	1,546	--	--	--	--	--	--
	Other Facility Support	--	362	*	*	*	0	0	--
	Onsite Transportation	--	53	--	*	Q	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	Q	0	*	0	0	0	--
	<b>End Use Not Reported</b>	12	0	0	0	*	*	0	12
314	TEXTILE PRODUCT MILLS								
	<b>TOTAL FUEL CONSUMPTION</b>	72	5,920	*	*	45	*	*	*
	<b>Indirect Uses-Boiler Fuel</b>								
	Conventional Boiler Use	--	Q	*	*	16	*	*	--
	CHP and/or Cogeneration Process	--	Q	*	*	15	*	*	--
	<b>Direct Uses-Total Process</b>	--	3,896	0	0	Q	*	*	--
	Process Heating	--	645	0	0	Q	*	*	--
	Process Cooling and Refrigeration	--	504	0	0	Q	0	0	--
	Machine Drive	--	2,526	0	0	*	*	0	--
	Electro-Chemical Processes	--	Q	--	--	--	--	--	--
	Other Process Use	--	210	0	0	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1,755	0	*	3	*	*	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)	Coal (excluding Coal Coke and Breeze) (million short tons)	
									Other(f) (trillion Btu)	Other(f) (trillion Btu)
	Facility HVAC (g)	--	815	0	*	3	*	*	*	--
	Facility Lighting	--	595	--	--	--	--	--	--	--
	Other Facility Support	--	210	0	0	*	0	0	--	--
	Onsite Transportation	--	132	--	*	*	*	--	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	--
	Other Nonprocess Use	--	5	0	*	*	*	0	--	--
	<b>End Use Not Reported</b>	Q	Q	0	0	Q	*	*	*	*
<b>315</b>	<b>APPAREL</b>									
	<b>TOTAL FUEL CONSUMPTION</b>	14	2,013	*	*	7	*	0	*	
	<b>Indirect Uses-Boiler Fuel</b>	--	Q	*	*	4	*	0	--	
	Conventional Boiler Use	--	Q	*	*	4	*	0	--	
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--	
	<b>Direct Uses-Total Process</b>	--	863	0	0	2	*	0	--	
	Process Heating	--	79	0	0	Q	*	0	--	
	Process Cooling and Refrigeration	--	Q	0	0	*	0	0	--	
	Machine Drive	--	674	0	0	Q	0	0	--	
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	
	Other Process Use	--	Q	0	0	*	*	0	--	
	<b>Direct Uses-Total Nonprocess</b>	--	1,088	0	*	1	*	0	--	
	Facility HVAC (g)	--	614	0	0	1	0	0	--	
	Facility Lighting	--	365	--	--	--	--	--	--	
	Other Facility Support	--	101	0	0	*	0	0	--	
	Onsite Transportation	--	Q	--	0	0	*	--	--	
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	
	Other Nonprocess Use	--	Q	0	0	0	0	0	--	
	<b>End Use Not Reported</b>	*	Q	0	*	*	*	0	--	
<b>316</b>	<b>LEATHER AND ALLIED PRODUCTS</b>									
	<b>TOTAL FUEL CONSUMPTION</b>	3	413	*	*	1	*	0	*	
	<b>Indirect Uses-Boiler Fuel</b>	--	3	*	*	*	0	0	--	
	Conventional Boiler Use	--	3	*	*	*	0	0	--	
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--	
	<b>Direct Uses-Total Process</b>	--	225	0	0	1	*	0	--	
	Process Heating	--	20	0	0	1	*	0	--	
	Process Cooling and Refrigeration	--	7	0	0	*	0	0	--	
	Machine Drive	--	194	0	0	*	0	0	--	
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	
	Other Process Use	--	Q	0	0	0	0	0	--	
	<b>Direct Uses-Total Nonprocess</b>	--	146	0	*	*	*	0	--	
	Facility HVAC (g)	--	51	0	*	*	*	0	--	
	Facility Lighting	--	68	--	--	--	--	--	--	
	Other Facility Support	--	14	0	0	*	*	0	--	
	Onsite Transportation	--	Q	--	0	*	*	--	--	
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	
	Other Nonprocess Use	--	12	0	*	0	0	0	--	
	<b>End Use Not Reported</b>	*	37	0	0	*	0	0	--	
<b>321</b>	<b>WOOD PRODUCTS</b>									
	<b>TOTAL FUEL CONSUMPTION</b>	445	26,723	1	3	84	1	Q	228	

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	<b>Indirect Uses-Boiler Fuel</b>	--	373	*	*	24	*	*	--
	Conventional Boiler Use	--	373	*	*	15	*	*	--
	CHP and/or Cogeneration Process	--	--	0	*	9	*	*	--
	<b>Direct Uses-Total Process</b>	--	22,215	*	*	51	*	Q	--
	Process Heating	--	1,928	*	*	46	*	Q	--
	Process Cooling and Refrigeration	--	338	0	*	--	0	0	--
	Machine Drive	--	19,689	*	*	Q	*	0	--
	Electro-Chemical Processes	--	150	--	--	--	--	--	--
	Other Process Use	--	109	*	*	3	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	3,549	*	2	7	1	0	--
	Facility HVAC (g)	--	1,286	*	*	6	*	0	--
	Facility Lighting	--	1,796	--	--	--	--	--	--
	Other Facility Support	--	395	*	*	*	*	0	--
	Onsite Transportation	--	39	--	2	*	1	--	--
	Conventional Electricity Generation	--	--	0	*	0	*	0	--
	Other Nonprocess Use	--	33	0	*	*	*	0	--
	<b>End Use Not Reported</b>	236	587	*	*	2	*	*	228
321113	<b>Sawmills</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	138	6,724	*	1	12	*	0	94
	<b>Indirect Uses-Boiler Fuel</b>	--	*	*	Q	*	0	--	
	Conventional Boiler Use	--	*	*	*	*	0	--	
	CHP and/or Cogeneration Process	--	--	0	*	*	0	--	
	<b>Direct Uses-Total Process</b>	--	5,763	*	*	4	*	0	--
	Process Heating	--	533	*	*	4	*	0	--
	Process Cooling and Refrigeration	--	47	0	*	0	0	0	--
	Machine Drive	--	5,158	0	*	*	*	0	--
	Electro-Chemical Processes	--	10	--	--	--	--	--	--
	Other Process Use	--	15	0	*	0	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	786	*	1	*	*	0	--
	Facility HVAC (g)	--	297	*	*	*	*	0	--
	Facility Lighting	--	362	--	--	--	--	--	--
	Other Facility Support	--	105	0	*	*	*	0	--
	Onsite Transportation	--	12	--	1	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	*	0	--
	Other Nonprocess Use	--	10	0	*	0	*	0	--
	<b>End Use Not Reported</b>	96	175	0	*	1	*	0	94
3212	<b>Veneer, Plywood, and Engineered Woods</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	169	9,902	*	*	44	1	*	84
	<b>Indirect Uses-Boiler Fuel</b>	--	310	*	*	14	*	*	--
	Conventional Boiler Use	--	310	*	*	5	*	*	--
	CHP and/or Cogeneration Process	--	--	0	0	9	0	*	--
	<b>Direct Uses-Total Process</b>	--	8,135	*	*	26	*	*	--
	Process Heating	--	655	*	*	22	*	*	--
	Process Cooling and Refrigeration	--	120	0	0	0	0	0	--
	Machine Drive	--	7,204	0	*	Q	*	0	--
	Electro-Chemical Processes	--	94	--	--	--	--	--	--
	Other Process Use	--	62	0	*	3	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1,169	0	*	1	1	0	--
	Facility HVAC (g)	--	473	0	*	1	*	0	--
	Facility Lighting	--	571	--	--	--	--	--	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)	Coal (excluding Coal Coke and Breeze) (million short tons)	
									Other(f) (trillion Btu)	Other(f) (trillion Btu)
	Other Facility Support	--	120	0	*	*	*	0	--	--
	Onsite Transportation	--	Q	--	*	0	1	--	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	--
	Other Nonprocess Use	--	Q	0	*	*	0	0	--	--
	<b>End Use Not Reported</b>	<b>87</b>	<b>288</b>	<b>0</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>*</b>	<b>84</b>	
<b>3219</b>	<b>Other Wood Products</b>									
	<b>TOTAL FUEL CONSUMPTION</b>	<b>129</b>	<b>9,734</b>	*	<b>1</b>	<b>27</b>	*	<b>Q</b>	<b>Q</b>	
	<b>Indirect Uses-Boiler Fuel</b>	--	54	*	*	3	*	0	0	--
	Conventional Boiler Use	--	54	*	*	3	*	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>	--	<b>8,014</b>	*	*	<b>Q</b>	*	<b>Q</b>	<b>Q</b>	
	Process Heating	--	715	0	*	<b>Q</b>	*	<b>Q</b>	<b>Q</b>	--
	Process Cooling and Refrigeration	--	166	0	0	*	0	0	0	--
	Machine Drive	--	7,064	*	*	*	*	*	0	--
	Electro-Chemical Processes	--	44	--	--	--	--	--	--	--
	Other Process Use	--	24	0	*	*	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	<b>1,547</b>	0	<b>1</b>	<b>5</b>	*	0	0	--
	Facility HVAC (q)	--	493	0	*	4	*	0	0	--
	Facility Lighting	--	846	--	--	--	--	--	--	--
	Other Facility Support	--	163	0	*	*	*	0	0	--
	Onsite Transportation	--	24	--	1	0	*	--	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	0	--
	Other Nonprocess Use	--	Q	0	*	*	*	0	0	--
	<b>End Use Not Reported</b>	<b>Q</b>	<b>120</b>	*	*	*	*	*	<b>Q</b>	
<b>322</b>	<b>PAPER</b>									
	<b>TOTAL FUEL CONSUMPTION</b>	<b>2,354</b>	<b>72,518</b>	<b>15</b>	<b>2</b>	<b>461</b>	<b>1</b>	<b>10</b>	<b>1,303</b>	
	<b>Indirect Uses-Boiler Fuel</b>	--	3,083	W	1	269	*	9	--	
	Conventional Boiler Use	--	3,083	W	*	117	*	1	--	
	CHP and/or Cogeneration Process	--	--	7	*	153	*	8	--	
	<b>Direct Uses-Total Process</b>	--	<b>61,030</b>	<b>4</b>	*	<b>138</b>	*	<b>W</b>	<b>W</b>	
	Process Heating	--	2,532	4	*	120	*	W	W	--
	Process Cooling and Refrigeration	--	1,282	*	0	2	0	*	*	--
	Machine Drive	--	55,807	*	*	12	*	*	*	--
	Electro-Chemical Processes	--	573	--	--	--	--	--	--	--
	Other Process Use	--	836	0	*	4	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	<b>7,941</b>	*	*	<b>17</b>	<b>1</b>	*	--	
	Facility HVAC (q)	--	3,531	*	*	13	*	*	--	
	Facility Lighting	--	3,192	--	--	--	--	--	--	--
	Other Facility Support	--	905	*	*	1	*	*	--	
	Onsite Transportation	--	177	--	*	*	1	--	--	
	Conventional Electricity Generation	--	--	*	*	3	*	*	--	
	Other Nonprocess Use	--	136	0	*	*	*	0	0	--
	<b>End Use Not Reported</b>	<b>1,370</b>	<b>464</b>	W	*	<b>36</b>	*	W	<b>1,303</b>	
<b>322110</b>	<b>Pulp Mills</b>									
	<b>TOTAL FUEL CONSUMPTION</b>	<b>200</b>	<b>1,621</b>	<b>2</b>	<b>1</b>	<b>13</b>	*	*	<b>160</b>	
	<b>Indirect Uses-Boiler Fuel</b>	--	84	1	*	7	*	*	--	
	Conventional Boiler Use	--	84	*	*	4	*	0	--	

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	CHP and/or Cogeneration Process	--	--	1	*	3	0	*	--
	<b>Direct Uses-Total Process</b>	--	1,220	1	*	5	*	0	--
	Process Heating	--	66	1	*	5	*	0	--
	Process Cooling and Refrigeration	--	4	0	0	0	0	0	--
	Machine Drive	--	1,148	0	*	*	0	0	--
	Electro-Chemical Processes	--	1	--	--	--	--	--	--
	Other Process Use	--	0	0	*	0	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	210	*	*	*	*	0	--
	Facility HVAC (g)	--	74	*	0	*	0	0	--
	Facility Lighting	--	86	--	--	--	--	--	--
	Other Facility Support	--	50	0	0	*	0	0	--
	Onsite Transportation	--	0	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	0	0	*	0	0	0	--
	<b>End Use Not Reported</b>	164	107	*	*	1	0	0	160

**322121 Paper Mills, except Newsprint**

<b>TOTAL FUEL CONSUMPTION</b>	939	22,872	8	*	169	*	6	515
<b>Indirect Uses-Boiler Fuel</b>	--	416	5	*	92	*	5	--
Conventional Boiler Use	--	416	1	*	38	*	*	--
CHP and/or Cogeneration Process	--	--	4	*	54	*	5	--
<b>Direct Uses-Total Process</b>	--	20,081	2	*	64	*	*	--
Process Heating	--	986	2	*	53	*	*	--
Process Cooling and Refrigeration	--	326	*	0	2	0	*	--
Machine Drive	--	18,517	*	*	9	*	*	--
Electro-Chemical Processes	--	46	--	--	--	--	--	--
Other Process Use	--	206	0	*	*	*	0	--
<b>Direct Uses-Total Nonprocess</b>	--	2,375	*	*	6	*	*	--
Facility HVAC (g)	--	1,078	*	*	4	*	*	--
Facility Lighting	--	944	--	--	--	--	--	--
Other Facility Support	--	298	*	*	*	*	*	--
Onsite Transportation	--	23	--	*	*	*	--	--
Conventional Electricity Generation	--	--	*	0	1	0	*	--
Other Nonprocess Use	--	32	0	*	*	*	0	--
<b>End Use Not Reported</b>	522	0	0	*	7	*	0	515

**322122 Newsprint Mills**

<b>TOTAL FUEL CONSUMPTION</b>	72	9,486	*	*	8	*	1	15
<b>Indirect Uses-Boiler Fuel</b>	--	16	*	*	6	*	1	--
Conventional Boiler Use	--	16	*	*	*	*	0	--
CHP and/or Cogeneration Process	--	--	*	*	6	0	1	--
<b>Direct Uses-Total Process</b>	--	8,692	0	*	2	*	0	--
Process Heating	--	151	0	0	1	*	0	--
Process Cooling and Refrigeration	--	164	0	0	0	0	0	--
Machine Drive	--	8,221	0	*	0	*	0	--
Electro-Chemical Processes	--	156	--	--	--	--	--	--
Other Process Use	--	0	0	*	1	0	0	--
<b>Direct Uses-Total Nonprocess</b>	--	778	*	*	*	*	0	--
Facility HVAC (g)	--	273	*	0	*	0	0	--
Facility Lighting	--	243	--	--	--	--	--	--
Other Facility Support	--	102	*	*	*	0	0	--
Onsite Transportation	--	105	--	*	0	*	--	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	55	0	*	0	*	0	--
	<b>End Use Not Reported</b>	15	0	0	0	*	0	0	15
<b>322130</b>	<b>Paperboard Mills</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	827	21,868	5	1	138	*	3	502
	Indirect Uses-Boiler Fuel	--	1,145	W	1	100	0	2	--
	Conventional Boiler Use	--	1,145	W	*	39	0	*	--
	CHP and/or Cogeneration Process	--	--	2	*	61	0	2	--
	<b>Direct Uses-Total Process</b>	--	19,223	1	*	30	*	W	--
	Process Heating	--	649	1	*	26	*	W	--
	Process Cooling and Refrigeration	--	201	0	0	*	0	0	--
	Machine Drive	--	17,610	*	*	3	*	0	--
	Electro-Chemical Processes	--	338	--	--	--	--	--	--
	Other Process Use	--	424	0	*	2	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1,341	*	*	3	*	*	--
	Facility HVAC (g)	--	511	*	*	1	*	*	--
	Facility Lighting	--	647	--	--	--	--	--	--
	Other Facility Support	--	151	0	*	1	*	0	--
	Onsite Transportation	--	1	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	*	*	1	0	0	--
	Other Nonprocess Use	--	31	0	*	0	*	0	--
	<b>End Use Not Reported</b>	532	159	W	*	5	*	W	502
<b>323</b>	<b>PRINTING AND RELATED SUPPORT</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	85	12,995	*	*	38	*	0	*
	Indirect Uses-Boiler Fuel	--	98	0	0	5	*	0	--
	Conventional Boiler Use	--	98	0	0	5	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	7,974	0	*	26	*	0	--
	Process Heating	--	374	0	0	25	*	0	--
	Process Cooling and Refrigeration	--	767	0	0	*	0	0	--
	Machine Drive	--	6,734	0	*	Q	*	0	--
	Electro-Chemical Processes	--	Q	--	--	--	--	--	--
	Other Process Use	--	49	0	0	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	4,649	*	*	7	*	0	--
	Facility HVAC (g)	--	2,431	*	*	7	*	0	--
	Facility Lighting	--	1,568	--	--	--	--	--	--
	Other Facility Support	--	544	*	*	*	*	0	--
	Onsite Transportation	--	Q	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	Q	0	*	*	*	0	--
	<b>End Use Not Reported</b>	Q	275	0	0	Q	*	0	*
<b>324</b>	<b>PETROLEUM AND COAL PRODUCTS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	3,396	40,134	9	4	825	7	2	2,246
	Indirect Uses-Boiler Fuel	--	515	W	1	272	1	*	--
	Conventional Boiler Use	--	515	W	*	116	1	*	--
	CHP and/or Cogeneration Process	--	--	*	*	156	*	*	--
	<b>Direct Uses-Total Process</b>	--	37,081	2	3	529	6	2	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)	Coal (excluding Coal Coke and Breeze) (million short tons)		Other(f) (trillion Btu)
									Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	
	Process Heating	--	S	2	2	490	5	*	*	--	
	Process Cooling and Refrigeration	--	2,258	0	*	1	*	*	0	--	
	Machine Drive	--	35,265	0	1	16	*	*	2	--	
	Electro-Chemical Processes	--	37	--	--	--	--	--	--	--	
	Other Process Use	--	Q	0	*	22	*	0	0	--	
	<b>Direct Uses-Total Nonprocess</b>	--	2,438	0	1	20	*	0	0	--	
	Facility HVAC (g)	--	1,347	0	*	7	*	0	0	--	
	Facility Lighting	--	983	--	--	--	--	--	--	--	
	Other Facility Support	--	324	0	*	1	*	0	0	--	
	Onsite Transportation	--	17	--	*	*	*	--	--	--	
	Conventional Electricity Generation	--	--	0	*	11	0	0	0	--	
	Other Nonprocess Use	--	S	0	*	*	*	0	0	--	
	<b>End Use Not Reported</b>	W	Q	W	*	Q	1	0	0	2,246	
<b>324110</b>	<b>Petroleum Refineries</b>										
	<b>TOTAL FUEL CONSUMPTION</b>	3,230	37,155	8	1	766	7	*	2,226		
	<b>Indirect Uses-Boiler Fuel</b>	--	470	W	1	249	1	*	--		
	Conventional Boiler Use	--	470	W	*	93	1	*	--		
	CHP and/or Cogeneration Process	--	--	*	*	156	*	0	--		
	<b>Direct Uses-Total Process</b>	--	34,673	1	*	500	6	*	--		
	Process Heating	--	S	1	*	468	5	*	--		
	Process Cooling and Refrigeration	--	2,155	0	*	1	*	0	--		
	Machine Drive	--	33,549	0	*	14	*	0	--		
	Electro-Chemical Processes	--	37	--	--	--	--	--	--		
	Other Process Use	--	95	0	*	17	*	0	--		
	<b>Direct Uses-Total Nonprocess</b>	--	2,012	0	*	17	*	0	--		
	Facility HVAC (g)	--	1,011	0	*	4	*	0	--		
	Facility Lighting	--	761	--	--	--	--	--	--		
	Other Facility Support	--	210	0	*	1	0	0	--		
	Onsite Transportation	--	12	--	*	*	*	--	--		
	Conventional Electricity Generation	--	--	0	*	11	0	0	--		
	Other Nonprocess Use	--	19	0	*	*	0	0	--		
	<b>End Use Not Reported</b>	W	0	W	*	*	1	0	0	2,226	
<b>324199</b>	<b>Other Petroleum and Coal Products</b>										
	<b>TOTAL FUEL CONSUMPTION</b>	72	117	0	*	3	*	2	17		
	<b>Indirect Uses-Boiler Fuel</b>	--	S	0	0	*	*	*	--		
	Conventional Boiler Use	--	S	0	0	*	*	*	--		
	CHP and/or Cogeneration Process	--	--	0	0	*	0	*	--		
	<b>Direct Uses-Total Process</b>	--	241	0	*	2	*	2	--		
	Process Heating	--	76	0	*	2	*	0	--		
	Process Cooling and Refrigeration	--	12	0	*	*	0	0	--		
	Machine Drive	--	151	0	*	*	0	2	--		
	Electro-Chemical Processes	--	0	--	--	--	--	--	--		
	Other Process Use	--	3	0	0	0	*	0	--		
	<b>Direct Uses-Total Nonprocess</b>	--	S	0	*	*	*	0	--		
	Facility HVAC (g)	--	61	0	*	*	*	0	--		
	Facility Lighting	--	61	--	--	--	--	--	--		
	Other Facility Support	--	29	0	*	*	0	0	--		
	Onsite Transportation	--	0	--	*	0	*	--	--		
	Conventional Electricity Generation	--	--	0	0	0	0	0	--		
	Other Nonprocess Use	--	S	0	0	0	*	0	--		

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	<b>End Use Not Reported</b>	17	0	0	*	0	0	0	17
<b>325</b>	<b>CHEMICALS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	3,196	151,595	4	2	1,355	2	8	1,078
	<b>Indirect Uses-Boiler Fuel</b>	--	3,436	3	1	802	1	7	--
	Conventional Boiler Use	--	3,436	2	1	373	1	2	--
	CHP and/or Cogeneration Process	--	--	*	*	429	*	4	--
	<b>Direct Uses-Total Process</b>	--	128,295	1	*	496	1	*	--
	Process Heating	--	7,393	1	*	377	*	*	--
	Process Cooling and Refrigeration	--	12,952	0	*	17	*	0	--
	Machine Drive	--	91,950	0	*	63	*	*	--
	Electro-Chemical Processes	--	14,449	--	--	--	--	--	--
	Other Process Use	--	1,552	0	*	39	1	*	--
	<b>Direct Uses-Total Nonprocess</b>	--	18,708	*	1	32	*	*	--
	Facility HVAC (g)	--	9,869	*	*	22	*	*	--
	Facility Lighting	--	5,893	--	--	--	--	--	--
	Other Facility Support	--	2,229	0	*	2	*	0	--
	Onsite Transportation	--	Q	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	3	*	0	--
	Other Nonprocess Use	--	486	*	*	5	*	0	--
	<b>End Use Not Reported</b>	1,114	1,155	0	*	24	*	*	1,078
<b>325110</b>	<b>Petrochemicals</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	757	4,740	1	*	107	*	0	625
	<b>Indirect Uses-Boiler Fuel</b>	--	7	1	*	36	0	0	--
	Conventional Boiler Use	--	7	1	*	18	0	0	--
	CHP and/or Cogeneration Process	--	--	0	*	18	0	0	--
	<b>Direct Uses-Total Process</b>	--	4,233	0	*	70	0	0	--
	Process Heating	--	211	0	*	W	0	0	--
	Process Cooling and Refrigeration	--	712	0	0	*	0	0	--
	Machine Drive	--	2,758	0	*	W	0	0	--
	Electro-Chemical Processes	--	551	--	--	--	--	--	--
	Other Process Use	--	1	0	*	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	495	0	*	1	*	0	--
	Facility HVAC (g)	--	201	0	*	*	*	0	--
	Facility Lighting	--	227	--	--	--	--	--	--
	Other Facility Support	--	68	0	0	*	0	0	--
	Onsite Transportation	--	0	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	*	0	--
	Other Nonprocess Use	--	0	0	*	1	*	0	--
	<b>End Use Not Reported</b>	625	5	0	0	*	0	0	625
<b>325120</b>	<b>Industrial Gases</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	87	20,838	0	*	13	*	0	3
	<b>Indirect Uses-Boiler Fuel</b>	--	33	0	*	6	0	0	--
	Conventional Boiler Use	--	33	0	*	6	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	20,039	0	*	7	*	0	--
	Process Heating	--	74	0	*	5	*	0	--
	Process Cooling and Refrigeration	--	498	0	*	*	0	0	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)	
	Machine Drive	--	19,384	0	*	0	0	0	0	--
	Electro-Chemical Processes	--	83	--	--	--	--	0	0	--
	Other Process Use	--	0	0	0	2	0	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	766	0	*	*	*	*	0	--
	Facility HVAC (g)	--	498	0	*	*	*	0	0	--
	Facility Lighting	--	225	--	--	--	--	0	0	--
	Other Facility Support	--	43	0	*	*	0	0	0	--
	Onsite Transportation	--	0	--	0	0	*	0	0	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	0	--
	Other Nonprocess Use	--	*	0	0	0	0	0	0	--
	<b>End Use Not Reported</b>	3	0	0	0	*	*	0	0	3
<b>325181</b>	<b>Alkalies and Chlorine</b>									
	<b>TOTAL FUEL CONSUMPTION</b>	153	6,086	0	*	103	*	1	9	
	<b>Indirect Uses-Boiler Fuel</b>	--	S	0	*	56	0	1	--	
	Conventional Boiler Use	--	S	0	*	14	0	*	--	
	CHP and/or Cogeneration Process	--	--	0	0	42	0	*	--	
	<b>Direct Uses-Total Process</b>	--	5,867	0	*	47	0	*	--	
	Process Heating	--	20	0	0	15	0	*	--	
	Process Cooling and Refrigeration	--	38	0	0	0	0	0	--	
	Machine Drive	--	1,563	0	*	32	0	0	--	
	Electro-Chemical Processes	--	3,226	--	--	--	--	--	--	
	Other Process Use	--	1,020	0	0	*	0	0	--	
	<b>Direct Uses-Total Nonprocess</b>	--	222	0	*	*	*	0	--	
	Facility HVAC (g)	--	77	0	0	*	*	0	--	
	Facility Lighting	--	82	--	--	--	--	--	--	
	Other Facility Support	--	S	0	0	*	0	0	--	
	Onsite Transportation	--	*	--	*	0	*	--	--	
	Conventional Electricity Generation	--	--	0	0	*	0	0	--	
	Other Nonprocess Use	--	70	0	0	*	0	0	--	
	<b>End Use Not Reported</b>	9	0	0	0	0	0	0	0	9
<b>325182</b>	<b>Carbon Black</b>									
	<b>TOTAL FUEL CONSUMPTION</b>	15	594	*	*	10	*	0	2	
	<b>Indirect Uses-Boiler Fuel</b>	--	10	*	0	2	0	0	--	
	Conventional Boiler Use	--	10	*	0	2	0	0	--	
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--	
	<b>Direct Uses-Total Process</b>	--	421	*	*	4	0	0	--	
	Process Heating	--	13	*	0	3	0	0	--	
	Process Cooling and Refrigeration	--	2	0	0	0	0	0	--	
	Machine Drive	--	398	0	*	*	0	0	--	
	Electro-Chemical Processes	--	8	--	--	--	--	--	--	
	Other Process Use	--	0	0	0	*	0	0	--	
	<b>Direct Uses-Total Nonprocess</b>	--	163	*	*	*	*	0	--	
	Facility HVAC (g)	--	118	*	0	*	0	0	--	
	Facility Lighting	--	40	--	--	--	--	--	--	
	Other Facility Support	--	3	0	0	*	0	0	--	
	Onsite Transportation	--	2	--	*	0	*	--	--	
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	
	Other Nonprocess Use	--	0	0	0	0	0	0	--	
	<b>End Use Not Reported</b>	6	0	0	0	4	0	0	0	2

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
325188	Other Basic Inorganic Chemicals								
<b>TOTAL FUEL CONSUMPTION</b>									
	Indirect Uses-Boiler Fuel	189	24,132	1	*	52	*	1	21
	Conventional Boiler Use	--	186	1	*	14	*	1	--
	CHP and/or Cogeneration Process	--	186	1	*	13	*	*	--
	Direct Uses-Total Process	--	21,782	1	*	32	*	1	--
	Process Heating	--	448	1	*	29	*	*	--
	Process Cooling and Refrigeration	--	643	0	*	*	0	0	--
	Machine Drive	--	15,670	0	*	*	*	0	--
	Electro-Chemical Processes	--	4,864	--	--	--	--	--	--
	Other Process Use	--	158	0	*	2	*	0	--
	Direct Uses-Total Nonprocess	--	1,783	0	*	2	*	0	--
	Facility HVAC (g)	--	864	0	*	1	*	0	--
	Facility Lighting	--	511	--	--	--	--	--	--
	Other Facility Support	--	249	0	*	*	0	0	--
	Onsite Transportation	--	Q	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	153	0	*	*	*	0	--
	End Use Not Reported	27	381	0	*	5	*	0	21
325192	Cyclic Crudes and Intermediates								
<b>TOTAL FUEL CONSUMPTION</b>									
	Indirect Uses-Boiler Fuel	37	2,566	*	*	15	*	0	12
	Conventional Boiler Use	--	1	*	*	9	0	0	--
	CHP and/or Cogeneration Process	--	1	*	*	9	0	0	--
	Direct Uses-Total Process	--	2,333	0	*	6	*	0	--
	Process Heating	--	1,638	0	*	6	*	0	--
	Process Cooling and Refrigeration	--	172	0	0	0	0	0	--
	Machine Drive	--	523	0	*	0	0	0	--
	Electro-Chemical Processes	--	0	--	--	--	--	--	--
	Other Process Use	--	*	0	0	*	0	0	--
	Direct Uses-Total Nonprocess	--	231	0	*	*	*	0	--
	Facility HVAC (g)	--	112	0	0	*	0	0	--
	Facility Lighting	--	70	--	--	--	--	--	--
	Other Facility Support	--	47	0	0	*	0	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	3	0	*	0	*	0	--
	End Use Not Reported	12	0	0	0	*	*	0	12
325193	Ethyl Alcohol								
<b>TOTAL FUEL CONSUMPTION</b>									
	Indirect Uses-Boiler Fuel	110	2,717	0	*	80	*	1	*
	Conventional Boiler Use	--	111	0	*	47	*	1	--
	CHP and/or Cogeneration Process	--	111	0	*	45	*	*	--
	Direct Uses-Total Process	--	2,400	0	*	3	0	*	--
	Process Heating	--	220	0	0	25	*	0	--
	Process Cooling and Refrigeration	--	271	0	0	0	0	0	--
	Machine Drive	--	1,837	0	*	0	0	0	--
	Electro-Chemical Processes	--	0	--	--	--	--	--	--

**Table 5.1 End Uses of Fuel Consumption, 2006;**

### 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)
	Other Process Use	--	72	0	0	3	0	0	--
	<b>Direct Uses-Total Nonprocess</b>								
	Facility HVAC (g)	--	206	0	*	1	*	*	--
	Facility Lighting	--	80	0	0	1	*	*	--
	Other Facility Support	--	81	--	--	--	--	--	--
	Onsite Transportation	--	36	0	0	*	0	0	--
	Conventional Electricity Generation	--	--	5	*	0	0	0	--
	Other Nonprocess Use	--	--	3	0	*	*	0	--
	<b>End Use Not Reported</b>	10	0	0	*	3	0	*	*
325199	Other Basic Organic Chemicals								
	<b>TOTAL FUEL CONSUMPTION</b>	647	21,433	*	*	298	*	2	209
	<b>Indirect Uses-Boiler Fuel</b>								
	Conventional Boiler Use	--	261	*	*	200	*	2	--
	CHP and/or Cogeneration Process	--	261	*	*	112	*	*	--
	<b>Direct Uses-Total Process</b>								
	Process Heating	--	18,858	*	*	83	*	*	--
	Process Cooling and Refrigeration	--	1,004	*	*	64	*	*	--
	Machine Drive	--	2,271	0	0	4	0	0	--
	Electro-Chemical Processes	--	11,317	0	*	2	0	*	--
	Other Process Use	--	4,175	--	--	--	--	--	--
	<b>Direct Uses-Total Nonprocess</b>								
	Facility HVAC (g)	--	91	0	*	13	*	0	--
	Facility Lighting	--	91	0	*	5	*	*	--
	Other Facility Support	--	2,001	*	*	3	*	*	--
	Onsite Transportation	--	710	--	--	--	--	--	--
	Conventional Electricity Generation	--	--	245	0	*	*	0	--
	Other Nonprocess Use	--	--	22	--	*	0	*	--
	<b>End Use Not Reported</b>	220	313	0	*	9	*	0	209
325211	Plastics Materials and Resins								
	<b>TOTAL FUEL CONSUMPTION</b>	559	19,180	*	*	324	2	*	143
	<b>Indirect Uses-Boiler Fuel</b>								
	Conventional Boiler Use	--	2,147	*	*	257	*	*	--
	CHP and/or Cogeneration Process	--	2,147	*	*	50	*	*	--
	<b>Direct Uses-Total Process</b>								
	Process Heating	--	15,036	*	*	62	1	0	--
	Process Cooling and Refrigeration	--	867	*	*	W	*	0	--
	Machine Drive	--	1,917	0	*	1	*	0	--
	Electro-Chemical Processes	--	11,723	0	*	W	*	0	--
	Other Process Use	--	510	--	--	--	--	--	--
	<b>Direct Uses-Total Nonprocess</b>								
	Facility HVAC (g)	--	19	0	*	8	1	0	--
	Facility Lighting	--	19	0	*	4	*	0	--
	Other Facility Support	--	1,883	0	*	2	*	0	--
	Onsite Transportation	--	779	0	*	--	--	--	--
	Conventional Electricity Generation	--	696	--	--	--	--	--	--
	Other Nonprocess Use	--	403	0	*	*	*	0	--
	<b>End Use Not Reported</b>	144	114	0	0	1	*	0	143

## 325212 Synthetic Rubber

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	<b>TOTAL FUEL CONSUMPTION</b>	44	1,661	*	*	25	*	*	6
	<b>Indirect Uses-Boiler Fuel</b>	--	31	*	*	21	*	*	--
	Conventional Boiler Use	--	31	*	*	6	*	*	--
	CHP and/or Cogeneration Process	--	--	0	0	16	0	*	--
	<b>Direct Uses-Total Process</b>	--	1,280	0	*	4	*	0	--
	Process Heating	--	126	0	0	3	*	0	--
	Process Cooling and Refrigeration	--	322	0	0	*	0	0	--
	Machine Drive	--	821	0	*	*	0	0	--
	Electro-Chemical Processes	--	3	--	--	--	--	--	--
	Other Process Use	--	8	0	*	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	336	*	*	*	*	0	--
	Facility HVAC (g)	--	199	0	*	*	*	0	--
	Facility Lighting	--	100	--	--	--	--	--	--
	Other Facility Support	--	26	0	0	*	0	0	--
	Onsite Transportation	--	11	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	*	*	*	*	*	0	--
	<b>End Use Not Reported</b>	6	14	0	0	*	0	0	6
325222	<b>Noncellulosic Organic Fibers</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	82	4,841	*	*	33	*	*	21
	<b>Indirect Uses-Boiler Fuel</b>	--	236	*	*	20	*	*	--
	Conventional Boiler Use	--	236	*	*	12	*	*	--
	CHP and/or Cogeneration Process	--	--	*	0	8	0	*	--
	<b>Direct Uses-Total Process</b>	--	3,920	*	*	11	*	*	--
	Process Heating	--	380	*	*	8	*	*	--
	Process Cooling and Refrigeration	--	858	0	0	*	0	0	--
	Machine Drive	--	2,634	0	*	3	0	0	--
	Electro-Chemical Processes	--	0	--	--	--	--	--	--
	Other Process Use	--	49	0	*	*	0	*	--
	<b>Direct Uses-Total Nonprocess</b>	--	683	*	*	2	*	0	--
	Facility HVAC (g)	--	335	*	*	*	*	0	--
	Facility Lighting	--	187	--	--	--	--	--	--
	Other Facility Support	--	116	0	*	0	*	0	--
	Onsite Transportation	--	18	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	2	0	0	--
	Other Nonprocess Use	--	26	0	*	*	0	0	--
	<b>End Use Not Reported</b>	21	3	0	0	*	*	0	21
325311	<b>Nitrogenous Fertilizers</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	128	2,430	0	*	113	*	0	3
	<b>Indirect Uses-Boiler Fuel</b>	--	12	0	*	27	*	0	--
	Conventional Boiler Use	--	12	0	*	24	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	3	0	0	--
	<b>Direct Uses-Total Process</b>	--	2,221	0	*	86	*	0	--
	Process Heating	--	55	0	*	64	*	0	--
	Process Cooling and Refrigeration	--	231	0	0	12	0	0	--
	Machine Drive	--	1,927	0	*	6	0	0	--
	Electro-Chemical Processes	--	4	--	--	--	--	--	--
	Other Process Use	--	3	0	*	4	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	197	0	*	1	*	0	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	Facility HVAC (g)	--	84	0	*	*	*	0	--
	Facility Lighting	--	92	--	--	--	--	--	--
	Other Facility Support	--	17	0	0	*	0	0	--
	Onsite Transportation	--	2	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	2	0	*	0	0	0	--
	<b>End Use Not Reported</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>0</b>	<b>3</b>
<b>325312</b>	<b>Phosphatic Fertilizers</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>19</b>	<b>1,489</b>	*	*	11	*	*	*
	<b>Indirect Uses-Boiler Fuel</b>		0	*	*	1	0	0	--
	Conventional Boiler Use	--	0	0	0	1	0	0	--
	CHP and/or Cogeneration Process	--	--	*	*	1	0	0	--
	<b>Direct Uses-Total Process</b>		<b>1,432</b>	*	*	9	*	*	--
	Process Heating	--	12	*	*	7	*	*	--
	Process Cooling and Refrigeration	--	5	0	0	0	0	0	--
	Machine Drive	--	1,330	0	*	1	0	0	--
	Electro-Chemical Processes	--	85	--	--	--	--	--	--
	Other Process Use	--	*	0	*	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>		<b>57</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>	<b>--</b>
	Facility HVAC (g)	--	28	0	0	*	*	0	--
	Facility Lighting	--	20	--	--	--	--	--	--
	Other Facility Support	--	9	0	0	*	0	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	0	0	*	0	0	0	--
	<b>End Use Not Reported</b>	*	0	0	0	0	*	0	*
<b>3254</b>	<b>Pharmaceuticals and Medicines</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>92</b>	<b>9,207</b>	*	*	45	*	*	<b>6</b>
	<b>Indirect Uses-Boiler Fuel</b>		172	*	*	36	*	*	--
	Conventional Boiler Use	--	172	*	*	20	*	*	--
	CHP and/or Cogeneration Process	--	--	*	*	17	*	0	--
	<b>Direct Uses-Total Process</b>		<b>3,926</b>	0	*	3	*	*	--
	Process Heating	--	315	0	*	2	*	*	--
	Process Cooling and Refrigeration	--	1,401	0	*	*	0	0	--
	Machine Drive	--	2,092	0	*	*	*	0	--
	Electro-Chemical Processes	--	14	--	--	--	--	--	--
	Other Process Use	--	103	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>		<b>4,833</b>	<b>0</b>	<b>*</b>	<b>6</b>	<b>*</b>	<b>0</b>	<b>--</b>
	Facility HVAC (g)	--	2,962	0	*	5	*	0	--
	Facility Lighting	--	1,275	--	--	--	--	--	--
	Other Facility Support	--	456	0	*	*	*	0	--
	Onsite Transportation	--	14	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	*	0	--
	Other Nonprocess Use	--	125	0	*	1	*	0	--
	<b>End Use Not Reported</b>	<b>7</b>	<b>276</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>	<b>6</b>
<b>325412</b>	<b>Pharmaceutical Preparation</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>64</b>	<b>6,332</b>	*	*	30	*	*	<b>4</b>

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	<b>Indirect Uses-Boiler Fuel</b>	--	135	*	*	24	*	*	--
	Conventional Boiler Use	--	135	*	*	11	*	*	--
	CHP and/or Cogeneration Process	--	--	*	*	12	*	0	--
	<b>Direct Uses-Total Process</b>	--	2,548	0	*	2	*	*	--
	Process Heating	--	246	0	*	2	0	*	--
	Process Cooling and Refrigeration	--	900	0	0	*	0	0	--
	Machine Drive	--	1,359	0	*	*	*	0	--
	Electro-Chemical Processes	--	8	--	--	--	--	--	--
	Other Process Use	--	35	0	*	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	3,482	0	*	4	*	0	--
	Facility HVAC (g)	--	2,085	0	*	3	*	0	--
	Facility Lighting	--	910	--	--	--	--	--	--
	Other Facility Support	--	347	0	*	*	*	0	--
	Onsite Transportation	--	14	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	*	0	--
	Other Nonprocess Use	--	125	0	*	1	*	0	--
	<b>End Use Not Reported</b>	5	Q	0	*	*	*	0	4

**325992 Photographic Film, Paper, Plate, and Chemicals**

	<b>TOTAL FUEL CONSUMPTION</b>	28	1,044	*	*	7	*	1	Q
	<b>Indirect Uses-Boiler Fuel</b>	--	38	*	*	4	0	1	--
	Conventional Boiler Use	--	38	*	*	1	0	0	--
	CHP and/or Cogeneration Process	--	--	*	*	3	0	1	--
	<b>Direct Uses-Total Process</b>	--	620	0	*	2	*	0	--
	Process Heating	--	61	0	*	1	*	0	--
	Process Cooling and Refrigeration	--	119	0	0	*	0	0	--
	Machine Drive	--	401	0	*	*	0	0	--
	Electro-Chemical Processes	--	28	--	--	--	--	--	--
	Other Process Use	--	11	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	385	*	*	1	*	0	--
	Facility HVAC (g)	--	259	*	*	1	*	0	--
	Facility Lighting	--	96	--	--	--	--	--	--
	Other Facility Support	--	28	0	0	*	0	0	--
	Onsite Transportation	--	3	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	Q	0	0	0	*	*	0	Q

**326 PLASTICS AND RUBBER PRODUCTS**

	<b>TOTAL FUEL CONSUMPTION</b>	336	53,404	1	1	124	1	*	*
	<b>Indirect Uses-Boiler Fuel</b>	--	354	1	*	56	*	*	--
	Conventional Boiler Use	--	354	1	*	56	*	*	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>	--	40,707	*	*	36	*	0	--
	Process Heating	--	8,172	*	*	31	*	0	--
	Process Cooling and Refrigeration	--	4,800	0	0	*	0	0	--
	Machine Drive	--	26,832	0	*	3	*	0	--
	Electro-Chemical Processes	--	Q	--	--	--	--	--	--
	Other Process Use	--	Q	*	*	3	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	12,152	*	*	26	1	0	--
	Facility HVAC (g)	--	5,728	*	*	24	*	0	--
	Facility Lighting	--	4,572	--	--	--	--	--	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)	Coal (excluding Coal Coke and Breeze) (million short tons)		Other(f) (trillion Btu)
									Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	
	Other Facility Support	--	1,561	0	*	2	*	*	0	--	
	Onsite Transportation	--	254	--	*	*	1	*	--	--	
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	--	
	Other Nonprocess Use	--	Q	0	*	*	*	0	--	--	
	<b>End Use Not Reported</b>	Q	192	0	*	Q	*	0	*	--	
<b>327</b>	<b>NONMETALLIC MINERAL PRODUCTS</b>										
	<b>TOTAL FUEL CONSUMPTION</b>	1,105	42,976	1	5	446	1	14	141		
	<b>Indirect Uses-Boiler Fuel</b>	--	118	0	*	21	*	*	--		
	Conventional Boiler Use	--	118	0	*	20	*	*	--		
	CHP and/or Cogeneration Process	--	--	0	0	1	0	0	--		
	<b>Direct Uses-Total Process</b>	--	36,537	*	3	354	Q	W	--		
	Process Heating	--	9,669	*	*	347	Q	W	--		
	Process Cooling and Refrigeration	--	1,203	0	*	*	0	0	--		
	Machine Drive	--	24,177	0	2	5	*	*	--		
	Electro-Chemical Processes	--	108	--	--	--	--	--	--		
	Other Process Use	--	1,380	0	1	1	*	0	--		
	<b>Direct Uses-Total Nonprocess</b>	--	6,049	*	2	18	*	0	--		
	Facility HVAC (g)	--	2,740	*	*	17	*	0	--		
	Facility Lighting	--	2,243	--	--	--	--	--	--		
	Other Facility Support	--	789	*	*	1	*	0	--		
	Onsite Transportation	--	154	--	1	*	*	--	--		
	Conventional Electricity Generation	--	--	0	*	*	*	0	--		
	Other Nonprocess Use	--	123	0	*	*	*	0	--		
	<b>End Use Not Reported</b>	W	271	0	*	53	*	W	141		
<b>327211</b>	<b>Flat Glass</b>										
	<b>TOTAL FUEL CONSUMPTION</b>	61	1,903	*	*	50	*	0	1		
	<b>Indirect Uses-Boiler Fuel</b>	--	13	0	*	2	0	0	--		
	Conventional Boiler Use	--	13	0	*	2	0	0	--		
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--		
	<b>Direct Uses-Total Process</b>	--	1,674	*	*	48	*	0	--		
	Process Heating	--	739	*	*	47	*	0	--		
	Process Cooling and Refrigeration	--	134	0	0	*	0	0	--		
	Machine Drive	--	735	0	*	*	*	0	--		
	Electro-Chemical Processes	--	22	--	--	--	--	--	--		
	Other Process Use	--	44	0	*	*	*	0	--		
	<b>Direct Uses-Total Nonprocess</b>	--	216	0	*	1	*	0	--		
	Facility HVAC (g)	--	82	0	*	1	*	0	--		
	Facility Lighting	--	96	--	--	--	--	--	--		
	Other Facility Support	--	28	0	0	*	*	0	--		
	Onsite Transportation	--	10	--	*	0	*	--	--		
	Conventional Electricity Generation	--	--	0	*	0	0	0	--		
	Other Nonprocess Use	--	0	0	*	0	*	0	--		
	<b>End Use Not Reported</b>	1	0	0	0	*	0	0	1		
<b>327212</b>	<b>Other Pressed and Blown Glass and Glassware</b>										
	<b>TOTAL FUEL CONSUMPTION</b>	91	5,121	0	*	Q	*	0	9		
	<b>Indirect Uses-Boiler Fuel</b>	--	1	0	*	Q	*	0	--		
	Conventional Boiler Use	--	1	0	*	Q	*	0	--		

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	4,403	0	*	Q	*	0	--
	Process Heating	--	1,167	0	*	Q	*	0	--
	Process Cooling and Refrigeration	--	Q	0	0	0	0	0	--
	Machine Drive	--	Q	0	*	*	*	0	--
	Electro-Chemical Processes	--	13	--	--	--	--	--	--
	Other Process Use	--	352	0	*	0	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	647	0	*	3	*	0	--
	Facility HVAC (g)	--	Q	0	*	Q	*	0	--
	Facility Lighting	--	232	--	--	--	--	--	--
	Other Facility Support	--	22	0	*	*	*	0	--
	Onsite Transportation	--	Q	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	*	0	--
	Other Nonprocess Use	--	0	0	*	0	*	0	--
	<b>End Use Not Reported</b>	12	69	0	0	2	*	0	9
327213	Glass Containers								
	<b>TOTAL FUEL CONSUMPTION</b>	64	3,944	0	*	49	*	0	*
	<b>Indirect Uses-Boiler Fuel</b>	--	0	0	0	*	0	0	--
	Conventional Boiler Use	--	0	0	0	*	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	3,512	0	*	47	*	0	--
	Process Heating	--	1,460	0	*	47	*	0	--
	Process Cooling and Refrigeration	--	113	0	0	0	0	0	--
	Machine Drive	--	1,925	0	*	0	0	0	--
	Electro-Chemical Processes	--	0	--	--	--	--	--	--
	Other Process Use	--	15	0	*	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	431	0	*	2	*	0	--
	Facility HVAC (g)	--	191	0	*	2	*	0	--
	Facility Lighting	--	160	--	--	--	--	--	--
	Other Facility Support	--	28	0	0	*	*	0	--
	Onsite Transportation	--	12	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	40	0	0	0	0	0	--
	<b>End Use Not Reported</b>	*	0	0	0	0	0	0	*
327215	Glass Products from Purchased Glass								
	<b>TOTAL FUEL CONSUMPTION</b>	65	3,670	0	*	50	*	*	*
	<b>Indirect Uses-Boiler Fuel</b>	--	12	0	*	9	*	*	--
	Conventional Boiler Use	--	12	0	*	9	*	*	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>	--	2,907	0	*	5	*	0	--
	Process Heating	--	1,626	0	*	5	*	0	--
	Process Cooling and Refrigeration	--	245	0	*	0	0	0	--
	Machine Drive	--	924	0	*	*	*	0	--
	Electro-Chemical Processes	--	52	--	--	--	--	--	--
	Other Process Use	--	61	0	*	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	709	0	*	2	*	0	--
	Facility HVAC (g)	--	383	0	*	2	*	0	--
	Facility Lighting	--	257	--	--	--	--	--	--
	Other Facility Support	--	54	0	*	*	*	0	--
	Onsite Transportation	--	12	--	*	0	*	--	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	3	0	*	*	*	0	--
	<b>End Use Not Reported</b>	Q	Q	0	0	Q	*	*	*
<b>327310</b>	<b>Cements</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	382	11,992	*	1	19	*	11	82
	Indirect Uses-Boiler Fuel	--	0	0	*	1	*	0	--
	Conventional Boiler Use	--	0	0	*	Q	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	1	0	0	--
	<b>Direct Uses-Total Process</b>	--	10,059	*	*	18	*	10	--
	Process Heating	--	1,076	*	*	16	*	10	--
	Process Cooling and Refrigeration	--	76	0	0	0	0	0	--
	Machine Drive	--	8,564	0	*	Q	*	*	--
	Electro-Chemical Processes	--	Q	--	--	--	--	--	--
	Other Process Use	--	340	0	*	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1,796	*	*	*	*	0	--
	Facility HVAC (g)	--	719	*	*	*	*	0	--
	Facility Lighting	--	572	--	--	--	--	--	--
	Other Facility Support	--	360	0	*	*	*	0	--
	Onsite Transportation	--	74	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	72	0	*	0	0	0	--
	<b>End Use Not Reported</b>	85	136	0	*	0	*	*	82
<b>327410</b>	<b>Lime</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	116	1,431	*	*	5	*	4	26
	Indirect Uses-Boiler Fuel	--	0	0	0	*	0	0	--
	Conventional Boiler Use	--	0	0	0	*	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	1,281	*	*	5	*	W	--
	Process Heating	--	190	*	*	5	*	W	--
	Process Cooling and Refrigeration	--	3	0	0	0	0	0	--
	Machine Drive	--	1,073	0	*	0	*	0	--
	Electro-Chemical Processes	--	15	--	--	--	--	--	--
	Other Process Use	--	*	0	*	0	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	150	0	*	*	*	0	--
	Facility HVAC (g)	--	59	0	*	*	*	0	--
	Facility Lighting	--	64	--	--	--	--	--	--
	Other Facility Support	--	27	0	0	*	*	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	0	0	0	0	*	0	--
	<b>End Use Not Reported</b>	W	0	0	*	*	*	W	26
<b>327420</b>	<b>Gypsum</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	86	1,845	*	*	74	*	0	2
	Indirect Uses-Boiler Fuel	--	1	0	*	2	0	0	--
	Conventional Boiler Use	--	1	0	*	2	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	1,677	0	*	69	*	0	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)	Coal (excluding Coal Coke and Breeze) (million short tons)	
									Other(f) (trillion Btu)	
	Process Heating	--	121	0	*	69	*	0		--
	Process Cooling and Refrigeration	--	26	0	0	*	0	0		--
	Machine Drive	--	1,529	0	*	*	0	0		--
	Electro-Chemical Processes	--	*	--	--	--	--	--		--
	Other Process Use	--	0	0	0	0	0	0		--
	<b>Direct Uses-Total Nonprocess</b>	--	168	*	*	1	*	0		--
	Facility HVAC (g)	--	77	*	0	1	*	0		--
	Facility Lighting	--	73	--	--	--	--	--		--
	Other Facility Support	--	17	*	*	*	0	0		--
	Onsite Transportation	--	Q	--	*	0	*	--		--
	Conventional Electricity Generation	--	--	0	*	*	0	0		--
	Other Nonprocess Use	--	0	0	0	0	*	0		--
	<b>End Use Not Reported</b>	5	*	0	0	2	*	0		2
327993	Mineral Wool									
	<b>TOTAL FUEL CONSUMPTION</b>	51	4,032	0	*	33	*	0		3
	<b>Indirect Uses-Boiler Fuel</b>	--	2	0	*	*	*	0		--
	Conventional Boiler Use	--	2	0	*	*	*	0		--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0		--
	<b>Direct Uses-Total Process</b>	--	3,656	0	*	26	*	0		--
	Process Heating	--	1,481	0	0	26	*	0		--
	Process Cooling and Refrigeration	--	66	0	*	*	0	0		--
	Machine Drive	--	1,540	0	*	*	*	0		--
	Electro-Chemical Processes	--	3	--	--	--	--	--		--
	Other Process Use	--	566	0	*	*	*	0		--
	<b>Direct Uses-Total Nonprocess</b>	--	375	0	*	2	*	0		--
	Facility HVAC (g)	--	139	0	*	2	*	0		--
	Facility Lighting	--	168	--	--	--	--	--		--
	Other Facility Support	--	61	0	0	*	0	0		--
	Onsite Transportation	--	3	--	*	0	*	--		--
	Conventional Electricity Generation	--	--	0	*	0	0	0		--
	Other Nonprocess Use	--	4	0	*	0	*	0		--
	<b>End Use Not Reported</b>	8	0	0	*	5	*	0		3
331	PRIMARY METALS									
	<b>TOTAL FUEL CONSUMPTION</b>	1,745	134,325	3	1	568	1	1		651
	<b>Indirect Uses-Boiler Fuel</b>	--	361	1	*	56	*	*		--
	Conventional Boiler Use	--	361	*	*	29	*	*		--
	CHP and/or Cogeneration Process	--	--	1	0	27	0	*		--
	<b>Direct Uses-Total Process</b>	--	123,291	2	*	465	1	1		--
	Process Heating	--	39,042	2	*	445	*	*		--
	Process Cooling and Refrigeration	--	1,266	0	*	2	*	0		--
	Machine Drive	--	39,235	0	*	7	*	0		--
	Electro-Chemical Processes	--	42,658	--	--	--	--	--		--
	Other Process Use	--	1,090	0	*	10	*	*		--
	<b>Direct Uses-Total Nonprocess</b>	--	10,509	*	1	40	*	*		--
	Facility HVAC (g)	--	4,571	*	*	37	*	0		--
	Facility Lighting	--	4,472	--	--	--	--	--		--
	Other Facility Support	--	1,263	*	*	3	*	0		--
	Onsite Transportation	--	83	--	1	Q	*	--		--
	Conventional Electricity Generation	--	--	0	*	*	*	*		--
	Other Nonprocess Use	--	120	0	*	*	*	0		--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	<b>End Use Not Reported</b>	666	164	1	*	8	*	*	651
<b>33111</b>	<b>Iron and Steel Mills</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	1,147	51,198	3	1	317	*	1	609
	<b>Indirect Uses-Boiler Fuel</b>	--	146	1	*	26	0	*	--
	Conventional Boiler Use	--	146	*	*	13	0	0	--
	CHP and/or Cogeneration Process	--	--	1	0	13	0	*	--
	<b>Direct Uses-Total Process</b>	--	47,403	2	*	277	*	1	--
	Process Heating	--	22,354	2	*	265	*	*	--
	Process Cooling and Refrigeration	--	349	0	0	*	0	0	--
	Machine Drive	--	22,524	0	*	5	*	0	--
	Electro-Chemical Processes	--	1,810	--	--	--	--	--	--
	Other Process Use	--	367	0	*	7	*	*	--
	<b>Direct Uses-Total Nonprocess</b>	--	3,647	0	*	15	*	0	--
	Facility HVAC (g)	--	1,426	0	*	14	*	0	--
	Facility Lighting	--	1,801	--	--	--	--	--	--
	Other Facility Support	--	384	0	0	1	*	0	--
	Onsite Transportation	--	20	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	18	0	*	*	*	0	--
	<b>End Use Not Reported</b>	612	2	1	0	*	*	0	609
<b>33112</b>	<b>Electrometallurgical Ferroalloy Products</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	17	3,111	0	*	1	*	*	3
	<b>Indirect Uses-Boiler Fuel</b>	--	0	0	0	1	0	0	--
	Conventional Boiler Use	--	0	0	0	1	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	3,044	0	0	1	0	0	--
	Process Heating	--	1,788	0	0	*	0	0	--
	Process Cooling and Refrigeration	--	10	0	0	0	0	0	--
	Machine Drive	--	258	0	0	0	0	0	--
	Electro-Chemical Processes	--	924	--	--	--	--	--	--
	Other Process Use	--	64	0	0	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	66	0	*	*	*	0	--
	Facility HVAC (g)	--	34	0	0	*	0	0	--
	Facility Lighting	--	22	--	--	--	--	--	--
	Other Facility Support	--	10	0	0	*	0	0	--
	Onsite Transportation	--	0	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	0	0	*	0	*	0	--
	<b>End Use Not Reported</b>	5	0	0	0	0	0	*	3
<b>3312</b>	<b>Steel Products from Purchased Steel</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	43	4,396	0	*	25	*	*	2
	<b>Indirect Uses-Boiler Fuel</b>	--	15	0	*	3	0	*	--
	Conventional Boiler Use	--	15	0	*	3	0	*	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	3,712	0	*	18	*	0	--
	Process Heating	--	1,054	0	*	17	*	0	--
	Process Cooling and Refrigeration	--	58	0	0	*	0	0	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)	
	Machine Drive	--	2,401	0	*	*	*	0	--	--
	Electro-Chemical Processes	--	131	--	--	--	--	--	--	--
	Other Process Use	--	68	0	*	*	*	0	--	--
	<b>Direct Uses-Total Nonprocess</b>	--	669	0	*	4	*	0	--	--
	Facility HVAC (g)	--	282	0	0	3	*	0	--	--
	Facility Lighting	--	322	--	--	--	--	--	--	--
	Other Facility Support	--	54	0	*	*	*	0	--	--
	Onsite Transportation	--	5	--	*	*	*	--	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	--
	Other Nonprocess Use	--	Q	0	0	*	*	0	--	--
	<b>End Use Not Reported</b>	2	Q	0	0	*	*	0	2	
3313	Alumina and Aluminum									
	<b>TOTAL FUEL CONSUMPTION</b>	273	44,515	*	*	113	*	*	3	
	<b>Indirect Uses-Boiler Fuel</b>	--	21	*	*	18	*	0	--	
	Conventional Boiler Use	--	21	*	*	4	*	0	--	
	CHP and/or Cogeneration Process	--	--	0	0	14	0	0	--	
	<b>Direct Uses-Total Process</b>	--	42,644	*	*	88	*	*	--	
	Process Heating	--	1,829	*	*	84	*	*	--	
	Process Cooling and Refrigeration	--	208	0	0	2	0	0	--	
	Machine Drive	--	5,290	0	*	1	*	0	--	
	Electro-Chemical Processes	--	35,279	--	--	--	--	--	--	
	Other Process Use	--	39	0	*	1	*	0	--	
	<b>Direct Uses-Total Nonprocess</b>	--	1,836	0	*	4	*	0	--	
	Facility HVAC (g)	--	718	0	*	4	*	0	--	
	Facility Lighting	--	760	--	--	--	--	--	--	
	Other Facility Support	--	330	0	*	1	*	0	--	
	Onsite Transportation	--	17	--	*	*	*	--	--	
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	
	Other Nonprocess Use	--	11	0	*	0	*	0	--	
	<b>End Use Not Reported</b>	5	14	0	0	2	*	0	3	
331314	Secondary Smelting and Alloying of Aluminum									
	<b>TOTAL FUEL CONSUMPTION</b>	21	611	*	*	17	*	*	*	
	<b>Indirect Uses-Boiler Fuel</b>	--	1	0	0	*	0	0	--	
	Conventional Boiler Use	--	1	0	0	*	0	0	--	
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--	
	<b>Direct Uses-Total Process</b>	--	492	*	*	17	*	*	--	
	Process Heating	--	131	*	0	16	*	*	--	
	Process Cooling and Refrigeration	--	7	0	0	1	0	0	--	
	Machine Drive	--	340	0	*	*	*	0	--	
	Electro-Chemical Processes	--	*	--	--	--	--	--	--	
	Other Process Use	--	14	0	0	0	0	0	--	
	<b>Direct Uses-Total Nonprocess</b>	--	117	0	*	*	*	0	--	
	Facility HVAC (g)	--	50	0	*	*	*	0	--	
	Facility Lighting	--	53	--	--	--	--	--	--	
	Other Facility Support	--	9	0	0	*	*	0	--	
	Onsite Transportation	--	1	--	*	0	*	--	--	
	Conventional Electricity Generation	--	--	0	0	0	0	0	--	
	Other Nonprocess Use	--	4	0	*	0	*	0	--	
	<b>End Use Not Reported</b>	*	0	0	0	*	*	0	*	

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
331315	Aluminum Sheet, Plate and Foils								
<b>TOTAL FUEL CONSUMPTION</b>									
	Indirect Uses-Boiler Fuel	52	3,871	0	*	36	*	0	2
	Conventional Boiler Use	--	6	0	*	1	0	0	--
	CHP and/or Cogeneration Process	--	6	0	*	1	0	0	--
	Direct Uses-Total Process	--	3,409	0	*	32	*	0	--
	Process Heating	--	802	0	*	31	*	0	--
	Process Cooling and Refrigeration	--	103	0	0	*	0	0	--
	Machine Drive	--	2,501	0	*	*	*	0	--
	Electro-Chemical Processes	--	1	--	--	--	--	--	--
	Other Process Use	--	2	0	*	*	*	0	--
	Direct Uses-Total Nonprocess	--	442	0	*	2	*	0	--
	Facility HVAC (g)	--	179	0	*	1	0	0	--
	Facility Lighting	--	178	--	--	--	--	--	--
	Other Facility Support	--	72	0	*	*	0	0	--
	Onsite Transportation	--	7	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	6	0	*	0	*	0	--
	End Use Not Reported	3	14	0	0	1	0	0	2
331316	Aluminum Extruded Products								
<b>TOTAL FUEL CONSUMPTION</b>									
	Indirect Uses-Boiler Fuel	25	1,994	*	*	17	*	0	*
	Conventional Boiler Use	--	6	*	0	1	*	0	--
	CHP and/or Cogeneration Process	--	6	*	0	1	*	0	--
	Direct Uses-Total Process	--	1,615	0	*	15	*	0	--
	Process Heating	--	383	0	*	14	*	0	--
	Process Cooling and Refrigeration	--	79	0	0	*	0	0	--
	Machine Drive	--	1,058	0	*	*	*	0	--
	Electro-Chemical Processes	--	71	--	--	--	--	--	--
	Other Process Use	--	23	0	0	*	*	0	--
	Direct Uses-Total Nonprocess	--	374	0	*	1	*	0	--
	Facility HVAC (g)	--	131	0	*	1	*	0	--
	Facility Lighting	--	198	--	--	--	--	--	--
	Other Facility Support	--	39	0	0	*	*	0	--
	Onsite Transportation	--	5	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	*	0	*	0	*	0	--
	End Use Not Reported	*	0	0	0	*	*	0	*
3314	Nonferrous Metals, except Aluminum								
<b>TOTAL FUEL CONSUMPTION</b>									
	Indirect Uses-Boiler Fuel	107	14,323	*	*	42	*	*	9
	Conventional Boiler Use	--	146	*	*	5	*	*	--
	CHP and/or Cogeneration Process	--	146	*	*	5	*	0	--
	Direct Uses-Total Process	--	12,775	0	0	*	0	*	--
	Process Heating	--	4,491	*	*	29	*	*	--
	Process Cooling and Refrigeration	--	302	0	*	*	*	0	--
	Machine Drive	--	3,694	0	*	*	*	0	--
	Electro-Chemical Processes	--	4,062	--	--	--	--	--	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

### **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)
	Other Process Use	--	227	0	*	1	*	*	0
	<b>Direct Uses-Total Nonprocess</b>		<b>1,388</b>	*	*	3	*	*	--
	Facility HVAC (g)	--	609	*	*	3	*	*	0
	Facility Lighting	--	546	--	--	--	--	--	--
	Other Facility Support	--	193	0	0	*	*	*	0
	Onsite Transportation	--	21	--	*	0	*	*	--
	Conventional Electricity Generation	--	--	0	*	*	*	*	--
	Other Nonprocess Use	--	19	0	*	*	*	*	0
	<b>End Use Not Reported</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>*</b>	<b>*</b>	<b>9</b>
3315	<b>Foundries</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>158</b>	<b>16,781</b>	*	*	<b>70</b>	*	*	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>		<b>34</b>	<b>0</b>	<b>*</b>	<b>3</b>	<b>*</b>	<b>0</b>	<b>--</b>
	Conventional Boiler Use	--	34	0	*	3	*	*	0
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>		<b>13,714</b>	*	*	<b>51</b>	*	*	<b>0</b>
	Process Heating	--	7,526	*	*	49	*	*	0
	Process Cooling and Refrigeration	--	340	0	*	*	0	0	--
	Machine Drive	--	5,070	0	*	1	*	*	0
	Electro-Chemical Processes	--	453	--	--	--	--	--	--
	Other Process Use	--	325	0	*	1	*	*	0
	<b>Direct Uses-Total Nonprocess</b>		<b>2,902</b>	*	*	<b>14</b>	*	*	<b>0</b>
	Facility HVAC (g)	--	1,502	*	*	13	*	*	0
	Facility Lighting	--	1,020	--	--	--	--	--	--
	Other Facility Support	--	292	*	*	1	*	*	0
	Onsite Transportation	--	20	--	*	*	*	*	--
	Conventional Electricity Generation	--	--	0	*	*	*	*	0
	Other Nonprocess Use	--	67	0	*	*	*	*	0
	<b>End Use Not Reported</b>	<b>30</b>	<b>132</b>	<b>0</b>	<b>*</b>	<b>3</b>	<b>*</b>	<b>*</b>	<b>0</b>
331511	<b>Iron Foundries</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>80</b>	<b>8,563</b>	*	*	<b>23</b>	*	*	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>*</b>	<b>0</b>	<b>--</b>
	Conventional Boiler Use	--	2	0	0	1	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>		<b>6,996</b>	*	*	<b>14</b>	*	*	<b>0</b>
	Process Heating	--	3,973	*	*	13	*	*	0
	Process Cooling and Refrigeration	--	109	0	0	*	0	0	--
	Machine Drive	--	2,364	0	*	*	*	*	0
	Electro-Chemical Processes	--	367	--	--	--	--	--	--
	Other Process Use	--	183	0	*	1	*	*	0
	<b>Direct Uses-Total Nonprocess</b>		<b>1,566</b>	<b>0</b>	<b>*</b>	<b>7</b>	<b>*</b>	<b>0</b>	<b>--</b>
	Facility HVAC (g)	--	851	0	*	7	*	*	0
	Facility Lighting	--	484	--	--	--	--	--	--
	Other Facility Support	--	155	0	*	*	*	*	0
	Onsite Transportation	--	11	--	*	*	*	*	--
	Conventional Electricity Generation	--	--	0	*	*	0	*	0
	Other Nonprocess Use	--	65	0	*	*	*	*	0
	<b>End Use Not Reported</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>

## 331521 Aluminum Die-Casting Foundries

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	<b>TOTAL FUEL CONSUMPTION</b>	22	1,937	0	*	15	*	0	*
	<b>Indirect Uses-Boiler Fuel</b>	--	7	0	*	1	*	0	--
	Conventional Boiler Use	--	7	0	*	1	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	1,465	0	*	11	*	0	--
	Process Heating	--	548	0	*	11	*	0	--
	Process Cooling and Refrigeration	--	71	0	0	*	0	0	--
	Machine Drive	--	844	0	*	*	*	0	--
	Electro-Chemical Processes	--	1	--	--	--	--	--	--
	Other Process Use	--	1	0	0	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	466	0	*	2	*	0	--
	Facility HVAC (g)	--	237	0	0	2	*	0	--
	Facility Lighting	--	193	--	--	--	--	--	--
	Other Facility Support	--	29	0	0	*	*	0	--
	Onsite Transportation	--	6	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	1	0	*	*	*	0	--
	<b>End Use Not Reported</b>	1	0	0	0	1	*	0	*
331524	Aluminum Foundries, except Die-Casting								
	<b>TOTAL FUEL CONSUMPTION</b>	17	1,134	*	*	13	*	0	*
	<b>Indirect Uses-Boiler Fuel</b>	--	9	0	0	*	0	0	--
	Conventional Boiler Use	--	9	0	0	*	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	869	*	*	11	*	0	--
	Process Heating	--	348	*	*	10	*	0	--
	Process Cooling and Refrigeration	--	20	0	0	*	0	0	--
	Machine Drive	--	478	0	0	*	*	0	--
	Electro-Chemical Processes	--	1	--	--	--	--	--	--
	Other Process Use	--	22	0	*	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	245	*	*	2	*	0	--
	Facility HVAC (g)	--	107	*	*	1	*	0	--
	Facility Lighting	--	89	--	--	--	--	--	--
	Other Facility Support	--	46	*	*	*	*	0	--
	Onsite Transportation	--	3	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	*	0	0	0	*	0	--
	<b>End Use Not Reported</b>	1	13	0	0	*	*	0	*
332	FABRICATED METAL PRODUCTS								
	<b>TOTAL FUEL CONSUMPTION</b>	397	41,965	*	*	234	1	0	Q
	<b>Indirect Uses-Boiler Fuel</b>	--	161	*	*	36	0	0	--
	Conventional Boiler Use	--	161	*	*	34	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	Q	0	0	--
	<b>Direct Uses-Total Process</b>	--	32,249	0	*	154	*	0	--
	Process Heating	--	8,271	0	*	150	*	0	--
	Process Cooling and Refrigeration	--	1,476	0	0	Q	0	0	--
	Machine Drive	--	20,510	0	*	1	*	0	--
	Electro-Chemical Processes	--	771	--	--	--	--	--	--
	Other Process Use	--	1,221	0	*	Q	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	9,124	*	*	37	1	0	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)	
	Facility HVAC (g)	--	4,222	*	*	34	*	0	--	
	Facility Lighting	--	3,953	--	--	--	--	--	--	
	Other Facility Support	--	818	0	*	2	*	0	--	
	Onsite Transportation	--	97	--	*	*	1	--	--	
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	
	Other Nonprocess Use	--	Q	0	*	*	*	0	--	
	<b>End Use Not Reported</b>	<b>15</b>	<b>432</b>	<b>0</b>	<b>*</b>	<b>Q</b>	<b>*</b>	<b>0</b>	<b>Q</b>	
<b>333</b>	<b>MACHINERY</b>									
	<b>TOTAL FUEL CONSUMPTION</b>	<b>204</b>	<b>32,394</b>	*	*	82	1	*	2	
	<b>Indirect Uses-Boiler Fuel</b>	--	Q	*	*	20	0	*	--	
	Conventional Boiler Use	--	Q	*	*	16	0	0	--	
	CHP and/or Cogeneration Process	--	--	0	0	Q	0	*	--	
	<b>Direct Uses-Total Process</b>	<b>--</b>	<b>18,426</b>	<b>0</b>	<b>*</b>	<b>28</b>	<b>*</b>	<b>0</b>	<b>--</b>	
	Process Heating	--	2,198	0	*	24	*	0	--	
	Process Cooling and Refrigeration	--	900	0	*	*	0	0	--	
	Machine Drive	--	14,515	0	*	*	*	0	--	
	Electro-Chemical Processes	--	140	--	--	--	--	--	--	
	Other Process Use	--	673	0	*	Q	*	0	--	
	<b>Direct Uses-Total Nonprocess</b>	<b>--</b>	<b>13,207</b>	<b>0</b>	<b>*</b>	<b>32</b>	<b>1</b>	<b>0</b>	<b>--</b>	
	Facility HVAC (g)	--	7,196	0	*	30	*	0	--	
	Facility Lighting	--	4,659	--	--	--	--	--	--	
	Other Facility Support	--	962	0	*	Q	*	0	--	
	Onsite Transportation	--	227	--	*	*	*	--	--	
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	
	Other Nonprocess Use	--	Q	0	*	*	*	0	--	
	<b>End Use Not Reported</b>	<b>6</b>	<b>Q</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>*</b>	<b>0</b>	<b>2</b>	
<b>334</b>	<b>COMPUTER AND ELECTRONIC PRODUCTS</b>									
	<b>TOTAL FUEL CONSUMPTION</b>	<b>141</b>	<b>27,509</b>	*	*	44	*	0	1	
	<b>Indirect Uses-Boiler Fuel</b>	--	240	*	*	19	*	0	--	
	Conventional Boiler Use	--	240	*	*	19	*	0	--	
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--	
	<b>Direct Uses-Total Process</b>	<b>--</b>	<b>14,077</b>	<b>0</b>	<b>*</b>	<b>4</b>	<b>*</b>	<b>0</b>	<b>--</b>	
	Process Heating	--	2,992	0	*	3	*	0	--	
	Process Cooling and Refrigeration	--	2,910	0	*	*	0	0	--	
	Machine Drive	--	5,682	0	*	*	*	0	--	
	Electro-Chemical Processes	--	399	--	--	--	--	--	--	
	Other Process Use	--	2,093	0	*	1	0	0	--	
	<b>Direct Uses-Total Nonprocess</b>	<b>--</b>	<b>13,110</b>	<b>*</b>	<b>*</b>	<b>17</b>	<b>*</b>	<b>0</b>	<b>--</b>	
	Facility HVAC (g)	--	7,751	*	*	16	*	0	--	
	Facility Lighting	--	3,199	--	--	--	--	--	--	
	Other Facility Support	--	1,663	0	*	*	*	0	--	
	Onsite Transportation	--	12	--	*	0	*	--	--	
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	
	Other Nonprocess Use	--	486	0	*	1	*	0	--	
	<b>End Use Not Reported</b>	<b>Q</b>	<b>Q</b>	<b>0</b>	<b>*</b>	<b>Q</b>	<b>*</b>	<b>0</b>	<b>1</b>	
<b>334413</b>	<b>Semiconductors and Related Devices</b>									
	<b>TOTAL FUEL CONSUMPTION</b>	<b>63</b>	<b>12,747</b>	*	*	18	*	0	1	

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	<b>Indirect Uses-Boiler Fuel</b>	--	50	0	*	9	0	0	--
	Conventional Boiler Use	--	50	0	*	9	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>	--	8,152	0	*	2	*	0	--
	Process Heating	--	1,780	0	*	1	*	0	--
	Process Cooling and Refrigeration	--	1,740	0	*	*	0	0	--
	Machine Drive	--	2,662	0	0	*	0	0	--
	Electro-Chemical Processes	--	357	--	--	--	--	--	--
	Other Process Use	--	1,613	0	*	1	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	4,544	*	*	7	*	0	--
	Facility HVAC (g)	--	3,077	*	*	7	*	0	--
	Facility Lighting	--	784	--	--	--	--	--	--
	Other Facility Support	--	620	0	0	*	*	0	--
	Onsite Transportation	--	2	--	0	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	62	0	*	*	*	0	--
	<b>End Use Not Reported</b>	1	0	0	*	*	*	0	1

**335 ELEC. EQUIP., APPLIANCES, COMPONENTS**

	<b>TOTAL FUEL CONSUMPTION</b>	87	12,867	0	*	40	*	0	Q
	<b>Indirect Uses-Boiler Fuel</b>	--	33	0	0	7	0	0	--
	Conventional Boiler Use	--	33	0	0	7	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	8,816	0	*	24	*	0	--
	Process Heating	--	2,882	0	*	22	*	0	--
	Process Cooling and Refrigeration	--	585	0	*	Q	0	0	--
	Machine Drive	--	4,709	0	*	0	*	0	--
	Electro-Chemical Processes	--	Q	--	--	--	--	--	--
	Other Process Use	--	410	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	3,845	0	*	8	*	0	--
	Facility HVAC (g)	--	1,855	0	*	8	*	0	--
	Facility Lighting	--	1,477	--	--	--	--	--	--
	Other Facility Support	--	450	0	*	*	0	0	--
	Onsite Transportation	--	16	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	Q	0	*	0	*	0	--
	<b>End Use Not Reported</b>	2	Q	0	*	*	*	0	Q

**336 TRANSPORTATION EQUIPMENT**

	<b>TOTAL FUEL CONSUMPTION</b>	479	57,169	1	*	242	1	*	17
	<b>Indirect Uses-Boiler Fuel</b>	--	563	1	*	40	*	*	--
	Conventional Boiler Use	--	563	1	*	36	*	*	--
	CHP and/or Cogeneration Process	--	--	*	*	4	0	*	--
	<b>Direct Uses-Total Process</b>	--	34,316	*	*	111	*	0	--
	Process Heating	--	7,700	*	*	73	*	0	--
	Process Cooling and Refrigeration	--	3,601	*	0	2	*	0	--
	Machine Drive	--	21,086	*	*	3	*	0	--
	Electro-Chemical Processes	--	494	--	--	--	--	--	--
	Other Process Use	--	1,435	0	*	Q	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	21,993	*	*	87	1	0	--
	Facility HVAC (g)	--	10,909	*	*	83	*	0	--
	Facility Lighting	--	8,311	--	--	--	--	--	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	Other Facility Support	--	2,083	*	*	0	*	0	--
	Onsite Transportation	--	387	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	*	0	--
	Other Nonprocess Use	--	302	*	*	*	*	0	--
	<b>End Use Not Reported</b>	<b>22</b>	<b>297</b>	<b>0</b>	<b>*</b>	<b>4</b>	<b>*</b>	<b>*</b>	<b>17</b>
<b>336111</b>	<b>Automobiles</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>39</b>	<b>3,885</b>	<b>*</b>	<b>*</b>	<b>21</b>	<b>*</b>	<b>*</b>	<b>2</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>--</b>	<b>70</b>	<b>*</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>*</b>	<b>--</b>
	Conventional Boiler Use	--	70	*	0	3	0	*	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>	<b>--</b>	<b>2,064</b>	<b>0</b>	<b>*</b>	<b>12</b>	<b>*</b>	<b>0</b>	<b>--</b>
	Process Heating	--	267	0	0	11	*	0	--
	Process Cooling and Refrigeration	--	160	0	0	1	0	0	--
	Machine Drive	--	1,415	0	*	*	*	0	--
	Electro-Chemical Processes	--	65	--	--	--	--	--	--
	Other Process Use	--	157	0	*	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	<b>--</b>	<b>1,657</b>	<b>0</b>	<b>*</b>	<b>5</b>	<b>*</b>	<b>0</b>	<b>--</b>
	Facility HVAC (g)	--	937	0	*	5	*	0	--
	Facility Lighting	--	584	--	--	--	--	--	--
	Other Facility Support	--	109	0	*	*	0	0	--
	Onsite Transportation	--	25	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	1	0	*	0	*	0	--
	<b>End Use Not Reported</b>	<b>3</b>	<b>94</b>	<b>0</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>*</b>	<b>2</b>
<b>336112</b>	<b>Light Trucks and Utility Vehicles</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>43</b>	<b>4,516</b>	<b>*</b>	<b>*</b>	<b>24</b>	<b>*</b>	<b>*</b>	<b>1</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>--</b>	<b>43</b>	<b>*</b>	<b>*</b>	<b>6</b>	<b>*</b>	<b>*</b>	<b>--</b>
	Conventional Boiler Use	--	43	*	*	6	*	*	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	<b>--</b>	<b>2,785</b>	<b>0</b>	<b>*</b>	<b>11</b>	<b>*</b>	<b>0</b>	<b>--</b>
	Process Heating	--	125	0	0	10	*	0	--
	Process Cooling and Refrigeration	--	363	0	0	*	*	0	--
	Machine Drive	--	1,925	0	*	*	*	0	--
	Electro-Chemical Processes	--	83	--	--	--	--	--	--
	Other Process Use	--	289	0	*	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	<b>--</b>	<b>1,687</b>	<b>0</b>	<b>*</b>	<b>7</b>	<b>*</b>	<b>0</b>	<b>--</b>
	Facility HVAC (g)	--	811	0	*	6	*	0	--
	Facility Lighting	--	637	--	--	--	--	--	--
	Other Facility Support	--	159	0	*	*	0	0	--
	Onsite Transportation	--	73	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	7	0	*	0	*	0	--
	<b>End Use Not Reported</b>	<b>1</b>	<b>*</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>	<b>1</b>
<b>3364</b>	<b>Aerospace Products</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>77</b>	<b>11,430</b>	<b>*</b>	<b>*</b>	<b>30</b>	<b>*</b>	<b>*</b>	<b>3</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>--</b>	<b>183</b>	<b>*</b>	<b>*</b>	<b>14</b>	<b>*</b>	<b>*</b>	<b>--</b>
	Conventional Boiler Use	--	183	*	*	10	*	*	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	CHP and/or Cogeneration Process	--	--	*	*	4	0	0	--
	<b>Direct Uses-Total Process</b>		5,184	*	*	6	*	0	--
	Process Heating	--	1,467	*	*	4	*	0	--
	Process Cooling and Refrigeration	--	886	*	0	*	*	0	--
	Machine Drive	--	2,529	*	*	Q	*	0	--
	Electro-Chemical Processes	--	112	--	--	--	--	--	--
	Other Process Use	--	189	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>		5,978	*	*	7	*	0	--
	Facility HVAC (g)	--	3,175	*	*	7	*	0	--
	Facility Lighting	--	2,122	--	--	--	--	--	--
	Other Facility Support	--	609	*	*	*	*	0	--
	Onsite Transportation	--	65	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	*	0	--
	Other Nonprocess Use	--	7	0	*	*	*	0	--
	<b>End Use Not Reported</b>	5	86	0	*	2	*	0	3

**336411 Aircraft**

<b>TOTAL FUEL CONSUMPTION</b>	20	3,400	*	*	8	*	0	*	
<b>Indirect Uses-Boiler Fuel</b>	--	16	*	*	5	*	0	--	
Conventional Boiler Use	--	16	*	*	5	*	0	--	
CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--	
<b>Direct Uses-Total Process</b>	--	1,372	0	*	2	*	0	--	
Process Heating	--	266	0	*	1	*	0	--	
Process Cooling and Refrigeration	--	335	0	0	*	0	0	--	
Machine Drive	--	671	0	*	*	*	0	--	
Electro-Chemical Processes	--	16	--	--	--	--	--	--	
Other Process Use	--	84	0	0	0	0	0	--	
<b>Direct Uses-Total Nonprocess</b>	--	2,004	0	*	2	*	0	--	
Facility HVAC (g)	--	992	0	*	2	*	0	--	
Facility Lighting	--	783	--	--	--	--	--	--	
Other Facility Support	--	183	0	0	*	0	0	--	
Onsite Transportation	--	39	--	*	*	*	--	--	
Conventional Electricity Generation	--	--	0	*	0	0	0	--	
Other Nonprocess Use	--	7	0	*	0	*	0	--	
<b>End Use Not Reported</b>	*	9	0	*	0	*	0	*	

**337 FURNITURE AND RELATED PRODUCTS**

<b>TOTAL FUEL CONSUMPTION</b>	60	9,264	*	*	16	*	*	*	7
<b>Indirect Uses-Boiler Fuel</b>	--	126	*	*	1	*	*	*	--
Conventional Boiler Use	--	126	*	*	1	*	*	*	--
CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--	
<b>Direct Uses-Total Process</b>	--	4,455	0	*	7	*	0	--	
Process Heating	--	592	0	*	7	*	0	--	
Process Cooling and Refrigeration	--	132	0	0	*	0	0	--	
Machine Drive	--	3,686	0	*	*	*	0	--	
Electro-Chemical Processes	--	Q	--	--	--	--	--	--	
Other Process Use	--	Q	0	*	0	*	0	--	
<b>Direct Uses-Total Nonprocess</b>	--	2,954	*	*	7	*	*	*	--
Facility HVAC (g)	--	1,211	*	*	7	*	*	*	--
Facility Lighting	--	1,284	--	--	--	--	--	--	--
Other Facility Support	--	400	0	0	*	0	0	--	--
Onsite Transportation	--	34	--	*	*	*	--	--	--

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	Q	0	*	0	*	0	--
	<b>End Use Not Reported</b>	15	Q	0	0	Q	*	*	7
<b>339</b>	<b>MISCELLANEOUS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	66	9,677	*	*	24	*	0	Q
	Indirect Uses-Boller Fuel	--	226	*	0	4	*	0	--
	Conventional Boiler Use	--	226	*	0	4	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	4,880	*	*	6	*	0	--
	Process Heating	--	983	*	*	5	*	0	--
	Process Cooling and Refrigeration	--	574	0	0	*	0	0	--
	Machine Drive	--	3,175	0	*	*	*	0	--
	Electro-Chemical Processes	--	Q	--	--	--	--	--	--
	Other Process Use	--	83	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	4,506	*	*	13	*	0	--
	Facility HVAC (g)	--	2,388	*	*	12	*	0	--
	Facility Lighting	--	1,617	--	--	--	--	--	--
	Other Facility Support	--	484	0	0	1	*	0	--
	Onsite Transportation	--	17	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	0	0	*	*	*	0	--
	<b>End Use Not Reported</b>	Q	64	0	*	Q	*	0	Q

(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.

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

NF=Not 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

**Table 5.1 End Uses of Fuel Consumption, 2006:**

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)
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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, '2006 Manufacturing Energy Consumption Survey.'

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)
<b>Total United States</b>									
<b>311 - 339 ALL MANUFACTURING INDUSTRIES</b>									
	<b>TOTAL FUEL CONSUMPTION</b>	15,658	2,850	251	129	5,512	79	1,016	5,820
	<b>Indirect Uses-Boiler Fuel</b>	--	41	133	23	2,119	8	547	--
	Conventional Boiler Use	--	41	71	17	1,281	8	129	--
	CHP and/or Cogeneration Process	--	--	62	6	838	1	417	--
	<b>Direct Uses-Total Process</b>	--	2,244	62	52	2,788	39	412	--
	Process Heating	--	346	59	19	2,487	32	345	--
	Process Cooling and Refrigeration	--	206	*	1	32	*	*	--
	Machine Drive	--	1,441	2	24	129	2	56	--
	Electro-Chemical Processes	--	206	--	--	--	--	--	--
	Other Process Use	--	45	Q	8	140	5	10	--
	<b>Direct Uses-Total Nonprocess</b>	--	539	6	50	438	27	6	--
	Facility HVAC (g)	--	265	4	4	378	5	2	--
	Facility Lighting	--	198	--	--	--	--	--	--
	Other Facility Support	--	60	1	*	30	*	*	--
	Onsite Transportation	--	7	--	35	3	20	--	--
	Conventional Electricity Generation	--	--	*	4	19	*	3	--
	Other Nonprocess Use	--	8	*	6	8	1	*	--
	<b>End Use Not Reported</b>	6,125	26	49	4	168	5	52	5,820
<b>311</b>	<b>FOOD</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	1,186	251	26	16	635	3	147	108
	<b>Indirect Uses-Boiler Fuel</b>	--	6	24	4	354	1	129	--
	Conventional Boiler Use	--	6	16	3	328	1	25	--
	CHP and/or Cogeneration Process	--	--	8	1	26	*	104	--
	<b>Direct Uses-Total Process</b>	--	195	1	5	231	1	11	--
	Process Heating	--	16	1	1	209	*	11	--
	Process Cooling and Refrigeration	--	67	*	1	2	0	0	--
	Machine Drive	--	110	*	3	11	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	2	*	1	10	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	46	*	6	40	2	*	--
	Facility HVAC (g)	--	21	*	*	30	1	*	--
	Facility Lighting	--	18	--	--	--	--	--	--
	Other Facility Support	--	6	*	*	9	*	0	--
	Onsite Transportation	--	1	--	2	*	1	--	--
	Conventional Electricity Generation	--	--	0	2	*	*	0	--
	Other Nonprocess Use	--	1	0	Q	1	*	0	--
	<b>End Use Not Reported</b>	129	3	*	*	10	*	7	108
<b>3112</b>	<b>Grain and Oilseed Milling</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	317	53	2	1	118	*	114	30
	<b>Indirect Uses-Boiler Fuel</b>	--	1	2	*	64	*	100	--
	Conventional Boiler Use	--	1	2	*	56	*	21	--
	CHP and/or Cogeneration Process	--	--	0	*	9	0	79	--
	<b>Direct Uses-Total Process</b>	--	46	0	*	49	*	8	--
	Process Heating	--	1	0	*	45	*	8	--
	Process Cooling and Refrigeration	--	5	0	0	0	0	0	--
	Machine Drive	--	39	0	*	2	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	*	1	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	5	0	1	4	*	*	--
	Facility HVAC (g)	--	2	0	*	3	*	*	--
	Facility Lighting	--	2	--	--	--	--	--	--
	Other Facility Support	--	*	0	*	*	*	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)
	Onsite Transportation	--	*	--	1	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	38	1	0	*	1	*	6	30
<b>311221</b>	<b>Wet Corn Milling</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	179	23	*	*	52	*	95	9
	<b>Indirect Uses-Boiler Fuel</b>	--	1	*	*	24	*	82	--
	Conventional Boiler Use	--	1	*	0	17	*	16	--
	CHP and/or Cogeneration Process	--	--	0	*	7	0	66	--
	<b>Direct Uses-Total Process</b>	--	20	0	*	28	*	7	--
	Process Heating	--	*	0	*	28	*	7	--
	Process Cooling and Refrigeration	--	3	0	0	0	0	0	--
	Machine Drive	--	17	0	*	0	*	0	--
	Electro-Chemical Processes	--	0	--	--	--	--	--	--
	Other Process Use	--	*	0	*	0	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1	0	*	1	*	0	--
	Facility HVAC (g)	--	1	0	0	1	*	0	--
	Facility Lighting	--	1	--	--	--	--	--	--
	Other Facility Support	--	*	0	*	*	0	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	0	0	*	0	0	0	--
	<b>End Use Not Reported</b>	16	1	0	0	0	*	6	9
<b>31131</b>	<b>Sugar</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	82	3	9	1	18	*	31	20
	<b>Indirect Uses-Boiler Fuel</b>	--	*	8	1	13	*	28	--
	Conventional Boiler Use	--	*	0	*	2	0	3	--
	CHP and/or Cogeneration Process	--	--	8	1	10	*	26	--
	<b>Direct Uses-Total Process</b>	--	3	*	*	4	*	3	--
	Process Heating	--	*	0	*	4	0	3	--
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
	Machine Drive	--	3	0	*	*	0	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	0	0	0	0	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1	0	*	1	*	*	--
	Facility HVAC (g)	--	*	0	0	*	*	*	--
	Facility Lighting	--	*	--	--	--	--	--	--
	Other Facility Support	--	*	0	0	*	*	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	20	0	0	0	0	*	0	20
<b>3114</b>	<b>Fruit and Vegetable Preserving and Specialty Foods</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	169	33	2	1	126	1	1	4
	<b>Indirect Uses-Boiler Fuel</b>	--	1	2	Q	91	*	1	--
	Conventional Boiler Use	--	1	2	Q	87	*	1	--
	CHP and/or Cogeneration Process	--	--	0	0	4	0	0	--
	<b>Direct Uses-Total Process</b>	--	26	*	*	27	*	0	--
	Process Heating	--	3	*	*	26	*	0	--
	Process Cooling and Refrigeration	--	12	0	*	*	0	0	--
	Machine Drive	--	11	0	*	1	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	*	0	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	6	*	*	8	1	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)				
	Facility HVAC (g)	--	2	*	*	6	*	0	--
	Facility Lighting	--	2	--	--	--	--	--	--
	Other Facility Support	--	1	0	*	2	*	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	*	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	<b>4</b>	*	0	*	*	0	0	<b>4</b>
<b>3115</b>	<b>Dairy Products</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>121</b>	<b>34</b>	<b>1</b>	<b>1</b>	<b>83</b>	*	*	<b>1</b>
	<b>Indirect Uses-Boiler Fuel</b>								
	Conventional Boiler Use	--	1	Q	1	37	*	0	--
	CHP and/or Cogeneration Process	--	1	Q	1	36	*	0	--
	<b>Direct Uses-Total Process</b>								
	Process Heating	--	27	*	Q	38	*	0	--
	Process Cooling and Refrigeration	--	2	*	*	31	*	0	--
	Machine Drive	--	11	0	*	2	*	0	--
	Electro-Chemical Processes	--	14	0	*		*	0	--
	Other Process Use	--	*	--	--	--	--	--	--
	<b>Direct Uses-Total Nonprocess</b>								
	Facility HVAC (g)	--	7	*	*	5	*	0	--
	Facility Lighting	--	3	--	--	--	--	--	--
	Other Facility Support	--	3	*	*	1	*	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	<b>4</b>	*	0	*	2	*	*	<b>1</b>
<b>3116</b>	<b>Animal Slaughtering and Processing</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>227</b>	<b>60</b>	<b>3</b>	<b>5</b>	<b>145</b>	<b>1</b>	<b>0</b>	<b>13</b>
	<b>Indirect Uses-Boiler Fuel</b>								
	Conventional Boiler Use	--	1	3	1	98	*	0	--
	CHP and/or Cogeneration Process	--	1	3	1	98	*	0	--
	<b>Direct Uses-Total Process</b>								
	Process Heating	--	48	Q	1	36	*	0	--
	Process Cooling and Refrigeration	--	3	*	*	29	*	0	--
	Machine Drive	--	25	*	*	1	0	0	--
	Electro-Chemical Processes	--	18	*	*	3	*	0	--
	Other Process Use	--	*	--	--	--	--	--	--
	<b>Direct Uses-Total Nonprocess</b>								
	Facility HVAC (g)	--	10	*	2	11	*	0	--
	Facility Lighting	--	4	*	*	8	*	0	--
	Other Facility Support	--	4	--	--	--	--	--	--
	Onsite Transportation	--	1	*	*	3	*	0	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	<b>14</b>	*	*	*	*	*	0	<b>13</b>
<b>312</b>	<b>BEVERAGE AND TOBACCO PRODUCTS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>109</b>	<b>30</b>	<b>3</b>	<b>1</b>	<b>41</b>	<b>1</b>	<b>20</b>	<b>13</b>
	<b>Indirect Uses-Boiler Fuel</b>								
	Conventional Boiler Use	--	*	2	*	30	*	18	--
	CHP and/or Cogeneration Process	--	*	2	*	27	*	3	--
	<b>Direct Uses-Total Process</b>								
	Process Heating	--	--	0	*	3	0	15	--
	Process Cooling and Refrigeration	--	21	*	*	7	*	2	--
	Machine Drive	--	1	*	0	4	*	0	--
			8	0	0	*	0	0	--
			12	0	*	1	*	1	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	1	0	*	2	*	1	--
	<b>Direct Uses-Total Nonprocess</b>	--	9	*	*	4	*	*	--
	Facility HVAC (g)	--	4	*	*	4	*	*	--
	Facility Lighting	--	3	--	--	--	--	--	--
	Other Facility Support	--	1	0	*	*	*	*	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	*	0	--
	Other Nonprocess Use	--	*	0	*	*	*	*	--
	<b>End Use Not Reported</b>	13	*	0	*	*	*	0	13
3121	<b>Beverages</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	97	26	2	1	38	1	16	13
	<b>Indirect Uses-Boiler Fuel</b>	--	*	2	*	28	*	14	--
	Conventional Boiler Use	--	*	2	*	25	*	Q	--
	CHP and/or Cogeneration Process	--	--	0	*	3	0	13	--
	<b>Direct Uses-Total Process</b>	--	19	0	*	6	*	2	--
	Process Heating	--	1	0	0	4	*	0	--
	Process Cooling and Refrigeration	--	8	0	0	*	0	0	--
	Machine Drive	--	10	0	*	1	*	1	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	1	0	*	2	*	1	--
	<b>Direct Uses-Total Nonprocess</b>	--	6	0	*	4	*	*	--
	Facility HVAC (g)	--	2	0	*	4	*	*	--
	Facility Lighting	--	3	--	--	--	--	--	--
	Other Facility Support	--	1	0	*	*	*	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	*	0	*	*	*	*	--
	<b>End Use Not Reported</b>	13	*	0	*	*	*	0	13
3122	<b>Tobacco</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	12	4	1	*	3	*	4	*
	<b>Indirect Uses-Boiler Fuel</b>	--	*	1	*	2	*	4	--
	Conventional Boiler Use	--	*	1	*	2	*	2	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	2	--
	<b>Direct Uses-Total Process</b>	--	2	*	*	*	*	0	--
	Process Heating	--	*	*	0	*	0	0	--
	Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
	Machine Drive	--	2	0	*	*	*	0	--
	Electro-Chemical Processes	--	0	--	--	--	--	--	--
	Other Process Use	--	*	0	0	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	2	*	*	*	*	*	--
	Facility HVAC (g)	--	2	*	*	*	*	*	--
	Facility Lighting	--	1	--	--	--	--	*	--
	Other Facility Support	--	*	0	0	*	*	--	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	*	0	--
	Other Nonprocess Use	--	0	0	*	*	*	0	--
	<b>End Use Not Reported</b>	*	0	0	0	0	*	0	*
313	<b>TEXTILE MILLS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	178	66	2	*	65	*	32	12
	<b>Indirect Uses-Boiler Fuel</b>	--	1	*	*	34	*	32	--
	Conventional Boiler Use	--	1	*	*	34	*	17	--
	CHP and/or Cogeneration Process	--	--	0	*	*	0	Q	--
	<b>Direct Uses-Total Process</b>	--	51	2	*	23	*	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)
	Process Heating	--	7	Q	0	21	*	0	--
	Process Cooling and Refrigeration	--	9	*	0	0	0	0	--
	Machine Drive	--	35	*	*	Q	*	0	--
	Electro-Chemical Processes	--	0	--	--	--	--	--	--
	Other Process Use	--	Q	*	0	Q	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	14	*	*	8	*	0	--
	Facility HVAC (g)	--	7	*	*	7	*	0	--
	Facility Lighting	--	5	--	--	--	--	--	--
	Other Facility Support	--	1	*	*	*	0	0	--
	Onsite Transportation	--	*	--	*	Q	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	*	0	*	0	0	0	--
	<b>End Use Not Reported</b>	12	0	0	0	*	*	0	12
<b>314</b>	<b>TEXTILE PRODUCT MILLS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	72	20	Q	*	46	1	3	*
	<b>Indirect Uses-Boiler Fuel</b>	--	*	Q	*	16	*	Q	--
	Conventional Boiler Use	--	*	Q	*	16	*	Q	--
	CHP and/or Cogeneration Process	--	--	0	*	*	0	0	--
	<b>Direct Uses-Total Process</b>	--	13	0	0	Q	*	Q	--
	Process Heating	--	2	0	0	Q	*	Q	--
	Process Cooling and Refrigeration	--	2	0	0	Q	0	0	--
	Machine Drive	--	9	0	0	*	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	1	0	0	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	6	0	0	3	*	*	--
	Facility HVAC (g)	--	3	0	*	3	*	*	--
	Facility Lighting	--	2	--	--	--	--	--	--
	Other Facility Support	--	1	0	0	*	0	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	Q	*	0	0	Q	*	*	*
<b>315</b>	<b>APPAREL</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	14	7	*	*	7	*	0	*
	<b>Indirect Uses-Boiler Fuel</b>	--	*	*	*	4	*	0	--
	Conventional Boiler Use	--	*	*	*	4	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	3	0	0	2	*	0	--
	Process Heating	--	*	0	0	Q	*	0	--
	Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
	Machine Drive	--	2	0	0	Q	0	0	--
	Electro-Chemical Processes	--	0	--	--	--	--	--	--
	Other Process Use	--	*	0	0	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	4	0	*	1	*	0	--
	Facility HVAC (g)	--	2	0	0	1	0	0	--
	Facility Lighting	--	1	--	--	--	--	--	--
	Other Facility Support	--	*	0	0	*	0	0	--
	Onsite Transportation	--	*	--	0	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	*	0	0	0	0	0	--
	<b>End Use Not Reported</b>	*	*	0	*	*	*	0	*
<b>316</b>	<b>LEATHER AND ALLIED PRODUCTS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	3	1	*	*	1	*	0	*
	<b>Indirect Uses-Boiler Fuel</b>	--	*	*	*	*	0	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

### 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	Residual	Distillate	LPG and	Coal	Other(f)
			Electricity(b)	Fuel Oil	Fuel Oil and Diesel Fuel(c)		(excluding Coal Coke and Breeze)	
	Conventional Boiler Use	--	*	*	*	*	0	0
	CHP and/or Cogeneration Process	--	--	0	0	0	0	--
<b>Direct Uses-Total Process</b>		--	1	0	0	1	*	0
	Process Heating	--	*	0	0	*	*	0
	Process Cooling and Refrigeration	--	*	0	0	*	0	--
	Machine Drive	--	1	0	0	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--
	Other Process Use	--	*	0	0	0	0	--
<b>Direct Uses-Total Nonprocess</b>		--	*	0	*	*	*	0
	Facility HVAC (g)	--	*	0	*	*	*	0
	Facility Lighting	--	*	--	--	--	--	--
	Other Facility Support	--	*	0	0	*	*	0
	Onsite Transportation	--	*	--	0	*	*	--
	Conventional Electricity Generation	--	--	0	0	0	0	--
	Other Nonprocess Use	--	*	0	*	0	0	--
<b>End Use Not Reported</b>		*	*	0	0	*	0	0

321

## WOOD PRODUCTS

<b>TOTAL FUEL CONSUMPTION</b>	445	91	4	15	86	5	Q	228
<b>Indirect Uses-Boiler Fuel</b>	--	1	Q	1	25	*	1	--
Conventional Boiler Use	--	1	Q	1	16	*	1	--
CHP and/or Cogeneration Process	--	--	0	*	9	*	*	--
<b>Direct Uses-Total Process</b>	--	76	1	3	52	1	Q	--
Process Heating	--	7	*	*	47	1	Q	--
Process Cooling and Refrigeration	--	1	0	*	*	0	0	--
Machine Drive	--	67	*	2	Q	*	0	--
Electro-Chemical Processes	--	1	--	--	--	--	--	--
Other Process Use	--	*	*	*	3	*	0	--
<b>Direct Uses-Total Nonprocess</b>	--	12	*	11	7	3	0	--
Facility HVAC (g)	--	4	*	*	6	*	0	--
Facility Lighting	--	6	--	--	--	--	--	--
Other Facility Support	--	1	*	*	*	*	0	--
Onsite Transportation	--	*	--	10	*	3	--	--
Conventional Electricity Generation	--	--	0	*	0	*	0	--
Other Nonprocess Use	--	*	0	1	*	*	0	--
<b>End Use Not Reported</b>	236	2	2		2	1	*	228

321113

## Sawmills

<b>TOTAL FUEL CONSUMPTION</b>	138	23	*	8	12	*	0	94
<b>Indirect Uses-Boiler Fuel</b>	--	*	*	1	Q	*	0	--
Conventional Boiler Use	--	*	*	1	Q	*	0	--
CHP and/or Cogeneration Process	--	--	0	*	*	0	0	--
<b>Direct Uses-Total Process</b>	--	20	*	2	5	*	0	--
Process Heating	--	2	*	*	4	*	0	--
Process Cooling and Refrigeration	--	*	0	*	0	0	0	--
Machine Drive	--	18	0	1	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	0	*	0	--
<b>Direct Uses-Total Nonprocess</b>	--	3	*	6	*	*	0	--
Facility HVAC (g)	--	1	*	*	*	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	5	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	*	0	--
Other Nonprocess Use	--	*	0	*	0	*	0	--
<b>End Use Not Reported</b>	96	1	0	*	1	*	0	94

3212

## Veneer, Plywood, and Engineered Woods

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)
	<b>TOTAL FUEL CONSUMPTION</b>	169	34	*	1	45	3	2	84
	<b>Indirect Uses-Boiler Fuel</b>	--	1	*	*	15	*	1	--
	Conventional Boiler Use	--	1	*	*	6	*	1	--
	CHP and/or Cogeneration Process	--	--	0	0	9	0	*	--
	<b>Direct Uses-Total Process</b>	--	28	*	*	27	*	1	--
	Process Heating	--	2	*	*	23	*	1	--
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
	Machine Drive	--	25	0	*	Q	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	*	3	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	4	0	1	2	2	0	--
	Facility HVAC (g)	--	2	0	*	1	*	0	--
	Facility Lighting	--	2	--	--	--	--	--	--
	Other Facility Support	--	*	0	*	*	*	0	--
	Onsite Transportation	--	*	--	1	0	2	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	*	0	*	*	0	0	--
	<b>End Use Not Reported</b>	87	1	0	*	1	*	*	84
3219	Other Wood Products								
	<b>TOTAL FUEL CONSUMPTION</b>	129	33	*	5	28	1	Q	Q
	<b>Indirect Uses-Boiler Fuel</b>	--	*	*	*	3	*	0	--
	Conventional Boiler Use	--	*	*	*	3	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	*	0	--
	<b>Direct Uses-Total Process</b>	--	27	*	*	Q	*	Q	--
	Process Heating	--	2	0	*	Q	*	Q	--
	Process Cooling and Refrigeration	--	1	0	*	*	0	0	--
	Machine Drive	--	24	*	*	*	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	*	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	5	0	4	5	1	0	--
	Facility HVAC (g)	--	2	0	*	5	*	0	--
	Facility Lighting	--	3	--	--	--	--	--	--
	Other Facility Support	--	1	0	*	*	*	0	--
	Onsite Transportation	--	*	--	4	0	1	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	Q	*	*	*	*	*	*	Q
322	PAPER								
	<b>TOTAL FUEL CONSUMPTION</b>	2,354	247	91	13	474	5	221	1,303
	<b>Indirect Uses-Boiler Fuel</b>	--	11	W	5	277	*	194	--
	Conventional Boiler Use	--	11	W	2	120	*	11	--
	CHP and/or Cogeneration Process	--	--	45	3	157	*	183	--
	<b>Direct Uses-Total Process</b>	--	208	25	3	142	1	W	--
	Process Heating	--	9	23	3	124	1	W	--
	Process Cooling and Refrigeration	--	4	*	0	2	0	*	--
	Machine Drive	--	190	2	*	12	*	2	--
	Electro-Chemical Processes	--	2	--	--	--	--	--	--
	Other Process Use	--	3	0	*	4	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	27	3	3	18	3	1	--
	Facility HVAC (g)	--	12	1	*	14	*	1	--
	Facility Lighting	--	11	--	--	--	--	--	--
	Other Facility Support	--	3	1	*	1	*	*	--
	Onsite Transportation	--	1	--	3	*	3	--	--
	Conventional Electricity Generation	--	--	*	*	3	*	*	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	1,370	2	W	2	37	Q	W	1,303

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)
<b>322110</b>	<b>Pulp Mills</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	200	6	11	4	13	*	6	160
	<b>Indirect Uses-Boiler Fuel</b>	--	*	5	1	8	*	6	--
	Conventional Boiler Use	--	*	*	*	4	*	0	--
	CHP and/or Cogeneration Process	--	--	5	*	3	0	6	--
	<b>Direct Uses-Total Process</b>	--	4	4	2	5	*	0	--
	Process Heating	--	*	4	2	5	*	0	--
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
	Machine Drive	--	4	0	*	*	0	0	--
	Electro-Chemical Processes	--	*	--	--	--	*	--	--
	Other Process Use	--	0	0	*	0	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1	*	*	*	*	0	--
	Facility HVAC (g)	--	*	*	0	*	0	0	--
	Facility Lighting	--	*	--	--	--	*	--	--
	Other Facility Support	--	*	0	0	*	0	0	--
	Onsite Transportation	--	0	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	0	0	*	0	0	0	--
	<b>End Use Not Reported</b>	164	*	2	1	1	0	0	160
<b>322121</b>	<b>Paper Mills, except Newsprint</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	939	78	47	2	174	1	122	515
	<b>Indirect Uses-Boiler Fuel</b>	--	1	33	1	95	*	117	--
	Conventional Boiler Use	--	1	7	*	39	*	9	--
	CHP and/or Cogeneration Process	--	--	26	1	56	*	108	--
	<b>Direct Uses-Total Process</b>	--	69	14	*	66	*	5	--
	Process Heating	--	3	13	*	55	*	2	--
	Process Cooling and Refrigeration	--	1	*	0	2	0	*	--
	Machine Drive	--	63	1	*	9	*	2	--
	Electro-Chemical Processes	--	*	--	--	--	*	--	--
	Other Process Use	--	1	0	*	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	8	1	1	6	1	1	--
	Facility HVAC (g)	--	4	*	*	4	*	1	--
	Facility Lighting	--	3	--	--	--	*	--	--
	Other Facility Support	--	1	*	*	*	*	*	--
	Onsite Transportation	--	*	--	1	*	1	--	--
	Conventional Electricity Generation	--	--	*	0	1	0	*	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	522	0	0	*	7	*	0	515
<b>322122</b>	<b>Newsprint Mills</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	72	32	2	*	8	*	14	15
	<b>Indirect Uses-Boiler Fuel</b>	--	*	1	*	6	*	14	--
	Conventional Boiler Use	--	*	*	*	*	*	0	--
	CHP and/or Cogeneration Process	--	--	*	*	6	0	14	--
	<b>Direct Uses-Total Process</b>	--	30	0	*	2	*	0	--
	Process Heating	--	1	0	0	1	*	0	--
	Process Cooling and Refrigeration	--	1	0	0	0	0	0	--
	Machine Drive	--	28	0	*	0	*	0	--
	Electro-Chemical Processes	--	1	--	--	--	*	--	--
	Other Process Use	--	0	0	*	1	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	3	2	*	*	*	0	--
	Facility HVAC (g)	--	1	1	0	*	0	0	--
	Facility Lighting	--	1	--	--	--	*	--	--
	Other Facility Support	--	*	1	*	*	0	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)				
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	*	0	*	0	*	0	--
	<b>End Use Not Reported</b>	15	0	0	0	*	0	0	15
<b>322130</b>	<b>Paperboard Mills</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	827	75	29	6	142	*	73	502
	<b>Indirect Uses-Boiler Fuel</b>	--	4	W	3	103	0	52	--
	Conventional Boiler Use	--	4	W	2	40	0	2	--
	CHP and/or Cogeneration Process	--	--	15	2	62	0	50	--
	<b>Direct Uses-Total Process</b>	--	66	6	1	31	*	W	--
	Process Heating	--	2	6	1	26	*	W	--
	Process Cooling and Refrigeration	--	1	0	0	*	0	0	--
	Machine Drive	--	60	*	*	3	*	0	--
	Electro-Chemical Processes	--	1	--	--	--	--	--	--
	Other Process Use	--	1	0	*	2	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	5	*	1	4	*	*	--
	Facility HVAC (g)	--	2	*	1	*	*	*	--
	Facility Lighting	--	2	--	--	--	--	--	--
	Other Facility Support	--	1	0	*	1	*	0	--
	Onsite Transportation	--	*	--	1	0	*	--	--
	Conventional Electricity Generation	--	--	*	*	1	0	0	--
	Other Nonprocess Use	--	*	0	*	0	*	0	--
	<b>End Use Not Reported</b>	532	1	W	*	5	*	W	502
<b>323</b>	<b>PRINTING AND RELATED SUPPORT</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	85	44	*	*	39	1	0	*
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	0	5	*	0	--
	Conventional Boiler Use	--	*	0	0	5	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	27	0	*	26	*	0	--
	Process Heating	--	1	0	0	25	*	0	--
	Process Cooling and Refrigeration	--	3	0	0	*	0	0	--
	Machine Drive	--	23	0	*	Q	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	0	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	16	*	*	8	1	0	--
	Facility HVAC (g)	--	8	*	*	7	*	0	--
	Facility Lighting	--	5	--	--	--	--	--	--
	Other Facility Support	--	2	*	*	*	*	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	Q	1	0	0	Q	*	0	*
<b>324</b>	<b>PETROLEUM AND COAL PRODUCTS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	3,396	137	58	25	849	29	53	2,246
	<b>Indirect Uses-Boiler Fuel</b>	--	2	W	4	280	3	2	--
	Conventional Boiler Use	--	2	W	2	120	3	1	--
	CHP and/or Cogeneration Process	--	--	*	2	160	1	*	--
	<b>Direct Uses-Total Process</b>	--	127	12	17	545	23	51	--
	Process Heating	--	S	12	11	504	21	1	--
	Process Cooling and Refrigeration	--	8	0	*	1	*	0	--
	Machine Drive	--	120	0	6	17	1	51	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	Q	0	*	23	1	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	8	0	3	21	*	0	--
	Facility HVAC (g)	--	5	0	*	8	*	0	--

Table 5.2 End Uses of Fuel Consumption, 2006;

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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)	W			
	Facility Lighting	--	3	--	--	--	--	--	--
	Other Facility Support	--	1	0	*	1	*	0	--
	Onsite Transportation	--	*	--	3	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	12	0	0	--
	Other Nonprocess Use	--	S	0	*	*	*	0	--
	<b>End Use Not Reported</b>	W	*	W	1	Q	2	0	2,246
<b>324110</b>	<b>Petroleum Refineries</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>3,230</b>	<b>127</b>	<b>52</b>	<b>8</b>	<b>789</b>	<b>28</b>	<b>1</b>	<b>2,226</b>
	<b>Indirect Uses-Boiler Fuel</b>	--	2	W	4	256	3	*	--
	Conventional Boiler Use	--	2	W	2	96	3	*	--
	CHP and/or Cogeneration Process	--	--	*	2	160	1	0	--
	<b>Direct Uses-Total Process</b>	--	<b>118</b>	<b>7</b>	<b>2</b>	<b>515</b>	<b>23</b>	<b>1</b>	<b>--</b>
	Process Heating	--	S	7	1	482	21	1	--
	Process Cooling and Refrigeration	--	7	0	*	1	*	0	--
	Machine Drive	--	114	0	1	15	1	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	*	17	1	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	7	0	1	17	*	0	--
	Facility HVAC (g)	--	3	0	*	4	*	0	--
	Facility Lighting	--	3	--	--	--	--	--	--
	Other Facility Support	--	1	0	*	1	0	0	--
	Onsite Transportation	--	*	--	1	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	12	0	0	--
	Other Nonprocess Use	--	*	0	*	*	0	0	--
	<b>End Use Not Reported</b>	W	0	W	1	*	2	0	2,226
<b>324199</b>	<b>Other Petroleum and Coal Products</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>72</b>	<b>*</b>	<b>0</b>	<b>*</b>	<b>3</b>	<b>*</b>	<b>52</b>	<b>17</b>
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	0	*	*	2	--
	Conventional Boiler Use	--	*	0	0	*	*	1	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	*	--
	<b>Direct Uses-Total Process</b>	--	1	0	*	3	*	51	--
	Process Heating	--	*	0	*	2	*	0	--
	Process Cooling and Refrigeration	--	*	0	*	*	0	0	--
	Machine Drive	--	1	0	*	*	0	51	--
	Electro-Chemical Processes	--	0	--	--	--	--	--	--
	Other Process Use	--	*	0	0	0	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	*	0	*	*	*	0	--
	Facility HVAC (g)	--	*	0	*	*	*	0	--
	Facility Lighting	--	*	--	--	--	--	--	--
	Other Facility Support	--	*	0	*	*	0	0	--
	Onsite Transportation	--	0	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	S	0	0	0	*	0	--
	<b>End Use Not Reported</b>	17	0	0	*	0	0	0	17
<b>325</b>	<b>CHEMICALS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>3,196</b>	<b>517</b>	<b>23</b>	<b>9</b>	<b>1,394</b>	<b>7</b>	<b>167</b>	<b>1,078</b>
	<b>Indirect Uses-Boiler Fuel</b>	--	12	18	4	825	2	151	--
	Conventional Boiler Use	--	12	15	4	384	2	55	--
	CHP and/or Cogeneration Process	--	--	3	*	441	*	97	--
	<b>Direct Uses-Total Process</b>	--	<b>438</b>	<b>5</b>	<b>2</b>	<b>510</b>	<b>4</b>	<b>8</b>	<b>--</b>
	Process Heating	--	25	5	1	388	*	7	--
	Process Cooling and Refrigeration	--	44	0	*	17	*	0	--
	Machine Drive	--	314	0	1	65	*	1	--
	Electro-Chemical Processes	--	49	--	--	--	--	--	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)				
	Other Process Use	--	5	0	*	41	4	*	--
	<b>Direct Uses-Total Nonprocess</b>	--	64	*	3	33	1	*	--
	Facility HVAC (g)	--	34	*	1	23	*	*	--
	Facility Lighting	--	20	--	--	--	--	--	--
	Other Facility Support	--	8	0	*	2	*	0	--
	Onsite Transportation	--	0	--	2	*	1	--	--
	Conventional Electricity Generation	--	--	0	*	3	*	0	--
	Other Nonprocess Use	--	2	*	*	5	*	0	--
	<b>End Use Not Reported</b>	1,114	4	0	*	25	*	7	1,078
<b>325110</b>	<b>Petrochemicals</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	757	16	5	1	110	*	0	625
	<b>Indirect Uses-Boiler Fuel</b>	--	*	5	37	0	0	0	--
	Conventional Boiler Use	--	*	5	*	19	0	0	--
	CHP and/or Cogeneration Process	--	--	0	*	18	0	0	--
	<b>Direct Uses-Total Process</b>	--	14	0	*	72	0	0	--
	Process Heating	--	1	0	*	W	0	0	--
	Process Cooling and Refrigeration	--	2	0	0	*	0	0	--
	Machine Drive	--	9	0	*	W	0	0	--
	Electro-Chemical Processes	--	2	--	--	--	--	--	--
	Other Process Use	--	*	0	*	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	2	0	*	1	*	0	--
	Facility HVAC (g)	--	1	0	*	*	*	0	--
	Facility Lighting	--	1	--	--	--	--	--	--
	Other Facility Support	--	*	0	0	*	0	0	--
	Onsite Transportation	--	0	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	*	0	--
	Other Nonprocess Use	--	0	0	*	1	*	0	--
	<b>End Use Not Reported</b>	625	*	0	0	*	0	0	625
<b>325120</b>	<b>Industrial Gases</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	87	71	0	*	14	*	0	3
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	*	6	0	0	--
	Conventional Boiler Use	--	*	0	*	6	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	68	0	*	8	*	0	--
	Process Heating	--	*	0	*	6	*	0	--
	Process Cooling and Refrigeration	--	2	0	*	*	0	0	--
	Machine Drive	--	66	0	*	0	0	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	0	0	0	2	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	3	0	*	*	*	0	--
	Facility HVAC (g)	--	2	0	*	*	*	0	--
	Facility Lighting	--	1	--	--	--	--	--	--
	Other Facility Support	--	*	0	*	*	0	0	--
	Onsite Transportation	--	0	--	0	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	*	0	0	0	0	0	--
	<b>End Use Not Reported</b>	3	0	0	0	*	*	0	3
<b>325181</b>	<b>Alkalies and Chlorine</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	153	21	0	*	106	*	16	9
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	*	58	0	15	--
	Conventional Boiler Use	--	*	0	*	14	0	5	--
	CHP and/or Cogeneration Process	--	--	0	0	43	0	10	--
	<b>Direct Uses-Total Process</b>	--	20	0	*	48	0	2	--
	Process Heating	--	*	0	0	15	0	2	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)				
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
	Machine Drive	--	5	0	*	33	0	0	--
	Electro-Chemical Processes	--	11	--	--	--	--	--	--
	Other Process Use	--	3	0	0	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1	0	*	*	*	0	--
	Facility HVAC (g)	--	*	0	0	*	*	0	--
	Facility Lighting	--	*	--	--	--	--	--	--
	Other Facility Support	--	*	0	0	*	0	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	0	*	0	0	--
	Other Nonprocess Use	--	*	0	0	*	0	0	--
	<b>End Use Not Reported</b>	9	0	0	0	0	0	0	9
<b>325182</b>	<b>Carbon Black</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	15	2	*	*	11	*	0	2
	<b>Indirect Uses-Boiler Fuel</b>	--	*	*	0	2	0	0	--
	Conventional Boiler Use	--	*	*	0	2	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	1	*	*	4	0	0	--
	Process Heating	--	*	*	0	3	0	0	--
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
	Machine Drive	--	1	0	*	*	0	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	0	0	0	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1	*	*	*	*	0	--
	Facility HVAC (g)	--	*	*	0	*	0	0	--
	Facility Lighting	--	*	--	--	--	--	--	--
	Other Facility Support	--	*	0	0	*	0	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	0	0	0	0	0	0	--
	<b>End Use Not Reported</b>	6	0	0	0	5	0	0	2
<b>325188</b>	<b>Other Basic Inorganic Chemicals</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	189	82	9	1	54	*	23	21
	<b>Indirect Uses-Boiler Fuel</b>	--	1	5	*	14	*	22	--
	Conventional Boiler Use	--	1	5	*	14	*	3	--
	CHP and/or Cogeneration Process	--	--	0	0	1	0	19	--
	<b>Direct Uses-Total Process</b>	--	74	3	*	33	*	1	--
	Process Heating	--	2	3	*	30	*	1	--
	Process Cooling and Refrigeration	--	2	0	*	*	0	0	--
	Machine Drive	--	53	0	*	*	*	0	--
	Electro-Chemical Processes	--	17	--	--	--	--	--	--
	Other Process Use	--	1	0	*	2	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	6	0	*	2	*	0	--
	Facility HVAC (g)	--	3	0	*	1	*	0	--
	Facility Lighting	--	2	--	--	--	--	--	--
	Other Facility Support	--	1	0	*	*	0	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	1	0	*	*	*	0	--
	<b>End Use Not Reported</b>	27	1	0	*	5	*	0	21
<b>325192</b>	<b>Cyclic Crudes and Intermediates</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	37	9	1	*	16	*	0	12
	<b>Indirect Uses-Boiler Fuel</b>	--	*	1	*	9	0	0	--
	Conventional Boiler Use	--	*	1	*	9	0	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

### 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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)				
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
<b>Direct Uses-Total Process</b>		<b>--</b>	<b>8</b>	<b>0</b>	<b>*</b>	<b>6</b>	<b>*</b>	<b>0</b>	<b>0</b>
Process Heating		--	6	0	*	6	*	0	--
Process Cooling and Refrigeration		--	1	0	0	0	0	0	--
Machine Drive		--	2	0	*	0	0	0	--
Electro-Chemical Processes		--	0	--	--	--	--	--	--
Other Process Use		--	*	0	0	*	0	0	--
<b>Direct Uses-Total Nonprocess</b>		<b>--</b>	<b>1</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>	<b>0</b>
Facility HVAC (g)		--	*	0	0	*	0	0	--
Facility Lighting		--	*	--	--	--	--	--	--
Other Facility Support		--	*	0	0	*	0	0	--
Onsite Transportation		--	*	--	*	0	*	--	--
Conventional Electricity Generation		--	--	0	0	0	0	0	--
Other Nonprocess Use		--	*	0	*	0	*	0	--
<b>End Use Not Reported</b>		<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>0</b>	<b>12</b>

325193 Ethyl Alcohol

<b>TOTAL FUEL CONSUMPTION</b>	110	9	0	*	82	*	19	*
<b>Indirect Uses-Boiler Fuel</b>	--	*	0	*	49	*	12	--
Conventional Boiler Use	--	*	0	*	46	*	11	--
CHP and/or Cogeneration Process	--	--	0	*	3	0	1	--
<b>Direct Uses-Total Process</b>	--	8	0	*	29	*	0	--
Process Heating	--	1	0	0	26	*	0	--
Process Cooling and Refrigeration	--	1	0	0	0	0	0	--
Machinery Drive	--	6	0	*	0	0	0	--
Electro-Chemical Processes	--	0	--	--	--	--	--	--
Other Process Use	--	*	0	0	3	0	0	--
<b>Direct Uses-Total Nonprocess</b>	--	1	0	*	1	*	*	--
Facility HVAC (q)	--	*	0	0	1	*	*	--
Facility Lighting	--	*	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	0	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	*	*	*	0	--
<b>End Use Not Reported</b>	10	0	0	*	3	0	7	*

**325199 Other Basic Organic Chemicals**

<b>TOTAL FUEL CONSUMPTION</b>	647	73	2	2	306	*	54	209
<b>Indirect Uses-Boiler Fuel</b>	--	1	1	2	206	*	50	--
Conventional Boiler Use	--	1	1	2	116	*	8	--
CHP and/or Cogeneration Process	--	--	*	*	90	*	42	--
<b>Direct Uses-Total Process</b>	--	64	*	*	85	*	3	--
Process Heating	--	3	*	*	66	*	3	--
Process Cooling and Refrigeration	--	8	0	0	4	0	0	--
Machine Drive	--	39	0	*	2	0	1	--
Electro-Chemical Processes	--	14	--	--	--	--	--	--
Other Process Use	--	*	0	*	13	*	0	--
<b>Direct Uses-Total Nonprocess</b>	--	7	*	*	5	*	*	--
Facility HVAC (g)	--	3	*	0	3	*	*	--
Facility Lighting	--	2	--	--	--	--	--	--
Other Facility Support	--	1	0	*	1	*	0	--
Onsite Transportation	--	*	--	*	0	*	--	--
Conventional Electricity Generation	--	--	0	*	1	0	0	--
Other Nonprocess Use	--	*	0	*	1	*	0	--
<b>End Use Not Reported</b>	220	1	0	*	10	*	0	209

325211 Plastics Materials and Resins

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)
	<b>TOTAL FUEL CONSUMPTION</b>	559	65	*	1	333	6	11	143
	<b>Indirect Uses-Boiler Fuel</b>	--	7	*	*	264	2	11	--
	Conventional Boiler Use	--	7	*	*	52	2	11	--
	CHP and/or Cogeneration Process	--	--	0	0	213	0	0	--
	<b>Direct Uses-Total Process</b>	--	51	*	Q	64	4	0	--
	Process Heating	--	3	*	*	W	*	0	--
	Process Cooling and Refrigeration	--	7	0	*	1	*	0	--
	Machine Drive	--	40	0	*	W	*	0	--
	Electro-Chemical Processes	--	2	--	--	--	--	--	--
	Other Process Use	--	*	0	*	8	4	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	6	0	*	4	*	0	--
	Facility HVAC (g)	--	3	0	*	2	*	0	--
	Facility Lighting	--	2	--	--	--	--	--	--
	Other Facility Support	--	1	0	*	*	*	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	*	0	--
	Other Nonprocess Use	--	*	0	*	2	*	0	--
	<b>End Use Not Reported</b>	144	*	0	0	1	*	0	143
325212	<b>Synthetic Rubber</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	44	6	*	*	26	*	6	6
	<b>Indirect Uses-Boiler Fuel</b>	--	*	*	*	22	*	6	--
	Conventional Boiler Use	--	*	*	*	6	*	3	--
	CHP and/or Cogeneration Process	--	--	0	0	16	0	3	--
	<b>Direct Uses-Total Process</b>	--	4	0	*	4	*	0	--
	Process Heating	--	*	0	0	3	*	0	--
	Process Cooling and Refrigeration	--	1	0	0	*	0	0	--
	Machine Drive	--	3	0	*	*	0	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	*	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1	*	*	*	*	0	--
	Facility HVAC (g)	--	1	0	*	*	*	0	--
	Facility Lighting	--	*	--	--	--	--	--	--
	Other Facility Support	--	*	0	0	*	0	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	*	*	*	*	*	0	--
	<b>End Use Not Reported</b>	6	*	0	0	*	0	0	6
325222	<b>Noncellulosic Organic Fibers</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	82	17	3	*	34	*	9	21
	<b>Indirect Uses-Boiler Fuel</b>	--	1	2	*	20	*	8	--
	Conventional Boiler Use	--	1	1	*	12	*	3	--
	CHP and/or Cogeneration Process	--	--	1	0	8	0	5	--
	<b>Direct Uses-Total Process</b>	--	13	1	*	11	*	*	--
	Process Heating	--	1	1	*	8	*	*	--
	Process Cooling and Refrigeration	--	3	0	0	*	0	0	--
	Machine Drive	--	9	0	*	3	0	0	--
	Electro-Chemical Processes	--	0	--	--	--	--	--	--
	Other Process Use	--	*	0	*	*	*	*	--
	<b>Direct Uses-Total Nonprocess</b>	--	2	*	*	3	*	0	--
	Facility HVAC (g)	--	1	--	--	--	--	0	--
	Facility Lighting	--	1	--	--	--	--	0	--
	Other Facility Support	--	*	0	*	0	*	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	2	0	0	--
	Other Nonprocess Use	--	*	0	*	*	0	0	--
	<b>End Use Not Reported</b>	21	*	0	0	*	*	0	21

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)
325311	<b>Nitrogenous Fertilizers</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	128	8	0	*	117	*	0	3
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	*	28	*	0	--
	Conventional Boiler Use	--	*	0	*	25	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	3	0	0	--
	<b>Direct Uses-Total Process</b>	--	8	0	*	88	*	0	--
	Process Heating	--	*	0	*	65	*	0	--
	Process Cooling and Refrigeration	--	1	0	0	12	0	0	--
	Machine Drive	--	7	0	*	6	0	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	*	4	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1	0	*	1	*	0	--
	Facility HVAC (g)	--	*	0	*	*	*	0	--
	Facility Lighting	--	*	--	--	--	--	--	--
	Other Facility Support	--	*	0	0	*	0	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	*	0	*	0	0	0	--
	<b>End Use Not Reported</b>	4	0	0	0	*	*	0	3
325312	<b>Phosphatic Fertilizers</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	19	5	*	1	11	*	2	*
	<b>Indirect Uses-Boiler Fuel</b>	--	0	*	*	1	0	0	--
	Conventional Boiler Use	--	0	0	0	1	0	0	--
	CHP and/or Cogeneration Process	--	--	*	*	1	0	0	--
	<b>Direct Uses-Total Process</b>	--	5	*	*	10	*	2	--
	Process Heating	--	*	*	*	8	*	2	--
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
	Machine Drive	--	5	0	*	2	0	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	*	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	*	0	*	*	*	0	--
	Facility HVAC (g)	--	*	0	0	*	*	0	--
	Facility Lighting	--	*	--	--	--	--	--	--
	Other Facility Support	--	*	0	0	*	0	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	0	0	*	0	0	0	--
	<b>End Use Not Reported</b>	*	0	0	0	0	*	0	*
3254	<b>Pharmaceuticals and Medicines</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	92	31	1	1	46	*	6	6
	<b>Indirect Uses-Boiler Fuel</b>	--	1	1	*	37	*	6	--
	Conventional Boiler Use	--	1	*	*	20	*	6	--
	CHP and/or Cogeneration Process	--	--	1	*	17	*	0	--
	<b>Direct Uses-Total Process</b>	--	13	0	*	3	*	*	--
	Process Heating	--	1	0	*	2	*	*	--
	Process Cooling and Refrigeration	--	5	0	*	*	0	0	--
	Machine Drive	--	7	0	*	*	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	16	0	1	6	*	0	--
	Facility HVAC (g)	--	10	0	*	5	*	0	--
	Facility Lighting	--	4	--	--	--	--	--	--
	Other Facility Support	--	2	0	*	*	*	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	*	0	--

Table 5.2 End Uses of Fuel Consumption, 2006;

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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)				
	Other Nonprocess Use	--	*	0	*	1	*	0	--
	<b>End Use Not Reported</b>	7	1	0	*	*	*	0	6
<b>325412</b>	<b>Pharmaceutical Preparation</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	64	22	1	1	31	*	5	4
	<b>Indirect Uses-Boiler Fuel</b>	--	*	1	*	25	*	5	--
	Conventional Boiler Use	--	*	*	*	12	*	5	--
	CHP and/or Cogeneration Process	--	--	1	*	13	*	0	--
	<b>Direct Uses-Total Process</b>	--	9	0	*	2	*	*	--
	Process Heating	--	1	0	*	2	0	*	--
	Process Cooling and Refrigeration	--	3	0	0	*	0	0	--
	Machine Drive	--	5	0	*	*	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	*	--	--
	Other Process Use	--	*	0	*	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	12	0	1	4	*	0	--
	Facility HVAC (g)	--	7	0	*	3	*	0	--
	Facility Lighting	--	3	--	--	--	*	--	--
	Other Facility Support	--	1	0	*	*	*	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	*	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	5	Q	0	*	*	*	0	4
<b>325992</b>	<b>Photographic Film, Paper, Plate, and Chemicals</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	28	4	*	*	7	*	16	Q
	<b>Indirect Uses-Boiler Fuel</b>	--	*	*	*	4	0	16	--
	Conventional Boiler Use	--	*	*	*	1	0	0	--
	CHP and/or Cogeneration Process	--	--	*	*	3	0	16	--
	<b>Direct Uses-Total Process</b>	--	2	0	*	2	*	0	--
	Process Heating	--	*	0	*	1	*	0	--
	Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
	Machine Drive	--	1	0	*	*	0	0	--
	Electro-Chemical Processes	--	*	--	--	--	*	--	--
	Other Process Use	--	*	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1	*	*	1	*	0	--
	Facility HVAC (g)	--	1	*	*	1	*	0	--
	Facility Lighting	--	*	--	--	--	*	--	--
	Other Facility Support	--	*	0	0	*	0	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	Q	0	0	0	*	*	0	Q
<b>326</b>	<b>PLASTICS AND RUBBER PRODUCTS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	336	182	9	3	127	5	Q	*
	<b>Indirect Uses-Boiler Fuel</b>	--	1	6	Q	58	*	Q	--
	Conventional Boiler Use	--	1	6	Q	58	*	Q	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>	--	139	Q	Q	37	Q	0	--
	Process Heating	--	28	Q	*	31	Q	0	--
	Process Cooling and Refrigeration	--	16	0	0	*	0	0	--
	Machine Drive	--	92	0	*	3	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	*	--	--
	Other Process Use	--	Q	Q	Q	3	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	41	Q	Q	27	3	0	--
	Facility HVAC (g)	--	20	Q	*	24	Q	0	--
	Facility Lighting	--	16	--	--	--	--	--	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)
	Other Facility Support	--	5	0	*	2	*	0	--
	Onsite Transportation	--	1	--	*	*	2	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	--	0	*	*	*	0	--
	<b>End Use Not Reported</b>	Q	1	0	*	Q	*	0	*
<b>327</b>	<b>NONMETALLIC MINERAL PRODUCTS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>1,105</b>	<b>147</b>	<b>3</b>	<b>30</b>	<b>459</b>	<b>5</b>	<b>320</b>	<b>141</b>
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	21	Q	*	--	--
	Conventional Boiler Use	--	*	0	*	20	Q	*	--
	CHP and/or Cogeneration Process	--	--	0	0	1	0	0	--
	<b>Direct Uses-Total Process</b>	--	<b>125</b>	<b>3</b>	<b>18</b>	<b>364</b>	<b>Q</b>	<b>W</b>	<b>--</b>
	Process Heating	--	33	3	2	357	Q	W	--
	Process Cooling and Refrigeration	--	4	0	*	*	0	0	--
	Machine Drive	--	82	0	12	6	*	2	--
	Electro-Chemical Processes	--	*	--	--	--	*	--	--
	Other Process Use	--	5	0	4	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	<b>21</b>	<b>*</b>	<b>11</b>	<b>19</b>	<b>2</b>	<b>0</b>	<b>--</b>
	Facility HVAC (g)	--	9	*	*	17	*	0	--
	Facility Lighting	--	8	--	--	--	--	--	--
	Other Facility Support	--	3	*	*	1	*	0	--
	Onsite Transportation	--	1	--	8	*	1	--	--
	Conventional Electricity Generation	--	--	0	Q	*	*	0	--
	Other Nonprocess Use	--	--	0	2	*	*	0	--
	<b>End Use Not Reported</b>	W	1	0	1	55	*	W	141
<b>327211</b>	<b>Flat Glass</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>61</b>	<b>6</b>	<b>1</b>	<b>*</b>	<b>52</b>	<b>*</b>	<b>0</b>	<b>1</b>
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	*	2	0	0	--
	Conventional Boiler Use	--	*	0	*	2	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	<b>6</b>	<b>1</b>	<b>*</b>	<b>49</b>	<b>*</b>	<b>0</b>	<b>--</b>
	Process Heating	--	3	1	*	49	*	0	--
	Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
	Machine Drive	--	3	0	*	*	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	*	--	--
	Other Process Use	--	*	0	*	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1	0	*	1	*	0	--
	Facility HVAC (g)	--	*	0	*	1	*	0	--
	Facility Lighting	--	*	--	--	--	*	--	--
	Other Facility Support	--	*	0	0	*	*	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	0	0	*	0	*	0	--
	<b>End Use Not Reported</b>	1	0	0	0	*	0	0	1
<b>327212</b>	<b>Other Pressed and Blown Glass and Glassware</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>91</b>	<b>17</b>	<b>0</b>	<b>*</b>	<b>Q</b>	<b>*</b>	<b>0</b>	<b>9</b>
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	*	Q	*	0	--
	Conventional Boiler Use	--	*	0	*	Q	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	<b>15</b>	<b>0</b>	<b>*</b>	<b>Q</b>	<b>*</b>	<b>0</b>	<b>--</b>
	Process Heating	--	4	0	*	Q	*	0	--
	Process Cooling and Refrigeration	--	Q	0	0	0	0	0	--
	Machine Drive	--	Q	0	*	*	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	*	--	--
	Other Process Use	--	1	0	*	0	*	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)				
<b>Direct Uses-Total Nonprocess</b>									
Facility HVAC (g)	--	2	0	*	3	*	0	--	
Facility Lighting	--	Q	0	*	Q	*	0	--	
Other Facility Support	--	1	--	--	--	--	--	--	
Onsite Transportation	--	*	0	*	*	*	0	--	
Conventional Electricity Generation	--	*	--	--	0	*	0	--	
Other Nonprocess Use	--	0	0	*	0	*	0	--	
<b>End Use Not Reported</b>		12	*	0	0	3	*	0	9
<b>327213</b>	<b>Glass Containers</b>								
<b>TOTAL FUEL CONSUMPTION</b>									
<b>Indirect Uses-Boiler Fuel</b>		64	13	0	*	50	*	0	*
Conventional Boiler Use	--	0	0	0	*	0	0	--	
CHP and/or Cogeneration Process	--	0	0	0	0	0	0	--	
<b>Direct Uses-Total Process</b>									
Process Heating	--	12	0	*	48	*	0	--	
Process Cooling and Refrigeration	--	5	0	0	48	*	0	--	
Machine Drive	--	7	0	*	0	*	0	--	
Electro-Chemical Processes	--	0	--	--	--	--	--	--	
Other Process Use	--	*	0	*	*	0	0	--	
<b>Direct Uses-Total Nonprocess</b>									
Facility HVAC (g)	--	1	0	*	2	*	0	--	
Facility Lighting	--	1	--	--	2	*	0	--	
Other Facility Support	--	*	0	0	*	*	0	--	
Onsite Transportation	--	*	--	*	0	*	0	--	
Conventional Electricity Generation	--	--	0	*	0	0	0	--	
Other Nonprocess Use	--	*	0	0	0	0	0	--	
<b>End Use Not Reported</b>		*	0	0	0	0	0	0	*
<b>327215</b>	<b>Glass Products from Purchased Glass</b>								
<b>TOTAL FUEL CONSUMPTION</b>									
<b>Indirect Uses-Boiler Fuel</b>		65	13	0	*	52	*	*	*
Conventional Boiler Use	--	*	0	*	9	*	*	--	
CHP and/or Cogeneration Process	--	*	0	*	9	*	*	--	
<b>Direct Uses-Total Process</b>									
Process Heating	--	10	0	*	5	*	0	0	--
Process Cooling and Refrigeration	--	6	0	*	5	*	0	0	--
Machine Drive	--	1	0	*	0	*	0	0	--
Electro-Chemical Processes	--	3	0	*	*	*	0	0	--
Other Process Use	--	*	--	--	--	--	--	--	
<b>Direct Uses-Total Nonprocess</b>									
Facility HVAC (g)	--	2	0	*	2	*	0	--	
Facility Lighting	--	1	0	*	2	*	0	--	
Other Facility Support	--	*	--	--	--	--	0	--	
Onsite Transportation	--	*	--	*	0	*	0	--	
Conventional Electricity Generation	--	--	0	*	*	0	0	--	
Other Nonprocess Use	--	*	0	*	*	*	0	--	
<b>End Use Not Reported</b>		Q	*	0	0	Q	*	*	*
<b>327310</b>	<b>Cements</b>								
<b>TOTAL FUEL CONSUMPTION</b>									
<b>Indirect Uses-Boiler Fuel</b>		382	41	1	3	20	*	235	82
Conventional Boiler Use	--	0	0	*	1	1	*	0	--
CHP and/or Cogeneration Process	--	0	0	*	Q	*	0	--	
<b>Direct Uses-Total Process</b>									
Process Heating	--	--	0	0	1	1	0	0	--
Process Cooling and Refrigeration	--	34	1	1	18	*	*	232	--
--	--	4	1	1	17	*	*	231	--
--	--	*	0	0	0	0	0	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)				
	Machine Drive	--	29	0	*	Q	*	2	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	1	0	*	*	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	6	*	2	*	*	0	--
	Facility HVAC (g)	--	2	*	*	*	*	0	--
	Facility Lighting	--	2	--	--	--	--	--	--
	Other Facility Support	--	1	0	*	*	*	0	--
	Onsite Transportation	--	*	--	2	0	*	--	--
	Conventional Electricity Generation	--	--	0	0	0	0	0	--
	Other Nonprocess Use	--	*	0	*	0	0	0	--
	<b>End Use Not Reported</b>	85	*	0	1	0	*	2	82
327410	Lime								
	<b>TOTAL FUEL CONSUMPTION</b>	116	5	*	1	5	*	78	26
	<b>Indirect Uses-Boiler Fuel</b>	--	0	0	0	*	0	0	--
	Conventional Boiler Use	--	0	0	0	*	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	4	*	*	5	*	W	--
	Process Heating	--	1	*	*	5	*	W	--
	Process Cooling and Refrigeration	--	*	0	0	0	0	0	--
	Machine Drive	--	4	0	*	0	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	*	0	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1	0	1	*	*	0	--
	Facility HVAC (g)	--	*	0	*	*	*	0	--
	Facility Lighting	--	*	--	--	--	--	--	--
	Other Facility Support	--	*	0	0	*	*	0	--
	Onsite Transportation	--	*	--	1	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	0	0	0	0	*	0	--
	<b>End Use Not Reported</b>	W	0	0	*	*	*	W	26
327420	Gypsum								
	<b>TOTAL FUEL CONSUMPTION</b>	86	6	*	1	76	*	0	2
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	*	2	0	0	--
	Conventional Boiler Use	--	*	0	*	2	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	6	0	*	71	*	0	--
	Process Heating	--	*	0	*	71	*	0	--
	Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
	Machine Drive	--	5	0	*	*	0	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	0	0	0	0	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	1	*	1	1	*	0	--
	Facility HVAC (g)	--	*	*	0	1	*	0	--
	Facility Lighting	--	*	--	--	--	--	--	--
	Other Facility Support	--	*	*	*	*	0	0	--
	Onsite Transportation	--	*	--	1	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	0	0	0	0	*	0	--
	<b>End Use Not Reported</b>	5	*	0	0	3	*	0	2
327993	Mineral Wool								
	<b>TOTAL FUEL CONSUMPTION</b>	51	14	0	*	34	*	0	3
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	*	*	*	0	--
	Conventional Boiler Use	--	*	0	*	*	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)				
<b>Direct Uses-Total Process</b>									
Process Heating	--	12	0	*	27	*	0	--	--
Process Cooling and Refrigeration	--	5	0	0	27	*	0	--	--
Machine Drive	--	5	0	*	*	*	0	--	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--	--
Other Process Use	--	2	0	*	*	*	0	--	--
<b>Direct Uses-Total Nonprocess</b>									
Facility HVAC (g)	--	1	0	*	2	*	0	--	--
Facility Lighting	--	1	--	--	--	--	--	--	--
Other Facility Support	--	*	0	0	*	0	0	--	--
Onsite Transportation	--	*	--	*	0	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--	--
Other Nonprocess Use	--	*	0	*	0	*	0	--	--
<b>End Use Not Reported</b>		8	0	0	*	5	*	0	3
<b>331</b>	<b>PRIMARY METALS</b>								
<b>TOTAL FUEL CONSUMPTION</b>									
<b>Indirect Uses-Boiler Fuel</b>		1,745	458	19	6	585	4	21	651
Conventional Boiler Use	--	1	4	*	57	*	2	--	--
CHP and/or Cogeneration Process	--	1	--	4	0	28	0	2	--
<b>Direct Uses-Total Process</b>									
Process Heating	--	421	12	2	478	2	14	--	--
Process Cooling and Refrigeration	--	133	12	1	458	2	5	--	--
Machine Drive	--	4	0	*	2	*	0	--	--
Electro-Chemical Processes	--	134	0	*	8	*	0	--	--
Other Process Use	--	146	--	--	--	--	--	--	--
<b>Direct Uses-Total Nonprocess</b>									
Facility HVAC (g)	--	36	*	4	41	1	3	--	--
Facility Lighting	--	16	*	*	38	*	0	--	--
Other Facility Support	--	15	--	--	--	--	--	--	--
Onsite Transportation	--	4	*	*	3	*	0	--	--
Conventional Electricity Generation	--	*	--	4	Q	1	--	--	--
Other Nonprocess Use	--	0	*	*	*	*	3	--	--
<b>End Use Not Reported</b>		666	1	4	*	8	*	3	651
<b>33111</b>	<b>Iron and Steel Mills</b>								
<b>TOTAL FUEL CONSUMPTION</b>									
<b>Indirect Uses-Boiler Fuel</b>		1,147	175	19	3	326	*	14	609
Conventional Boiler Use	--	*	4	*	27	0	1	--	--
CHP and/or Cogeneration Process	--	*	*	*	14	0	0	--	--
<b>Direct Uses-Total Process</b>									
Process Heating	--	162	11	1	285	*	14	--	--
Process Cooling and Refrigeration	--	76	11	*	272	*	4	--	--
Machine Drive	--	1	0	0	*	0	0	--	--
Electro-Chemical Processes	--	77	0	*	5	*	0	--	--
Other Process Use	--	6	--	--	--	--	--	--	--
<b>Direct Uses-Total Nonprocess</b>									
Facility HVAC (g)	--	12	0	2	15	*	0	--	--
Facility Lighting	--	5	0	*	14	*	0	--	--
Other Facility Support	--	6	--	--	--	--	--	--	--
Onsite Transportation	--	1	0	0	1	*	0	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--	--
Other Nonprocess Use	--	*	0	*	*	*	0	--	--
<b>End Use Not Reported</b>		612	*	4	0	*	*	0	609
<b>33112</b>	<b>Electrometallurgical Ferroalloy Products</b>								
<b>TOTAL FUEL CONSUMPTION</b>									
		17	11	0	*	1	*	2	3

**Table 5.2 End Uses of Fuel Consumption, 2006;**

### Level: National Data;

**Row: End Uses within NAICS Codes;**

## Row: End Uses Within Final Sector; Column: Energy Sources, Including Net Electricity;

Unit: Trillion Btu.

3312 Steel Products from Purchased Steel

<b>TOTAL FUEL CONSUMPTION</b>	43	15	0	*	26	*	*	2
<b>Indirect Uses-Boiler Fuel</b>	--	*	0	*	3	0	*	--
Conventional Boiler Use	--	*	0	*	3	0	*	--
CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
<b>Direct Uses-Total Process</b>	--	13	0	*	18	*	0	--
Process Heating	--	4	0	*	18	*	0	--
Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
Machine Drive	--	8	0	*	*	*	0	--
Electro-Chemical Processes	--	*	--	--	--	--	--	--
Other Process Use	--	*	0	*	*	*	0	--
<b>Direct Uses-Total Nonprocess</b>	--	2	0	*	4	*	0	--
Facility HVAC (g)	--	1	0	0	3	*	0	--
Facility Lighting	--	1	--	--	--	--	--	--
Other Facility Support	--	*	0	*	*	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	0	*	*	0	--
<b>End Use Not Reported</b>	2	*	0	0	*	*	0	2

### 3313 Alumina and Aluminum

<b>TOTAL FUEL CONSUMPTION</b>	273	152	*	1	116	1	*	3
<b>Indirect Uses-Boiler Fuel</b>	--	*	*	*	18	*	0	--
Conventional Boiler Use	--	*	*	*	4	*	0	--
CHP and/or Cogeneration Process	--	--	0	0	14	0	0	--
<b>Direct Uses-Total Process</b>	--	146	*	*	91	1	*	--
Process Heating	--	6	*	*	87	1	*	--
Process Cooling and Refrigeration	--	1	0	0	2	0	0	--
Machine Drive	--	18	0	*	1	*	0	--
Electro-Chemical Processes	--	120	--	--	--	--	--	--
Other Process Use	--	*	0	*	1	*	0	--
<b>Direct Uses-Total Nonprocess</b>	--	6	0	1	5	*	0	--
Facility HVAC (q)	--	2	0	*	4	*	0	--
Facility Lighting	--	3	--	--	--	--	--	--
Other Facility Support	--	1	0	*	1	*	0	--
Onsite Transportation	--	*	--	*	*	*	--	--
Conventional Electricity Generation	--	--	0	*	0	0	0	--
Other Nonprocess Use	--	*	0	*	0	*	0	--
<b>End Use Not Reported</b>	5	*	0	0	2	*	0	3

## 331314 Secondary Smelting and Alloying of Aluminum

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)
<b>TOTAL FUEL CONSUMPTION</b>									
Indirect Uses-Boiler Fuel		21	2	*	*	18	*	*	*
Conventional Boiler Use		--	*	0	0	*	0	0	--
CHP and/or Cogeneration Process		--	*	0	0	*	0	0	--
Direct Uses-Total Process		--	2	*	*	18	*	*	--
Process Heating		--	*	*	0	16	*	*	--
Process Cooling and Refrigeration		--	*	0	0	1	0	0	--
Machine Drive		--	1	0	*	*	*	0	--
Electro-Chemical Processes		--	*	--	--	--	--	--	--
Other Process Use		--	*	0	0	0	0	0	--
Direct Uses-Total Nonprocess		--	*	0	*	*	*	0	--
Facility HVAC (g)		--	*	0	*	*	*	0	--
Facility Lighting		--	*	--	--	--	--	--	--
Other Facility Support		--	*	0	0	*	*	0	--
Onsite Transportation		--	*	--	*	0	*	0	--
Conventional Electricity Generation		--	--	0	0	0	*	--	--
Other Nonprocess Use		--	*	0	*	0	0	0	--
End Use Not Reported		*	0	0	0	*	*	0	*
331315	Aluminum Sheet, Plate and Folls								
<b>TOTAL FUEL CONSUMPTION</b>									
Indirect Uses-Boiler Fuel		52	13	0	*	37	*	0	2
Conventional Boiler Use		--	*	0	*	1	0	0	--
CHP and/or Cogeneration Process		--	*	0	*	1	0	0	--
Direct Uses-Total Process		--	12	0	*	33	*	0	--
Process Heating		--	3	0	*	32	*	0	--
Process Cooling and Refrigeration		--	*	0	0	*	0	0	--
Machine Drive		--	9	0	*	*	*	0	--
Electro-Chemical Processes		--	*	--	--	--	--	--	--
Other Process Use		--	*	0	*	*	*	0	--
Direct Uses-Total Nonprocess		--	2	0	*	2	*	0	--
Facility HVAC (g)		--	1	0	*	1	0	0	--
Facility Lighting		--	1	--	--	--	--	--	--
Other Facility Support		--	*	0	*	*	0	0	--
Onsite Transportation		--	*	--	*	0	*	--	--
Conventional Electricity Generation		--	--	0	*	0	0	0	--
Other Nonprocess Use		--	*	0	*	0	*	0	--
End Use Not Reported		3	*	0	0	1	0	0	2
331316	Aluminum Extruded Products								
<b>TOTAL FUEL CONSUMPTION</b>									
Indirect Uses-Boiler Fuel		25	7	*	*	17	1	0	*
Conventional Boiler Use		--	*	*	0	1	*	0	--
CHP and/or Cogeneration Process		--	*	*	0	1	*	0	--
Direct Uses-Total Process		--	6	0	*	15	1	0	--
Process Heating		--	1	0	*	14	1	0	--
Process Cooling and Refrigeration		--	*	0	0	*	0	0	--
Machine Drive		--	4	0	*	*	*	0	--
Electro-Chemical Processes		--	*	--	--	--	--	--	--
Other Process Use		--	*	0	0	*	*	0	--
Direct Uses-Total Nonprocess		--	1	0	*	1	*	0	--
Facility HVAC (g)		--	*	0	*	1	*	0	--
Facility Lighting		--	1	--	--	--	--	--	--
Other Facility Support		--	*	0	0	*	*	0	--
Onsite Transportation		--	*	--	*	*	*	--	--
Conventional Electricity Generation		--	--	0	*	0	0	0	--
Other Nonprocess Use		--	*	0	*	0	*	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)
	<b>End Use Not Reported</b>	*	0	0	0	*	*	0	*
<b>3314</b>	<b>Nonferrous Metals, except Aluminum</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	107	49	*	1	43	1	4	9
	<b>Indirect Uses-Boiler Fuel</b>	--	*	*	5	*	*	1	--
	Conventional Boiler Use	--	*	*	5	*	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	1	--
	<b>Direct Uses-Total Process</b>	--	44	*	*	32	1	*	--
	Process Heating	--	15	*	*	30	1	*	--
	Process Cooling and Refrigeration	--	1	0	*	*	*	0	--
	Machine Drive	--	13	0	*	1	*	0	--
	Electro-Chemical Processes	--	14	--	--	--	--	--	--
	Other Process Use	--	1	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	5	*	*	3	*	3	--
	Facility HVAC (g)	--	2	*	*	3	*	0	--
	Facility Lighting	--	2	--	--	--	--	--	--
	Other Facility Support	--	1	0	0	*	*	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	*	3	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	12	*	0	0	3	*	1	9
<b>3315</b>	<b>Foundries</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	158	57	*	1	72	1	0	27
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	*	3	*	0	--
	Conventional Boiler Use	--	*	0	*	3	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>	--	47	*	*	52	*	0	--
	Process Heating	--	26	*	*	50	*	0	--
	Process Cooling and Refrigeration	--	1	0	*	*	0	0	--
	Machine Drive	--	17	0	*	1	*	0	--
	Electro-Chemical Processes	--	2	--	--	--	--	--	--
	Other Process Use	--	1	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	10	*	1	14	*	0	--
	Facility HVAC (g)	--	5	*	*	13	*	0	--
	Facility Lighting	--	3	--	--	--	--	--	--
	Other Facility Support	--	1	*	*	1	*	0	--
	Onsite Transportation	--	*	--	1	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	*	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	30	*	0	*	3	*	0	27
<b>331511</b>	<b>Iron Foundries</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	80	29	*	1	24	*	0	27
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	0	1	*	0	--
	Conventional Boiler Use	--	*	0	0	1	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>	--	24	*	*	15	*	0	--
	Process Heating	--	14	*	*	13	*	0	--
	Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
	Machine Drive	--	8	0	*	*	*	0	--
	Electro-Chemical Processes	--	1	--	--	--	--	--	--
	Other Process Use	--	1	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	5	0	1	7	*	0	--
	Facility HVAC (g)	--	3	0	*	7	*	0	--
	Facility Lighting	--	2	--	--	--	--	--	--
	Other Facility Support	--	1	0	*	*	*	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)				
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	*	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>	<b>27</b>
<b>331521</b>	<b>Aluminum Die-Casting Foundries</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>22</b>	<b>7</b>	<b>0</b>	<b>*</b>	<b>15</b>	<b>*</b>	<b>0</b>	<b>*</b>
	<b>Indirect Uses-Boiler Fuel</b>								
	Conventional Boiler Use	--	*	0	*	1	*	0	--
	CHP and/or Cogeneration Process	--	*	0	*	1	*	0	--
	<b>Direct Uses-Total Process</b>								
	Process Heating	--	5	0	*	12	*	0	--
	Process Cooling and Refrigeration	--	2	0	*	12	*	0	--
	Machine Drive	--	*	0	0	*	0	0	--
	Electro-Chemical Processes	--	3	0	*	*	*	0	--
	Other Process Use	--	*	--	--	--	--	--	--
	<b>Direct Uses-Total Nonprocess</b>								
	Facility HVAC (g)	--	2	0	*	2	*	0	--
	Facility Lighting	--	1	0	0	2	*	0	--
	Other Facility Support	--	*	0	--	--	--	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>*</b>	<b>0</b>	<b>*</b>
<b>331524</b>	<b>Aluminum Foundries, except Die-Casting</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>17</b>	<b>4</b>	<b>*</b>	<b>*</b>	<b>13</b>	<b>*</b>	<b>0</b>	<b>*</b>
	<b>Indirect Uses-Boiler Fuel</b>								
	Conventional Boiler Use	--	*	0	0	*	0	0	--
	CHP and/or Cogeneration Process	--	*	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>								
	Process Heating	--	3	*	*	11	*	0	--
	Process Cooling and Refrigeration	--	1	*	0	11	*	0	--
	Machine Drive	--	*	0	0	*	*	0	--
	Electro-Chemical Processes	--	2	0	0	*	*	0	--
	Other Process Use	--	*	--	--	--	--	0	--
	<b>Direct Uses-Total Nonprocess</b>								
	Facility HVAC (g)	--	1	*	*	2	*	0	--
	Facility Lighting	--	*	--	--	--	--	0	--
	Other Facility Support	--	*	*	*	*	*	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	*	0	0	0	*	0	--
	<b>End Use Not Reported</b>	<b>1</b>	<b>*</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>*</b>	<b>0</b>	<b>*</b>
<b>332</b>	<b>FABRICATED METAL PRODUCTS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>397</b>	<b>143</b>	<b>*</b>	<b>2</b>	<b>240</b>	<b>4</b>	<b>0</b>	<b>Q</b>
	<b>Indirect Uses-Boiler Fuel</b>								
	Conventional Boiler Use	--	1	*	*	37	0	0	--
	CHP and/or Cogeneration Process	--	1	*	*	35	0	0	--
	<b>Direct Uses-Total Process</b>								
	Process Heating	--	--	0	0	Q	0	0	--
	Process Cooling and Refrigeration	--	110	0	Q	158	1	0	--
	Machine Drive	--	28	0	Q	155	Q	0	--
	Electro-Chemical Processes	--	5	0	0	Q	0	0	--
	Other Process Use	--	70	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>								
	Facility HVAC (g)	--	3	--	--	--	--	0	--
	Facility Lighting	--	4	0	*	Q	*	0	--
	Other Facility Support	--	31	*	2	38	3	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)				
	Facility HVAC (g)	--	14	*	*	35	1	0	--
	Facility Lighting	--	13	--	--	--	--	--	--
	Other Facility Support	--	3	0	*	2	*	0	--
	Onsite Transportation	--	*	--	1	*	3	--	--
	Conventional Electricity Generation	--	--	0	*	*	*	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	<b>15</b>	<b>1</b>	<b>0</b>	<b>*</b>	<b>Q</b>	<b>*</b>	<b>0</b>	<b>Q</b>
<b>333</b>	<b>MACHINERY</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>204</b>	<b>111</b>	<b>Q</b>	<b>2</b>	<b>84</b>	<b>3</b>	<b>1</b>	<b>2</b>
	<b>Indirect Uses-Boiler Fuel</b>	--	Q	Q	*	21	0	1	--
	Conventional Boiler Use	--	Q	Q	*	16	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	Q	0	1	--
	<b>Direct Uses-Total Process</b>	--	63	0	*	29	*	0	--
	Process Heating	--	7	0	*	25	*	0	--
	Process Cooling and Refrigeration	--	3	0	*	*	0	0	--
	Machine Drive	--	50	0	*	*	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	2	0	*	Q	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	45	0	1	33	3	0	--
	Facility HVAC (g)	--	25	0	*	31	Q	0	--
	Facility Lighting	--	16	--	--	--	--	--	--
	Other Facility Support	--	3	0	*	Q	*	0	--
	Onsite Transportation	--	1	--	*	*	1	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	Q	0	1	*	*	0	--
	<b>End Use Not Reported</b>	<b>6</b>	<b>Q</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>*</b>	<b>0</b>	<b>2</b>
<b>334</b>	<b>COMPUTER AND ELECTRONIC PRODUCTS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>141</b>	<b>94</b>	<b>*</b>	<b>1</b>	<b>45</b>	<b>*</b>	<b>0</b>	<b>1</b>
	<b>Indirect Uses-Boiler Fuel</b>	--	1	*	*	19	*	0	--
	Conventional Boiler Use	--	1	*	*	19	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>	--	48	0	*	4	*	0	--
	Process Heating	--	10	0	*	3	*	0	--
	Process Cooling and Refrigeration	--	10	0	*	*	0	0	--
	Machine Drive	--	19	0	*	*	*	0	--
	Electro-Chemical Processes	--	1	--	--	--	--	--	--
	Other Process Use	--	7	0	*	1	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	45	*	1	18	*	0	--
	Facility HVAC (g)	--	26	*	*	17	*	0	--
	Facility Lighting	--	11	--	--	--	--	--	--
	Other Facility Support	--	6	0	*	*	*	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	*	0	--
	Other Nonprocess Use	--	2	0	*	1	*	0	--
	<b>End Use Not Reported</b>	<b>Q</b>	<b>*</b>	<b>0</b>	<b>*</b>	<b>Q</b>	<b>*</b>	<b>0</b>	<b>1</b>
<b>334413</b>	<b>Semiconductors and Related Devices</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	<b>63</b>	<b>43</b>	<b>*</b>	<b>*</b>	<b>19</b>	<b>*</b>	<b>0</b>	<b>1</b>
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	*	9	0	0	--
	Conventional Boiler Use	--	*	0	*	9	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>	--	28	0	*	2	*	0	--
	Process Heating	--	6	0	*	1	*	0	--
	Process Cooling and Refrigeration	--	6	0	*	*	0	0	--
	Machine Drive	--	9	0	0	*	*	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)
	Electro-Chemical Processes	--	1	--	--	--	--	--	--
	Other Process Use	--	6	0	*	1	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	16	*	*	8	*	0	--
	Facility HVAC (g)	--	10	*	*	7	*	0	--
	Facility Lighting	--	3	--	--	--	--	--	--
	Other Facility Support	--	2	0	0	*	*	0	--
	Onsite Transportation	--	*	--	0	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	1	0	0	*	*	*	0	1
335	<b>ELEC. EQUIP., APPLIANCES, COMPONENTS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	87	44	0	Q	41	1	0	Q
	<b>Indirect Uses-Boiler Fuel</b>	--	*	0	0	7	0	0	--
	Conventional Boiler Use	--	*	0	0	7	0	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	30	0	*	25	*	0	--
	Process Heating	--	10	0	*	23	*	0	--
	Process Cooling and Refrigeration	--	2	0	*	Q	0	0	--
	Machine Drive	--	16	0	*	0	*	0	--
	Electro-Chemical Processes	--	Q	--	--	--	--	--	--
	Other Process Use	--	1	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	13	0	*	9	1	0	--
	Facility HVAC (g)	--	6	0	*	8	*	0	--
	Facility Lighting	--	5	--	--	--	--	--	--
	Other Facility Support	--	2	0	*	*	0	0	--
	Onsite Transportation	--	*	--	*	*	1	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	*	0	*	0	*	0	--
	<b>End Use Not Reported</b>	2	Q	0	*	Q	*	0	Q
336	<b>TRANSPORTATION EQUIPMENT</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	479	195	7	3	249	4	5	17
	<b>Indirect Uses-Boiler Fuel</b>	--	2	6	*	42	*	5	--
	Conventional Boiler Use	--	2	4	*	37	*	5	--
	CHP and/or Cogeneration Process	--	--	2	*	4	0	*	--
	<b>Direct Uses-Total Process</b>	--	117	*	Q	114	1	0	--
	Process Heating	--	26	*	*	75	Q	0	--
	Process Cooling and Refrigeration	--	12	*	0	2	*	0	--
	Machine Drive	--	72	*	Q	3	*	0	--
	Electro-Chemical Processes	--	2	--	--	--	--	--	--
	Other Process Use	--	5	0	*	Q	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	75	Q	2	89	2	0	--
	Facility HVAC (g)	--	37	Q	*	85	*	0	--
	Facility Lighting	--	28	--	--	--	--	--	--
	Other Facility Support	--	7	*	*	Q	*	0	--
	Onsite Transportation	--	1	--	1	*	2	--	--
	Conventional Electricity Generation	--	--	0	*	*	*	0	--
	Other Nonprocess Use	--	1	*	*	*	*	0	--
	<b>End Use Not Reported</b>	22	1	0	*	4	*	*	17
336111	<b>Automobiles</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	39	13	*	*	21	*	2	2
	<b>Indirect Uses-Boiler Fuel</b>	--	*	*	0	3	0	2	--
	Conventional Boiler Use	--	*	*	0	3	0	2	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>	--	7	0	*	13	*	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)				
	Process Heating	--	1	0	0	11	*	0	--
	Process Cooling and Refrigeration	--	1	0	0	1	0	0	--
	Machine Drive	--	5	0	*	*	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	1	0	*	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	6	0	*	5	*	0	--
	Facility HVAC (g)	--	3	0	*	5	*	0	--
	Facility Lighting	--	2	--	--	--	--	--	--
	Other Facility Support	--	*	0	*	*	0	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	*	0	*	0	0	0	--
	<b>End Use Not Reported</b>	3	*	0	*	1	*	*	2
336112	Light Trucks and Utility Vehicles								
	<b>TOTAL FUEL CONSUMPTION</b>	43	15	*	*	25	*	1	1
	<b>Indirect Uses-Boiler Fuel</b>	--	*	*	*	6	*	1	--
	Conventional Boiler Use	--	*	*	*	6	*	1	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	10	0	*	12	*	0	--
	Process Heating	--	*	0	0	11	*	0	--
	Process Cooling and Refrigeration	--	1	0	0	*	*	0	--
	Machine Drive	--	7	0	*	*	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	1	0	*	*	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	6	0	*	7	*	0	--
	Facility HVAC (g)	--	3	0	*	7	*	0	--
	Facility Lighting	--	2	--	--	--	--	--	--
	Other Facility Support	--	1	0	*	*	0	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	*	0	*	0	*	0	--
	<b>End Use Not Reported</b>	1	*	0	*	*	*	0	1
3364	Aerospace Products								
	<b>TOTAL FUEL CONSUMPTION</b>	77	39	3	1	30	*	*	3
	<b>Indirect Uses-Boiler Fuel</b>	--	1	3	*	14	*	*	--
	Conventional Boiler Use	--	1	1	*	10	*	*	--
	CHP and/or Cogeneration Process	--	--	2	*	4	0	0	--
	<b>Direct Uses-Total Process</b>	--	18	*	*	7	*	0	--
	Process Heating	--	5	*	*	4	*	0	--
	Process Cooling and Refrigeration	--	3	*	0	*	*	0	--
	Machine Drive	--	9	*	*	Q	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	1	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	20	*	*	8	*	0	--
	Facility HVAC (g)	--	11	*	*	7	*	0	--
	Facility Lighting	--	7	--	--	--	--	--	--
	Other Facility Support	--	2	*	*	*	*	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	*	0	--
	Other Nonprocess Use	--	*	0	*	*	*	0	--
	<b>End Use Not Reported</b>	5	*	0	*	2	*	0	3
336411	Aircraft								
	<b>TOTAL FUEL CONSUMPTION</b>	20	12	*	*	8	*	0	*
	<b>Indirect Uses-Boiler Fuel</b>	--	*	*	*	5	*	0	--

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)		LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)	Other(f)
					Natural Gas(d)				
	Conventional Boiler Use	--	*	*	*	5	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	5	0	*	2	*	0	--
	Process Heating	--	1	0	*	1	*	0	--
	Process Cooling and Refrigeration	--	1	0	0	*	0	0	--
	Machine Drive	--	2	0	*	*	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	0	0	0	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	7	0	*	2	*	0	--
	Facility HVAC (g)	--	3	0	*	2	*	0	--
	Facility Lighting	--	3	--	--	--	--	--	--
	Other Facility Support	--	1	0	0	*	0	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	*	0	*	0	*	0	--
	<b>End Use Not Reported</b>	*	*	0	*	0	*	0	*
<b>337</b>	<b>FURNITURE AND RELATED PRODUCTS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	60	32	*	Q	17	1	3	7
	<b>Indirect Uses-Boiler Fuel</b>	--	*	*	Q	1	*	1	--
	Conventional Boiler Use	--	*	*	Q	1	*	1	--
	CHP and/or Cogeneration Process	--	--	0	0	*	0	0	--
	<b>Direct Uses-Total Process</b>	--	15	0	*	7	*	0	--
	Process Heating	--	2	0	*	7	*	0	--
	Process Cooling and Refrigeration	--	*	0	0	*	0	0	--
	Machine Drive	--	13	0	*	*	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	*	0	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	10	*	Q	7	*	1	--
	Facility HVAC (g)	--	4	*	*	7	*	1	--
	Facility Lighting	--	4	--	--	--	--	--	--
	Other Facility Support	--	1	0	0	*	0	0	--
	Onsite Transportation	--	*	--	*	*	*	--	--
	Conventional Electricity Generation	--	--	0	*	0	0	0	--
	Other Nonprocess Use	--	*	0	*	0	*	0	--
	<b>End Use Not Reported</b>	15	Q	0	0	Q	*	Q	7
<b>339</b>	<b>MISCELLANEOUS</b>								
	<b>TOTAL FUEL CONSUMPTION</b>	66	33	Q	*	25	1	0	Q
	<b>Indirect Uses-Boiler Fuel</b>	--	1	Q	0	4	*	0	--
	Conventional Boiler Use	--	1	Q	0	4	*	0	--
	CHP and/or Cogeneration Process	--	--	0	0	0	0	0	--
	<b>Direct Uses-Total Process</b>	--	17	*	*	6	*	0	--
	Process Heating	--	3	*	*	5	*	0	--
	Process Cooling and Refrigeration	--	2	0	0	*	0	0	--
	Machine Drive	--	11	0	*	*	*	0	--
	Electro-Chemical Processes	--	*	--	--	--	--	--	--
	Other Process Use	--	*	0	*	1	*	0	--
	<b>Direct Uses-Total Nonprocess</b>	--	15	*	*	14	*	0	--
	Facility HVAC (g)	--	8	*	*	13	*	0	--
	Facility Lighting	--	6	--	--	--	--	--	--
	Other Facility Support	--	2	0	0	1	*	0	--
	Onsite Transportation	--	*	--	*	0	*	--	--
	Conventional Electricity Generation	--	--	0	*	*	0	0	--
	Other Nonprocess Use	--	0	0	*	*	*	0	--
	<b>End Use Not Reported</b>	Q	*	0	*	Q	*	0	Q

(a) The Bureau of the Census classifies establishments using the North American

**Table 5.2 End Uses of Fuel Consumption, 2006;**

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)
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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.

(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, '2006 Manufacturing Energy Consumption Survey.'

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
Total United States							
311 - 339	ALL MANUFACTURING INDUSTRIES						
	<b>TOTAL FUEL CONSUMPTION</b>	977,338	40	22	5,357	21	46
	Indirect Uses-Boiler Fuel	24,584	21	4	2,059	2	25
	Conventional Boiler Use	24,584	11	3	1,245	2	6
	CHP and/or Cogeneration Process	0	10	1	814	*	19
	<b>Direct Uses-Total Process</b>	773,574	10	9	2,709	10	19
	Process Heating	111,205	9	3	2,417	8	16
	Process Cooling and Refrigeration	66,339	*	*	31	*	*
	Machine Drive	507,223	*	4	126	*	3
	Electro-Chemical Processes	74,825	--	--	--	--	--
	Other Process Use	13,983	*	1	136	1	*
	<b>Direct Uses-Total Nonprocess</b>	170,536	1	9	426	7	*
	Facility HVAC (g)	83,480	1	1	367	1	*
	Facility Lighting	62,902	--	--	--	--	--
	Other Facility Support	19,187	*	*	29	*	*
	Onsite Transportation	2,291	--	6	3	5	--
	Conventional Electricity Generation	--	*	1	19	*	*
	Other Nonprocess Use	2,676	*	1	8	*	*
	<b>End Use Not Reported</b>	8,643	8	1	164	1	2
311	FOOD						
	<b>TOTAL FUEL CONSUMPTION</b>	78,003	4	3	618	1	7
	Indirect Uses-Boiler Fuel	2,123	4	1	344	*	6
	Conventional Boiler Use	2,123	3	1	319	*	1
	CHP and/or Cogeneration Process	0	1	*	26	*	5
	<b>Direct Uses-Total Process</b>	60,940	*	1	225	*	*
	Process Heating	4,696	*	*	203	*	*
	Process Cooling and Refrigeration	20,270	*	*	2	0	0
	Machine Drive	35,339	*	*	10	*	0
	Electro-Chemical Processes	113	--	--	--	--	--
	Other Process Use	520	*	*	10	*	0
	<b>Direct Uses-Total Nonprocess</b>	14,055	*	1	39	*	*
	Facility HVAC (g)	6,217	*	*	29	*	*
	Facility Lighting	5,472	--	--	--	--	--
	Other Facility Support	1,872	*	*	8	*	0
	Onsite Transportation	237	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	258	0	*	1	*	0
	<b>End Use Not Reported</b>	885	*	*	9	*	*
3112	Grain and Oilseed Milling						
	<b>TOTAL FUEL CONSUMPTION</b>	18,310	*	*	115	*	5
	Indirect Uses-Boiler Fuel	692	*	*	63	*	4

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Conventional Boiler Use	692	*	*	54	*	1
	CHP and/or Cogeneration Process	0	0	*	8	0	4
	<b>Direct Uses-Total Process</b>	<b>15,742</b>	<b>0</b>	<b>*</b>	<b>48</b>	<b>*</b>	<b>*</b>
	Process Heating	422	0	*	44	*	*
	Process Cooling and Refrigeration	1,568	0	0	0	0	0
	Machine Drive	13,667	0	*	2	*	0
	Electro-Chemical Processes	4	--	--	--	--	--
	Other Process Use	80	0	*	1	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>1,489</b>	<b>0</b>	<b>*</b>	<b>3</b>	<b>*</b>	<b>*</b>
	Facility HVAC (g)	676	0	*	3	*	*
	Facility Lighting	624	--	--	--	--	--
	Other Facility Support	165	0	*	*	*	0
	Onsite Transportation	24	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	Q	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>387</b>	<b>0</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>*</b>
311221	<b>Wet Corn Milling</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>9,142</b>	<b>*</b>	<b>*</b>	<b>51</b>	<b>*</b>	<b>4</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>470</b>	<b>*</b>	<b>*</b>	<b>23</b>	<b>*</b>	<b>4</b>
	Conventional Boiler Use	470	*	0	17	*	1
	CHP and/or Cogeneration Process	0	0	*	6	0	3
	<b>Direct Uses-Total Process</b>	<b>7,849</b>	<b>0</b>	<b>*</b>	<b>27</b>	<b>*</b>	<b>*</b>
	Process Heating	103	0	*	27	*	*
	Process Cooling and Refrigeration	1,061	0	0	0	0	0
	Machine Drive	6,665	0	*	0	*	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	21	0	*	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>435</b>	<b>0</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	210	0	0	1	*	0
	Facility Lighting	185	--	--	--	--	--
	Other Facility Support	40	0	*	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	0	0	*	0	0	0
	<b>End Use Not Reported</b>	<b>387</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>*</b>
31131	<b>Sugar</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>1,919</b>	<b>1</b>	<b>*</b>	<b>17</b>	<b>*</b>	<b>1</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>78</b>	<b>1</b>	<b>*</b>	<b>12</b>	<b>*</b>	<b>1</b>
	Conventional Boiler Use	78	0	*	2	0	*
	CHP and/or Cogeneration Process	0	1	*	10	*	1
	<b>Direct Uses-Total Process</b>	<b>1,491</b>	<b>*</b>	<b>*</b>	<b>4</b>	<b>*</b>	<b>*</b>
	Process Heating	39	*	*	4	0	*
	Process Cooling and Refrigeration	30	0	0	0	0	0
	Machine Drive	1,419	0	*	*	0	0
	Electro-Chemical Processes	3	--	--	--	--	--

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Other Process Use	0	0	0	0	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>349</b>	<b>0</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>*</b>
	Facility HVAC (g)	111	0	0	*	*	*
	Facility Lighting	121	--	--	--	--	--
	Other Facility Support	14	0	0	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	103	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>0</b>
3114	Fruit and Vegetable Preserving and Specialty Foods						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>9,976</b>	<b>*</b>	<b>*</b>	<b>123</b>	<b>*</b>	<b>*</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>255</b>	<b>*</b>	<b>*</b>	<b>88</b>	<b>*</b>	<b>*</b>
	Conventional Boiler Use	255	*	*	85	*	*
	CHP and/or Cogeneration Process	0	0	0	4	0	0
	<b>Direct Uses-Total Process</b>	<b>7,951</b>	<b>*</b>	<b>*</b>	<b>27</b>	<b>*</b>	<b>0</b>
	Process Heating	793	*	*	26	*	0
	Process Cooling and Refrigeration	3,728	0	*	*	0	0
	Machine Drive	3,388	0	*	1	*	0
	Electro-Chemical Processes	8	--	--	--	--	--
	Other Process Use	34	*	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>1,759</b>	<b>*</b>	<b>*</b>	<b>8</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	714	*	*	6	*	0
	Facility Lighting	739	--	--	--	--	--
	Other Facility Support	226	0	*	2	*	0
	Onsite Transportation	56	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	Q	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>Q</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>0</b>	<b>0</b>
3115	Dairy Products						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>10,123</b>	<b>*</b>	<b>*</b>	<b>80</b>	<b>*</b>	<b>*</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>186</b>	<b>*</b>	<b>*</b>	<b>36</b>	<b>*</b>	<b>0</b>
	Conventional Boiler Use	186	*	*	35	*	0
	CHP and/or Cogeneration Process	0	0	*	1	0	0
	<b>Direct Uses-Total Process</b>	<b>7,937</b>	<b>*</b>	<b>*</b>	<b>37</b>	<b>*</b>	<b>0</b>
	Process Heating	498	*	*	30	*	0
	Process Cooling and Refrigeration	3,204	0	*	*	0	0
	Machine Drive	4,022	0	*	2	*	0
	Electro-Chemical Processes	31	--	--	--	--	--
	Other Process Use	Q	0	*	5	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>1,967</b>	<b>*</b>	<b>*</b>	<b>4</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	858	*	*	4	*	0
	Facility Lighting	776	--	--	--	--	--
	Other Facility Support	215	*	*	1	*	0
	Onsite Transportation	53	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Other Nonprocess Use	66	0	*	*	*	0
	<b>End Use Not Reported</b>	Q	0	*	2	*	*
<b>3116</b>	<b>Animal Slaughtering and Processing</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>17,562</b>	<b>1</b>	<b>1</b>	<b>141</b>	<b>*</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>437</b>	<b>*</b>	<b>*</b>	<b>95</b>	<b>*</b>	<b>0</b>
	Conventional Boiler Use	437	*	*	95	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	<b>13,967</b>	<b>*</b>	<b>*</b>	<b>35</b>	<b>*</b>	<b>0</b>
	Process Heating	944	*	*	29	*	0
	Process Cooling and Refrigeration	7,401	*	*	1	0	0
	Machine Drive	5,414	*	*	3	*	0
	Electro-Chemical Processes	18	--	--	--	--	--
	Other Process Use	191	0	*	2	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>3,030</b>	<b>*</b>	<b>*</b>	<b>11</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	1,264	*	*	8	*	0
	Facility Lighting	1,285	--	--	--	--	--
	Other Facility Support	391	*	*	3	*	0
	Onsite Transportation	33	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	58	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>127</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>
<b>312</b>	<b>BEVERAGE AND TOBACCO PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>9,480</b>	<b>*</b>	<b>*</b>	<b>40</b>	<b>*</b>	<b>1</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>81</b>	<b>*</b>	<b>*</b>	<b>29</b>	<b>*</b>	<b>1</b>
	Conventional Boiler Use	81	*	*	26	*	*
	CHP and/or Cogeneration Process	0	0	*	3	0	1
	<b>Direct Uses-Total Process</b>	<b>6,766</b>	<b>*</b>	<b>*</b>	<b>7</b>	<b>*</b>	<b>*</b>
	Process Heating	293	*	0	4	*	0
	Process Cooling and Refrigeration	2,448	0	0	*	0	0
	Machine Drive	3,783	0	*	1	*	*
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	219	0	*	2	*	*
	<b>Direct Uses-Total Nonprocess</b>	<b>2,602</b>	<b>*</b>	<b>*</b>	<b>4</b>	<b>*</b>	<b>*</b>
	Facility HVAC (g)	1,188	*	*	4	*	*
	Facility Lighting	987	--	--	--	--	--
	Other Facility Support	273	0	*	*	*	*
	Onsite Transportation	37	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	118	0	*	*	*	*
	<b>End Use Not Reported</b>	Q	0	*	*	*	0
<b>3121</b>	<b>Beverages</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>8,158</b>	<b>*</b>	<b>*</b>	<b>37</b>	<b>*</b>	<b>1</b>

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	<b>Indirect Uses-Boiler Fuel</b>						
	Conventional Boiler Use	66	*	*	27	*	1
	CHP and/or Cogeneration Process	66	*	*	24	*	*
		0	0	*	3	0	1
	<b>Direct Uses-Total Process</b>	6,132	0	*	6	*	*
	Process Heating	254	0	0	4	*	0
	Process Cooling and Refrigeration	2,358	0	0	*	0	0
	Machine Drive	3,281	0	*	1	*	*
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	217	0	*	2	*	*
	<b>Direct Uses-Total Nonprocess</b>	1,930	0	*	4	*	*
	Facility HVAC (g)	731	0	*	4	*	*
	Facility Lighting	823	--	--	--	--	--
	Other Facility Support	224	0	*	*	*	0
	Onsite Transportation	35	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	118	0	*	*	*	*
	<b>End Use Not Reported</b>	Q	0	*	*	*	0
3122	Tobacco						
	<b>TOTAL FUEL CONSUMPTION</b>	1,322	*	*	3	*	*
	<b>Indirect Uses-Boiler Fuel</b>	15	*	*	2	*	*
	Conventional Boiler Use	15	*	*	2	*	*
	CHP and/or Cogeneration Process	0	0	0	0	0	*
	<b>Direct Uses-Total Process</b>	634	*	*	*	*	0
	Process Heating	39	*	0	*	0	0
	Process Cooling and Refrigeration	90	0	0	*	0	0
	Machine Drive	502	0	*	*	*	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	3	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	673	*	*	*	*	*
	Facility HVAC (g)	457	*	*	*	*	*
	Facility Lighting	164	--	--	--	--	--
	Other Facility Support	49	0	0	*	*	*
	Onsite Transportation	2	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	0	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	0	0	*	0
313	TEXTILE MILLS						
	<b>TOTAL FUEL CONSUMPTION</b>	19,753	*	*	63	*	1
	<b>Indirect Uses-Boiler Fuel</b>	188	*	*	33	*	1
	Conventional Boiler Use	188	*	*	33	*	1
	CHP and/or Cogeneration Process	0	0	*	*	0	Q
	<b>Direct Uses-Total Process</b>	15,234	*	*	22	*	0
	Process Heating	1,942	*	0	21	*	0
	Process Cooling and Refrigeration	2,622	*	0	0	0	0
	Machine Drive	10,480	*	*	Q	*	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	Q	*	0	Q	0	0
	<b>Direct Uses-Total Nonprocess</b>	4,332	*	*	8	*	0
	Facility HVAC (g)	2,211	*	*	7	*	0
	Facility Lighting	1,660	--	--	--	--	--
	Other Facility Support	363	*	*	*	0	0
	Onsite Transportation	53	--	*	Q	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	Q	0	*	0	0	0
	<b>End Use Not Reported</b>	0	0	0	*	*	0
314	<b>TEXTILE PRODUCT MILLS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	5,972	*	*	45	*	*
	<b>Indirect Uses-Boiler Fuel</b>	Q	*	*	16	*	*
	Conventional Boiler Use	Q	*	*	15	*	*
	CHP and/or Cogeneration Process	0	0	*	*	0	0
	<b>Direct Uses-Total Process</b>	3,941	0	0	Q	*	*
	Process Heating	647	0	0	Q	*	*
	Process Cooling and Refrigeration	505	0	0	Q	0	0
	Machine Drive	2,568	0	0	*	*	0
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	210	0	0	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	1,763	0	*	3	*	*
	Facility HVAC (g)	818	0	*	3	*	*
	Facility Lighting	599	--	--	--	--	--
	Other Facility Support	210	0	0	*	0	0
	Onsite Transportation	132	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	5	0	*	*	*	0
	<b>End Use Not Reported</b>	Q	0	0	Q	*	*
315	<b>APPAREL</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	2,060	*	*	7	*	0
	<b>Indirect Uses-Boiler Fuel</b>	Q	*	*	4	*	0
	Conventional Boiler Use	Q	*	*	4	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	895	0	0	2	*	0
	Process Heating	107	0	0	Q	*	0
	Process Cooling and Refrigeration	Q	0	0	*	0	0
	Machine Drive	679	0	0	Q	0	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	Q	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	1,102	0	*	1	*	0
	Facility HVAC (g)	624	0	0	1	0	0
	Facility Lighting	369	--	--	--	--	--
	Other Facility Support	101	0	0	*	0	0
	Onsite Transportation	Q	--	0	0	*	--

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	Q	0	0	0	0	0
	<b>End Use Not Reported</b>	Q	0	*	*	*	0
<b>316</b>	<b>LEATHER AND ALLIED PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	413	*	*	1	*	0
	<b>Indirect Uses-Boiler Fuel</b>	3	*	*	0	0	0
	Conventional Boiler Use	3	*	*	0	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	225	0	0	1	*	0
	Process Heating	20	0	0	1	*	0
	Process Cooling and Refrigeration	7	0	0	*	0	0
	Machine Drive	194	0	0	*	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	Q	0	0	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	146	0	*	*	*	0
	Facility HVAC (g)	51	0	*	*	*	0
	Facility Lighting	68	--	--	--	--	--
	Other Facility Support	14	0	0	*	*	0
	Onsite Transportation	Q	--	0	*	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	12	0	*	0	0	0
	<b>End Use Not Reported</b>	37	0	0	*	0	0
<b>321</b>	<b>WOOD PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	28,911	1	3	84	1	Q
	<b>Indirect Uses-Boiler Fuel</b>	672	*	*	24	*	*
	Conventional Boiler Use	672	*	*	15	*	*
	CHP and/or Cogeneration Process	0	0	*	9	*	*
	<b>Direct Uses-Total Process</b>	23,881	*	*	51	*	Q
	Process Heating	2,158	*	*	46	*	Q
	Process Cooling and Refrigeration	379	0	*	*	0	0
	Machine Drive	21,080	*	*	Q	*	0
	Electro-Chemical Processes	150	--	--	--	--	--
	Other Process Use	113	*	*	3	*	0
	<b>Direct Uses-Total Nonprocess</b>	3,759	*	2	7	1	0
	Facility HVAC (g)	1,327	*	*	6	*	0
	Facility Lighting	1,940	--	--	--	--	--
	Other Facility Support	419	*	*	*	*	0
	Onsite Transportation	40	--	2	*	1	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	33	0	*	*	*	0
	<b>End Use Not Reported</b>	599	*	*	2	*	*
<b>321113</b>	<b>Sawmills</b>						

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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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)
	<b>TOTAL FUEL CONSUMPTION</b>	8,691	*	1	12	*	0
	<b>Indirect Uses-Boiler Fuel</b>	292	*	*	Q	*	0
	Conventional Boiler Use	292	*	*	Q	*	0
	CHP and/or Cogeneration Process	0	0	*	*	0	0
	<b>Direct Uses-Total Process</b>	7,273	*	*	4	*	0
	Process Heating	758	*	*	4	*	0
	Process Cooling and Refrigeration	65	0	*	0	0	0
	Machine Drive	6,420	0	*	*	*	0
	Electro-Chemical Processes	10	--	--	--	--	--
	Other Process Use	20	0	*	0	*	0
	<b>Direct Uses-Total Nonprocess</b>	951	*	1	*	*	0
	Facility HVAC (g)	322	*	*	*	*	0
	Facility Lighting	487	--	--	--	--	--
	Other Facility Support	120	0	*	*	*	0
	Onsite Transportation	12	--	1	*	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	10	0	*	0	*	0
	<b>End Use Not Reported</b>	175	0	*	1	*	0
3212	<b>Veneer, Plywood, and Engineered Woods</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	9,976	*	*	44	1	*
	<b>Indirect Uses-Boiler Fuel</b>	316	*	*	14	*	*
	Conventional Boiler Use	316	*	*	5	*	*
	CHP and/or Cogeneration Process	0	0	0	9	0	*
	<b>Direct Uses-Total Process</b>	8,192	*	*	26	*	*
	Process Heating	657	*	*	22	*	*
	Process Cooling and Refrigeration	122	0	0	0	0	0
	Machine Drive	7,257	0	*	Q	*	0
	Electro-Chemical Processes	94	--	--	--	--	--
	Other Process Use	62	0	*	3	*	0
	<b>Direct Uses-Total Nonprocess</b>	1,179	0	*	1	1	0
	Facility HVAC (g)	478	0	*	1	*	0
	Facility Lighting	575	--	--	--	--	--
	Other Facility Support	121	0	*	*	*	0
	Onsite Transportation	Q	--	*	0	1	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	Q	0	*	*	0	0
	<b>End Use Not Reported</b>	288	0	*	1	*	*
3219	<b>Other Wood Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	9,779	*	1	27	*	Q
	<b>Indirect Uses-Boiler Fuel</b>	54	*	*	3	*	0
	Conventional Boiler Use	54	*	*	3	*	0
	CHP and/or Cogeneration Process	0	0	0	0	*	0
	<b>Direct Uses-Total Process</b>	8,039	*	*	Q	*	Q
	Process Heating	715	0	*	Q	*	Q
	Process Cooling and Refrigeration	166	0	0	*	0	0

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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)
	Machine Drive	7,089	*	*	*	*	0
	Electro-Chemical Processes	44	--	--	--	--	--
	Other Process Use	24	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>1,554</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	495	0	*	4	*	0
	Facility Lighting	851	--	--	--	--	--
	Other Facility Support	163	0	*	*	*	0
	Onsite Transportation	24	--	1	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	Q	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>132</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>
322	<b>PAPER</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>122,168</b>	<b>15</b>	<b>2</b>	<b>461</b>	<b>1</b>	<b>10</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>9,088</b>	<b>W</b>	<b>1</b>	<b>269</b>	<b>*</b>	<b>9</b>
	Conventional Boiler Use	9,088	W	*	117	*	1
	CHP and/or Cogeneration Process	0	7	*	153	*	8
	<b>Direct Uses-Total Process</b>	<b>100,228</b>	<b>4</b>	<b>*</b>	<b>138</b>	<b>*</b>	<b>W</b>
	Process Heating	5,142	4	*	120	*	W
	Process Cooling and Refrigeration	1,929	*	0	2	0	*
	Machine Drive	90,625	*	*	12	*	*
	Electro-Chemical Processes	1,227	--	--	--	--	--
	Other Process Use	1,305	0	*	4	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>11,721</b>	<b>*</b>	<b>*</b>	<b>17</b>	<b>1</b>	<b>*</b>
	Facility HVAC (g)	5,278	*	*	13	*	*
	Facility Lighting	4,806	--	--	--	--	--
	Other Facility Support	1,303	*	*	1	*	*
	Onsite Transportation	193	--	*	*	1	--
	Conventional Electricity Generation	--	*	*	3	*	*
	Other Nonprocess Use	142	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>1,132</b>	<b>W</b>	<b>*</b>	<b>36</b>	<b>*</b>	<b>W</b>
322110	<b>Pulp Mills</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>6,124</b>	<b>2</b>	<b>1</b>	<b>13</b>	<b>*</b>	<b>*</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>211</b>	<b>1</b>	<b>*</b>	<b>7</b>	<b>*</b>	<b>*</b>
	Conventional Boiler Use	211	*	*	4	*	0
	CHP and/or Cogeneration Process	0	1	*	3	0	*
	<b>Direct Uses-Total Process</b>	<b>4,706</b>	<b>1</b>	<b>*</b>	<b>5</b>	<b>*</b>	<b>0</b>
	Process Heating	264	1	*	5	*	0
	Process Cooling and Refrigeration	115	0	0	0	0	0
	Machine Drive	4,326	0	*	*	0	0
	Electro-Chemical Processes	1	--	--	--	--	0
	Other Process Use	0	0	*	0	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>566</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	259	*	0	*	0	0
	Facility Lighting	205	--	--	--	--	--
	Other Facility Support	102	0	0	*	0	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	0	0	*	0	0	0
	<b>End Use Not Reported</b>	641	*	*	1	0	0
322121	<b>Paper Mills, except Newsprint</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	46,297	8	*	169	*	6
	<b>Indirect Uses-Boiler Fuel</b>	1,917	5	*	92	*	5
	Conventional Boiler Use	1,917	1	*	38	*	*
	CHP and/or Cogeneration Process	0	4	*	54	*	5
	<b>Direct Uses-Total Process</b>	39,665	2	*	64	*	*
	Process Heating	2,414	2	*	53	*	*
	Process Cooling and Refrigeration	676	*	0	2	0	*
	Machine Drive	36,147	*	*	9	*	*
	Electro-Chemical Processes	96	--	--	--	--	--
	Other Process Use	333	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	4,715	*	*	6	*	*
	Facility HVAC (g)	2,168	*	*	4	*	*
	Facility Lighting	1,937	--	--	--	--	--
	Other Facility Support	535	*	*	*	*	*
	Onsite Transportation	36	--	*	*	*	--
	Conventional Electricity Generation	--	*	0	1	0	*
	Other Nonprocess Use	38	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	*	7	*	0
322122	<b>Newsprint Mills</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	10,970	*	*	8	*	1
	<b>Indirect Uses-Boiler Fuel</b>	134	*	*	6	*	1
	Conventional Boiler Use	134	*	*	*	*	0
	CHP and/or Cogeneration Process	0	*	*	6	0	1
	<b>Direct Uses-Total Process</b>	9,864	0	*	2	*	0
	Process Heating	361	0	0	1	*	0
	Process Cooling and Refrigeration	177	0	0	0	0	0
	Machine Drive	8,689	0	*	0	*	0
	Electro-Chemical Processes	637	--	--	--	--	--
	Other Process Use	0	0	*	1	0	0
	<b>Direct Uses-Total Nonprocess</b>	972	*	*	*	*	0
	Facility HVAC (g)	353	*	0	*	0	0
	Facility Lighting	355	--	--	--	--	--
	Other Facility Support	103	*	*	*	0	0
	Onsite Transportation	105	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	55	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	*	0	0
322130	<b>Paperboard Mills</b>						

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	<b>TOTAL FUEL CONSUMPTION</b>	39,305	5	1	138	*	3
	<b>Indirect Uses-Boiler Fuel</b>	4,626	W	1	100	0	2
	Conventional Boiler Use	4,626	W	*	39	0	*
	CHP and/or Cogeneration Process	0	2	*	61	0	2
	<b>Direct Uses-Total Process</b>	32,279	1	*	30	*	W
	Process Heating	1,412	1	*	26	*	W
	Process Cooling and Refrigeration	373	0	0	*	0	0
	Machine Drive	29,267	*	*	3	*	0
	Electro-Chemical Processes	461	--	--	--	--	--
	Other Process Use	767	0	*	2	*	0
	<b>Direct Uses-Total Nonprocess</b>	2,106	*	*	3	*	*
	Facility HVAC (g)	844	*	*	1	*	*
	Facility Lighting	972	--	--	--	--	--
	Other Facility Support	256	0	*	1	*	0
	Onsite Transportation	2	--	*	0	*	--
	Conventional Electricity Generation	--	*	*	1	0	0
	Other Nonprocess Use	31	0	*	0	*	0
	<b>End Use Not Reported</b>	294	W	*	5	*	W
323	<b>PRINTING AND RELATED SUPPORT</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	13,005	*	*	38	*	0
	<b>Indirect Uses-Boiler Fuel</b>	98	0	0	5	*	0
	Conventional Boiler Use	98	0	0	5	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	7,979	0	*	26	*	0
	Process Heating	374	0	0	25	*	0
	Process Cooling and Refrigeration	767	0	0	*	0	0
	Machine Drive	6,738	0	*	Q	*	0
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	49	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	4,653	*	*	7	*	0
	Facility HVAC (g)	2,433	*	*	7	*	0
	Facility Lighting	1,570	--	--	--	--	--
	Other Facility Support	545	*	*	*	*	0
	Onsite Transportation	Q	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	Q	0	*	*	*	0
	<b>End Use Not Reported</b>	275	0	0	Q	*	0
324	<b>PETROLEUM AND COAL PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	60,149	9	4	825	7	2
	<b>Indirect Uses-Boiler Fuel</b>	798	W	1	272	1	*
	Conventional Boiler Use	798	W	*	116	1	*
	CHP and/or Cogeneration Process	0	*	*	156	*	*
	<b>Direct Uses-Total Process</b>	55,138	2	3	529	6	2
	Process Heating	2,226	2	2	490	5	*

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Process Cooling and Refrigeration	3,254	0	*	1	*	0
	Machine Drive	49,323	0	1	16	*	2
	Electro-Chemical Processes	48	--	--	--	--	--
	Other Process Use	Q	0	*	22	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>4,112</b>	<b>0</b>	<b>1</b>	<b>20</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	2,140	0	*	7	*	0
	Facility Lighting	1,400	--	--	--	--	--
	Other Facility Support	494	0	*	1	*	0
	Onsite Transportation	21	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	11	0	0
	Other Nonprocess Use	56	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>Q</b>	<b>W</b>	<b>*</b>	<b>Q</b>	<b>1</b>	<b>0</b>
324110	Petroleum Refineries						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>56,543</b>	<b>8</b>	<b>1</b>	<b>766</b>	<b>7</b>	<b>*</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>718</b>	<b>W</b>	<b>1</b>	<b>249</b>	<b>1</b>	<b>*</b>
	Conventional Boiler Use	718	W	*	93	1	*
	CHP and/or Cogeneration Process	0	--	*	156	*	0
	<b>Direct Uses-Total Process</b>	<b>52,459</b>	<b>1</b>	<b>*</b>	<b>500</b>	<b>6</b>	<b>*</b>
	Process Heating	1,782	1	*	468	5	*
	Process Cooling and Refrigeration	3,150	0	*	1	*	0
	Machine Drive	47,379	0	*	14	*	0
	Electro-Chemical Processes	47	--	--	--	--	--
	Other Process Use	100	0	*	17	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>3,367</b>	<b>0</b>	<b>*</b>	<b>17</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	1,792	0	*	4	*	0
	Facility Lighting	1,165	--	--	--	--	--
	Other Facility Support	375	0	*	1	0	0
	Onsite Transportation	16	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	11	0	0
	Other Nonprocess Use	19	0	*	*	0	0
	<b>End Use Not Reported</b>	<b>0</b>	<b>W</b>	<b>*</b>	<b>*</b>	<b>1</b>	<b>0</b>
324199	Other Petroleum and Coal Products						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>709</b>	<b>0</b>	<b>*</b>	<b>3</b>	<b>*</b>	<b>2</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>
	Conventional Boiler Use	13	0	0	*	*	*
	CHP and/or Cogeneration Process	0	0	0	*	0	*
	<b>Direct Uses-Total Process</b>	<b>491</b>	<b>0</b>	<b>*</b>	<b>2</b>	<b>*</b>	<b>2</b>
	Process Heating	116	0	*	2	*	0
	Process Cooling and Refrigeration	13	0	*	*	0	0
	Machine Drive	360	0	*	*	0	2
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	3	0	0	0	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>204</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	67	0	*	*	*	0
	Facility Lighting	71	--	--	--	--	--

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Other Facility Support	31	0	*	*	0	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	36	0	0	0	*	0
	<b>End Use Not Reported</b>	0	0	*	0	0	0
<b>325</b>	<b>CHEMICALS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>207,107</b>	<b>4</b>	<b>2</b>	<b>1,355</b>	<b>2</b>	<b>8</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>8,897</b>	<b>3</b>	<b>1</b>	<b>802</b>	<b>1</b>	<b>7</b>
	Conventional Boiler Use	8,897	2	1	373	1	2
	CHP and/or Cogeneration Process	0	--	*	429	*	4
	<b>Direct Uses-Total Process</b>	<b>173,056</b>	<b>1</b>	<b>*</b>	<b>496</b>	<b>1</b>	<b>*</b>
	Process Heating	10,337	1	*	377	*	*
	Process Cooling and Refrigeration	16,551	0	*	17	*	0
	Machine Drive	116,401	0	*	63	*	*
	Electro-Chemical Processes	28,032	--	--	--	--	--
	Other Process Use	1,735	0	*	39	1	*
	<b>Direct Uses-Total Nonprocess</b>	<b>23,679</b>	<b>*</b>	<b>1</b>	<b>32</b>	<b>*</b>	<b>*</b>
	Facility HVAC (g)	12,199	*	*	22	*	*
	Facility Lighting	7,598	--	--	--	--	--
	Other Facility Support	3,054	0	*	2	*	0
	Onsite Transportation	268	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	3	*	0
	Other Nonprocess Use	560	*	*	5	*	0
	<b>End Use Not Reported</b>	<b>1,474</b>	<b>0</b>	<b>*</b>	<b>24</b>	<b>*</b>	<b>*</b>
<b>325110</b>	<b>Petrochemicals</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>9,766</b>	<b>1</b>	<b>*</b>	<b>107</b>	<b>*</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>7</b>	<b>1</b>	<b>*</b>	<b>36</b>	<b>0</b>	<b>0</b>
	Conventional Boiler Use	7	1	*	18	0	0
	CHP and/or Cogeneration Process	0	0	*	18	0	0
	<b>Direct Uses-Total Process</b>	<b>8,607</b>	<b>0</b>	<b>*</b>	<b>70</b>	<b>0</b>	<b>0</b>
	Process Heating	1,068	0	*	W	0	0
	Process Cooling and Refrigeration	811	0	0	*	0	0
	Machine Drive	6,176	0	*	W	0	0
	Electro-Chemical Processes	551	--	--	--	--	--
	Other Process Use	1	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>1,148</b>	<b>0</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	452	0	*	*	*	0
	Facility Lighting	592	--	--	--	--	--
	Other Facility Support	104	0	0	*	0	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	0	0	*	1	*	0
	<b>End Use Not Reported</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>0</b>	<b>0</b>
<b>325120</b>	<b>Industrial Gases</b>						

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	<b>TOTAL FUEL CONSUMPTION</b>	20,838	0	*	13	*	0
	<b>Indirect Uses-Boiler Fuel</b>	33	0	*	6	0	0
	Conventional Boiler Use	33	0	*	6	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	20,039	0	*	7	*	0
	Process Heating	74	0	*	5	*	0
	Process Cooling and Refrigeration	499	0	*	*	0	0
	Machine Drive	19,384	0	*	0	0	0
	Electro-Chemical Processes	83	--	--	--	--	--
	Other Process Use	0	0	0	2	0	0
	<b>Direct Uses-Total Nonprocess</b>	766	0	*	*	*	0
	Facility HVAC (g)	498	0	*	*	*	0
	Facility Lighting	225	--	--	--	--	--
	Other Facility Support	43	0	*	*	0	0
	Onsite Transportation	0	--	0	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	0	0	0	0
	<b>End Use Not Reported</b>	0	0	0	*	*	0
325181	Alkalies and Chlorine						
	<b>TOTAL FUEL CONSUMPTION</b>	16,066	0	*	103	*	1
	<b>Indirect Uses-Boiler Fuel</b>	36	0	*	56	0	1
	Conventional Boiler Use	36	0	*	14	0	*
	CHP and/or Cogeneration Process	0	0	0	42	0	*
	<b>Direct Uses-Total Process</b>	15,544	0	*	47	0	*
	Process Heating	64	0	0	15	0	*
	Process Cooling and Refrigeration	250	0	0	0	0	0
	Machine Drive	2,293	0	*	32	0	0
	Electro-Chemical Processes	11,917	--	--	--	--	--
	Other Process Use	1,020	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	486	0	*	*	*	0
	Facility HVAC (g)	188	0	0	*	*	0
	Facility Lighting	186	--	--	--	--	--
	Other Facility Support	43	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	*	0	0
	Other Nonprocess Use	70	0	0	*	0	0
	<b>End Use Not Reported</b>	0	0	0	0	0	0
325182	Carbon Black						
	<b>TOTAL FUEL CONSUMPTION</b>	797	*	*	10	*	0
	<b>Indirect Uses-Boiler Fuel</b>	10	*	0	2	0	0
	Conventional Boiler Use	10	*	0	2	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	613	*	*	4	0	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Process Heating	13	*	0	3	0	0
	Process Cooling and Refrigeration	2	0	0	0	0	0
	Machine Drive	590	0	*	*	0	0
	Electro-Chemical Processes	8	--	--	--	--	--
	Other Process Use	0	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>173</b>	*	*	*	*	0
	Facility HVAC (g)	124	*	0	*	0	0
	Facility Lighting	44	--	--	--	--	--
	Other Facility Support	3	0	0	*	0	0
	Onsite Transportation	2	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	0	0	0	0	0	0
	<b>End Use Not Reported</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>
325188	Other Basic Inorganic Chemicals						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>24,959</b>	<b>1</b>	<b>*</b>	<b>52</b>	<b>*</b>	<b>1</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>186</b>	<b>1</b>	<b>*</b>	<b>14</b>	<b>*</b>	<b>1</b>
	Conventional Boiler Use	186	1	*	13	*	*
	CHP and/or Cogeneration Process	0	0	0	1	0	1
	<b>Direct Uses-Total Process</b>	<b>22,161</b>	<b>1</b>	<b>*</b>	<b>32</b>	<b>*</b>	<b>*</b>
	Process Heating	505	1	*	29	*	*
	Process Cooling and Refrigeration	646	0	*	*	0	0
	Machine Drive	15,803	0	*	*	*	0
	Electro-Chemical Processes	4,882	--	--	--	--	--
	Other Process Use	324	0	*	2	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>1,912</b>	<b>0</b>	<b>*</b>	<b>2</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	927	0	*	1	*	0
	Facility Lighting	550	--	--	--	--	--
	Other Facility Support	275	0	*	*	0	0
	Onsite Transportation	Q	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	154	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>700</b>	<b>0</b>	<b>*</b>	<b>5</b>	<b>*</b>	<b>0</b>
325192	Cyclic Crudes and Intermediates						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>2,566</b>	<b>*</b>	<b>*</b>	<b>15</b>	<b>*</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>1</b>	<b>*</b>	<b>*</b>	<b>9</b>	<b>0</b>	<b>0</b>
	Conventional Boiler Use	1	*	*	9	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	<b>2,333</b>	<b>0</b>	<b>*</b>	<b>6</b>	<b>*</b>	<b>0</b>
	Process Heating	1,638	0	*	6	*	0
	Process Cooling and Refrigeration	172	0	0	0	0	0
	Machine Drive	523	0	*	0	0	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	*	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>231</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	112	0	0	*	0	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Facility Lighting	70	--	--	--	--	--
	Other Facility Support	47	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	3	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	*	*	0
325193	Ethyl Alcohol						
	<b>TOTAL FUEL CONSUMPTION</b>	3,143	0	*	80	*	1
	<b>Indirect Uses-Boiler Fuel</b>	117	0	*	47	*	1
	Conventional Boiler Use	117	0	*	45	*	*
	CHP and/or Cogeneration Process	0	0	*	3	0	*
	<b>Direct Uses-Total Process</b>	2,797	0	*	28	*	0
	Process Heating	258	0	0	25	*	0
	Process Cooling and Refrigeration	346	0	0	0	0	0
	Machine Drive	2,121	0	*	0	0	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	72	0	0	3	0	0
	<b>Direct Uses-Total Nonprocess</b>	229	0	*	1	*	*
	Facility HVAC (g)	92	0	0	1	*	*
	Facility Lighting	92	--	--	--	--	--
	Other Facility Support	37	0	0	*	0	0
	Onsite Transportation	5	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	3	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	*	3	0	*
325199	Other Basic Organic Chemicals						
	<b>TOTAL FUEL CONSUMPTION</b>	32,070	*	*	298	*	2
	<b>Indirect Uses-Boiler Fuel</b>	282	*	*	200	*	2
	Conventional Boiler Use	282	*	*	112	*	*
	CHP and/or Cogeneration Process	0	*	*	87	*	2
	<b>Direct Uses-Total Process</b>	28,510	*	*	83	*	*
	Process Heating	1,217	*	*	64	*	*
	Process Cooling and Refrigeration	3,583	0	0	4	0	0
	Machine Drive	17,809	0	*	2	0	*
	Electro-Chemical Processes	5,810	--	--	--	--	--
	Other Process Use	91	0	*	13	*	0
	<b>Direct Uses-Total Nonprocess</b>	2,966	*	*	5	*	*
	Facility HVAC (g)	1,444	*	0	3	*	*
	Facility Lighting	1,015	--	--	--	--	--
	Other Facility Support	444	0	*	*	*	0
	Onsite Transportation	25	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	1	0	0
	Other Nonprocess Use	38	0	*	1	*	0
	<b>End Use Not Reported</b>	313	0	*	9	*	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
325211	<b>Plastics Materials and Resins</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	37,356	*	*	324	2	*
	<b>Indirect Uses-Boiler Fuel</b>	6,794	*	257	*	*	*
	Conventional Boiler Use	6,794	*	50	*	*	*
	CHP and/or Cogeneration Process	0	0	0	207	0	0
	<b>Direct Uses-Total Process</b>	27,256	*	*	62	1	0
	Process Heating	972	*	*	W	*	0
	Process Cooling and Refrigeration	3,262	0	*	1	*	0
	Machine Drive	19,262	0	*	W	*	0
	Electro-Chemical Processes	3,740	--	--	--	--	--
	Other Process Use	19	0	*	8	1	0
	<b>Direct Uses-Total Nonprocess</b>	3,192	0	*	4	*	0
	Facility HVAC (g)	1,254	0	*	2	*	0
	Facility Lighting	1,151	--	--	--	--	--
	Other Facility Support	783	0	*	*	*	0
	Onsite Transportation	3	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	2	0	*	2	*	0
	<b>End Use Not Reported</b>	114	0	0	1	*	0
325212	<b>Synthetic Rubber</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	2,071	*	*	25	*	*
	<b>Indirect Uses-Boiler Fuel</b>	31	*	21	*	*	*
	Conventional Boiler Use	31	*	6	*	*	*
	CHP and/or Cogeneration Process	0	0	0	16	0	*
	<b>Direct Uses-Total Process</b>	1,669	0	*	4	*	0
	Process Heating	126	0	0	3	*	0
	Process Cooling and Refrigeration	328	0	0	*	0	0
	Machine Drive	1,205	0	*	*	0	0
	Electro-Chemical Processes	3	--	--	--	--	--
	Other Process Use	8	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	356	*	*	*	*	0
	Facility HVAC (g)	210	0	*	*	*	0
	Facility Lighting	109	--	--	--	--	--
	Other Facility Support	26	0	0	*	0	0
	Onsite Transportation	11	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	*	*	*	*	0
	<b>End Use Not Reported</b>	14	0	0	*	0	0
325222	<b>Noncellulosic Organic Fibers</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	5,618	*	*	33	*	*
	<b>Indirect Uses-Boiler Fuel</b>	756	*	20	*	*	*
	Conventional Boiler Use	756	*	12	*	*	*
	CHP and/or Cogeneration Process	0	*	0	8	0	*

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	<b>Direct Uses-Total Process</b>	4,139	*	*	11	*	*
	Process Heating	388	*	*	8	*	*
	Process Cooling and Refrigeration	878	0	0	*	0	0
	Machine Drive	2,818	0	*	3	0	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	54	0	*	*	0	*
	<b>Direct Uses-Total Nonprocess</b>	721	*	*	2	*	0
	Facility HVAC (g)	354	*	*	*	*	0
	Facility Lighting	200	--	--	--	--	--
	Other Facility Support	122	0	*	0	*	0
	Onsite Transportation	18	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	2	0	0
	Other Nonprocess Use	26	0	*	*	0	0
	<b>End Use Not Reported</b>	3	0	0	*	*	0
325311	<b>Nitrogenous Fertilizers</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	2,672	0	*	113	*	0
	<b>Indirect Uses-Boiler Fuel</b>	21	0	*	27	*	0
	Conventional Boiler Use	21	0	*	24	*	0
	CHP and/or Cogeneration Process	0	0	0	3	0	0
	<b>Direct Uses-Total Process</b>	2,448	0	*	86	*	0
	Process Heating	64	0	*	64	*	0
	Process Cooling and Refrigeration	289	0	0	12	0	0
	Machine Drive	2,087	0	*	6	0	0
	Electro-Chemical Processes	4	--	--	--	--	--
	Other Process Use	3	0	*	4	*	0
	<b>Direct Uses-Total Nonprocess</b>	203	0	*	1	*	0
	Facility HVAC (g)	86	0	*	*	*	0
	Facility Lighting	95	--	--	--	--	--
	Other Facility Support	17	0	0	*	0	0
	Onsite Transportation	2	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	2	0	*	0	0	0
	<b>End Use Not Reported</b>	0	0	0	*	*	0
325312	<b>Phosphatic Fertilizers</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	3,774	*	*	11	*	*
	<b>Indirect Uses-Boiler Fuel</b>	0	*	*	1	0	0
	Conventional Boiler Use	0	0	0	1	0	0
	CHP and/or Cogeneration Process	0	*	*	1	0	0
	<b>Direct Uses-Total Process</b>	3,529	*	*	9	*	*
	Process Heating	14	*	*	7	*	*
	Process Cooling and Refrigeration	8	0	0	0	0	0
	Machine Drive	3,416	0	*	1	0	0
	Electro-Chemical Processes	85	--	--	--	--	--
	Other Process Use	5	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	245	0	*	*	*	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Facility HVAC (g)	116	0	0	*	*	0
	Facility Lighting	67	--	--	--	--	--
	Other Facility Support	58	0	0	*	0	0
	Onsite Transportation	3	--	*	*	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	0	0	*	0	0	0
	<b>End Use Not Reported</b>	0	0	0	0	*	0
3254	<b>Pharmaceuticals and Medicines</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	13,784	*	*	45	*	*
	<b>Indirect Uses-Boiler Fuel</b>	208	*	*	36	*	*
	Conventional Boiler Use	208	*	*	20	*	*
	CHP and/or Cogeneration Process	0	*	*	17	*	0
	<b>Direct Uses-Total Process</b>	7,484	0	*	3	*	*
	Process Heating	1,885	0	*	2	*	*
	Process Cooling and Refrigeration	1,717	0	*	*	0	0
	Machine Drive	3,760	0	*	*	*	0
	Electro-Chemical Processes	14	--	--	--	--	--
	Other Process Use	109	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	5,816	0	*	6	*	0
	Facility HVAC (g)	3,635	0	*	5	*	0
	Facility Lighting	1,466	--	--	--	--	--
	Other Facility Support	526	0	*	*	*	0
	Onsite Transportation	14	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	173	0	*	1	*	0
	<b>End Use Not Reported</b>	276	0	*	*	*	0
325412	<b>Pharmaceutical Preparation</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	10,782	*	*	30	*	*
	<b>Indirect Uses-Boiler Fuel</b>	169	*	*	24	*	*
	Conventional Boiler Use	169	*	*	11	*	*
	CHP and/or Cogeneration Process	0	*	*	12	*	0
	<b>Direct Uses-Total Process</b>	6,055	0	*	2	*	*
	Process Heating	1,813	0	*	2	0	*
	Process Cooling and Refrigeration	1,194	0	0	*	0	0
	Machine Drive	3,005	0	*	*	*	0
	Electro-Chemical Processes	8	--	--	--	--	--
	Other Process Use	35	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	4,391	0	*	4	*	0
	Facility HVAC (g)	2,708	0	*	3	*	0
	Facility Lighting	1,085	--	--	--	--	--
	Other Facility Support	411	0	*	*	*	0
	Onsite Transportation	14	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	173	0	*	1	*	0
	<b>End Use Not Reported</b>	Q	0	*	*	*	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
325992	<b>Photographic Film, Paper, Plate, and Chemicals</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	1,959	*	*	7	*	1
	<b>Indirect Uses-Boiler Fuel</b>	176	*	*	4	0	1
	Conventional Boiler Use	176	*	*	1	0	0
	CHP and/or Cogeneration Process	0	*	*	3	0	1
	<b>Direct Uses-Total Process</b>	1,124	0	*	2	*	0
	Process Heating	97	0	*	1	*	0
	Process Cooling and Refrigeration	211	0	0	*	0	0
	Machine Drive	767	0	*	*	0	0
	Electro-Chemical Processes	37	--	--	--	--	--
	Other Process Use	11	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	660	*	*	1	*	0
	Facility HVAC (g)	396	*	*	1	*	0
	Facility Lighting	233	--	--	--	--	--
	Other Facility Support	28	0	0	*	0	0
	Onsite Transportation	3	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	0	*	*	0
326	<b>PLASTICS AND RUBBER PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	53,423	1	1	124	1	*
	<b>Indirect Uses-Boiler Fuel</b>	354	1	*	56	*	*
	Conventional Boiler Use	354	1	*	56	*	*
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	40,717	*	*	36	*	0
	Process Heating	8,172	*	*	31	*	0
	Process Cooling and Refrigeration	4,801	0	0	*	0	0
	Machine Drive	26,841	0	*	3	*	0
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	Q	*	*	3	*	0
	<b>Direct Uses-Total Nonprocess</b>	12,155	*	*	26	1	0
	Facility HVAC (g)	5,731	*	*	24	*	0
	Facility Lighting	4,573	--	--	--	--	--
	Other Facility Support	1,561	0	*	2	*	0
	Onsite Transportation	254	--	*	*	1	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	Q	0	*	*	*	0
	<b>End Use Not Reported</b>	197	0	*	Q	*	0
327	<b>NONMETALLIC MINERAL PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	44,783	1	5	446	1	14
	<b>Indirect Uses-Boiler Fuel</b>	121	0	*	21	*	*
	Conventional Boiler Use	121	0	*	20	*	*

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	CHP and/or Cogeneration Process	0	0	0	1	0	0
	<b>Direct Uses-Total Process</b>	<b>38,197</b>	*	3	354	Q	W
	Process Heating	9,682	*	*	347	Q	W
	Process Cooling and Refrigeration	1,208	0	*	*	0	0
	Machine Drive	25,819	0	2	5	*	*
	Electro-Chemical Processes	108	--	--	--	--	--
	Other Process Use	1,380	0	1	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>6,189</b>	*	2	18	*	0
	Facility HVAC (g)	2,799	*	*	17	*	0
	Facility Lighting	2,310	--	--	--	--	--
	Other Facility Support	796	*	*	1	*	0
	Onsite Transportation	160	--	1	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	123	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>276</b>	0	*	53	*	W
327211	<b>Flat Glass</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>1,903</b>	*	*	50	*	0
	<b>Indirect Uses-Boiler Fuel</b>	<b>13</b>	0	*	2	0	0
	Conventional Boiler Use	13	0	*	2	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	<b>1,674</b>	*	*	48	*	0
	Process Heating	739	*	*	47	*	0
	Process Cooling and Refrigeration	134	0	0	*	0	0
	Machine Drive	735	0	*	*	*	0
	Electro-Chemical Processes	22	--	--	--	--	--
	Other Process Use	44	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>217</b>	0	*	1	*	0
	Facility HVAC (g)	82	0	*	1	*	0
	Facility Lighting	96	--	--	--	--	--
	Other Facility Support	28	0	0	*	*	0
	Onsite Transportation	10	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	0	0	*	0	*	0
	<b>End Use Not Reported</b>	<b>0</b>	0	0	*	0	0
327212	<b>Other Pressed and Blown Glass and Glassware</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>5,121</b>	0	*	Q	*	0
	<b>Indirect Uses-Boiler Fuel</b>	<b>1</b>	0	*	Q	*	0
	Conventional Boiler Use	1	0	*	Q	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	<b>4,403</b>	0	*	Q	*	0
	Process Heating	1,167	0	*	Q	*	0
	Process Cooling and Refrigeration	Q	0	0	0	0	0
	Machine Drive	Q	0	*	*	*	0
	Electro-Chemical Processes	13	--	--	--	--	--
	Other Process Use	352	0	*	0	*	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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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)
	<b>Direct Uses-Total Nonprocess</b>						
	Facility HVAC (g)	647	0	*	3	*	0
	Facility Lighting	Q	0	*	Q	*	0
	Other Facility Support	232	--	--	--	--	--
	Onsite Transportation	22	0	*	*	*	0
	Conventional Electricity Generation	Q	--	*	0	*	--
	Other Nonprocess Use	--	0	*	*	*	0
	<b>End Use Not Reported</b>	69	0	0	2	*	0
327213	Glass Containers						
	<b>TOTAL FUEL CONSUMPTION</b>	3,946	0	*	49	*	0
	<b>Indirect Uses-Boiler Fuel</b>	0	0	0	*	0	0
	Conventional Boiler Use	0	0	0	*	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	3,515	0	*	47	*	0
	Process Heating	1,460	0	*	47	*	0
	Process Cooling and Refrigeration	113	0	0	0	0	0
	Machine Drive	1,927	0	*	0	0	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	15	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	431	0	*	2	*	0
	Facility HVAC (g)	191	0	*	2	*	0
	Facility Lighting	160	--	--	--	--	--
	Other Facility Support	28	0	0	*	*	0
	Onsite Transportation	12	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	40	0	0	0	0	0
	<b>End Use Not Reported</b>	0	0	0	0	0	0
327215	Glass Products from Purchased Glass						
	<b>TOTAL FUEL CONSUMPTION</b>	3,677	0	*	50	*	*
	<b>Indirect Uses-Boiler Fuel</b>	12	0	*	9	*	*
	Conventional Boiler Use	12	0	*	9	*	*
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	2,913	0	*	5	*	0
	Process Heating	1,629	0	*	5	*	0
	Process Cooling and Refrigeration	245	0	*	0	0	0
	Machine Drive	926	0	*	*	*	0
	Electro-Chemical Processes	52	--	--	--	--	--
	Other Process Use	61	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	710	0	*	2	*	0
	Facility HVAC (g)	383	0	*	2	*	0
	Facility Lighting	258	--	--	--	--	--
	Other Facility Support	54	0	*	*	*	0
	Onsite Transportation	12	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	3	0	*	*	*	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	End Use Not Reported	Q	0	0	Q	*	*
327310	Cements						
	<b>TOTAL FUEL CONSUMPTION</b>	13,396	*	1	19	*	11
	Indirect Uses-Boiler Fuel	0	0	*	1	*	0
	Conventional Boiler Use	0	0	*	Q	*	0
	CHP and/or Cogeneration Process	0	0	0	1	0	0
	<b>Direct Uses-Total Process</b>	11,353	*	*	18	*	10
	Process Heating	1,079	*	*	16	*	10
	Process Cooling and Refrigeration	76	0	0	0	0	0
	Machine Drive	9,854	0	*	Q	*	*
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	340	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	1,902	*	*	*	*	0
	Facility HVAC (g)	765	*	*	*	*	0
	Facility Lighting	622	--	--	--	--	--
	Other Facility Support	363	0	*	*	*	0
	Onsite Transportation	80	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	72	0	*	0	0	0
	<b>End Use Not Reported</b>	141	0	*	0	*	*
327410	Lime						
	<b>TOTAL FUEL CONSUMPTION</b>	1,432	*	*	5	*	4
	Indirect Uses-Boiler Fuel	0	0	0	*	0	0
	Conventional Boiler Use	0	0	0	*	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	1,282	*	*	5	*	W
	Process Heating	190	*	*	5	*	W
	Process Cooling and Refrigeration	3	0	0	0	0	0
	Machine Drive	1,074	0	*	0	*	0
	Electro-Chemical Processes	15	--	--	--	--	--
	Other Process Use	*	0	*	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	150	0	*	*	*	0
	Facility HVAC (g)	59	0	*	*	*	0
	Facility Lighting	64	--	--	--	--	--
	Other Facility Support	27	0	0	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	0	0	0	0	*	0
	<b>End Use Not Reported</b>	0	0	*	*	*	W
327420	Gypsum						
	<b>TOTAL FUEL CONSUMPTION</b>	1,874	*	*	74	*	0
	Indirect Uses-Boiler Fuel	1	0	*	2	0	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Conventional Boiler Use	1	0	*	2	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	1,703	0	*	69	*	0
	Process Heating	121	0	*	69	*	0
	Process Cooling and Refrigeration	26	0	0	*	0	0
	Machine Drive	1,556	0	*	*	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	0	0	0	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	170	*	*	1	*	0
	Facility HVAC (g)	78	--	0	1	*	0
	Facility Lighting	74	--	--	--	--	--
	Other Facility Support	17	*	*	*	0	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	0	0	0	0	*	0
	<b>End Use Not Reported</b>	*	0	0	2	*	0
327993	<b>Mineral Wool</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	4,032	0	*	33	*	0
	<b>Indirect Uses-Boiler Fuel</b>	2	0	*	*	*	0
	Conventional Boiler Use	2	0	*	*	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	3,656	0	*	26	*	0
	Process Heating	1,481	0	0	26	*	0
	Process Cooling and Refrigeration	66	0	*	*	0	0
	Machine Drive	1,540	0	*	*	*	0
	Electro-Chemical Processes	3	--	--	--	--	--
	Other Process Use	566	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	375	0	*	2	*	0
	Facility HVAC (g)	139	0	*	2	*	0
	Facility Lighting	168	--	--	--	--	--
	Other Facility Support	61	0	0	*	0	0
	Onsite Transportation	3	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	4	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	*	5	*	0
331	<b>PRIMARY METALS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	139,985	3	1	568	1	1
	<b>Indirect Uses-Boiler Fuel</b>	410	1	*	56	*	*
	Conventional Boiler Use	410	*	*	29	*	*
	CHP and/or Cogeneration Process	0	1	0	27	0	*
	<b>Direct Uses-Total Process</b>	128,381	2	*	465	1	1
	Process Heating	39,654	2	*	445	*	*
	Process Cooling and Refrigeration	1,275	0	*	2	*	0
	Machine Drive	43,428	0	*	7	*	0
	Electro-Chemical Processes	42,885	--	--	--	--	--

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Other Process Use	1,138	0	*	10	*	*
	<b>Direct Uses-Total Nonprocess</b>	<b>11,030</b>	*	1	40	*	*
	Facility HVAC (g)	4,704	*	*	37	*	0
	Facility Lighting	4,821	--	--	--	--	--
	Other Facility Support	1,293	*	*	3	*	0
	Onsite Transportation	83	--	1	Q	*	--
	Conventional Electricity Generation	--	0	*	*	*	*
	Other Nonprocess Use	129	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>164</b>	<b>1</b>	<b>*</b>	<b>8</b>	<b>*</b>	<b>*</b>
331111	<b>Iron and Steel Mills</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>55,339</b>	<b>3</b>	<b>1</b>	<b>317</b>	<b>*</b>	<b>1</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>153</b>	<b>1</b>	<b>*</b>	<b>26</b>	<b>0</b>	<b>*</b>
	Conventional Boiler Use	153	*	*	13	0	0
	CHP and/or Cogeneration Process	0	1	0	13	0	*
	<b>Direct Uses-Total Process</b>	<b>51,114</b>	<b>2</b>	<b>*</b>	<b>277</b>	<b>*</b>	<b>1</b>
	Process Heating	22,425	2	*	265	*	*
	Process Cooling and Refrigeration	351	0	0	*	0	0
	Machine Drive	26,104	0	*	5	*	0
	Electro-Chemical Processes	1,856	--	--	--	--	--
	Other Process Use	379	0	*	7	*	*
	<b>Direct Uses-Total Nonprocess</b>	<b>4,070</b>	<b>0</b>	<b>*</b>	<b>15</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	1,534	0	*	14	*	0
	Facility Lighting	2,092	--	--	--	--	--
	Other Facility Support	405	0	0	1	*	0
	Onsite Transportation	20	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	20	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>0</b>
331112	<b>Electrometallurgical Ferroalloy Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>3,111</b>	<b>0</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>*</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>
	Conventional Boiler Use	0	0	0	1	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	<b>3,044</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>
	Process Heating	1,788	0	0	*	0	0
	Process Cooling and Refrigeration	10	0	0	0	0	0
	Machine Drive	258	0	0	0	0	0
	Electro-Chemical Processes	924	--	--	--	--	--
	Other Process Use	64	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>66</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	34	0	0	*	0	0
	Facility Lighting	22	--	--	--	--	--
	Other Facility Support	10	0	0	*	0	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Other Nonprocess Use	0	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	0	0	*
<b>3312</b>	<b>Steel Products from Purchased Steel</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>4,396</b>	<b>0</b>	<b>*</b>	<b>25</b>	<b>*</b>	<b>*</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>15</b>	<b>0</b>	<b>*</b>	<b>3</b>	<b>0</b>	<b>*</b>
	Conventional Boiler Use	15	0	*	3	0	*
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	<b>3,712</b>	<b>0</b>	<b>*</b>	<b>18</b>	<b>*</b>	<b>0</b>
	Process Heating	1,054	0	*	17	*	0
	Process Cooling and Refrigeration	58	0	0	*	0	0
	Machine Drive	2,401	0	*	*	*	0
	Electro-Chemical Processes	131	--	--	--	--	--
	Other Process Use	68	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>669</b>	<b>0</b>	<b>*</b>	<b>4</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	282	0	0	3	*	0
	Facility Lighting	322	--	--	--	--	--
	Other Facility Support	54	0	*	*	*	0
	Onsite Transportation	5	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	Q	0	0	*	*	0
	<b>End Use Not Reported</b>	Q	0	0	*	*	0
<b>3313</b>	<b>Alumina and Aluminum</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>44,906</b>	<b>*</b>	<b>*</b>	<b>113</b>	<b>*</b>	<b>*</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>37</b>	<b>*</b>	<b>*</b>	<b>18</b>	<b>*</b>	<b>0</b>
	Conventional Boiler Use	37	*	*	4	*	0
	CHP and/or Cogeneration Process	0	0	0	14	0	0
	<b>Direct Uses-Total Process</b>	<b>42,976</b>	<b>*</b>	<b>*</b>	<b>88</b>	<b>*</b>	<b>*</b>
	Process Heating	1,910	*	*	84	*	*
	Process Cooling and Refrigeration	208	0	0	2	0	0
	Machine Drive	5,542	0	*	1	*	0
	Electro-Chemical Processes	35,279	--	--	--	--	--
	Other Process Use	39	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>1,879</b>	<b>0</b>	<b>*</b>	<b>4</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	726	0	*	4	*	0
	Facility Lighting	791	--	--	--	--	--
	Other Facility Support	334	0	*	1	*	0
	Onsite Transportation	17	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	11	0	*	0	*	0
	<b>End Use Not Reported</b>	14	0	0	2	*	0
<b>331314</b>	<b>Secondary Smelting and Alloying of Aluminum</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>613</b>	<b>*</b>	<b>*</b>	<b>17</b>	<b>*</b>	<b>*</b>

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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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)
	<b>Indirect Uses-Boiler Fuel</b>						
	Conventional Boiler Use	1	0	0	*	0	0
	CHP and/or Cogeneration Process	1	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	495	*	*	17	*	*
	Process Heating	134	*	0	16	*	*
	Process Cooling and Refrigeration	7	0	0	1	0	0
	Machine Drive	340	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	14	0	0	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	117	0	*	*	*	0
	Facility HVAC (g)	50	0	*	*	*	0
	Facility Lighting	53	--	--	--	--	--
	Other Facility Support	9	0	0	*	*	0
	Onsite Transportation	1	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	4	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	*	*	0
331315	Aluminum Sheet, Plate and Foils						
	<b>TOTAL FUEL CONSUMPTION</b>	3,871	0	*	36	*	0
	<b>Indirect Uses-Boiler Fuel</b>	6	0	*	1	0	0
	Conventional Boiler Use	6	0	*	1	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	3,409	0	*	32	*	0
	Process Heating	802	0	*	31	*	0
	Process Cooling and Refrigeration	103	0	0	*	0	0
	Machine Drive	2,501	0	*	*	*	0
	Electro-Chemical Processes	1	--	--	--	--	--
	Other Process Use	2	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	442	0	*	2	*	0
	Facility HVAC (g)	179	0	*	1	0	0
	Facility Lighting	178	--	--	--	--	--
	Other Facility Support	72	0	*	*	0	0
	Onsite Transportation	7	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	6	0	*	0	*	0
	<b>End Use Not Reported</b>	14	0	0	1	0	0
331316	Aluminum Extruded Products						
	<b>TOTAL FUEL CONSUMPTION</b>	1,994	*	*	17	*	0
	<b>Indirect Uses-Boiler Fuel</b>	6	*	0	1	*	0
	Conventional Boiler Use	6	*	0	1	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	1,615	0	*	15	*	0
	Process Heating	383	0	*	14	*	0
	Process Cooling and Refrigeration	79	0	0	*	0	0
	Machine Drive	1,058	0	*	*	*	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Electro-Chemical Processes	71	--	--	--	--	--
	Other Process Use	23	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>374</b>	<b>0</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	131	0	*	1	*	0
	Facility Lighting	198	--	--	--	--	--
	Other Facility Support	39	0	0	*	*	0
	Onsite Transportation	5	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>0</b>
3314	<b>Nonferrous Metals, except Aluminum</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>15,434</b>	<b>*</b>	<b>*</b>	<b>42</b>	<b>*</b>	<b>*</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>173</b>	<b>*</b>	<b>*</b>	<b>5</b>	<b>*</b>	<b>*</b>
	Conventional Boiler Use	173	*	*	5	*	0
	CHP and/or Cogeneration Process	0	0	0	*	0	*
	<b>Direct Uses-Total Process</b>	<b>13,805</b>	<b>*</b>	<b>*</b>	<b>31</b>	<b>*</b>	<b>*</b>
	Process Heating	4,940	*	*	29	*	*
	Process Cooling and Refrigeration	308	0	*	*	*	0
	Machine Drive	4,050	0	*	*	*	0
	Electro-Chemical Processes	4,244	--	--	--	--	--
	Other Process Use	263	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>1,442</b>	<b>*</b>	<b>*</b>	<b>3</b>	<b>*</b>	<b>*</b>
	Facility HVAC (g)	625	*	*	3	*	0
	Facility Lighting	572	--	--	--	--	--
	Other Facility Support	197	0	0	*	*	0
	Onsite Transportation	21	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	*	*
	Other Nonprocess Use	26	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>Q</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>*</b>	<b>*</b>
3315	<b>Foundries</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>16,798</b>	<b>*</b>	<b>*</b>	<b>70</b>	<b>*</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>34</b>	<b>0</b>	<b>*</b>	<b>3</b>	<b>*</b>	<b>0</b>
	Conventional Boiler Use	34	0	*	3	*	0
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	<b>13,729</b>	<b>*</b>	<b>*</b>	<b>51</b>	<b>*</b>	<b>0</b>
	Process Heating	7,538	*	*	49	*	0
	Process Cooling and Refrigeration	340	0	*	*	0	0
	Machine Drive	5,073	0	*	1	*	0
	Electro-Chemical Processes	453	--	--	--	--	--
	Other Process Use	325	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>2,904</b>	<b>*</b>	<b>*</b>	<b>14</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	1,503	*	*	13	*	0
	Facility Lighting	1,021	--	--	--	--	--
	Other Facility Support	292	*	*	1	*	0
	Onsite Transportation	20	--	*	*	*	--

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	67	0	*	*	*	0
	<b>End Use Not Reported</b>		132	0	*	3	*
<b>331511</b>	<b>Iron Foundries</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	8,564	*	*	23	*	0
	<b>Indirect Uses-Boiler Fuel</b>	2	0	0	1	*	0
	Conventional Boiler Use	2	0	0	1	*	0
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	6,996	*	*	14	*	0
	Process Heating	3,973	*	*	13	*	0
	Process Cooling and Refrigeration	109	0	0	*	0	0
	Machine Drive	2,365	0	*	*	*	0
	Electro-Chemical Processes	367	--	--	--	--	--
	Other Process Use	183	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	1,566	0	*	7	*	0
	Facility HVAC (g)	851	0	*	7	*	0
	Facility Lighting	484	--	--	--	--	--
	Other Facility Support	155	0	*	*	*	0
	Onsite Transportation	11	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	65	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	*	*	*	0
<b>331521</b>	<b>Aluminum Die-Casting Foundries</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	1,937	0	*	15	*	0
	<b>Indirect Uses-Boiler Fuel</b>	7	0	*	1	*	0
	Conventional Boiler Use	7	0	*	1	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	1,465	0	*	11	*	0
	Process Heating	548	0	*	11	*	0
	Process Cooling and Refrigeration	71	0	0	*	0	0
	Machine Drive	844	0	*	*	*	0
	Electro-Chemical Processes	1	--	--	--	--	--
	Other Process Use	1	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	466	0	*	2	*	0
	Facility HVAC (g)	237	0	0	2	*	0
	Facility Lighting	193	--	--	--	--	--
	Other Facility Support	29	0	0	*	*	0
	Onsite Transportation	6	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	1	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	0	1	*	0
<b>331524</b>	<b>Aluminum Foundries, except Die-Casting</b>						

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	<b>TOTAL FUEL CONSUMPTION</b>	1,135	*	*	13	*	0
	<b>Indirect Uses-Boiler Fuel</b>	9	0	0	*	0	0
	Conventional Boiler Use	9	0	0	*	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	869	*	*	11	*	0
	Process Heating	349	*	*	10	*	0
	Process Cooling and Refrigeration	20	0	0	*	0	0
	Machine Drive	478	0	0	*	*	0
	Electro-Chemical Processes	1	--	--	--	--	--
	Other Process Use	22	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	245	*	*	2	*	0
	Facility HVAC (g)	107	*	*	1	*	0
	Facility Lighting	89	--	--	--	--	--
	Other Facility Support	46	*	*	*	*	0
	Onsite Transportation	3	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	0	0	*	0
	<b>End Use Not Reported</b>	13	0	0	*	*	0
332	<b>FABRICATED METAL PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	42,238	*	*	234	1	0
	<b>Indirect Uses-Boiler Fuel</b>	161	*	*	36	0	0
	Conventional Boiler Use	161	*	*	34	0	0
	CHP and/or Cogeneration Process	0	0	0	Q	0	0
	<b>Direct Uses-Total Process</b>	32,479	0	*	154	*	0
	Process Heating	8,272	0	*	150	*	0
	Process Cooling and Refrigeration	1,487	0	0	Q	0	0
	Machine Drive	20,706	0	*	1	*	0
	Electro-Chemical Processes	794	--	--	--	--	--
	Other Process Use	1,221	0	*	Q	*	0
	<b>Direct Uses-Total Nonprocess</b>	9,166	*	*	37	1	0
	Facility HVAC (g)	4,234	*	*	34	*	0
	Facility Lighting	3,967	--	--	--	--	--
	Other Facility Support	823	0	*	2	*	0
	Onsite Transportation	109	--	*	*	1	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	Q	0	*	*	*	0
	<b>End Use Not Reported</b>	432	0	*	Q	*	0
333	<b>MACHINERY</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	32,733	*	*	82	1	*
	<b>Indirect Uses-Boiler Fuel</b>	Q	*	*	20	0	*
	Conventional Boiler Use	Q	*	*	16	0	0
	CHP and/or Cogeneration Process	0	0	0	Q	0	*
	<b>Direct Uses-Total Process</b>	18,577	0	*	28	*	0
	Process Heating	2,211	0	*	24	*	0
	Process Cooling and Refrigeration	919	0	*	*	0	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Machine Drive	14,635	0	*	*	*	0
	Electro-Chemical Processes	140	--	--	--	--	--
	Other Process Use	673	0	*	Q	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>13,393</b>	<b>0</b>	<b>*</b>	<b>32</b>	<b>1</b>	<b>0</b>
	Facility HVAC (g)	7,278	0	*	30	*	0
	Facility Lighting	4,759	--	--	--	--	--
	Other Facility Support	965	0	*	Q	*	0
	Onsite Transportation	227	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	Q	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>Q</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>*</b>	<b>0</b>

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**COMPUTER AND ELECTRONIC PRODUCTS**

	<b>TOTAL FUEL CONSUMPTION</b>	<b>27,542</b>	*	*	44	*	0
	<b>Indirect Uses-Boiler Fuel</b>	<b>241</b>	*	*	19	*	0
	Conventional Boiler Use	241	*	*	19	*	0
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	<b>14,097</b>	<b>0</b>	<b>*</b>	<b>4</b>	<b>*</b>	<b>0</b>
	Process Heating	3,008	0	*	3	*	0
	Process Cooling and Refrigeration	2,911	0	*	*	0	0
	Machine Drive	5,685	0	*	*	*	0
	Electro-Chemical Processes	400	--	--	--	--	--
	Other Process Use	2,094	0	*	1	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>13,122</b>	<b>*</b>	<b>*</b>	<b>17</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	7,759	*	*	16	*	0
	Facility Lighting	3,203	--	--	--	--	--
	Other Facility Support	1,663	0	*	*	*	0
	Onsite Transportation	12	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	486	0	*	1	*	0
	<b>End Use Not Reported</b>	<b>Q</b>	<b>0</b>	<b>*</b>	<b>Q</b>	<b>*</b>	<b>0</b>

334413

**Semiconductors and Related Devices**

	<b>TOTAL FUEL CONSUMPTION</b>	<b>12,772</b>	*	*	18	*	0
	<b>Indirect Uses-Boiler Fuel</b>	<b>51</b>	0	*	9	0	0
	Conventional Boiler Use	51	0	*	9	0	0
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	<b>8,168</b>	<b>0</b>	<b>*</b>	<b>2</b>	<b>*</b>	<b>0</b>
	Process Heating	1,794	0	*	1	*	0
	Process Cooling and Refrigeration	1,740	0	*	*	0	0
	Machine Drive	2,663	0	0	*	0	0
	Electro-Chemical Processes	358	--	--	--	--	--
	Other Process Use	1,614	0	*	1	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>4,552</b>	<b>*</b>	<b>*</b>	<b>7</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	3,082	*	*	7	*	0
	Facility Lighting	786	--	--	--	--	--
	Other Facility Support	620	0	0	*	*	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Onsite Transportation	2	--	0	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	62	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	*	*	*	0
335	<b>ELEC. EQUIP., APPLIANCES, COMPONENTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	12,870	0	*	40	*	0
	<b>Indirect Uses-Boiler Fuel</b>	33	0	0	7	0	0
	Conventional Boiler Use	33	0	0	7	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	8,818	0	*	24	*	0
	Process Heating	2,882	0	*	22	*	0
	Process Cooling and Refrigeration	585	0	*	Q	0	0
	Machine Drive	4,710	0	*	0	*	0
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	410	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	3,846	0	*	8	*	0
	Facility HVAC (g)	1,855	0	*	8	*	0
	Facility Lighting	1,477	--	--	--	--	--
	Other Facility Support	450	0	*	*	0	0
	Onsite Transportation	16	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	Q	0	*	0	*	0
	<b>End Use Not Reported</b>	Q	0	*	*	*	0
336	<b>TRANSPORTATION EQUIPMENT</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	57,704	1	*	242	1	*
	<b>Indirect Uses-Boiler Fuel</b>	566	1	*	40	*	*
	Conventional Boiler Use	566	1	*	36	*	*
	CHP and/or Cogeneration Process	0	*	*	4	0	*
	<b>Direct Uses-Total Process</b>	34,608	*	*	111	*	0
	Process Heating	7,801	*	*	73	*	0
	Process Cooling and Refrigeration	3,606	*	0	2	*	0
	Machine Drive	21,254	*	*	3	*	0
	Electro-Chemical Processes	495	--	--	--	--	--
	Other Process Use	1,453	0	*	Q	*	0
	<b>Direct Uses-Total Nonprocess</b>	22,233	*	*	87	1	0
	Facility HVAC (g)	11,027	*	*	83	*	0
	Facility Lighting	8,418	--	--	--	--	--
	Other Facility Support	2,099	*	*	Q	*	0
	Onsite Transportation	388	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	302	*	*	*	*	0
	<b>End Use Not Reported</b>	297	0	*	4	*	*
336111	<b>Automobiles</b>						

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	<b>TOTAL FUEL CONSUMPTION</b>	3,929	*	*	21	*	*
	<b>Indirect Uses-Boiler Fuel</b>	70	*	0	3	0	*
	Conventional Boiler Use	70	*	0	3	0	*
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	2,086	0	*	12	*	0
	Process Heating	277	0	0	11	*	0
	Process Cooling and Refrigeration	160	0	0	1	0	0
	Machine Drive	1,427	0	*	*	*	0
	Electro-Chemical Processes	65	--	--	--	--	--
	Other Process Use	157	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	1,679	0	*	5	*	0
	Facility HVAC (g)	953	0	*	5	*	0
	Facility Lighting	588	--	--	--	--	--
	Other Facility Support	112	0	*	*	0	0
	Onsite Transportation	25	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	1	0	*	0	*	0
	<b>End Use Not Reported</b>	94	0	*	1	*	*
336112	<b>Light Trucks and Utility Vehicles</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	4,516	*	*	24	*	*
	<b>Indirect Uses-Boiler Fuel</b>	43	*	*	6	*	*
	Conventional Boiler Use	43	*	*	6	*	*
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	2,785	0	*	11	*	0
	Process Heating	125	0	0	10	*	0
	Process Cooling and Refrigeration	363	0	0	*	*	0
	Machine Drive	1,925	0	*	*	*	0
	Electro-Chemical Processes	83	--	--	--	--	--
	Other Process Use	289	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	1,687	0	*	7	*	0
	Facility HVAC (g)	811	0	*	6	*	0
	Facility Lighting	637	--	--	--	--	--
	Other Facility Support	159	0	*	*	0	0
	Onsite Transportation	73	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	7	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	*	*	*	0
3364	<b>Aerospace Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	11,892	*	*	30	*	*
	<b>Indirect Uses-Boiler Fuel</b>	185	*	*	14	*	*
	Conventional Boiler Use	185	*	*	10	*	*
	CHP and/or Cogeneration Process	0	*	*	4	0	0
	<b>Direct Uses-Total Process</b>	5,429	*	*	6	*	0
	Process Heating	1,558	*	*	4	*	0

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Process Cooling and Refrigeration	892	*	0	*	*	0
	Machine Drive	2,659	*	*	Q	*	0
	Electro-Chemical Processes	113	--	--	--	--	--
	Other Process Use	207	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>6,192</b>	*	*	7	*	0
	Facility HVAC (g)	3,273	*	*	7	*	0
	Facility Lighting	2,225	--	--	--	--	--
	Other Facility Support	620	*	*	*	*	0
	Onsite Transportation	66	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	7	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>86</b>	0	*	2	*	0
336411	Aircraft						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>3,400</b>	*	*	8	*	0
	<b>Indirect Uses-Boiler Fuel</b>	<b>16</b>	*	*	5	*	0
	Conventional Boiler Use	16	*	*	5	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	<b>1,372</b>	0	*	2	*	0
	Process Heating	266	0	*	1	*	0
	Process Cooling and Refrigeration	335	0	0	*	0	0
	Machine Drive	671	0	*	*	*	0
	Electro-Chemical Processes	16	--	--	--	--	--
	Other Process Use	84	0	0	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>2,004</b>	0	*	2	*	0
	Facility HVAC (g)	993	0	*	2	*	0
	Facility Lighting	783	--	--	--	--	--
	Other Facility Support	183	0	0	*	0	0
	Onsite Transportation	39	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	7	0	*	0	*	0
	<b>End Use Not Reported</b>	<b>9</b>	0	*	0	*	0
337	FURNITURE AND RELATED PRODUCTS						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>9,362</b>	*	*	16	*	*
	<b>Indirect Uses-Boiler Fuel</b>	<b>126</b>	*	*	1	*	*
	Conventional Boiler Use	126	*	*	1	*	*
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	<b>4,536</b>	0	*	7	*	0
	Process Heating	597	0	*	7	*	0
	Process Cooling and Refrigeration	135	0	0	*	0	0
	Machine Drive	3,759	0	*	*	*	0
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	Q	0	*	0	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>2,971</b>	*	*	7	*	*
	Facility HVAC (g)	1,221	*	*	7	*	*
	Facility Lighting	1,288	--	--	--	--	--

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
	Other Facility Support	403	0	0	*	0	0
	Onsite Transportation	34	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	Q	0	*	0	*	0
	<b>End Use Not Reported</b>	Q	0	0	Q	*	*
339	<b>MISCELLANEOUS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	9,677	*	*	24	*	0
	<b>Indirect Uses-Boiler Fuel</b>	226	*	0	4	*	0
	Conventional Boiler Use	226	*	0	4	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	4,880	*	*	6	*	0
	Process Heating	983	*	*	5	*	0
	Process Cooling and Refrigeration	574	0	0	*	0	0
	Machine Drive	3,175	0	*	*	*	0
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	83	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	4,506	*	*	13	*	0
	Facility HVAC (g)	2,388	*	*	12	*	0
	Facility Lighting	1,617	--	--	--	--	--
	Other Facility Support	484	0	0	1	*	0
	Onsite Transportation	17	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	0	0	*	*	*	0
	<b>End Use Not Reported</b>	64	0	*	Q	*	0

(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.

**Table 5.3 End Uses of Fuel Consumption, 2006;**

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)
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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, '2006 Manufacturing Energy Consumption Survey.'

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
<b>Total United States</b>							
311 - 339	<b>ALL MANUFACTURING INDUSTRIES</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	3,335	251	129	5,512	79	1,016
	<b>Indirect Uses-Boiler Fuel</b>	84	133	23	2,119	8	547
	Conventional Boiler Use	84	71	17	1,281	8	129
	CHP and/or Cogeneration Process	0	62	6	838	1	417
	<b>Direct Uses-Total Process</b>	2,639	62	52	2,788	39	412
	Process Heating	379	59	19	2,487	32	345
	Process Cooling and Refrigeration	226	*	1	32	*	*
	Machine Drive	1,731	2	24	129	2	56
	Electro-Chemical Processes	255	--	--	--	--	--
	Other Process Use	48	Q	8	140	5	10
	<b>Direct Uses-Total Nonprocess</b>	582	6	50	438	27	6
	Facility HVAC (g)	285	4	4	378	5	2
	Facility Lighting	215	--	--	--	--	--
	Other Facility Support	65	1	*	30	*	*
	Onsite Transportation	8	--	35	3	20	--
	Conventional Electricity Generation	--	*	4	19	*	3
	Other Nonprocess Use	9	*	6	8	1	*
	<b>End Use Not Reported</b>	29	49	4	168	5	52
311	<b>FOOD</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	266	26	16	635	3	147
	<b>Indirect Uses-Boiler Fuel</b>	7	24	4	354	1	129
	Conventional Boiler Use	7	16	3	328	1	25
	CHP and/or Cogeneration Process	0	8	1	26	*	104
	<b>Direct Uses-Total Process</b>	208	1	5	231	1	11
	Process Heating	16	1	1	209	*	11
	Process Cooling and Refrigeration	69	*	1	2	0	0
	Machine Drive	121	*	3	11	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	2	*	1	10	*	0
	<b>Direct Uses-Total Nonprocess</b>	48	*	6	40	2	*
	Facility HVAC (g)	21	*	*	30	1	*
	Facility Lighting	19	--	--	--	--	--
	Other Facility Support	6	*	*	9	*	0
	Onsite Transportation	1	--	2	*	1	--
	Conventional Electricity Generation	--	0	2	*	*	0
	Other Nonprocess Use	1	0	Q	1	*	0
	<b>End Use Not Reported</b>	3	*	*	10	*	7
3112	<b>Grain and Oilseed Milling</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	62	2	1	118	*	114
	<b>Indirect Uses-Boiler Fuel</b>	2	2	*	64	*	100
	Conventional Boiler Use	2	2	*	56	*	21

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)	
	CHP and/or Cogeneration Process	0	0	*	9	0	79	
	<b>Direct Uses-Total Process</b>	54	0	*	49	*	8	
	Process Heating	1	0	*	45	*	8	
	Process Cooling and Refrigeration	5	0	0	0	0	0	
	Machine Drive	47	0	*	2	*	0	
	Electro-Chemical Processes	*	--	--	--	--	--	
	Other Process Use	*	0	*	1	0	0	
	<b>Direct Uses-Total Nonprocess</b>	5	0	1	4	*	*	
	Facility HVAC (g)	2	0	*	3	*	*	
	Facility Lighting	2	--	--	--	--	--	
	Other Facility Support	1	0	*	*	*	0	
	Onsite Transportation	*	--	1	*	*	--	
	Conventional Electricity Generation	--	0	*	*	0	0	
	Other Nonprocess Use	*	0	*	*	*	0	
	<b>End Use Not Reported</b>	1	0	*	1	*	6	
311221	Wet Corn Milling							
	<b>TOTAL FUEL CONSUMPTION</b>	31	*	*	52	*	95	
	<b>Indirect Uses-Boiler Fuel</b>	2	*	*	24	*	82	
	Conventional Boiler Use	2	*	0	17	*	16	
	CHP and/or Cogeneration Process	0	0	*	7	0	66	
	<b>Direct Uses-Total Process</b>	27	0	*	28	*	7	
	Process Heating	*	0	*	28	*	7	
	Process Cooling and Refrigeration	4	0	0	0	0	0	
	Machine Drive	23	0	*	0	*	0	
	Electro-Chemical Processes	0	--	--	--	--	--	
	Other Process Use	*	0	*	0	0	0	
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	1	*	0	
	Facility HVAC (g)	1	0	0	1	*	0	
	Facility Lighting	1	--	--	--	--	--	
	Other Facility Support	*	0	*	*	0	0	
	Onsite Transportation	*	--	*	0	*	--	
	Conventional Electricity Generation	--	0	*	0	0	0	
	Other Nonprocess Use	0	0	*	0	0	0	
	<b>End Use Not Reported</b>	1	0	0	0	*	6	
31131	Sugar							
	<b>TOTAL FUEL CONSUMPTION</b>	7	9	1	18	*	31	
	<b>Indirect Uses-Boiler Fuel</b>	*	8	1	13	*	28	
	Conventional Boiler Use	*	0	*	2	0	3	
	CHP and/or Cogeneration Process	0	8	1	10	*	26	
	<b>Direct Uses-Total Process</b>	5	*	*	4	*	3	
	Process Heating	*	*	*	4	0	3	
	Process Cooling and Refrigeration	*	0	0	0	0	0	
	Machine Drive	5	0	*	*	0	0	
	Electro-Chemical Processes	*	--	--	--	--	--	
	Other Process Use	0	0	0	0	*	0	
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	1	*	*	

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Facility HVAC (g)	*	0	0	*	*	*
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	0	0	*	0
3114	<b>Fruit and Vegetable Preserving and Specialty Foods</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	34	2	1	126	1	1
	<b>Indirect Uses-Boiler Fuel</b>	1	2	Q	91	*	1
	Conventional Boiler Use	1	2	Q	87	*	1
	CHP and/or Cogeneration Process	0	0	0	4	0	0
	<b>Direct Uses-Total Process</b>	27	*	*	27	*	0
	Process Heating	3	*	*	26	*	0
	Process Cooling and Refrigeration	13	0	*	*	0	0
	Machine Drive	12	0	*	1	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	*	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	6	*	*	8	1	0
	Facility HVAC (g)	2	*	*	6	*	0
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	0	*	2	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	*	*	0	0
3115	<b>Dairy Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	35	1	1	83	*	*
	<b>Indirect Uses-Boiler Fuel</b>	1	Q	1	37	*	0
	Conventional Boiler Use	1	Q	1	36	*	0
	CHP and/or Cogeneration Process	0	0	*	1	0	0
	<b>Direct Uses-Total Process</b>	27	*	Q	38	*	0
	Process Heating	2	*	*	31	*	0
	Process Cooling and Refrigeration	11	0	*	*	0	0
	Machine Drive	14	0	*	2	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	Q	0	*	5	0	0
	<b>Direct Uses-Total Nonprocess</b>	7	*	*	5	*	0
	Facility HVAC (g)	3	*	*	4	*	0
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	*	*	1	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	*	2	*	*

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
3116	<b>Animal Slaughtering and Processing</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	60	3	5	145	1	0
	<b>Indirect Uses-Boiler Fuel</b>	1	3	1	98	*	0
	Conventional Boiler Use	1	3	1	98	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	48	Q	1	36	*	0
	Process Heating	3	*	*	29	*	0
	Process Cooling and Refrigeration	25	*	*	1	0	0
	Machine Drive	18	*	*	3	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	Q	3	*	0
	<b>Direct Uses-Total Nonprocess</b>	10	*	2	11	*	0
	Facility HVAC (g)	4	*	*	8	*	0
	Facility Lighting	4	--	--	--	--	--
	Other Facility Support	1	*	*	3	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	Q	*	*	0
	<b>End Use Not Reported</b>	*	*	*	*	*	0
312	<b>BEVERAGE AND TOBACCO PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	32	3	1	41	1	20
	<b>Indirect Uses-Boiler Fuel</b>	*	2	*	30	*	18
	Conventional Boiler Use	*	2	*	27	*	3
	CHP and/or Cogeneration Process	0	0	*	3	0	15
	<b>Direct Uses-Total Process</b>	23	*	*	7	*	2
	Process Heating	1	*	0	4	*	0
	Process Cooling and Refrigeration	8	0	0	*	0	0
	Machine Drive	13	0	*	1	*	1
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	2	*	1
	<b>Direct Uses-Total Nonprocess</b>	9	*	*	4	*	*
	Facility HVAC (g)	4	*	*	4	*	*
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	0	*	*	*	*
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	*	0	*	*	*	*
	<b>End Use Not Reported</b>	*	0	*	*	*	0
3121	<b>Beverages</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	28	2	1	38	1	16
	<b>Indirect Uses-Boiler Fuel</b>	*	2	*	28	*	14
	Conventional Boiler Use	*	2	*	25	*	Q
	CHP and/or Cogeneration Process	0	0	*	3	0	13
	<b>Direct Uses-Total Process</b>	21	0	*	6	*	2

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Process Heating	1	0	0	4	*	0
	Process Cooling and Refrigeration	8	0	0	*	0	0
	Machine Drive	11	0	*	1	*	1
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	2	*	1
	<b>Direct Uses-Total Nonprocess</b>	7	0	*	4	*	*
	Facility HVAC (g)	2	0	*	4	*	*
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	0	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	*
	<b>End Use Not Reported</b>	*	0	*	*	*	0
3122	Tobacco						
	<b>TOTAL FUEL CONSUMPTION</b>	5	1	*	3	*	4
	<b>Indirect Uses-Boiler Fuel</b>	*	1	*	2	*	4
	Conventional Boiler Use	*	1	*	2	*	2
	CHP and/or Cogeneration Process	0	0	0	0	0	2
	<b>Direct Uses-Total Process</b>	2	*	*	*	*	0
	Process Heating	*	*	0	*	0	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	2	0	*	*	*	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	*	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	2	*	*	*	*	*
	Facility HVAC (g)	2	*	*	*	*	*
	Facility Lighting	1	--	--	--	--	*
	Other Facility Support	*	0	0	*	*	*
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	0	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	0	0	*	0
313	TEXTILE MILLS						
	<b>TOTAL FUEL CONSUMPTION</b>	67	2	*	65	*	32
	<b>Indirect Uses-Boiler Fuel</b>	1	*	*	34	*	32
	Conventional Boiler Use	1	*	*	34	*	17
	CHP and/or Cogeneration Process	0	0	*	*	0	Q
	<b>Direct Uses-Total Process</b>	52	2	*	23	*	0
	Process Heating	7	Q	0	21	*	0
	Process Cooling and Refrigeration	9	*	0	0	0	0
	Machine Drive	36	*	*	Q	*	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	Q	*	0	Q	0	0
	<b>Direct Uses-Total Nonprocess</b>	15	*	*	8	*	0
	Facility HVAC (g)	8	*	*	7	*	0
	Facility Lighting	6	--	--	--	--	--

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Other Facility Support	1	*	*	*	0	0
	Onsite Transportation	*	--	*	Q	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	*	0	0	0
	<b>End Use Not Reported</b>	0	0	0	*	*	0
314	<b>TEXTILE PRODUCT MILLS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	20	Q	*	46	1	3
	<b>Indirect Uses-Boiler Fuel</b>	*	Q	*	16	*	Q
	Conventional Boiler Use	*	Q	*	16	*	Q
	CHP and/or Cogeneration Process	0	0	*	*	0	0
	<b>Direct Uses-Total Process</b>	13	0	0	Q	*	Q
	Process Heating	2	0	0	Q	*	Q
	Process Cooling and Refrigeration	2	0	0	Q	0	0
	Machine Drive	9	0	0	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	0	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	6	0	*	3	*	*
	Facility HVAC (g)	3	0	*	3	*	*
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	1	0	0	*	0	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	0	Q	*	*
315	<b>APPAREL</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	7	*	*	7	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	4	*	0
	Conventional Boiler Use	*	*	*	4	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	3	0	0	2	*	0
	Process Heating	*	0	0	Q	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	2	0	0	Q	0	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	*	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	4	0	*	1	*	0
	Facility HVAC (g)	2	0	0	1	0	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	0	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	0	0	0	0
	<b>End Use Not Reported</b>	*	0	*	*	*	0
316	<b>LEATHER AND ALLIED PRODUCTS</b>						

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	<b>TOTAL FUEL CONSUMPTION</b>	1	*	*	1	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	*	0	0
	Conventional Boiler Use	*	*	*	*	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	1	0	0	1	*	0
	Process Heating	*	0	0	1	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	1	0	0	*	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	*	0	*	*	*	0
	Facility HVAC (g)	*	0	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	0	*	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	*	0	0	0
	<b>End Use Not Reported</b>	*	0	0	*	0	0
321	<b>WOOD PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	99	4	15	86	5	Q
	<b>Indirect Uses-Boiler Fuel</b>	2	Q	1	25	*	1
	Conventional Boiler Use	2	Q	1	16	*	1
	CHP and/or Cogeneration Process	0	0	*	9	*	*
	<b>Direct Uses-Total Process</b>	81	1	3	52	1	Q
	Process Heating	7	*	*	47	1	Q
	Process Cooling and Refrigeration	1	0	*	*	0	0
	Machine Drive	72	*	2	Q	*	0
	Electro-Chemical Processes	1	--	--	--	--	--
	Other Process Use	*	*	*	3	*	0
	<b>Direct Uses-Total Nonprocess</b>	13	*	11	7	3	0
	Facility HVAC (g)	5	*	*	6	*	0
	Facility Lighting	7	--	--	--	--	--
	Other Facility Support	1	*	*	*	*	0
	Onsite Transportation	*	--	10	*	3	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	*	0	1	*	*	0
	<b>End Use Not Reported</b>	2	2	*	2	1	*
321113	<b>Sawmills</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	30	*	8	12	*	0
	<b>Indirect Uses-Boiler Fuel</b>	1	*	1	Q	*	0
	Conventional Boiler Use	1	*	1	Q	*	0
	CHP and/or Cogeneration Process	0	0	*	*	0	0
	<b>Direct Uses-Total Process</b>	25	*	2	5	*	0
	Process Heating	3	*	*	4	*	0
	Process Cooling and Refrigeration	*	0	*	0	0	0

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Machine Drive	22	0	1	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	0	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>3</b>	<b>*</b>	<b>6</b>	<b>*</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	1	*	*	*	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	5	*	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	<b>1</b>	<b>0</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>0</b>
3212	<b>Veneer, Plywood, and Engineered Woods</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>34</b>	<b>*</b>	<b>1</b>	<b>45</b>	<b>3</b>	<b>2</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>1</b>	<b>*</b>	<b>15</b>	<b>*</b>	<b>1</b>	
	Conventional Boiler Use	1	*	6	*	1	
	CHP and/or Cogeneration Process	0	0	0	9	0	*
	<b>Direct Uses-Total Process</b>	<b>28</b>	<b>*</b>	<b>*</b>	<b>27</b>	<b>*</b>	<b>1</b>
	Process Heating	2	*	*	23	*	1
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	25	0	*	Q	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	3	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>0</b>
	Facility HVAC (g)	2	0	*	1	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	1	0	2	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	0	0
	<b>End Use Not Reported</b>	<b>1</b>	<b>0</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>*</b>
3219	<b>Other Wood Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>33</b>	<b>*</b>	<b>5</b>	<b>28</b>	<b>1</b>	<b>Q</b>
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	3	*	0
	Conventional Boiler Use	*	*	*	3	*	0
	CHP and/or Cogeneration Process	0	0	0	0	*	0
	<b>Direct Uses-Total Process</b>	<b>27</b>	<b>*</b>	<b>*</b>	<b>Q</b>	<b>*</b>	<b>Q</b>
	Process Heating	2	0	*	Q	*	Q
	Process Cooling and Refrigeration	1	0	0	*	0	0
	Machine Drive	24	*	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>5</b>	<b>0</b>	<b>4</b>	<b>5</b>	<b>1</b>	<b>0</b>
	Facility HVAC (g)	2	0	*	5	*	0
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	0	*	*	*	0
	Onsite Transportation	*	--	4	0	1	--

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	*	*	*	*	0
<b>322</b>	<b>PAPER</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>417</b>	<b>91</b>	<b>13</b>	<b>474</b>	<b>5</b>	<b>221</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>31</b>	<b>W</b>	<b>5</b>	<b>277</b>	<b>*</b>	<b>194</b>
	Conventional Boiler Use	31	W	2	120	*	11
	CHP and/or Cogeneration Process	0	45	3	157	*	183
	<b>Direct Uses-Total Process</b>	<b>342</b>	<b>25</b>	<b>3</b>	<b>142</b>	<b>1</b>	<b>W</b>
	Process Heating	18	23	3	124	1	W
	Process Cooling and Refrigeration	7	*	0	2	0	*
	Machine Drive	309	2	*	12	*	2
	Electro-Chemical Processes	4	--	--	--	--	--
	Other Process Use	4	0	*	4	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>40</b>	<b>3</b>	<b>3</b>	<b>18</b>	<b>3</b>	<b>1</b>
	Facility HVAC (g)	18	1	*	14	*	1
	Facility Lighting	16	--	--	--	--	--
	Other Facility Support	4	1	*	1	*	*
	Onsite Transportation	1	--	3	*	3	--
	Conventional Electricity Generation	--	*	*	3	*	*
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	4	W	2	37	Q	W
<b>322110</b>	<b>Pulp Mills</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>21</b>	<b>11</b>	<b>4</b>	<b>13</b>	<b>*</b>	<b>6</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>8</b>	<b>*</b>	<b>6</b>
	Conventional Boiler Use	1	*	*	4	*	0
	CHP and/or Cogeneration Process	0	5	*	3	0	6
	<b>Direct Uses-Total Process</b>	<b>16</b>	<b>4</b>	<b>2</b>	<b>5</b>	<b>*</b>	<b>0</b>
	Process Heating	1	4	2	5	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	15	0	*	*	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	0	0	*	0	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>2</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	1	*	0	*	0	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	0	0	*	0	0	0
	<b>End Use Not Reported</b>	2	2	1	1	0	0
<b>322121</b>	<b>Paper Mills, except Newsprint</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>158</b>	<b>47</b>	<b>2</b>	<b>174</b>	<b>1</b>	<b>122</b>

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	<b>Indirect Uses-Boiler Fuel</b>	7	33	1	95	*	117
	Conventional Boiler Use	7	7	*	39	*	9
	CHP and/or Cogeneration Process	0	26	1	56	*	108
	<b>Direct Uses-Total Process</b>	135	14	*	66	*	5
	Process Heating	8	13	*	55	*	2
	Process Cooling and Refrigeration	2	*	0	2	0	
	Machine Drive	123	1	*	9	*	2
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	16	1	1	6	1	1
	Facility HVAC (g)	7	*	*	4	*	1
	Facility Lighting	7	--	--	--	--	--
	Other Facility Support	2	*	*	*	*	*
	Onsite Transportation	*	--	1	*	1	--
	Conventional Electricity Generation	--	*	0	1	0	*
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	*	7	*	0
322122	<b>Newsprint Mills</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	37	2	*	8	*	14
	<b>Indirect Uses-Boiler Fuel</b>	*	1	*	6	*	14
	Conventional Boiler Use	*	*	*	*	*	0
	CHP and/or Cogeneration Process	0	*	*	6	0	14
	<b>Direct Uses-Total Process</b>	34	0	*	2	*	0
	Process Heating	1	0	0	1	*	0
	Process Cooling and Refrigeration	1	0	0	0	0	0
	Machine Drive	30	0	*	0	*	0
	Electro-Chemical Processes	2	--	--	--	--	--
	Other Process Use	0	0	*	1	0	0
	<b>Direct Uses-Total Nonprocess</b>	3	2	*	*	*	0
	Facility HVAC (g)	1	1	0	*	0	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	1	*	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	*	0	0
322130	<b>Paperboard Mills</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	134	29	6	142	*	73
	<b>Indirect Uses-Boiler Fuel</b>	16	W	3	103	0	52
	Conventional Boiler Use	16	W	2	40	0	2
	CHP and/or Cogeneration Process	0	15	2	62	0	50
	<b>Direct Uses-Total Process</b>	110	6	1	31	*	W
	Process Heating	5	6	1	26	*	W
	Process Cooling and Refrigeration	1	0	0	*	0	0
	Machine Drive	100	*	*	3	*	0
	Electro-Chemical Processes	2	--	--	--	--	--

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Other Process Use	3	0	*	2	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>7</b>	*	1	4	*	*
	Facility HVAC (g)	3	*	*	1	*	*
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	0	*	1	*	0
	Onsite Transportation	*	--	1	0	*	--
	Conventional Electricity Generation	--	*	*	1	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	<b>1</b>	<b>W</b>	*	<b>5</b>	*	<b>W</b>
323	<b>PRINTING AND RELATED SUPPORT</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>44</b>	*	*	<b>39</b>	<b>1</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	5	*	0
	Conventional Boiler Use	*	0	0	5	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	<b>27</b>	0	*	<b>26</b>	*	0
	Process Heating	1	0	0	25	*	0
	Process Cooling and Refrigeration	3	0	0	*	0	0
	Machine Drive	23	0	*	Q	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>16</b>	*	*	<b>8</b>	<b>1</b>	<b>0</b>
	Facility HVAC (g)	8	*	*	7	*	0
	Facility Lighting	5	--	--	--	--	--
	Other Facility Support	2	*	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>Q</b>	*	<b>0</b>
324	<b>PETROLEUM AND COAL PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>205</b>	<b>58</b>	<b>25</b>	<b>849</b>	<b>29</b>	<b>53</b>
	<b>Indirect Uses-Boiler Fuel</b>	3	W	4	280	3	2
	Conventional Boiler Use	3	W	2	120	3	1
	CHP and/or Cogeneration Process	0	*	2	160	1	*
	<b>Direct Uses-Total Process</b>	<b>188</b>	<b>12</b>	<b>17</b>	<b>545</b>	<b>23</b>	<b>51</b>
	Process Heating	8	12	11	504	21	1
	Process Cooling and Refrigeration	11	0	*	1	*	0
	Machine Drive	168	0	6	17	1	51
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	Q	0	*	23	1	0
	<b>Direct Uses-Total Nonprocess</b>	<b>14</b>	<b>0</b>	<b>3</b>	<b>21</b>	*	0
	Facility HVAC (g)	7	0	*	8	*	0
	Facility Lighting	5	--	--	--	--	--
	Other Facility Support	2	0	*	1	*	0
	Onsite Transportation	*	--	3	*	*	--
	Conventional Electricity Generation	--	0	*	12	0	0
	Other Nonprocess Use	*	0	*	*	*	0

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	<b>End Use Not Reported</b>	*	W	1	Q	2	0
<b>324110</b>	<b>Petroleum Refineries</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	193	52	8	789	28	1
	<b>Indirect Uses-Boiler Fuel</b>	2	W	4	256	3	*
	Conventional Boiler Use	2	W	2	96	3	*
	CHP and/or Cogeneration Process	0	*	2	160	1	0
	<b>Direct Uses-Total Process</b>	179	7	2	515	23	1
	Process Heating	6	7	1	482	21	1
	Process Cooling and Refrigeration	11	0	*	1	*	0
	Machine Drive	162	0	1	15	1	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	17	1	0
	<b>Direct Uses-Total Nonprocess</b>	11	0	1	17	*	0
	Facility HVAC (g)	6	0	*	4	*	0
	Facility Lighting	4	--	--	--	--	--
	Other Facility Support	1	0	*	1	0	0
	Onsite Transportation	*	--	1	*	*	--
	Conventional Electricity Generation	--	0	*	12	0	0
	Other Nonprocess Use	*	0	*	*	0	0
	<b>End Use Not Reported</b>	0	W	1	*	2	0
<b>324199</b>	<b>Other Petroleum and Coal Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	2	0	*	3	*	52
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	*	*	2
	Conventional Boiler Use	*	0	0	*	*	1
	CHP and/or Cogeneration Process	0	0	0	*	0	*
	<b>Direct Uses-Total Process</b>	2	0	*	3	*	51
	Process Heating	*	0	*	2	*	0
	Process Cooling and Refrigeration	*	0	*	*	0	0
	Machine Drive	1	0	*	*	0	51
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	*	0	0	0	*	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	*	*	0
	Facility HVAC (g)	*	0	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	*	*	0	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	0	0	*	0
	<b>End Use Not Reported</b>	0	0	*	0	0	0
<b>325</b>	<b>CHEMICALS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	707	23	9	1,394	7	167
	<b>Indirect Uses-Boiler Fuel</b>	30	18	4	825	2	151
	Conventional Boiler Use	30	15	4	384	2	55

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	CHP and/or Cogeneration Process	0	3	*	441	*	97
	<b>Direct Uses-Total Process</b>	<b>590</b>	<b>5</b>	<b>2</b>	<b>510</b>	<b>4</b>	<b>8</b>
	Process Heating	35	5	1	388	*	7
	Process Cooling and Refrigeration	56	0	*	17	*	0
	Machine Drive	397	0	1	65	*	1
	Electro-Chemical Processes	96	--	--	--	--	--
	Other Process Use	6	0	*	41	4	*
	<b>Direct Uses-Total Nonprocess</b>	<b>81</b>	<b>*</b>	<b>3</b>	<b>33</b>	<b>1</b>	<b>*</b>
	Facility HVAC (g)	42	*	1	23	*	*
	Facility Lighting	26	--	--	--	--	--
	Other Facility Support	10	0	*	2	*	0
	Onsite Transportation	1	--	2	*	1	--
	Conventional Electricity Generation	--	0	*	3	*	0
	Other Nonprocess Use	2	*	*	5	*	0
	<b>End Use Not Reported</b>	<b>5</b>	<b>0</b>	<b>*</b>	<b>25</b>	<b>*</b>	<b>7</b>
325110	Petrochemicals						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>33</b>	<b>5</b>	<b>1</b>	<b>110</b>	<b>*</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>*</b>	<b>5</b>	<b>*</b>	<b>37</b>	<b>0</b>	<b>0</b>
	Conventional Boiler Use	*	5	*	19	0	0
	CHP and/or Cogeneration Process	0	0	*	18	0	0
	<b>Direct Uses-Total Process</b>	<b>29</b>	<b>0</b>	<b>*</b>	<b>72</b>	<b>0</b>	<b>0</b>
	Process Heating	4	0	*	W	0	0
	Process Cooling and Refrigeration	3	0	0	*	0	0
	Machine Drive	21	0	*	W	0	0
	Electro-Chemical Processes	2	--	--	--	--	--
	Other Process Use	*	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>4</b>	<b>0</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	2	0	*	*	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	0	0	*	1	*	0
	<b>End Use Not Reported</b>	*	0	0	*	0	0
325120	Industrial Gases						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>71</b>	<b>0</b>	<b>*</b>	<b>14</b>	<b>*</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>*</b>	<b>0</b>	<b>*</b>	<b>6</b>	<b>0</b>	<b>0</b>
	Conventional Boiler Use	*	0	*	6	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	<b>68</b>	<b>0</b>	<b>*</b>	<b>8</b>	<b>*</b>	<b>0</b>
	Process Heating	*	0	*	6	*	0
	Process Cooling and Refrigeration	2	0	*	*	0	0
	Machine Drive	66	0	*	0	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	0	0	0	2	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>3</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Facility HVAC (g)	2	0	*	*	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	0	0
	Onsite Transportation	0	--	0	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	0	0	0	0
	<b>End Use Not Reported</b>	0	0	0	*	*	0
325181	Alkalies and Chlorine						
	<b>TOTAL FUEL CONSUMPTION</b>	55	0	*	106	*	16
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	58	0	15
	Conventional Boiler Use	*	0	*	14	0	5
	CHP and/or Cogeneration Process	0	0	0	43	0	10
	<b>Direct Uses-Total Process</b>	53	0	*	48	0	2
	Process Heating	*	0	0	15	0	2
	Process Cooling and Refrigeration	1	0	0	0	0	0
	Machine Drive	8	0	*	33	0	0
	Electro-Chemical Processes	41	--	--	--	--	--
	Other Process Use	3	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	*	*	0
	Facility HVAC (g)	1	0	0	*	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	*	0	0
	Other Nonprocess Use	*	0	0	*	0	0
	<b>End Use Not Reported</b>	0	0	0	0	0	0
325182	Carbon Black						
	<b>TOTAL FUEL CONSUMPTION</b>	3	*	*	11	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	*	0	2	0	0
	Conventional Boiler Use	*	*	0	2	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	2	*	*	4	0	0
	Process Heating	*	*	0	3	0	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	2	0	*	*	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	0	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	1	*	*	*	*	0
	Facility HVAC (g)	*	*	0	*	0	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	0	0	0	0	0	0
	<b>End Use Not Reported</b>	0	0	0	5	0	0

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
325188	Other Basic Inorganic Chemicals						
	<b>TOTAL FUEL CONSUMPTION</b>	85	9	1	54	*	23
	<b>Indirect Uses-Boiler Fuel</b>	1	5	*	14	*	22
	Conventional Boiler Use	1	5	*	14	*	3
	CHP and/or Cogeneration Process	0	0	0	1	0	19
	<b>Direct Uses-Total Process</b>	76	3	*	33	*	1
	Process Heating	2	3	*	30	*	1
	Process Cooling and Refrigeration	2	0	*	*	0	0
	Machine Drive	54	0	*	*	*	0
	Electro-Chemical Processes	17	--	--	--	--	--
	Other Process Use	1	0	*	2	*	0
	<b>Direct Uses-Total Nonprocess</b>	7	0	*	2	*	0
	Facility HVAC (g)	3	0	*	1	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	1	0	*	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	1	0	*	*	*	0
	<b>End Use Not Reported</b>	2	0	*	5	*	0
325192	Cyclic Crudes and Intermediates						
	<b>TOTAL FUEL CONSUMPTION</b>	9	1	*	16	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	1	*	9	0	0
	Conventional Boiler Use	*	1	*	9	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	8	0	*	6	*	0
	Process Heating	6	0	*	6	*	0
	Process Cooling and Refrigeration	1	0	0	0	0	0
	Machine Drive	2	0	*	0	0	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	*	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	*	*	0
	Facility HVAC (g)	*	0	0	*	0	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	*	*	0
325193	Ethyl Alcohol						
	<b>TOTAL FUEL CONSUMPTION</b>	11	0	*	82	*	19
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	49	*	12
	Conventional Boiler Use	*	0	*	46	*	11
	CHP and/or Cogeneration Process	0	0	*	3	0	1
	<b>Direct Uses-Total Process</b>	10	0	*	29	*	0

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Process Heating	1	0	0	26	*	0
	Process Cooling and Refrigeration	1	0	0	0	0	0
	Machine Drive	7	0	*	0	0	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	*	0	0	3	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>1</b>	<b>0</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>*</b>
	Facility HVAC (g)	*	0	0	1	*	*
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>3</b>	<b>0</b>	<b>7</b>
325199	Other Basic Organic Chemicals						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>109</b>	<b>2</b>	<b>2</b>	<b>306</b>	<b>*</b>	<b>54</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>206</b>	<b>*</b>	<b>50</b>
	Conventional Boiler Use	1	1	2	116	*	8
	CHP and/or Cogeneration Process	0	*	*	90	*	42
	<b>Direct Uses-Total Process</b>	<b>97</b>	<b>*</b>	<b>*</b>	<b>85</b>	<b>*</b>	<b>3</b>
	Process Heating	4	*	*	66	*	3
	Process Cooling and Refrigeration	12	0	0	4	0	0
	Machine Drive	61	0	*	2	0	1
	Electro-Chemical Processes	20	--	--	--	--	--
	Other Process Use	*	0	*	13	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>10</b>	<b>*</b>	<b>*</b>	<b>5</b>	<b>*</b>	<b>*</b>
	Facility HVAC (g)	5	*	0	3	*	*
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	2	0	*	1	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	1	0	0
	Other Nonprocess Use	*	0	*	1	*	0
	<b>End Use Not Reported</b>	<b>1</b>	<b>0</b>	<b>*</b>	<b>10</b>	<b>*</b>	<b>0</b>
325211	Plastics Materials and Resins						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>127</b>	<b>*</b>	<b>1</b>	<b>333</b>	<b>6</b>	<b>11</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>23</b>	<b>*</b>	<b>0</b>	<b>264</b>	<b>2</b>	<b>11</b>
	Conventional Boiler Use	23	*	*	52	2	11
	CHP and/or Cogeneration Process	0	0	0	213	0	0
	<b>Direct Uses-Total Process</b>	<b>93</b>	<b>*</b>	<b>0</b>	<b>64</b>	<b>4</b>	<b>0</b>
	Process Heating	3	*	*	W	*	0
	Process Cooling and Refrigeration	11	0	*	1	*	0
	Machine Drive	66	0	*	W	*	0
	Electro-Chemical Processes	13	--	--	--	--	--
	Other Process Use	*	0	*	8	4	0
	<b>Direct Uses-Total Nonprocess</b>	<b>11</b>	<b>0</b>	<b>*</b>	<b>4</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	4	0	*	2	*	0
	Facility Lighting	4	--	--	--	--	--

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Other Facility Support	3	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	*	0	*	2	*	0
	<b>End Use Not Reported</b>	*	0	0	1	*	0
325212	<b>Synthetic Rubber</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	7	*	*	26	*	6
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	22	*	6
	Conventional Boiler Use	*	*	*	6	*	3
	CHP and/or Cogeneration Process	0	0	0	16	0	3
	<b>Direct Uses-Total Process</b>	6	0	*	4	*	0
	Process Heating	*	0	0	3	*	0
	Process Cooling and Refrigeration	1	0	0	*	0	0
	Machine Drive	4	0	*	*	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	1	*	*	*	*	0
	Facility HVAC (g)	1	0	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	*	*	*	*	0
	<b>End Use Not Reported</b>	*	0	0	*	0	0
325222	<b>Noncellulosic Organic Fibers</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	19	3	*	34	*	9
	<b>Indirect Uses-Boiler Fuel</b>	3	2	*	20	*	8
	Conventional Boiler Use	3	1	*	12	*	3
	CHP and/or Cogeneration Process	0	1	0	8	0	5
	<b>Direct Uses-Total Process</b>	14	1	*	11	*	*
	Process Heating	1	1	*	8	*	*
	Process Cooling and Refrigeration	3	0	0	*	0	0
	Machine Drive	10	0	*	3	0	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	*	0	*	*	0	*
	<b>Direct Uses-Total Nonprocess</b>	2	*	*	3	*	0
	Facility HVAC (g)	1	*	*	*	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	0	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	2	0	0
	Other Nonprocess Use	*	0	*	*	0	0
	<b>End Use Not Reported</b>	*	0	0	*	*	0
325311	<b>Nitrogenous Fertilizers</b>						

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	<b>TOTAL FUEL CONSUMPTION</b>	9	0	*	117	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	28	*	0
	Conventional Boiler Use	*	0	*	25	*	0
	CHP and/or Cogeneration Process	0	0	0	3	0	0
	<b>Direct Uses-Total Process</b>	8	0	*	88	*	0
	Process Heating	*	0	*	65	*	0
	Process Cooling and Refrigeration	1	0	0	12	0	0
	Machine Drive	7	0	*	6	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	4	*	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	1	*	0
	Facility HVAC (g)	*	0	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	*	0	0	0
	<b>End Use Not Reported</b>	0	0	0	*	*	0
325312	<b>Phosphatic Fertilizers</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	13	*	1	11	*	2
	<b>Indirect Uses-Boiler Fuel</b>	0	*	*	1	0	0
	Conventional Boiler Use	0	0	0	1	0	0
	CHP and/or Cogeneration Process	0	*	*	1	0	0
	<b>Direct Uses-Total Process</b>	12	*	*	10	*	2
	Process Heating	*	*	*	8	*	2
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	12	0	*	2	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	*	*	0
	Facility HVAC (g)	*	0	0	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	0	0	*	0	0	0
	<b>End Use Not Reported</b>	0	0	0	0	*	0
3254	<b>Pharmaceuticals and Medicines</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	47	1	1	46	*	6
	<b>Indirect Uses-Boiler Fuel</b>	1	1	*	37	*	6
	Conventional Boiler Use	1	*	*	20	*	6
	CHP and/or Cogeneration Process	0	1	*	17	*	0
	<b>Direct Uses-Total Process</b>	26	0	*	3	*	*
	Process Heating	6	0	*	2	*	*
	Process Cooling and Refrigeration	6	0	*	*	0	0

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Machine Drive	13	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	20	0	1	6	*	0
	Facility HVAC (g)	12	0	*	5	*	0
	Facility Lighting	5	--	--	--	--	--
	Other Facility Support	2	0	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	1	0	*	1	*	0
	<b>End Use Not Reported</b>	1	0	*	*	*	0
325412	<b>Pharmaceutical Preparation</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	37	1	1	31	*	5
	<b>Indirect Uses-Boiler Fuel</b>	1	1	*	25	*	5
	Conventional Boiler Use	1	*	*	12	*	5
	CHP and/or Cogeneration Process	0	1	*	13	*	0
	<b>Direct Uses-Total Process</b>	21	0	*	2	*	*
	Process Heating	6	0	*	2	0	*
	Process Cooling and Refrigeration	4	0	0	*	0	0
	Machine Drive	10	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	15	0	1	4	*	0
	Facility HVAC (g)	9	0	*	3	*	0
	Facility Lighting	4	--	--	--	--	--
	Other Facility Support	1	0	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	1	0	*	1	*	0
	<b>End Use Not Reported</b>	Q	0	*	*	*	0
325992	<b>Photographic Film, Paper, Plate, and Chemicals</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	7	*	*	7	*	16
	<b>Indirect Uses-Boiler Fuel</b>	1	*	*	4	0	16
	Conventional Boiler Use	1	*	*	1	0	0
	CHP and/or Cogeneration Process	0	*	*	3	0	16
	<b>Direct Uses-Total Process</b>	4	0	*	2	*	0
	Process Heating	*	0	*	1	*	0
	Process Cooling and Refrigeration	1	0	0	*	0	0
	Machine Drive	3	0	*	*	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	2	*	*	1	*	0
	Facility HVAC (g)	1	*	*	1	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	0	*	*	0
<b>326</b>	<b>PLASTICS AND RUBBER PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>182</b>	<b>9</b>	<b>3</b>	<b>127</b>	<b>5</b>	<b>Q</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>1</b>	<b>6</b>	<b>Q</b>	<b>58</b>	<b>*</b>	<b>Q</b>
	Conventional Boiler Use	1	6	Q	58	*	Q
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	<b>139</b>	<b>Q</b>	<b>Q</b>	<b>37</b>	<b>Q</b>	<b>0</b>
	Process Heating	28	Q	*	31	Q	0
	Process Cooling and Refrigeration	16	0	0	*	0	0
	Machine Drive	92	0	*	3	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	Q	Q	Q	3	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>41</b>	<b>Q</b>	<b>Q</b>	<b>27</b>	<b>3</b>	<b>0</b>
	Facility HVAC (q)	20	Q	*	24	Q	0
	Facility Lighting	16	--	--	--	--	--
	Other Facility Support	5	0	*	2	*	0
	Onsite Transportation	1	--	*	*	2	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	1	0	*	Q	*	0
<b>327</b>	<b>NONMETALLIC MINERAL PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>153</b>	<b>3</b>	<b>30</b>	<b>459</b>	<b>5</b>	<b>320</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>*</b>	<b>0</b>	<b>*</b>	<b>21</b>	<b>Q</b>	<b>*</b>
	Conventional Boiler Use	*	0	*	20	Q	*
	CHP and/or Cogeneration Process	0	0	0	1	0	0
	<b>Direct Uses-Total Process</b>	<b>130</b>	<b>3</b>	<b>18</b>	<b>364</b>	<b>Q</b>	<b>W</b>
	Process Heating	33	3	2	357	Q	W
	Process Cooling and Refrigeration	4	0	*	*	0	0
	Machine Drive	88	0	12	6	*	2
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	5	0	4	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>21</b>	<b>*</b>	<b>11</b>	<b>19</b>	<b>2</b>	<b>0</b>
	Facility HVAC (q)	10	*	*	17	*	0
	Facility Lighting	8	--	--	--	--	--
	Other Facility Support	3	*	*	1	*	0
	Onsite Transportation	1	--	8	*	1	--
	Conventional Electricity Generation	--	0	Q	*	*	0
	Other Nonprocess Use	*	0	2	*	*	0
	<b>End Use Not Reported</b>	1	0	1	55	*	W
<b>327211</b>	<b>Flat Glass</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>6</b>	<b>1</b>	<b>*</b>	<b>52</b>	<b>*</b>	<b>0</b>

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	2	0	0
	Conventional Boiler Use	*	0	*	2	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	6	1	*	49	*	0
	Process Heating	3	1	*	49	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	3	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	1	*	0
	Facility HVAC (g)	*	0	*	1	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	0	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	*	0	0
327212	Other Pressed and Blown Glass and Glassware						
	<b>TOTAL FUEL CONSUMPTION</b>	17	0	*	Q	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	Q	*	0
	Conventional Boiler Use	*	0	*	Q	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	15	0	*	Q	*	0
	Process Heating	4	0	*	Q	*	0
	Process Cooling and Refrigeration	Q	0	0	0	0	0
	Machine Drive	Q	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	0	*	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	3	*	0
	Facility HVAC (g)	Q	0	*	Q	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	0	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	0	3	*	0
327213	Glass Containers						
	<b>TOTAL FUEL CONSUMPTION</b>	13	0	*	50	*	0
	<b>Indirect Uses-Boiler Fuel</b>	0	0	0	*	0	0
	Conventional Boiler Use	0	0	0	*	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	12	0	*	48	*	0
	Process Heating	5	0	*	48	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	7	0	*	0	0	0
	Electro-Chemical Processes	0	--	--	--	--	--

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Other Process Use	*	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	2	*	0
	Facility HVAC (g)	1	0	*	2	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	0	0	0	0
	<b>End Use Not Reported</b>	0	0	0	0	0	0
327215	Glass Products from Purchased Glass						
	<b>TOTAL FUEL CONSUMPTION</b>	13	0	*	52	*	*
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	9	*	*
	Conventional Boiler Use	*	0	*	9	*	*
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	10	0	*	5	*	0
	Process Heating	6	0	*	5	*	0
	Process Cooling and Refrigeration	1	0	*	0	0	0
	Machine Drive	3	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	2	*	0
	Facility HVAC (g)	1	0	*	2	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	0	Q	*	*
327310	Cements						
	<b>TOTAL FUEL CONSUMPTION</b>	46	1	3	20	*	235
	<b>Indirect Uses-Boiler Fuel</b>	0	0	*	1	*	0
	Conventional Boiler Use	0	0	*	Q	*	0
	CHP and/or Cogeneration Process	0	0	0	1	0	0
	<b>Direct Uses-Total Process</b>	39	1	1	18	*	232
	Process Heating	4	1	1	17	*	231
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	34	0	*	Q	*	2
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	6	*	2	*	*	0
	Facility HVAC (g)	3	*	*	*	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	1	0	*	*	*	0
	Onsite Transportation	*	--	2	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	*	0	0	0

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	<b>End Use Not Reported</b>	*	0	1	0	*	2
327410	<b>Lime</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	5	*	1	5	*	78
	<b>Indirect Uses-Boiler Fuel</b>	0	0	0	*	0	0
	Conventional Boiler Use	0	0	0	*	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	4	*	*	5	*	W
	Process Heating	1	*	*	5	*	W
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	4	0	*	0	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	1	*	*	0
	Facility HVAC (g)	*	0	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	1	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	0	0	0	0	*	0
	<b>End Use Not Reported</b>	0	0	*	*	*	W
327420	<b>Gypsum</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	6	*	1	76	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	2	0	0
	Conventional Boiler Use	*	0	*	2	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	6	0	*	71	*	0
	Process Heating	*	0	*	71	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	5	0	*	*	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	0	0	0	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	1	*	1	1	*	0
	Facility HVAC (g)	*	*	0	1	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	*	*	*	0	0
	Onsite Transportation	*	--	1	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	0	0	0	0	*	0
	<b>End Use Not Reported</b>	*	0	0	3	*	0
327993	<b>Mineral Wool</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	14	0	*	34	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	*	*	0
	Conventional Boiler Use	*	0	*	*	*	0

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	12	0	*	27	*	0
	Process Heating	5	0	0	27	*	0
	Process Cooling and Refrigeration	*	0	*	*	0	0
	Machine Drive	5	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	2	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	2	*	0
	Facility HVAC (g)	*	0	*	2	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	*	5	*	0
331	<b>PRIMARY METALS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	478	19	6	585	4	21
	<b>Indirect Uses-Boiler Fuel</b>	1	4	*	57	*	2
	Conventional Boiler Use	1	*	*	30	*	*
	CHP and/or Cogeneration Process	0	4	0	28	0	2
	<b>Direct Uses-Total Process</b>	438	12	2	478	2	14
	Process Heating	135	12	1	458	2	5
	Process Cooling and Refrigeration	4	0	*	2	*	0
	Machine Drive	148	0	*	8	*	0
	Electro-Chemical Processes	146	--	--	--	--	--
	Other Process Use	4	0	*	10	*	9
	<b>Direct Uses-Total Nonprocess</b>	38	*	4	41	1	3
	Facility HVAC (g)	16	*	*	38	*	0
	Facility Lighting	16	--	--	--	--	--
	Other Facility Support	4	*	*	3	*	0
	Onsite Transportation	*	--	4	Q	1	--
	Conventional Electricity Generation	--	0	*	*	*	3
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	1	4	*	8	*	3
331111	<b>Iron and Steel Mills</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	189	19	3	326	*	14
	<b>Indirect Uses-Boiler Fuel</b>	1	4	*	27	0	1
	Conventional Boiler Use	1	*	*	14	0	0
	CHP and/or Cogeneration Process	0	4	0	13	0	1
	<b>Direct Uses-Total Process</b>	174	11	1	285	*	14
	Process Heating	77	11	*	272	*	4
	Process Cooling and Refrigeration	1	0	0	*	0	0
	Machine Drive	89	0	*	5	*	0
	Electro-Chemical Processes	6	--	--	--	--	--
	Other Process Use	1	0	*	7	*	9
	<b>Direct Uses-Total Nonprocess</b>	14	0	2	15	*	0

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Facility HVAC (g)	5	0	*	14	*	0
	Facility Lighting	7	--	--	--	--	--
	Other Facility Support	1	0	0	1	*	0
	Onsite Transportation	*	--	2	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	4	0	*	*	0
331112	<b>Electrometallurgical Ferroalloy Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	11	0	*	1	*	2
	<b>Indirect Uses-Boiler Fuel</b>	0	0	0	1	0	0
	Conventional Boiler Use	0	0	0	1	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	10	0	0	1	0	0
	Process Heating	6	0	0	*	0	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	1	0	0	0	0	0
	Electro-Chemical Processes	3	--	--	--	--	--
	Other Process Use	*	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	*	0	*	*	*	0
	Facility HVAC (g)	*	0	0	*	0	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	0	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	0	0	2
3312	<b>Steel Products from Purchased Steel</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	15	0	*	26	*	*
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	3	0	*
	Conventional Boiler Use	*	0	*	3	0	*
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	13	0	*	18	*	0
	Process Heating	4	0	*	18	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	8	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	0
	Other Process Use	*	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	4	*	0
	Facility HVAC (g)	1	0	0	3	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	0	*	*	0
	<b>End Use Not Reported</b>	*	0	0	*	*	0

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
3313	Alumina and Aluminum						
	<b>TOTAL FUEL CONSUMPTION</b>	153	*	1	116	1	*
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	18	*	0
	Conventional Boiler Use	*	*	*	4	*	0
	CHP and/or Cogeneration Process	0	0	0	14	0	0
	<b>Direct Uses-Total Process</b>	147	*	*	91	1	*
	Process Heating	7	*	*	87	1	*
	Process Cooling and Refrigeration	1	0	0	2	0	0
	Machine Drive	19	0	*	1	*	0
	Electro-Chemical Processes	120	--	--	--	--	--
	Other Process Use	*	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	6	0	1	5	*	0
	Facility HVAC (g)	2	0	*	4	*	0
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	0	*	1	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	0	2	*	0
331314	Secondary Smelting and Alloying of Aluminum						
	<b>TOTAL FUEL CONSUMPTION</b>	2	*	*	18	*	*
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	*	0	0
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	2	*	*	18	*	*
	Process Heating	*	*	0	16	*	*
	Process Cooling and Refrigeration	*	0	0	1	0	0
	Machine Drive	1	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	*	0	*	*	*	0
	Facility HVAC (g)	*	0	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	*	*	0
331315	Aluminum Sheet, Plate and Foils						
	<b>TOTAL FUEL CONSUMPTION</b>	13	0	*	37	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	1	0	0
	Conventional Boiler Use	*	0	*	1	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	12	0	*	33	*	0

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Process Heating	3	0	*	32	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	9	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	2	*	0
	Facility HVAC (g)	1	0	*	1	0	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	0	1	0	0
331316	Aluminum Extruded Products						
	<b>TOTAL FUEL CONSUMPTION</b>	7	*	*	17	1	0
	<b>Indirect Uses-Boiler Fuel</b>	*	*	0	1	*	0
	Conventional Boiler Use	*	*	0	1	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	6	0	*	15	1	0
	Process Heating	1	0	*	14	1	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	4	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	1	*	0
	Facility HVAC (g)	*	0	*	1	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	*	*	0
3314	Nonferrous Metals, except Aluminum						
	<b>TOTAL FUEL CONSUMPTION</b>	53	*	1	43	1	4
	<b>Indirect Uses-Boiler Fuel</b>	1	*	*	5	*	1
	Conventional Boiler Use	1	*	*	5	*	0
	CHP and/or Cogeneration Process	0	0	0	*	0	1
	<b>Direct Uses-Total Process</b>	47	*	*	32	1	*
	Process Heating	17	*	*	30	1	*
	Process Cooling and Refrigeration	1	0	*	*	*	0
	Machine Drive	14	0	*	1	*	0
	Electro-Chemical Processes	14	--	--	--	--	--
	Other Process Use	1	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	5	*	*	3	*	3
	Facility HVAC (g)	2	*	*	3	*	0
	Facility Lighting	2	--	--	--	--	--

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Other Facility Support	1	0	0	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	*	3
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	0	3	*	1
<b>3315</b>	<b>Foundries</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>57</b>	*	1	72	1	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	3	*	0
	Conventional Boiler Use	*	0	*	3	*	0
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	<b>47</b>	*	*	52	*	0
	Process Heating	26	*	*	50	*	0
	Process Cooling and Refrigeration	1	0	*	*	0	0
	Machine Drive	17	0	*	1	*	0
	Electro-Chemical Processes	2	--	--	--	--	--
	Other Process Use	1	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>10</b>	*	1	14	*	0
	Facility HVAC (g)	5	*	*	13	*	0
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	*	*	1	*	0
	Onsite Transportation	*	--	1	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	*	3	*	0
<b>331511</b>	<b>Iron Foundries</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>29</b>	*	1	24	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	1	*	0
	Conventional Boiler Use	*	0	0	1	*	0
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	<b>24</b>	*	*	15	*	0
	Process Heating	14	*	*	13	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	8	0	*	*	*	0
	Electro-Chemical Processes	1	--	--	--	--	--
	Other Process Use	1	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>5</b>	0	1	7	*	0
	Facility HVAC (g)	3	0	*	7	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	1	0	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	*	*	*	0
<b>331521</b>	<b>Aluminum Die-Casting Foundries</b>						

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	<b>TOTAL FUEL CONSUMPTION</b>	7	0	*	15	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	1	*	0
	Conventional Boiler Use	*	0	*	1	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	5	0	*	12	*	0
	Process Heating	2	0	0	12	0	0
	Process Cooling and Refrigeration	*	0	--	--	--	--
	Machine Drive	3	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	*	0
	Other Process Use	*	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	2	*	0
	Facility HVAC (g)	1	0	0	2	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	0	1	*	0
331524	Aluminum Foundries, except Die-Casting						
	<b>TOTAL FUEL CONSUMPTION</b>	4	*	*	13	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	*	0	0
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	3	*	*	11	*	0
	Process Heating	1	*	*	11	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	2	0	0	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	1	*	*	2	*	0
	Facility HVAC (g)	*	*	*	2	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	*	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	0	0	*	0
	<b>End Use Not Reported</b>	*	0	0	1	*	0
332	FABRICATED METAL PRODUCTS						
	<b>TOTAL FUEL CONSUMPTION</b>	144	*	2	240	4	0
	<b>Indirect Uses-Boiler Fuel</b>	1	*	*	37	0	0
	Conventional Boiler Use	1	*	*	35	0	0
	CHP and/or Cogeneration Process	0	0	0	Q	0	0
	<b>Direct Uses-Total Process</b>	111	0	Q	158	1	0
	Process Heating	28	0	Q	155	Q	0
	Process Cooling and Refrigeration	5	0	0	Q	0	0

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Machine Drive	71	0	*	1	*	0
	Electro-Chemical Processes	3	--	--	--	--	--
	Other Process Use	4	0	*	Q	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>31</b>	<b>*</b>	<b>2</b>	<b>38</b>	<b>3</b>	<b>0</b>
	Facility HVAC (g)	14	*	*	35	1	0
	Facility Lighting	14	--	--	--	--	--
	Other Facility Support	3	0	*	2	*	0
	Onsite Transportation	*	--	1	*	3	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>1</b>	<b>0</b>	<b>*</b>	<b>Q</b>	<b>*</b>	<b>0</b>
333	<b>MACHINERY</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>112</b>	<b>Q</b>	<b>2</b>	<b>84</b>	<b>3</b>	<b>1</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>Q</b>	<b>Q</b>	<b>*</b>	<b>21</b>	<b>0</b>	<b>1</b>
	Conventional Boiler Use	Q	Q	*	16	0	0
	CHP and/or Cogeneration Process	0	0	0	Q	0	1
	<b>Direct Uses-Total Process</b>	<b>63</b>	<b>0</b>	<b>*</b>	<b>29</b>	<b>*</b>	<b>0</b>
	Process Heating	8	0	*	25	*	0
	Process Cooling and Refrigeration	3	0	*	*	0	0
	Machine Drive	50	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	2	0	*	Q	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>46</b>	<b>0</b>	<b>1</b>	<b>33</b>	<b>3</b>	<b>0</b>
	Facility HVAC (g)	25	0	*	31	Q	0
	Facility Lighting	16	--	--	--	--	--
	Other Facility Support	3	0	*	Q	*	0
	Onsite Transportation	1	--	*	*	1	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	Q	0	1	*	*	0
	<b>End Use Not Reported</b>	<b>Q</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>*</b>	<b>0</b>
334	<b>COMPUTER AND ELECTRONIC PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>94</b>	<b>*</b>	<b>1</b>	<b>45</b>	<b>*</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>1</b>	<b>*</b>	<b>*</b>	<b>19</b>	<b>*</b>	<b>0</b>
	Conventional Boiler Use	1	*	*	19	*	0
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	<b>48</b>	<b>0</b>	<b>*</b>	<b>4</b>	<b>*</b>	<b>0</b>
	Process Heating	10	0	*	3	*	0
	Process Cooling and Refrigeration	10	0	*	*	0	0
	Machine Drive	19	0	*	*	*	0
	Electro-Chemical Processes	1	--	--	--	--	--
	Other Process Use	7	0	*	1	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>45</b>	<b>*</b>	<b>1</b>	<b>18</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	26	*	*	17	*	0
	Facility Lighting	11	--	--	--	--	--
	Other Facility Support	6	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	2	0	*	1	*	0
	<b>End Use Not Reported</b>	*	0	*	Q	*	0
<b>334413</b>	<b>Semiconductors and Related Devices</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>44</b>	*	*	<b>19</b>	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	9	0	0
	Conventional Boiler Use	*	0	*	9	0	0
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	<b>28</b>	0	*	<b>2</b>	*	0
	Process Heating	6	0	*	1	*	0
	Process Cooling and Refrigeration	6	0	*	*	0	0
	Machine Drive	9	0	0	*	0	0
	Electro-Chemical Processes	1	--	--	--	--	--
	Other Process Use	6	0	*	1	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>16</b>	*	*	<b>8</b>	*	0
	Facility HVAC (g)	11	*	*	7	*	0
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	2	0	0	*	*	0
	Onsite Transportation	*	--	0	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	*	*	*	0
<b>335</b>	<b>ELEC. EQUIP., APPLIANCES, COMPONENTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>44</b>	0	Q	<b>41</b>	<b>1</b>	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	7	0	0
	Conventional Boiler Use	*	0	0	7	0	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	<b>30</b>	0	*	<b>25</b>	*	0
	Process Heating	10	0	*	23	*	0
	Process Cooling and Refrigeration	2	0	*	Q	0	0
	Machine Drive	16	0	*	0	*	0
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	1	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>13</b>	0	*	<b>9</b>	<b>1</b>	0
	Facility HVAC (g)	6	0	*	8	*	0
	Facility Lighting	5	--	--	--	--	--
	Other Facility Support	2	0	*	*	0	0
	Onsite Transportation	*	--	*	*	1	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	Q	0	*	Q	*	0
<b>336</b>	<b>TRANSPORTATION EQUIPMENT</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>197</b>	7	3	<b>249</b>	<b>4</b>	5

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	<b>Indirect Uses-Boiler Fuel</b>						
	Conventional Boiler Use	2	6	*	42	*	5
	CHP and/or Cogeneration Process	2	4	*	37	*	5
		0	2	*	4	0	*
	<b>Direct Uses-Total Process</b>	118	*	Q	114	1	0
	Process Heating	27	*	*	75	Q	0
	Process Cooling and Refrigeration	12	*	0	2	*	0
	Machine Drive	73	*	Q	3	*	0
	Electro-Chemical Processes	2	--	--	--	--	--
	Other Process Use	5	0	*	Q	*	0
	<b>Direct Uses-Total Nonprocess</b>	76	Q	2	89	2	0
	Facility HVAC (g)	38	Q	*	85	*	0
	Facility Lighting	29	--	--	--	--	--
	Other Facility Support	7	*	*	Q	*	0
	Onsite Transportation	1	--	1	*	2	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	1	*	*	*	*	0
	<b>End Use Not Reported</b>	1	0	*	4	*	*
336111	<b>Automobiles</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	13	*	*	21	*	2
	<b>Indirect Uses-Boiler Fuel</b>	*	*	0	3	0	2
	Conventional Boiler Use	*	*	0	3	0	2
	CHP and/or Cogeneration Process	0	0	0	*	0	0
					*	*	0
	<b>Direct Uses-Total Process</b>	7	0	*	13	*	0
	Process Heating	1	0	0	11	*	0
	Process Cooling and Refrigeration	1	0	0	1	0	0
	Machine Drive	5	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	6	0	*	5	*	0
	Facility HVAC (g)	3	0	*	5	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	*	0	*	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	*	1	*	*
336112	<b>Light Trucks and Utility Vehicles</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	15	*	*	25	*	1
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	6	*	1
	Conventional Boiler Use	*	*	*	6	*	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0
					*	*	0
	<b>Direct Uses-Total Process</b>	10	0	*	12	*	0
	Process Heating	*	0	0	11	*	0
	Process Cooling and Refrigeration	1	0	0	*	*	0
	Machine Drive	7	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	Other Process Use	1	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>6</b>	<b>0</b>	<b>*</b>	<b>7</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	3	0	*	7	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	1	0	*	*	0	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	*	*	*	0
3364	<b>Aerospace Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>41</b>	<b>3</b>	<b>1</b>	<b>30</b>	<b>*</b>	<b>*</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>1</b>	<b>3</b>	<b>*</b>	<b>14</b>	<b>*</b>	<b>*</b>
	Conventional Boiler Use	1	1	*	10	*	*
	CHP and/or Cogeneration Process	0	2	*	4	0	0
	<b>Direct Uses-Total Process</b>	<b>19</b>	<b>*</b>	<b>*</b>	<b>7</b>	<b>*</b>	<b>0</b>
	Process Heating	5	*	*	4	*	0
	Process Cooling and Refrigeration	3	*	0	*	*	0
	Machine Drive	9	*	*	Q	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>21</b>	<b>*</b>	<b>*</b>	<b>8</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	11	*	*	7	*	0
	Facility Lighting	8	--	--	--	--	--
	Other Facility Support	2	*	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	*	2	*	0
336411	<b>Aircraft</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>12</b>	<b>*</b>	<b>*</b>	<b>8</b>	<b>*</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>5</b>	<b>*</b>	<b>0</b>
	Conventional Boiler Use	*	*	*	5	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	<b>5</b>	<b>0</b>	<b>*</b>	<b>2</b>	<b>*</b>	<b>0</b>
	Process Heating	1	0	*	1	*	0
	Process Cooling and Refrigeration	1	0	0	*	0	0
	Machine Drive	2	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>7</b>	<b>0</b>	<b>*</b>	<b>2</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	3	0	*	2	*	0
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	0	0	*	0	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
	<b>End Use Not Reported</b>	*	0	*	0	*	0
337	<b>FURNITURE AND RELATED PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	32	*	Q	17	1	3
	<b>Indirect Uses-Boiler Fuel</b>	*	*	Q	1	*	1
	Conventional Boiler Use	*	*	Q	1	*	1
	CHP and/or Cogeneration Process	0	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	15	0	*	7	*	0
	Process Heating	2	0	*	7	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	13	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	0	*	0
	<b>Direct Uses-Total Nonprocess</b>	10	*	Q	7	*	1
	Facility HVAC (g)	4	*	*	7	*	1
	Facility Lighting	4	--	--	--	--	--
	Other Facility Support	1	0	0	*	0	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	Q	0	0	Q	*	Q
339	<b>MISCELLANEOUS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	33	Q	*	25	1	0
	<b>Indirect Uses-Boiler Fuel</b>	1	Q	0	4	*	0
	Conventional Boiler Use	1	Q	0	4	*	0
	CHP and/or Cogeneration Process	0	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	17	*	*	6	*	0
	Process Heating	3	*	*	5	*	0
	Process Cooling and Refrigeration	2	0	0	*	0	0
	Machine Drive	11	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	15	*	*	14	*	0
	Facility HVAC (g)	8	*	*	13	*	0
	Facility Lighting	6	--	--	--	--	--
	Other Facility Support	2	0	0	1	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	0	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	*	Q	*	0

(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

**Table 5.4 End Uses of Fuel Consumption, 2006;**

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)
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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 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, '2006 Manufacturing Energy Consumption Survey.'

**Table 5.5 End Uses of Fuel Consumption, 2006;**

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)
<b>Total United States</b>								
<b>TOTAL FUEL CONSUMPTION</b>	15,658	835,382	40	22	5,357	21	46	5,820
<b>Indirect Uses-Boiler Fuel</b>	--	12,109	21	4	2,059	2	25	--
Conventional Boiler Use		12,109	11	3	1,245	2	6	
CHP and/or Cogeneration Process		0	10	1	814	*	19	
<b>Direct Uses-Total Process</b>	--	657,810	10	9	2,709	10	19	--
Process Heating	--	101,516	9	3	2,417	8	16	--
Process Cooling and Refrigeration	--	60,381	*	*	31	*	*	--
Machine Drive	--	422,408	*	4	126	*	3	--
Electro-Chemical Processes	--	60,323	--	--	--	--	--	--
Other Process Use	--	13,181	*	1	136	1	*	--
<b>Direct Uses-Total Nonprocess</b>	--	157,829	1	9	426	7	*	--
Facility HVAC (f)	--	77,768	1	1	367	1	*	--
Facility Lighting	--	58,013	--	--	--	--	--	--
Other Facility Support	--	17,644	*	*	29	*	*	--
Onsite Transportation	--	2,197	--	6	3	5	--	--
Conventional Electricity Generation	--	--	*	1	19	*	*	--
Other Nonprocess Use	--	2,208	*	1	8	*	*	--
<b>End Use Not Reported</b>	6,125	7,634	8	1	164	1	2	5,820
<b>Northeast Census Region</b>								
<b>TOTAL FUEL CONSUMPTION</b>	1,365	89,696	10	4	480	3	3	389
<b>Indirect Uses-Boiler Fuel</b>	--	687	7	1	167	*	1	--
Conventional Boiler Use		687	4	1	105	*	*	
CHP and/or Cogeneration Process		0	3	*	62	*	1	
<b>Direct Uses-Total Process</b>	--	67,672	3	2	235	2	2	--
Process Heating	--	14,666	3	1	224	2	2	--
Process Cooling and Refrigeration	--	5,877	*	*	*	0	0	--
Machine Drive	--	38,962	*	1	5	*	0	--
Electro-Chemical Processes	--	6,558	--	--	--	--	--	--
Other Process Use	--	1,609	*	*	7	*	0	--
<b>Direct Uses-Total Nonprocess</b>	--	20,400	1	1	59	1	*	--
Facility HVAC (f)	--	9,988	*	*	56	*	*	--
Facility Lighting	--	7,651	--	--	--	--	--	--
Other Facility Support	--	1,905	*	*	2	*	0	--
Onsite Transportation	--	155	--	1	Q	1	--	--
Conventional Electricity Generation	--	--	*	*	*	*	*	--
Other Nonprocess Use	--	701	0	*	*	*	0	--
<b>End Use Not Reported</b>	413	937	*	*	18	*	*	389
<b>Midwest Census Region</b>								
<b>TOTAL FUEL CONSUMPTION</b>	4,144	273,604	6	4	1,537	5	18	1,142
<b>Indirect Uses-Boiler Fuel</b>	--	2,607	3	*	468	*	10	--
Conventional Boiler Use		2,607	2	*	404	*	3	
CHP and/or Cogeneration Process		0	1	*	64	*	7	

**Table 5.5 End Uses of Fuel Consumption, 2006;**

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)
<b>Direct Uses-Total Process</b>	--	214,111	2	Q	828	2	7	--
Process Heating	--	37,139	2	*	748	1	5	--
Process Cooling and Refrigeration	--	19,806	0	*	6	0	0	--
Machine Drive	--	142,735	*	Q	16	*	2	--
Electro-Chemical Processes	--	10,745	--	--	--	--	--	--
Other Process Use	--	3,685	0	Q	Q	1	*	--
<b>Direct Uses-Total Nonprocess</b>	--	55,378	*	2	208	2	*	--
Facility HVAC (f)	--	25,800	*	*	192	*	*	--
Facility Lighting	--	22,230	--	--	--	--	--	--
Other Facility Support	--	6,189	*	*	15	*	0	--
Onsite Transportation	--	848	--	2	*	2	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	311	*	*	1	*	*	--
<b>End Use Not Reported</b>	1,206	1,509	1	*	32	*	1	1,142

**South Census Region**

<b>TOTAL FUEL CONSUMPTION</b>	8,219	371,230	21	8	2,709	7	18	3,549
<b>Indirect Uses-Boiler Fuel</b>	--	7,872	10	2	1,182	1	11	--
Conventional Boiler Use	--	7,872	4	1	571	1	3	--
CHP and/or Cogeneration Process	--	0	6	1	611	*	8	--
<b>Direct Uses-Total Process</b>	--	296,649	4	3	1,310	3	6	--
Process Heating	--	39,715	3	2	1,148	3	6	--
Process Cooling and Refrigeration	--	27,075	*	*	22	*	*	--
Machine Drive	--	188,923	*	1	95	*	*	--
Electro-Chemical Processes	--	35,706	--	--	--	--	--	--
Other Process Use	--	5,229	*	1	45	*	*	--
<b>Direct Uses-Total Nonprocess</b>	--	62,407	*	3	118	3	*	--
Facility HVAC (f)	--	31,990	*	*	85	*	*	--
Facility Lighting	--	21,314	--	--	--	--	--	--
Other Facility Support	--	7,043	*	*	10	*	*	--
Onsite Transportation	--	1,043	--	2	Q	2	--	--
Conventional Electricity Generation	--	--	*	*	16	*	*	--
Other Nonprocess Use	--	1,018	*	*	6	*	*	--
<b>End Use Not Reported</b>	3,744	4,302	7	*	100	1	1	3,549

**West Census Region**

<b>TOTAL FUEL CONSUMPTION</b>	1,945	100,852	3	5	631	5	6	757
<b>Indirect Uses-Boiler Fuel</b>	--	943	1	1	242	1	3	--
Conventional Boiler Use	--	943	1	1	164	1	*	--
CHP and/or Cogeneration Process	--	0	*	*	78	*	2	--
<b>Direct Uses-Total Process</b>	--	79,378	1	2	336	3	3	--
Process Heating	--	9,996	1	Q	297	3	3	--
Process Cooling and Refrigeration	--	7,623	0	*	2	*	0	--
Machine Drive	--	51,788	0	1	10	*	*	--
Electro-Chemical Processes	--	7,313	--	--	--	--	--	--
Other Process Use	--	2,658	*	*	27	*	0	--
<b>Direct Uses-Total Nonprocess</b>	--	19,644	0	2	40	1	*	--

**Table 5.5 End Uses of Fuel Consumption, 2006;**

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)
Facility HVAC (f)	--	9,989	0	*	35	*	*	--
Facility Lighting	--	6,818	--	--	--	--	--	--
Other Facility Support	--	2,508	0	*	3	*	0	--
Onsite Transportation	--	151	--	1	*	1	--	--
Conventional Electricity Generation	--	--	0	*	2	*	0	--
Other Nonprocess Use	--	Q	0	*	*	*	0	--
<b>End Use Not Reported</b>	<b>778</b>	<b>886</b>	<b>1</b>	<b>*</b>	<b>14</b>	<b>*</b>	<b>0</b>	<b>757</b>

(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.

(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, '2006 Manufacturing Energy Consumption Survey.'

**Table 5.6 End Uses of Fuel Consumption, 2006;**

### **Level: National and Regional Data;**

### Row: End Uses:

**Column: Energy Sources, including Net Electricity:**

Column: Energy  
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)
<b>Total United States</b>								
<b>TOTAL FUEL CONSUMPTION</b>	15,658	2,850	251	129	5,512	79	1,016	5,820
Indirect Uses-Boiler Fuel	--	41	133	23	2,119	8	547	--
Conventional Boiler Use		41	71	17	1,281	8	129	
CHP and/or Cogeneration Process		0	62	6	838	1	417	
<b>Direct Uses-Total Process</b>	--	2,244	62	52	2,788	39	412	--
Process Heating	--	346	59	19	2,487	32	345	--
Process Cooling and Refrigeration	--	206	*	1	32	*	*	--
Machine Drive	--	1,441	2	24	129	2	56	--
Electro-Chemical Processes	--	206	--	--	--	--	--	--
Other Process Use	--	45	Q	8	140	5	10	--
<b>Direct Uses-Total Nonprocess</b>	--	539	6	50	438	27	6	--
Facility HVAC (f)	--	265	4	4	378	5	2	--
Facility Lighting	--	198	--	--	--	--	--	--
Other Facility Support	--	60	1	*	30	*	*	--
Onsite Transportation	--	7	--	35	3	20	--	--
Conventional Electricity Generation	--	--	*	4	19	*	3	--
Other Nonprocess Use	--	8	*	6	8	1	*	--
<b>End Use Not Reported</b>	6,125	26	49	4	168	5	52	5,820
<b>Northeast Census Region</b>								
<b>TOTAL FUEL CONSUMPTION</b>	1,365	306	64	24	494	13	76	389
Indirect Uses-Boiler Fuel	--	2	43	5	172	1	32	--
Conventional Boiler Use		2	26	4	108	1	5	
CHP and/or Cogeneration Process		0	17	1	64	*	27	
<b>Direct Uses-Total Process</b>	--	231	17	10	242	8	40	--
Process Heating	--	50	17	4	230	7	40	--
Process Cooling and Refrigeration	--	20	*	*	*	0	0	--
Machine Drive	--	133	*	6	5	*	0	--
Electro-Chemical Processes	--	22	--	--	--	--	--	--
Other Process Use	--	5	*	*	7	1	0	--
<b>Direct Uses-Total Nonprocess</b>	--	70	4	8	61	4	3	--
Facility HVAC (f)	--	34	3	3	57	1	*	--
Facility Lighting	--	26	--	--	--	--	--	--
Other Facility Support	--	6	1	*	2	*	0	--
Onsite Transportation	--	1	--	4	Q	2	--	--
Conventional Electricity Generation	--	--	*	Q	*	*	3	--
Other Nonprocess Use	--	2	0	Q	*	*	0	--
<b>End Use Not Reported</b>	413	3	*	*	19	Q	1	389

## Midwest Census Region

**Table 5.6 End Uses of Fuel Consumption, 2006;**

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)
<b>TOTAL FUEL CONSUMPTION</b>	4,144	934	37	26	1,582	21	404	1,142
Indirect Uses-Boiler Fuel	--	9	20	1	482	2	216	--
Conventional Boiler Use		9	14	1	416	2	56	
CHP and/or Cogeneration Process		0	6	*	66	*	160	
<b>Direct Uses-Total Process</b>	--	731	13	Q	852	8	167	--
Process Heating	--	127	13	1	770	4	106	--
Process Cooling and Refrigeration	--	68	0	*	6	0	0	--
Machine Drive	--	487	*	Q	16	*	52	--
Electro-Chemical Processes	--	37	--	--	--	--	--	--
Other Process Use	--	13	0	Q	Q	4	9	--
<b>Direct Uses-Total Nonprocess</b>	--	189	Q	12	214	9	2	--
Facility HVAC (f)	--	88	Q	*	197	1	1	--
Facility Lighting	--	76	--	--	--	--	--	--
Other Facility Support	--	21	*	*	15	*	0	--
Onsite Transportation	--	3	--	9	*	7	--	--
Conventional Electricity Generation	--	--	0	Q	*	*	0	--
Other Nonprocess Use	--	1	*	2	1	1	*	--
<b>End Use Not Reported</b>	1,206	5	4	1	33	1	20	1,142

**South Census Region**

<b>TOTAL FUEL CONSUMPTION</b>	8,219	1,267	131	48	2,788	27	410	3,549
Indirect Uses-Boiler Fuel	--	27	64	11	1,216	3	243	--
Conventional Boiler Use		27	26	7	588	3	63	
CHP and/or Cogeneration Process		0	38	3	628	*	179	
<b>Direct Uses-Total Process</b>	--	1,012	24	18	1,348	12	135	--
Process Heating	--	136	21	9	1,181	10	131	--
Process Cooling and Refrigeration	--	92	*	*	22	*	*	--
Machine Drive	--	645	1	5	98	1	3	--
Electro-Chemical Processes	--	122	--	--	--	--	--	--
Other Process Use	--	18	Q	4	46	*	1	--
<b>Direct Uses-Total Nonprocess</b>	--	213	1	16	122	10	1	--
Facility HVAC (f)	--	109	Q	1	87	2	1	--
Facility Lighting	--	73	--	--	--	--	--	--
Other Facility Support	--	24	*	*	10	*	*	--
Onsite Transportation	--	4	--	13	Q	8	--	--
Conventional Electricity Generation	--	--	*	*	17	*	*	--
Other Nonprocess Use	--	3	*	2	6	*	*	--
<b>End Use Not Reported</b>	3,744	15	42	2	102	2	32	3,549

**West Census Region**

<b>TOTAL FUEL CONSUMPTION</b>	1,945	344	18	32	649	19	126	757
Indirect Uses-Boiler Fuel	--	3	6	6	249	3	56	--
Conventional Boiler Use		3	4	4	169	2	5	

**Table 5.6 End Uses of Fuel Consumption, 2006;**

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)
CHP and/or Cogeneration Process		0	2	2	80	1	51	
<b>Direct Uses-Total Process</b>	<b>--</b>	<b>271</b>	<b>8</b>	<b>12</b>	<b>346</b>	<b>11</b>	<b>70</b>	<b>--</b>
Process Heating	--	34	8	Q	306	11	69	--
Process Cooling and Refrigeration	--	26	0	*	3	*	0	--
Machine Drive	--	177	0	6	10	*	2	--
Electro-Chemical Processes	--	25	--	--	--	--	--	--
Other Process Use	--	9	*	1	27	*	0	--
<b>Direct Uses-Total Nonprocess</b>	<b>--</b>	<b>67</b>	<b>0</b>	<b>13</b>	<b>41</b>	<b>4</b>	<b>*</b>	<b>--</b>
Facility HVAC (f)	--	34	0	*	36	1	*	--
Facility Lighting	--	23	--	--	--	--	--	--
Other Facility Support	--	9	0	*	3	*	0	--
Onsite Transportation	--	1	--	8	*	3	--	--
Conventional Electricity Generation	--	--	0	2	2	*	0	--
Other Nonprocess Use	--	Q	0	Q	*	*	0	--
<b>End Use Not Reported</b>	<b>778</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>14</b>	<b>*</b>	<b>0</b>	<b>757</b>

(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.

(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)

**Table 5.6 End Uses of Fuel Consumption, 2006;**

### **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)
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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, '2006 Manufacturing Energy Consumption Survey.'

**Table 5.7 End Uses of Fuel Consumption, 2006;**

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)
<b>Total United States</b>						
<b>TOTAL FUEL CONSUMPTION</b>	977,338	40	22	5,357	21	46
<b>Indirect Uses-Boiler Fuel</b>	24,584	21	4	2,059	2	25
Conventional Boiler Use	24,584	11	3	1,245	2	6
CHP and/or Cogeneration Process	0	10	1	814	*	19
<b>Direct Uses-Total Process</b>	773,574	10	9	2,709	10	19
Process Heating	111,205	9	3	2,417	8	16
Process Cooling and Refrigeration	66,339	*	*	31	*	*
Machine Drive	507,223	*	4	126	*	3
Electro-Chemical Processes	74,825	--	--	--	--	--
Other Process Use	13,983	*	1	136	1	*
<b>Direct Uses-Total Nonprocess</b>	170,536	1	9	426	7	*
Facility HVAC (f)	83,480	1	1	367	1	*
Facility Lighting	62,902	--	--	--	--	--
Other Facility Support	19,187	*	*	29	*	*
Onsite Transportation	2,291	--	6	3	5	--
Conventional Electricity Generation	--	*	1	19	*	*
Other Nonprocess Use	2,676	*	1	8	*	*
<b>End Use Not Reported</b>	8,643	8	1	164	1	2
<b>Northeast Census Region</b>						
<b>TOTAL FUEL CONSUMPTION</b>	102,513	10	4	480	3	3
<b>Indirect Uses-Boiler Fuel</b>	2,146	7	1	167	*	1
Conventional Boiler Use	2,146	4	1	105	*	*
CHP and/or Cogeneration Process	0	3	*	62	*	1
<b>Direct Uses-Total Process</b>	76,903	3	2	235	2	2
Process Heating	15,501	3	1	224	2	2
Process Cooling and Refrigeration	6,221	*	*	*	0	0
Machine Drive	46,977	*	1	5	*	0
Electro-Chemical Processes	6,569	--	--	--	--	--
Other Process Use	1,635	*	*	7	*	0
<b>Direct Uses-Total Nonprocess</b>	22,521	1	1	59	1	*

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**Table 5.7 End Uses of Fuel Consumption, 2006;**

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)
Facility HVAC (f)	11,142	*	*	56	*	*
Facility Lighting	8,470	--	--	--	--	--
Other Facility Support	2,004	*	*	2	*	0
Onsite Transportation	158	--	1	Q	1	--
Conventional Electricity Generation	--	*	*	*	*	*
Other Nonprocess Use	748	0	*	*	*	0
<b>End Use Not Reported</b>	<b>943</b>	*	*	<b>18</b>	*	*

**Midwest Census Region**

<b>TOTAL FUEL CONSUMPTION</b>	<b>291,101</b>	<b>6</b>	<b>4</b>	<b>1,537</b>	<b>5</b>	<b>18</b>
Indirect Uses-Boiler Fuel	3,177	3	*	468	*	10
Conventional Boiler Use	3,177	2	*	404	*	3
CHP and/or Cogeneration Process	0	1	*	64	*	7
<b>Direct Uses-Total Process</b>	<b>229,587</b>	<b>2</b>	<b>Q</b>	<b>828</b>	<b>2</b>	<b>7</b>
Process Heating	39,028	2	*	748	1	5
Process Cooling and Refrigeration	20,658	0	*	6	0	0
Machine Drive	155,265	*	Q	16	*	2
Electro-Chemical Processes	10,815	--	--	--	--	--
Other Process Use	3,820	0	Q	Q	1	*
<b>Direct Uses-Total Nonprocess</b>	<b>56,828</b>	<b>*</b>	<b>2</b>	<b>208</b>	<b>2</b>	<b>*</b>
Facility HVAC (f)	26,368	*	*	192	*	*
Facility Lighting	22,880	--	--	--	--	--
Other Facility Support	6,384	*	*	15	*	0
Onsite Transportation	866	--	2	*	2	--
Conventional Electricity Generation	--	0	*	*	*	0
Other Nonprocess Use	329	*	*	1	*	*
<b>End Use Not Reported</b>	<b>1,509</b>	<b>1</b>	*	<b>32</b>	*	<b>1</b>

**South Census Region**

<b>TOTAL FUEL CONSUMPTION</b>	<b>468,258</b>	<b>21</b>	<b>8</b>	<b>2,709</b>	<b>7</b>	<b>18</b>
Indirect Uses-Boiler Fuel	17,813	10	2	1,182	1	11
Conventional Boiler Use	17,813	4	1	571	1	3

**Table 5.7 End Uses of Fuel Consumption, 2006;**

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)
CHP and/or Cogeneration Process	0	6	1	611	*	8
<b>Direct Uses-Total Process</b>	<b>375,563</b>	<b>4</b>	<b>3</b>	<b>1,310</b>	<b>3</b>	<b>6</b>
Process Heating	45,704	3	2	1,148	3	6
Process Cooling and Refrigeration	31,314	*	*	22	*	*
Machine Drive	243,378	*	1	95	*	*
Electro-Chemical Processes	49,372	--	--	--	--	--
Other Process Use	5,795	*	1	45	*	*
<b>Direct Uses-Total Nonprocess</b>	<b>69,912</b>	<b>*</b>	<b>3</b>	<b>118</b>	<b>3</b>	<b>*</b>
Facility HVAC (f)	35,362	*	*	85	*	*
Facility Lighting	24,126	--	--	--	--	--
Other Facility Support	8,190	*	*	10	*	*
Onsite Transportation	1,103	--	2	Q	2	--
Conventional Electricity Generation	--	*	*	16	*	*
Other Nonprocess Use	1,131	*	*	6	*	*
<b>End Use Not Reported</b>	<b>4,970</b>	<b>7</b>	<b>*</b>	<b>100</b>	<b>1</b>	<b>1</b>

**West Census Region**

<b>TOTAL FUEL CONSUMPTION</b>	<b>115,466</b>	<b>3</b>	<b>5</b>	<b>631</b>	<b>5</b>	<b>6</b>
<b>Indirect Uses-Boiler Fuel</b>	<b>1,449</b>	<b>1</b>	<b>1</b>	<b>242</b>	<b>1</b>	<b>3</b>
Conventional Boiler Use	1,449	1	1	164	1	*
CHP and/or Cogeneration Process	0	*	*	78	*	2
<b>Direct Uses-Total Process</b>	<b>91,521</b>	<b>1</b>	<b>2</b>	<b>336</b>	<b>3</b>	<b>3</b>
Process Heating	10,971	1	Q	297	3	3
Process Cooling and Refrigeration	8,146	0	*	2	*	0
Machine Drive	61,603	0	1	10	*	*
Electro-Chemical Processes	8,069	--	--	--	--	--
Other Process Use	2,733	*	*	27	*	0
<b>Direct Uses-Total Nonprocess</b>	<b>21,275</b>	<b>0</b>	<b>2</b>	<b>40</b>	<b>1</b>	<b>*</b>
Facility HVAC (f)	10,608	0	*	35	*	*
Facility Lighting	7,426	--	--	--	--	--
Other Facility Support	2,609	0	*	3	*	0
Onsite Transportation	164	--	1	*	1	--
Conventional Electricity Generation	--	0	*	2	*	0
Other Nonprocess Use	469	0	*	*	*	0

**Table 5.7 End Uses of Fuel Consumption, 2006;**

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)
End Use Not Reported	1,222	1	*	14	*	0

(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.

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.

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**Table 5.7 End Uses of Fuel Consumption, 2006;**

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)
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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, '2006 Manufacturing Energy Consumption Survey.'

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**Table 5.8 End Uses of Fuel Consumption, 2006;**

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)
<b>Total United States</b>						
<b>TOTAL FUEL CONSUMPTION</b>	3,335	251	129	5,512	79	1,016
<b>Indirect Uses-Boiler Fuel</b>	84	133	23	2,119	8	547
Conventional Boiler Use	84	71	17	1,281	8	129
CHP and/or Cogeneration Process	0	62	6	838	1	417
<b>Direct Uses-Total Process</b>	2,639	62	52	2,788	39	412
Process Heating	379	59	19	2,487	32	345
Process Cooling and Refrigeration	226	*	1	32	*	*
Machine Drive	1,731	2	24	129	2	56
Electro-Chemical Processes	255	--	--	--	--	--
Other Process Use	48	Q	8	140	5	10
<b>Direct Uses-Total Nonprocess</b>	582	6	50	438	27	6
Facility HVAC (f)	285	4	4	378	5	2
Facility Lighting	215	--	--	--	--	--
Other Facility Support	65	1	*	30	*	*
Onsite Transportation	8	--	35	3	20	--
Conventional Electricity Generation	--	*	4	19	*	3
Other Nonprocess Use	9	*	6	8	1	*
<b>End Use Not Reported</b>	29	49	4	168	5	52
<b>Northeast Census Region</b>						
<b>TOTAL FUEL CONSUMPTION</b>	350	64	24	494	13	76
<b>Indirect Uses-Boiler Fuel</b>	7	43	5	172	1	32
Conventional Boiler Use	7	26	4	108	1	5
CHP and/or Cogeneration Process	0	17	1	64	*	27
<b>Direct Uses-Total Process</b>	262	17	10	242	8	40
Process Heating	53	17	4	230	7	40
Process Cooling and Refrigeration	21	*	*	*	0	0
Machine Drive	160	*	6	5	*	0
Electro-Chemical Processes	22	--	--	--	--	--
Other Process Use	6	*	*	7	1	0
<b>Direct Uses-Total Nonprocess</b>	74	4	8	61	4	3
Facility HVAC (f)	38	3	3	57	1	*
Facility Lighting	29	--	--	--	--	--
Other Facility Support	7	1	*	2	*	0
Onsite Transportation	1	--	4	Q	2	--

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**Table 5.8 End Uses of Fuel Consumption, 2006;**

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)
Conventional Electricity Generation	--	*	Q	*	*	3
Other Nonprocess Use	3	0	Q	*	*	0
<b>End Use Not Reported</b>	<b>6</b>	*	*	19	Q	1
<b>Midwest Census Region</b>						
<b>TOTAL FUEL CONSUMPTION</b>	<b>993</b>	<b>37</b>	<b>26</b>	<b>1,582</b>	<b>21</b>	<b>404</b>
<b>Indirect Uses-Boiler Fuel</b>	<b>11</b>	<b>20</b>	<b>1</b>	<b>482</b>	<b>2</b>	<b>216</b>
Conventional Boiler Use	11	14	1	416	2	56
CHP and/or Cogeneration Process	0	6	*	66	*	160
<b>Direct Uses-Total Process</b>	<b>783</b>	<b>13</b>	<b>Q</b>	<b>852</b>	<b>8</b>	<b>167</b>
Process Heating	133	13	1	770	4	106
Process Cooling and Refrigeration	70	0	*	6	0	0
Machine Drive	530	*	Q	16	*	52
Electro-Chemical Processes	37	--	--	--	--	--
Other Process Use	13	0	Q	Q	4	9
<b>Direct Uses-Total Nonprocess</b>	<b>193</b>	<b>Q</b>	<b>12</b>	<b>214</b>	<b>9</b>	<b>2</b>
Facility HVAC (f)	90	Q	*	197	1	1
Facility Lighting	78	--	--	--	--	--
Other Facility Support	22	*	*	15	*	0
Onsite Transportation	3	--	9	*	7	--
Conventional Electricity Generation	--	0	Q	*	*	0
Other Nonprocess Use	1	*	2	1	1	*
<b>End Use Not Reported</b>	<b>6</b>	<b>4</b>	<b>1</b>	<b>33</b>	<b>1</b>	<b>20</b>
<b>South Census Region</b>						
<b>TOTAL FUEL CONSUMPTION</b>	<b>1,598</b>	<b>131</b>	<b>48</b>	<b>2,788</b>	<b>27</b>	<b>410</b>
<b>Indirect Uses-Boiler Fuel</b>	<b>61</b>	<b>64</b>	<b>11</b>	<b>1,216</b>	<b>3</b>	<b>243</b>
Conventional Boiler Use	61	26	7	588	3	63
CHP and/or Cogeneration Process	0	38	3	628	*	179
<b>Direct Uses-Total Process</b>	<b>1,281</b>	<b>24</b>	<b>18</b>	<b>1,348</b>	<b>12</b>	<b>135</b>
Process Heating	156	21	9	1,181	10	131
Process Cooling and Refrigeration	107	*	*	22	*	*
Machine Drive	830	1	5	98	1	3
Electro-Chemical Processes	168	--	--	--	--	--
Other Process Use	20	Q	4	46	*	1
<b>Direct Uses-Total Nonprocess</b>	<b>235</b>	<b>1</b>	<b>16</b>	<b>122</b>	<b>10</b>	<b>1</b>

**Table 5.8 End Uses of Fuel Consumption, 2006;**

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)
Facility HVAC (f)	121	Q	1	87	2	1
Facility Lighting	82	--	--	--	--	--
Other Facility Support	28	*	*	10	*	*
Onsite Transportation	4	--	13	Q	8	--
Conventional Electricity Generation	--	*	*	17	*	*
Other Nonprocess Use	4	*	2	6	*	*
<b>End Use Not Reported</b>	<b>21</b>	<b>42</b>	<b>2</b>	<b>102</b>	<b>2</b>	<b>32</b>
<b>West Census Region</b>						
<b>TOTAL FUEL CONSUMPTION</b>	<b>394</b>	<b>18</b>	<b>32</b>	<b>649</b>	<b>19</b>	<b>126</b>
Indirect Uses-Boiler Fuel	5	6	6	249	3	56
Conventional Boiler Use	5	4	4	169	2	5
CHP and/or Cogeneration Process	0	2	2	80	1	51
<b>Direct Uses-Total Process</b>	<b>312</b>	<b>8</b>	<b>12</b>	<b>346</b>	<b>11</b>	<b>70</b>
Process Heating	37	8	Q	306	11	69
Process Cooling and Refrigeration	28	0	*	3	*	0
Machine Drive	210	0	6	10	*	2
Electro-Chemical Processes	28	--	--	--	--	--
Other Process Use	9	*	1	27	*	0
<b>Direct Uses-Total Nonprocess</b>	<b>71</b>	<b>0</b>	<b>13</b>	<b>41</b>	<b>4</b>	<b>*</b>
Facility HVAC (f)	36	0	*	36	1	*
Facility Lighting	25	--	--	--	--	--
Other Facility Support	9	0	*	3	*	0
Onsite Transportation	1	--	8	*	3	--
Conventional Electricity Generation	--	0	2	2	*	0
Other Nonprocess Use	2	0	Q	*	*	0
<b>End Use Not Reported</b>	<b>6</b>	<b>3</b>	<b>1</b>	<b>14</b>	<b>*</b>	<b>0</b>

(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,

**Table 5.8 End Uses of Fuel Consumption, 2006;**

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)
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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.

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, '2006 Manufacturing Energy Consumption Survey.'

**Table 6.1 Consumption Ratios of Fuel, 2006;**

Level: National and Regional Data;

Row: NAICS Codes; Column: Energy-Consumption Ratios;

Unit: Varles.

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)
<b>Total United States</b>				
311	Food	879.8	5.0	2.2
3112	Grain and Oilseed Milling	6,416.6	17.5	5.7
311221	Wet Corn Milling	21,552.1	43.6	18.2
31131	Sugar Manufacturing	6,629.2	31.3	12.2
3114	Fruit and Vegetable Preserving and Specialty Foods	1,075.3	5.5	2.8
3115	Dairy Products	956.3	4.3	1.3
3116	Animal Slaughtering and Processing	493.8	4.4	1.6
312	Beverage and Tobacco Products	852.9	1.4	0.9
3121	Beverages	892.2	2.4	1.1
3122	Tobacco	636.3	0.3	0.3
313	Textile Mills	880.2	8.6	4.1
314	Textile Product Mills	552.6	4.6	1.8
315	Apparel	73.9	1.0	0.5
316	Leather and Allied Products	100.1	1.1	0.6
321	Wood Products	881.1	10.4	4.0
321113	Sawmills	1,481.1	15.1	5.0
3212	Veneer, Plywood, and Engineered Woods	1,496.1	17.6	6.8
3219	Other Wood Products	447.8	5.6	2.5
322	Paper	5,885.7	28.9	13.7
322110	Pulp Mills	31,819.8	113.2	49.9
322121	Paper Mills, except Newsprint	12,263.6	35.3	19.6
322122	Newsprint Mills	17,250.1	40.8	20.9
322130	Paperboard Mills	20,470.2	64.4	32.3
323	Printing and Related Support	164.6	1.5	1.0
324	Petroleum and Coal Products	35,024.9	27.0	6.1
324110	Petroleum Refineries	54,782.0	29.2	6.3
324199	Other Petroleum and Coal Products	22,636.1	82.7	27.5
325	Chemicals	4,768.2	9.4	5.1
325110	Petrochemicals	103,258.2	29.8	12.4
325120	Industrial Gases	11,570.9	21.6	11.9
325181	Alkalies and Chlorine	32,214.4	61.9	32.0
325182	Carbon Black	10,563.9	25.0	10.1
325188	Other Basic Inorganic Chemicals	4,428.2	16.8	9.5
325192	Cyclic Crudes and Intermediates	12,763.7	8.8	5.1
325193	Ethyl Alcohol	28,213.9	23.7	13.6
325199	Other Basic Organic Chemicals	10,328.6	26.7	9.0
325211	Plastics Materials and Resins	11,821.0	24.9	7.6
325212	Synthetic Rubber	5,118.1	17.8	6.0
325222	Noncellulosic Organic Fibers	5,137.0	20.1	7.8
325311	Nitrogenous Fertilizers	51,960.0	131.1	38.2
325312	Phosphatic Fertilizers	3,387.7	15.3	3.7
3254	Pharmaceuticals and Medicines	412.1	0.7	0.5
325412	Pharmaceutical Preparation	447.9	0.6	0.5
325992	Photographic Film, Paper, Plate, and Chemicals	951.1	3.8	2.4
326	Plastics and Rubber Products	414.9	3.7	1.7
327	Nonmetallic Mineral Products	2,758.7	17.5	9.7
327211	Flat Glass	6,151.1	34.5	18.7
327212	Other Pressed and Blown Glass and Glassware	4,827.5	39.5	24.1
327213	Glass Containers	4,489.3	24.3	14.1
327215	Glass Products from Purchased Glass	1,082.5	9.8	5.1
327310	Cements	21,483.0	52.5	34.0
327410	Lime	29,095.2	120.1	75.8
327420	Gypsum	7,390.7	18.7	11.0
327993	Mineral Wool	2,919.3	12.7	8.0
331	Primary Metals	4,052.3	20.0	7.5
331111	Iron and Steel Mills	13,113.0	37.7	14.2

**Table 6.1 Consumption Ratios of Fuel, 2006;**

Level: National and Regional Data;

Row: NAICS Codes; Column: Energy-Consumption Ratios;

Unit: Varles.

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)
331112	Electrometallurgical Ferroalloy Products	8,820.0	36.1	17.5
3312	Steel Products from Purchased Steel	996.4	5.0	1.9
3313	Alumina and Aluminum	4,096.1	22.7	6.2
331314	Secondary Smelting and Alloying of Aluminum	3,044.5	16.1	2.7
331315	Aluminum Sheet, Plate and Foils	3,477.1	13.6	3.3
331316	Aluminum Extruded Products	831.4	8.6	2.5
3314	Nonferrous Metals, except Aluminum	1,631.4	6.7	2.1
3315	Foundries	956.2	8.0	4.5
331511	Iron Foundries	1,379.4	12.0	6.2
331521	Aluminum Die-Casting Foundries	1,073.3	9.8	4.9
331524	Aluminum Foundries, except Die-Casting	683.9	7.9	4.1
332	Fabricated Metal Products	302.5	2.6	1.3
333	Machinery	197.8	1.2	0.6
334	Computer and Electronic Products	161.9	0.7	0.4
334413	Semiconductors and Related Devices	490.8	1.2	0.9
335	Electrical Equip., Appliances, and Components	246.2	1.8	0.8
336	Transportation Equipment	285.8	1.7	0.6
336111	Automobiles	512.4	1.5	0.4
336112	Light Trucks and Utility Vehicles	505.3	1.3	0.3
3364	Aerospace Product and Parts	160.3	0.9	0.4
336411	Aircraft	97.5	0.6	0.2
337	Furniture and Related Products	110.7	1.1	0.6
339	Miscellaneous	110.6	0.6	0.4
	Total	1,278.4	6.9	3.1

**Northeast Census Region**

311	Food	434.5	2.2	1.1
3112	Grain and Oilseed Milling	1,167.5	2.4	1.4
311221	Wet Corn Milling	2,231.1	26.8	6.8
31131	Sugar Manufacturing	5,367.2	40.5	9.3
3114	Fruit and Vegetable Preserving and Specialty Food	532.4	3.3	1.5
3115	Dairy Product	610.4	3.1	1.0
3116	Animal Slaughtering and Processing	251.2	2.7	0.9
312	Beverage and Tobacco Products	702.2	1.8	0.9
3121	Beverages	703.9	1.8	0.9
3122	Tobacco	675.4	1.9	1.6
313	Textile Mills	299.5	3.4	1.7
314	Textile Product Mills	391.0	4.9	2.3
315	Apparel	29.9	0.5	0.3
316	Leather and Allied Products	111.7	1.2	0.7
321	Wood Products	448.0	5.5	2.2
321113	Sawmills	791.7	8.2	3.0
3212	Veneer, Plywood, and Engineered Woods	917.2	13.0	5.7
3219	Other Wood Products	227.0	2.9	1.2
322	Paper	2,745.2	14.4	7.1
322110	Pulp Mills	22,082.2	100.2	37.2
322121	Paper Mills, except Newsprint	7,867.5	22.9	13.0
322122	Newsprint Mills	10,932.5	30.6	15.8
322130	Paperboard Mills	7,387.6	29.4	14.7
323	Printing and Related Support	154.5	1.5	0.9
324	Petroleum and Coal Products	18,115.0	41.7	5.3
324110	Petroleum Refineries	37,124.1	77.3	5.5
324199	Other Petroleum and Coal Products	9,199.5	38.3	16.5
325	Chemicals	941.2	2.2	1.4
325110	Petrochemicals	1,573.6	3.3	1.7
325120	Industrial Gases	7,429.9	14.0	10.9
325181	Alkalies and Chlorine	13,954.0	22.8	17.0

**Table 6.1 Consumption Ratios of Fuel, 2006;**

Level: National and Regional Data;

Row: NAICS Codes; Column: Energy-Consumption Ratios;

Unit: Varles.

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)
325182	Carbon Black	0.0	0.0	0.0
325188	Other Basic Inorganic Chemicals	3,288.5	11.9	6.1
325192	Cyclic Crudes and Intermediates	11,015.9	5.0	4.5
325193	Ethyl Alcohol	169.7	0.2	0.1
325199	Other Basic Organic Chemicals	2,155.1	5.7	2.9
325211	Plastics Materials and Resins	2,182.5	10.0	3.2
325212	Synthetic Rubber	1,206.7	3.5	1.2
325222	Noncellulosic Organic Fibers	597.3	4.9	3.4
325311	Nitrogenous Fertilizers	9,548.0	42.5	18.5
325312	Phosphatic Fertilizers	0.0	0.0	0.0
3254	Pharmaceuticals and Medicines	450.1	0.8	0.6
325412	Pharmaceutical Preparation	510.6	0.8	0.5
325992	Photographic Film, Paper, Plate, and Chemicals	960.0	3.9	2.7
326	Plastics and Rubber Products	523.5	5.1	2.3
327	Nonmetallic Mineral Products	2,497.2	16.8	9.7
327211	Flat Glass	7,878.4	33.8	19.6
327212	Other Pressed and Blown Glass and Glassware	3,515.2	23.2	16.8
327213	Glass Containers	3,845.2	25.6	14.0
327215	Glass Products from Purchased Glass	223.9	2.3	1.3
327310	Cements	23,141.5	62.7	37.6
327410	Lime	16,980.6	101.0	59.1
327420	Gypsum	8,032.6	17.7	10.7
327993	Mineral Wool	3,448.1	12.8	8.6
331	Primary Metals	3,069.2	12.3	5.4
331111	Iron and Steel Mills	8,217.1	18.6	9.4
331112	Electrometallurgical Ferroalloy Products	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	1,271.5	4.5	2.5
3313	Alumina and Aluminum	4,077.2	26.6	5.1
331314	Secondary Smelting and Alloying of Aluminum	2,089.8	12.7	2.3
331315	Aluminum Sheet, Plate and Foils	3,807.5	31.3	2.5
331316	Aluminum Extruded Products	1,382.6	11.6	3.4
3314	Nonferrous Metals, except Aluminum	899.6	4.4	1.7
3315	Foundries	644.9	5.1	3.2
331511	Iron Foundries	788.9	6.5	3.5
331521	Aluminum Die-Casting Foundries	1,339.0	12.8	6.1
331524	Aluminum Foundries, except Die-Casting	326.8	4.1	2.6
332	Fabricated Metal Products	272.7	2.5	1.4
333	Machinery	182.7	1.3	0.7
334	Computer and Electronic Products	136.6	0.8	0.5
334413	Semiconductors and Related Devices	407.3	1.7	1.1
335	Electrical Equip., Appliances, and Components	161.3	1.3	0.7
336	Transportation Equipment	375.6	2.5	0.9
336111	Automobiles	117.5	0.5	0.1
336112	Light Trucks and Utility Vehicles	25.8	0.3	0.2
3364	Aerospace Product and Parts	210.0	1.0	0.6
336411	Aircraft	39.8	0.1	0.1
337	Furniture and Related Products	88.1	0.8	0.5
339	Miscellaneous	155.7	1.1	0.7
	Total	730.6	4.3	2.1

**Midwest Census Region**

311	Food	1,215.0	7.4	2.8
3112	Grain and Oilseed Milling	8,255.4	21.5	6.7
311221	Wet Corn Milling	22,128.2	43.0	18.4
31131	Sugar Manufacturing	5,604.8	26.5	11.7
3114	Fruit and Vegetable Preserving and Specialty Food	1,386.5	7.8	3.8
3115	Dairy Product	810.6	4.0	1.3

**Table 6.1 Consumption Ratios of Fuel, 2006;**

Level: National and Regional Data;

Row: NAICS Codes; Column: Energy-Consumption Ratios;

Unit: Varles.

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)
3116	Animal Slaughtering and Processing	649.1	6.4	1.7
312	Beverage and Tobacco Products	969.6	2.1	1.0
3121	Beverages	982.7	2.3	1.1
3122	Tobacco	353.3	0.2	0.1
313	Textile Mills	Q	Q	Q
314	Textile Product Mills	107.5	1.3	0.5
315	Apparel	55.6	0.6	0.4
316	Leather and Allied Products	149.9	1.4	0.7
321	Wood Products	1,059.5	12.7	5.4
321113	Sawmills	808.4	7.3	3.0
3212	Veneer, Plywood, and Engineered Woods	1,010.4	13.6	6.0
3219	Other Wood Products	1,127.8	13.7	6.2
322	Paper	2,436.0	14.1	6.6
322110	Pulp Mills	5,287.8	11.5	5.7
322121	Paper Mills, except Newsprint	8,294.0	25.7	14.1
322122	Newsprint Mills	10,097.2	27.4	15.2
322130	Paperboard Mills	8,909.9	32.6	18.0
323	Printing and Related Support	161.2	1.6	1.0
324	Petroleum and Coal Products	26,618.9	29.2	6.1
324110	Petroleum Refineries	50,947.3	33.1	6.1
324199	Other Petroleum and Coal Products	139,432.1	577.3	89.0
325	Chemicals	2,967.2	5.3	3.1
325110	Petrochemicals	8,983.0	22.5	8.4
325120	Industrial Gases	19,511.6	32.9	21.2
325181	Alkalies and Chlorine	3,299.9	12.6	4.2
325182	Carbon Black	9,248.5	17.8	9.7
325188	Other Basic Inorganic Chemicals	2,602.9	7.2	4.5
325192	Cyclic Crudes and Intermediates	33,596.5	37.9	15.2
325193	Ethyl Alcohol	29,745.6	23.9	13.9
325199	Other Basic Organic Chemicals	4,861.9	17.1	7.3
325211	Plastics Materials and Resins	5,790.0	10.0	4.6
325212	Synthetic Rubber	3,370.5	11.8	4.3
325222	Noncellulosic Organic Fibers	48,725.2	-117.0	1,412.3
325311	Nitrogenous Fertilizers	45,977.8	64.5	32.0
325312	Phosphatic Fertilizers	72.4	0.1	0.1
3254	Pharmaceuticals and Medicines	727.9	1.2	0.9
325412	Pharmaceutical Preparation	807.9	1.1	0.9
325992	Photographic Film, Paper, Plate, and Chemicals	645.2	2.2	1.1
326	Plastics and Rubber Products	327.7	2.9	1.4
327	Nonmetallic Mineral Products	3,064.4	20.2	11.4
327211	Flat Glass	7,308.3	43.5	22.9
327212	Other Pressed and Blown Glass and Glassware	8,907.4	100.7	59.0
327213	Glass Containers	4,458.7	23.2	14.0
327215	Glass Products from Purchased Glass	407.7	3.5	1.8
327310	Cements	19,810.6	51.2	33.5
327410	Lime	32,262.0	119.6	75.3
327420	Gypsum	5,531.0	18.3	10.2
327993	Mineral Wool	3,441.4	15.2	9.5
331	Primary Metals	5,242.5	30.9	11.0
331111	Iron and Steel Mills	19,149.4	74.6	21.7
331112	Electrometallurgical Ferroalloy Products	8,772.5	32.7	16.8
3312	Steel Products from Purchased Steel	1,130.5	5.7	2.1
3313	Alumina and Aluminum	2,256.9	14.7	4.2
331314	Secondary Smelting and Alloying of Aluminum	4,594.6	18.8	4.1
331315	Aluminum Sheet, Plate and Foils	2,998.7	15.0	3.4
331316	Aluminum Extruded Products	588.2	5.8	2.1
3314	Nonferrous Metals, except Aluminum	2,575.8	9.7	3.1
3315	Foundries	1,088.8	9.6	5.1
331511	Iron Foundries	1,552.3	13.6	7.0

**Table 6.1 Consumption Ratios of Fuel, 2006;**

Level: National and Regional Data;

Row: NAICS Codes; Column: Energy-Consumption Ratios;

Unit: Varles.

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)
331521	Aluminum Die-Casting Foundries	1,227.9	11.1	5.4
331524	Aluminum Foundries, except Die-Casting	795.9	9.5	4.5
332	Fabricated Metal Products	352.3	3.0	1.5
333	Machinery	264.3	1.6	0.8
334	Computer and Electronic Products	195.0	1.3	0.8
334413	Semiconductors and Related Devices	417.6	3.0	1.9
335	Electrical Equip., Appliances, and Components	222.9	1.4	0.8
336	Transportation Equipment	378.7	2.2	0.8
336111	Automobiles	560.4	1.5	0.4
336112	Light Trucks and Utility Vehicles	510.5	1.3	0.3
3364	Aerospace Product and Parts	155.1	0.9	0.4
336411	Aircraft	119.9	1.0	0.3
337	Furniture and Related Products	122.4	0.9	0.5
339	Miscellaneous	115.2	0.7	0.4
	Total	1,012.7	6.1	2.7

**South Census Region**

311	Food	734.4	4.0	2.0
3112	Grain and Oilseed Milling	4,717.0	16.7	4.8
311221	Wet Corn Milling	22,088.5	54.6	18.2
31131	Sugar Manufacturing	8,507.3	37.9	12.7
3114	Fruit and Vegetable Preserving and Specialty Food	836.4	3.4	1.8
3115	Dairy Product	537.3	2.4	1.0
3116	Animal Slaughtering and Processing	362.4	3.1	1.5
312	Beverage and Tobacco Products	923.3	1.0	0.7
3121	Beverages	1,075.4	2.7	1.3
3122	Tobacco	640.9	0.3	0.3
313	Textile Mills	1,213.9	10.6	5.0
314	Textile Product Mills	638.3	5.0	1.9
315	Apparel	106.8	1.5	0.7
316	Leather and Allied Products	75.7	1.3	0.7
321	Wood Products	933.5	10.6	4.1
321113	Sawmills	1,321.2	14.5	4.9
3212	Veneer, Plywood, and Engineered Woods	2,230.6	23.9	9.4
3219	Other Wood Products	171.0	2.1	0.9
322	Paper	10,225.5	43.4	21.1
322110	Pulp Mills	32,956.9	118.2	52.0
322121	Paper Mills, except Newsprint	18,687.7	53.5	29.5
322122	Newsprint Mills	15,093.0	25.6	16.2
322130	Paperboard Mills	24,472.0	69.9	35.6
323	Printing and Related Support	221.8	1.8	1.2
324	Petroleum and Coal Products	45,400.6	26.6	6.1
324110	Petroleum Refineries	60,642.6	28.3	6.3
324199	Other Petroleum and Coal Products	5,554.3	20.6	7.7
325	Chemicals	8,876.1	17.0	7.4
325110	Petrochemicals	112,417.4	30.0	12.4
325120	Industrial Gases	10,819.8	19.9	9.4
325181	Alkalies and Chlorine	38,032.0	73.0	35.1
325182	Carbon Black	10,795.7	26.1	10.2
325188	Other Basic Inorganic Chemicals	4,467.2	18.2	10.0
325192	Cyclic Crudes and Intermediates	10,749.5	7.8	4.1
325193	Ethyl Alcohol	17,057.2	46.8	24.8
325199	Other Basic Organic Chemicals	13,374.0	31.1	9.7
325211	Plastics Materials and Resins	16,847.3	32.7	8.8
325212	Synthetic Rubber	6,534.3	21.3	6.9
325222	Noncellulosic Organic Fibers	5,339.4	20.3	7.9
325311	Nitrogenous Fertilizers	67,787.6	181.6	43.8

**Table 6.1 Consumption Ratios of Fuel, 2006;**

Level: National and Regional Data;

Row: NAICS Codes; Column: Energy-Consumption Ratios;

Unit: Varles.

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)
325312	Phosphatic Fertilizers	3,308.7	16.5	3.5
3254	Pharmaceuticals and Medicines	401.3	0.6	0.4
325412	Pharmaceutical Preparation	316.3	0.4	0.3
325992	Photographic Film, Paper, Plate, and Chemicals	1,229.6	4.8	2.4
326	Plastics and Rubber Products	586.5	5.0	2.1
327	Nonmetallic Mineral Products	2,695.5	16.8	9.1
327211	Flat Glass	4,865.0	27.6	15.3
327212	Other Pressed and Blown Glass and Glassware	3,090.4	22.6	13.4
327213	Glass Containers	5,149.9	27.7	15.7
327215	Glass Products from Purchased Glass	3,124.8	24.7	12.9
327310	Cements	25,661.3	58.0	39.5
327410	Lime	25,057.5	110.2	70.0
327420	Gypsum	6,751.7	15.2	9.3
327993	Mineral Wool	2,451.0	11.0	6.8
331	Primary Metals	3,743.3	17.6	5.7
331111	Iron and Steel Mills	8,601.5	21.4	8.3
331112	Electrometallurgical Ferroalloy Products	12,006.8	132.2	26.7
3312	Steel Products from Purchased Steel	788.7	4.5	1.5
3313	Alumina and Aluminum	5,882.8	26.2	7.7
331314	Secondary Smelting and Alloying of Aluminum	2,397.1	13.9	1.8
331315	Aluminum Sheet, Plate and Foils	3,737.5	11.1	3.4
331316	Aluminum Extruded Products	911.0	11.0	2.6
3314	Nonferrous Metals, except Aluminum	1,558.3	8.5	1.5
3315	Foundries	1,053.4	9.0	4.8
331511	Iron Foundries	1,211.1	10.7	5.5
331521	Aluminum Die-Casting Foundries	757.7	6.9	3.5
331524	Aluminum Foundries, except Die-Casting	891.4	9.5	4.9
332	Fabricated Metal Products	288.4	2.3	1.2
333	Machinery	143.3	0.8	0.4
334	Computer and Electronic Products	151.1	0.6	0.3
334413	Semiconductors and Related Devices	533.0	1.5	1.1
335	Electrical Equip., Appliances, and Components	313.6	2.5	1.0
336	Transportation Equipment	212.8	1.3	0.5
336111	Automobiles	430.4	1.4	0.4
336112	Light Trucks and Utility Vehicles	497.9	1.3	0.3
3364	Aerospace Product and Parts	197.5	1.8	0.7
336411	Aircraft	124.3	1.6	0.5
337	Furniture and Related Products	126.2	1.7	0.9
339	Miscellaneous	152.6	0.8	0.6
	Total	1,938.2	9.6	4.1

**West Census Region**

311	Food	780.2	4.4	1.9
3112	Grain and Oilseed Milling	1,700.2	4.8	2.1
311221	Wet Corn Milling	9,555.7	27.9	11.6
31131	Sugar Manufacturing	5,861.4	28.0	12.4
3114	Fruit and Vegetable Preserving and Specialty Food	1,081.3	5.7	3.0
3115	Dairy Product	1,768.4	6.2	1.7
3116	Animal Slaughtering and Processing	847.7	6.2	2.0
312	Beverage and Tobacco Products	761.8	2.5	1.1
3121	Beverages	761.8	2.5	1.1
3122	Tobacco	0.0	0.0	0.0
313	Textile Mills	Q	Q	Q
314	Textile Product Mills	177.1	1.6	0.6
315	Apparel	17.8	0.2	0.1
316	Leather and Allied Products	26.4	0.2	0.1
321	Wood Products	811.7	9.8	3.4

**Table 6.1 Consumption Ratios of Fuel, 2006;**

Level: National and Regional Data;

Row: NAICS Codes; Column: Energy-Consumption Ratios;

Unit: Varles.

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)
321113	Sawmills	2,194.0	20.6	6.1
3212	Veneer, Plywood, and Engineered Woods	686.3	8.3	2.7
3219	Other Wood Products	158.2	2.3	0.9
322	Paper	5,505.3	27.5	12.0
322110	Pulp Mills	51,051.8	166.4	90.0
322121	Paper Mills, except Newsprint	11,273.0	26.5	15.1
322122	Newsprint Mills	20,462.3	56.2	24.8
322130	Paperboard Mills	18,978.2	74.4	32.7
323	Printing and Related Support	61.0	0.6	0.5
324	Petroleum and Coal Products	34,546.9	23.8	6.6
324110	Petroleum Refineries	52,530.9	24.7	6.7
324199	Other Petroleum and Coal Products	25,005.8	50.9	17.4
325	Chemicals	1,162.2	2.5	1.8
325110	Petrochemicals	607.5	1.1	0.6
325120	Industrial Gases	9,492.2	23.0	14.2
325181	Alkalies and Chlorine	30,084.0	53.8	33.3
325182	Carbon Black	92.0	0.8	0.5
325188	Other Basic Inorganic Chemicals	7,273.8	31.8	18.8
325192	Cyclic Crudes and Intermediates	1,753.8	4.9	1.7
325193	Ethyl Alcohol	10,076.8	17.0	6.0
325199	Other Basic Organic Chemicals	1,600.4	7.8	3.4
325211	Plastics Materials and Resins	1,219.3	4.3	1.2
325212	Synthetic Rubber	96.2	0.7	0.4
325222	Noncellulosic Organic Fibers	0.0	0.0	0.0
325311	Nitrogenous Fertilizers	11,306.6	45.3	13.1
325312	Phosphatic Fertilizers	3,791.5	12.6	5.3
3254	Pharmaceuticals and Medicines	140.3	0.3	0.2
325412	Pharmaceutical Preparation	162.7	0.3	0.2
325992	Photographic Film, Paper, Plate, and Chemicals	791.3	3.2	1.6
326	Plastics and Rubber Products	214.1	2.1	1.0
327	Nonmetallic Mineral Products	2,675.5	15.8	8.8
327211	Flat Glass	7,373.1	51.4	24.1
327212	Other Pressed and Blown Glass and Glassware	1,151.3	12.9	5.4
327213	Glass Containers	4,297.5	20.5	12.1
327215	Glass Products from Purchased Glass	130.4	1.5	0.8
327310	Cements	17,909.6	43.7	27.2
327410	Lime	43,281.9	168.8	106.9
327420	Gypsum	10,385.2	28.7	16.0
327993	Mineral Wool	2,413.5	10.9	6.9
331	Primary Metals	1,771.1	7.5	3.6
331111	Iron and Steel Mills	5,034.6	10.9	5.2
331112	Electrometallurgical Ferroalloy Products	294.4	0.8	0.8
3312	Steel Products from Purchased Steel	418.2	3.5	1.1
3313	Alumina and Aluminum	3,111.9	24.3	6.8
331314	Secondary Smelting and Alloying of Aluminum	1,634.3	13.3	2.8
331315	Aluminum Sheet, Plate and Foils	3,359.2	13.3	5.3
331316	Aluminum Extruded Products	937.1	9.2	2.5
3314	Nonferrous Metals, except Aluminum	1,894.7	5.4	2.6
3315	Foundries	452.1	3.1	2.2
331511	Iron Foundries	1,381.5	12.1	6.3
331521	Aluminum Die-Casting Foundries	514.5	5.0	2.9
331524	Aluminum Foundries, except Die-Casting	288.2	3.0	2.0
332	Fabricated Metal Products	214.8	1.8	0.9
333	Machinery	88.9	0.7	0.3
334	Computer and Electronic Products	172.9	0.7	0.4
334413	Semiconductors and Related Devices	517.7	1.0	0.8
335	Electrical Equip., Appliances, and Components	170.9	1.1	0.6
336	Transportation Equipment	122.0	0.7	0.3
336111	Automobiles	549.6	2.0	0.5

**Table 6.1 Consumption Ratios of Fuel, 2006;**

Level: National and Regional Data;

Row: NAICS Codes; Column: Energy-Consumption Ratios;

Unit: Varles.

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)
336112	Light Trucks and Utility Vehicles	137.0	0.4	0.2
3364	Aerospace Product and Parts	125.4	0.6	0.3
336411	Aircraft	73.9	0.3	0.1
337	Furniture and Related Products	38.8	0.3	0.2
339	Miscellaneous	40.4	0.2	0.1
	Total	942.9	4.6	2.4

(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, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 6.2 Consumption Ratios of Fuel, 2006;**  
**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)
<b>Total United States</b>			
<b>Value of Shipments and Receipts (million dollars)</b>			
Under 20	330.6	3.6	2.0
20-49	550.0	4.5	2.2
50-99	830.1	5.9	2.7
100-249	1,130.0	6.7	3.1
250-499	1,961.4	7.6	3.6
500 and Over	3,861.9	9.0	3.6
Total	1,278.4	6.9	3.1
<b>Employment Size</b>			
Under 50	562.6	4.7	2.4
50-99	673.1	5.1	2.4
100-249	1,072.8	6.5	3.0
250-499	1,564.3	7.7	3.6
500-999	2,328.9	10.6	4.5
1000 and Over	1,415.5	5.7	2.5
Total	1,278.4	6.9	3.1
<b>Northeast Census Region</b>			
<b>Value of Shipments and Receipts (million dollars)</b>			
Under 20	259.6	2.8	1.6
20-49	560.0	4.0	2.1
50-99	553.7	3.9	1.9
100-249	988.6	5.7	2.9
250-499	1,285.6	4.5	2.4
500 and Over	1,676.6	4.8	2.2
Total	730.6	4.3	2.1
<b>Employment Size</b>			
Under 50	335.0	2.9	1.5
50-99	530.2	4.4	2.1
100-249	606.2	4.0	2.0
250-499	871.1	4.3	2.3
500-999	1,601.3	7.9	3.6
1000 and Over	813.2	3.4	1.6
Total	730.6	4.3	2.1

**Table 6.2 Consumption Ratios of Fuel, 2006;**  
**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)
<b>Midwest Census Region</b>			
<b>Value of Shipments and Receipts (million dollars)</b>			
Under 20	414.7	4.5	2.5
20-49	521.0	4.1	2.0
50-99	822.8	5.9	2.8
100-249	873.4	5.5	2.5
250-499	1,259.5	5.9	2.5
500 and Over	2,889.7	8.3	3.1
Total	1,012.7	6.1	2.7
<b>Employment Size</b>			
Under 50	683.3	5.6	2.8
50-99	668.9	4.6	2.3
100-249	970.7	6.1	2.9
250-499	1,117.6	6.0	2.8
500-999	1,016.3	6.2	2.6
1000 and Over	1,451.5	7.0	2.6
Total	1,012.7	6.1	2.7
<b>South Census Region</b>			
<b>Value of Shipments and Receipts (million dollars)</b>			
Under 20	356.2	4.1	2.2
20-49	596.2	5.5	2.6
50-99	1,047.1	7.8	3.5
100-249	1,415.7	8.0	3.7
250-499	2,701.3	10.5	4.9
500 and Over	6,744.7	12.6	4.8
Total	1,938.2	9.6	4.1
<b>Employment Size</b>			
Under 50	726.6	5.8	2.8
50-99	897.1	7.3	3.3
100-249	1,441.0	8.1	3.5
250-499	2,045.2	10.2	4.5
500-999	3,746.8	14.1	5.6
1000 and Over	2,186.5	8.0	3.4
Total	1,938.2	9.6	4.1

**Table 6.2 Consumption Ratios of Fuel, 2006;**  
**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)
<b>West Census Region</b>			
<b>Value of Shipments and Receipts (million dollars)</b>			
Under 20	221.4	2.4	1.3
20-49	499.7	4.2	2.0
50-99	676.3	4.2	2.0
100-249	1,257.7	7.1	3.5
250-499	1,791.1	5.2	2.9
500 and Over	2,133.1	4.9	2.5
Total	942.9	4.6	2.4
<b>Employment Size</b>			
Under 50	354.2	3.1	1.6
50-99	441.6	3.3	1.6
100-249	1,028.8	5.9	2.6
250-499	1,715.4	6.9	3.5
500-999	2,529.9	9.6	5.0
1000 and Over	608.3	2.1	1.2
Total	942.9	4.6	2.4

(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, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)			
		<b>Total United States</b>					
<b>311 - 339 ALL MANUFACTURING INDUSTRIES</b>							
<b>Value of Shipments and Receipts (million dollars)</b>							
Under 20		330.6	3.6	2.0			
20-49		550.0	4.5	2.2			
50-99		830.1	5.9	2.7			
100-249		1,130.0	6.7	3.1			
250-499		1,961.4	7.6	3.6			
500 and Over		3,861.9	9.0	3.6			
Total		1,278.4	6.9	3.1			
<b>311</b>	<b>FOOD</b>						
<b>Value of Shipments and Receipts (million dollars)</b>							
Under 20		979.3	10.3	5.2			
20-49		675.9	5.8	2.4			
50-99		716.5	4.8	2.1			
100-249		687.0	4.5	1.9			
250-499		1,178.5	4.0	1.9			
500 and Over		1,305.5	4.5	1.9			
Total		879.8	5.0	2.2			
<b>3112</b>	<b>Grain and Oilseed Milling</b>						
<b>Value of Shipments and Receipts (million dollars)</b>							
Under 20		1,368.6	6.1	2.9			
20-49		1,381.7	10.7	2.6			
50-99		2,085.3	7.7	2.5			
100-249		6,665.5	24.6	5.4			
250-499		11,094.8	19.0	7.1			
500 and Over		16,701.8	19.0	8.8			
Total		6,416.6	17.5	5.7			
<b>311221</b>	<b>Wet Corn Milling</b>						
<b>Value of Shipments and Receipts (million dollars)</b>							
Under 20		2,903.4	17.9	8.1			
20-49		4,761.1	22.1	8.1			
50-99		8,972.0	33.4	22.9			
100-249		15,037.9	50.3	17.8			
250-499		18,853.5	42.9	17.6			
500 and Over		46,037.2	43.5	19.7			
Total		21,552.1	43.6	18.2			
<b>31131</b>	<b>Sugar</b>						
<b>Value of Shipments and Receipts (million dollars)</b>							
Under 20		7,779.2	221.3	50.6			
20-49		8,372.7	76.4	29.2			

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	50-99	4,422.0	27.8	14.4
	100-249	4,654.0	19.5	9.4
	250-499	9,909.5	37.0	10.8
	500 and Over	0.0	0.0	0.0
	Total	6,629.2	31.3	12.2
<b>3114</b>	<b>Fruit and Vegetable Preserving and Specialty Foods</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	2,276.3	21.0	11.7
	20-49	1,113.0	6.8	3.5
	50-99	900.9	5.4	2.4
	100-249	999.4	5.9	2.6
	250-499	446.1	2.5	1.3
	500 and Over	992.3	1.8	1.2
	Total	1,075.3	5.5	2.8
<b>3115</b>	<b>Dairy Products</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	675.0	5.2	1.8
	20-49	742.5	5.0	1.7
	50-99	832.6	5.7	1.6
	100-249	706.0	3.8	1.1
	250-499	1,229.0	3.6	1.1
	500 and Over	2,783.1	4.9	2.4
	Total	956.3	4.3	1.3
<b>3116</b>	<b>Animal Slaughtering and Processing</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	1,238.6	12.2	5.9
	20-49	1,007.4	8.3	3.3
	50-99	573.2	4.3	2.3
	100-249	266.9	3.1	1.2
	250-499	349.2	2.5	1.2
	500 and Over	638.6	5.3	1.3
	Total	493.8	4.4	1.6
<b>312</b>	<b>BEVERAGE AND TOBACCO PRODUCTS</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	637.1	4.9	2.9
	20-49	464.5	2.7	1.2
	50-99	673.3	3.5	1.0
	100-249	455.0	1.6	0.6
	250-499	498.1	1.2	0.6
	500 and Over	1,878.4	1.2	0.9
	Total	852.9	1.4	0.9
<b>3121</b>	<b>Beverages</b>			
	<b>Value of Shipments and Receipts</b>			

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
<b>(million dollars)</b>				
	Under 20	645.1	5.0	2.9
	20-49	443.3	2.6	1.1
	50-99	731.3	3.8	1.1
	100-249	400.4	1.4	0.5
	250-499	535.2	1.3	0.6
	500 and Over	2,540.1	3.1	2.0
	Total	892.2	2.4	1.1
<b>3122</b>	<b>Tobacco</b>			
<b>Value of Shipments and Receipts (million dollars)</b>				
	Under 20	251.4	1.6	1.1
	20-49	615.9	3.6	2.2
	50-99	384.1	1.9	0.8
	100-249	1,169.5	5.6	2.9
	250-499	246.4	0.7	0.5
	500 and Over	671.2	0.2	0.2
	Total	636.3	0.3	0.3
<b>313</b>	<b>TEXTILE MILLS</b>			
<b>Value of Shipments and Receipts (million dollars)</b>				
	Under 20	832.3	11.5	5.9
	20-49	610.6	8.4	3.7
	50-99	846.8	7.5	3.5
	100-249	985.8	12.0	4.7
	250-499	2,642.8	6.4	3.7
	500 and Over	2,077.2	4.3	3.1
	Total	880.2	8.6	4.1
<b>314</b>	<b>TEXTILE PRODUCT MILLS</b>			
<b>Value of Shipments and Receipts (million dollars)</b>				
	Under 20	280.7	3.9	1.9
	20-49	170.3	2.1	0.9
	50-99	1,188.4	10.9	3.2
	100-249	724.4	5.6	2.3
	250-499	748.0	Q	0.7
	500 and Over	1,306.8	4.8	2.1
	Total	552.6	4.6	1.8
<b>315</b>	<b>APPAREL</b>			
<b>Value of Shipments and Receipts (million dollars)</b>				
	Under 20	47.8	1.0	0.5
	20-49	121.9	1.2	0.5
	50-99	166.8	1.4	0.7
	100-249	92.0	0.6	0.3
	250-499	186.1	0.5	0.2
	500 and Over	0.0	0.0	0.0
	Total	73.9	1.0	0.5

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
316	<b>LEATHER AND ALLIED PRODUCTS</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	84.2	1.3	0.8
	20-49	143.2	1.6	0.7
	50-99	Q	Q	Q
	100-249	Q	Q	0.5
	250-499	0.0	0.0	0.0
	500 and Over	0.0	0.0	0.0
	Total	100.1	1.1	0.6
321	<b>WOOD PRODUCTS</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	434.2	6.1	2.7
	20-49	718.9	8.7	3.1
	50-99	2,138.5	20.2	7.3
	100-249	1,247.8	11.6	4.0
	250-499	105.7	1.1	0.4
	500 and Over	148.4	1.3	0.7
	Total	881.1	10.4	4.0
321113	<b>Sawmills</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	808.7	9.3	3.7
	20-49	1,873.0	19.5	6.2
	50-99	1,908.2	17.5	5.1
	100-249	2,206.7	19.8	4.9
	250-499	305.5	0.8	0.4
	500 and Over	0.0	0.0	0.0
	Total	1,481.1	15.1	5.0
3212	<b>Veneer, Plywood, and Engineered Woods</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	150.5	2.2	1.0
	20-49	1,076.2	15.4	5.3
	50-99	4,675.4	37.5	15.3
	100-249	2,258.8	18.7	6.2
	250-499	0.0	0.0	0.0
	500 and Over	0.0	0.0	0.0
	Total	1,496.1	17.6	6.8
3219	<b>Other Wood Products</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	393.7	5.9	2.7
	20-49	178.5	2.2	0.9
	50-99	1,298.4	13.8	5.6
	100-249	171.0	1.8	0.8
	250-499	91.2	1.2	0.4

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	500 and Over	148.4	1.3	0.7
	Total	447.8	5.6	2.5
<b>322</b>	<b>PAPER</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	464.4	4.8	2.2
	20-49	1,062.5	9.7	3.8
	50-99	1,216.5	9.6	3.5
	100-249	10,209.4	44.6	19.8
	250-499	16,251.8	47.8	25.0
	500 and Over	13,154.0	24.9	15.7
	Total	5,885.7	28.9	13.7
<b>322110</b>	<b>Pulp Mills</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	42,261.7	393.7	161.3
	20-49	6,791.7	27.9	9.1
	50-99	14,040.1	140.7	33.8
	100-249	35,876.0	117.6	54.8
	250-499	30,884.6	124.3	46.9
	500 and Over	29,846.6	82.5	50.0
	Total	31,819.8	113.2	49.9
<b>322121</b>	<b>Paper Mills, except Newsprint</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	2,157.3	18.8	9.2
	20-49	5,985.0	40.7	19.4
	50-99	7,206.6	41.8	16.2
	100-249	10,705.2	51.1	24.3
	250-499	15,702.0	53.6	26.3
	500 and Over	12,305.0	22.1	14.3
	Total	12,263.6	35.3	19.6
<b>322122</b>	<b>Newsprint Mills</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	1,625.8	19.0	8.3
	20-49	0.0	0.0	0.0
	50-99	0.0	0.0	0.0
	100-249	18,392.5	49.7	24.5
	250-499	15,302.5	26.7	14.5
	500 and Over	0.0	0.0	0.0
	Total	17,250.1	40.8	20.9
<b>322130</b>	<b>Paperboard Mills</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	2,650.0	18.1	9.2
	20-49	5,332.5	31.1	14.9

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	50-99	8,699.9	31.8	16.2
	100-249	16,660.2	44.0	23.6
	250-499	26,627.9	80.0	40.3
	500 and Over	28,461.6	79.4	35.6
	Total	20,470.2	64.4	32.3

**323 PRINTING AND RELATED SUPPORT****Value of Shipments and Receipts (million dollars)**

Under 20	79.7	0.9	0.6
20-49	139.6	1.1	0.7
50-99	525.4	3.6	2.1
100-249	299.8	1.8	1.3
250-499	Q	Q	Q
500 and Over	0.0	0.0	0.0
Total	164.6	1.5	1.0

**324 PETROLEUM AND COAL PRODUCTS****Value of Shipments and Receipts (million dollars)**

Under 20	3,352.2	17.4	5.2
20-49	3,696.7	12.5	4.5
50-99	2,803.6	10.1	3.4
100-249	6,670.8	23.0	6.2
250-499	15,949.0	21.3	6.9
500 and Over	55,638.3	28.1	6.2
Total	35,024.9	27.0	6.1

**324110 Petroleum Refineries****Value of Shipments and Receipts (million dollars)**

Under 20	16,085.0	122.1	39.4
20-49	52,040.0	157.9	82.0
50-99	9,683.9	16.2	5.2
100-249	16,786.9	-39.2	13.6
250-499	28,102.0	20.6	7.6
500 and Over	56,343.7	29.0	6.2
Total	54,782.0	29.2	6.3

**324199 Other Petroleum and Coal Products****Value of Shipments and Receipts (million dollars)**

Under 20	NA	NA	NA
20-49	4,767.6	25.8	5.2
50-99	7,064.2	21.6	8.5
100-249	10,043.8	33.2	13.5
250-499	344,340.3	939.6	153.5
500 and Over	0.0	0.0	0.0
Total	22,636.1	82.7	27.5

**325 CHEMICALS****Value of Shipments and Receipts**

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
<b>(million dollars)</b>				
Under 20	1,039.7	6.0	3.1	
20-49	2,151.9	9.2	4.8	
50-99	1,869.7	8.5	3.9	
100-249	NA	NA	NA	
250-499	5,498.1	9.1	4.9	
500 and Over	9,182.3	10.1	5.5	
Total	4,768.2	9.4	5.1	

**325110 Petrochemicals****Value of Shipments and Receipts (million dollars)**

Under 20	710.2	2.7	1.8
20-49	2,912.3	4.8	2.9
50-99	5,158.1	16.2	6.9
100-249	41,536.7	36.1	6.6
250-499	12,380.3	21.9	5.8
500 and Over	126,647.8	30.1	12.6
Total	103,258.2	29.8	12.4

**325120 Industrial Gases****Value of Shipments and Receipts (million dollars)**

Under 20	7,751.1	28.3	18.1
20-49	24,652.9	34.4	21.7
50-99	36,058.7	26.3	17.6
100-249	18,774.1	17.4	9.6
250-499	4,039.3	5.2	2.9
500 and Over	6,851.1	11.8	4.7
Total	11,570.9	21.6	11.9

**325181 Alkalies and Chlorine****Value of Shipments and Receipts (million dollars)**

Under 20	1,350.7	8.9	3.0
20-49	3,893.3	25.8	13.2
50-99	12,924.2	34.8	18.1
100-249	20,987.1	40.2	23.1
250-499	40,470.1	60.7	36.2
500 and Over	41,692.1	87.9	37.1
Total	32,214.4	61.9	32.0

**325182 Carbon Black****Value of Shipments and Receipts (million dollars)**

Under 20	3,581.5	32.5	19.8
20-49	9,515.9	46.3	13.1
50-99	13,517.9	28.6	13.2
100-249	7,991.7	18.8	6.9
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	10,563.9	25.0	10.1

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
325188	<b>Other Basic Inorganic Chemicals</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	1,970.3	9.8	5.1
	20-49	7,081.8	33.9	14.7
	50-99	5,518.4	16.7	9.1
	100-249	3,951.8	17.9	7.1
	250-499	2,737.5	6.4	3.5
	500 and Over	4,880.8	17.8	14.5
	Total	4,428.2	16.8	9.5
325192	<b>Cyclic Crudes and Intermediates</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	6,056.9	21.0	10.3
	20-49	1,289.4	4.0	2.0
	50-99	8,018.1	14.0	5.6
	100-249	9,710.1	29.2	16.7
	250-499	17,556.9	23.3	10.5
	500 and Over	12,959.9	5.3	3.3
	Total	12,763.7	8.8	5.1
325193	<b>Ethyl Alcohol</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	38,643.4	127.4	72.7
	20-49	29,133.6	73.1	35.5
	50-99	30,280.2	36.3	17.7
	100-249	28,267.9	28.4	14.1
	250-499	34,147.7	22.3	8.5
	500 and Over	19,152.5	6.3	4.2
	Total	28,213.9	23.7	13.6
325199	<b>Other Basic Organic Chemicals</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	1,467.1	8.4	4.5
	20-49	2,691.4	11.0	5.0
	50-99	3,891.6	11.7	5.5
	100-249	5,667.9	20.0	6.9
	250-499	10,764.9	17.6	7.9
	500 and Over	16,537.9	38.1	10.6
	Total	10,328.6	26.7	9.0
325211	<b>Plastics Materials and Resins</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	725.1	4.0	1.6
	20-49	1,977.4	10.0	3.7
	50-99	3,604.4	12.5	3.7
	100-249	5,862.1	13.4	4.0
	250-499	6,694.2	11.1	3.5

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	500 and Over	21,873.7	35.1	10.4
	Total	11,821.0	24.9	7.6
<b>325212</b>	<b>Synthetic Rubber</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	317.9	2.6	1.2
	20-49	2,257.3	8.9	4.7
	50-99	2,103.6	7.5	3.2
	100-249	4,723.6	17.7	5.2
	250-499	7,778.1	23.6	6.9
	500 and Over	9,446.0	23.1	7.5
	Total	5,118.1	17.8	6.0
<b>325222</b>	<b>Noncellulosic Organic Fibers</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	3,388.0	29.7	14.8
	20-49	1,273.4	8.1	4.4
	50-99	1,523.8	16.0	4.1
	100-249	2,477.0	18.1	6.0
	250-499	2,495.5	9.1	4.2
	500 and Over	13,769.1	29.8	11.0
	Total	5,137.0	20.1	7.8
<b>325311</b>	<b>Nitrogenous Fertilizers</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	3,153.4	13.4	6.1
	20-49	29,509.0	102.6	39.2
	50-99	22,127.3	45.1	20.0
	100-249	45,389.6	99.8	32.4
	250-499	118,189.0	262.3	50.8
	500 and Over	0.0	0.0	0.0
	Total	51,960.0	131.1	38.2
<b>325312</b>	<b>Phosphatic Fertilizers</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	744.5	3.1	1.5
	20-49	3,465.1	31.2	3.1
	50-99	652.5	2.0	1.0
	100-249	3,676.3	10.0	4.2
	250-499	4,266.3	18.7	4.1
	500 and Over	2,576.8	26.9	3.2
	Total	3,387.7	15.3	3.7
<b>3254</b>	<b>Pharmaceuticals and Medicines</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	216.8	1.5	1.1
	20-49	449.6	2.0	1.5

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
50-99	281.4	2.2	1.2	
100-249	NA	NA	NA	
250-499	491.4	1.1	0.8	
500 and Over	429.6	0.4	0.3	
Total	412.1	0.7	0.5	

**325412 Pharmaceutical Preparation****Value of Shipments and Receipts (million dollars)**

Under 20	230.2	1.5	0.9
20-49	680.1	3.3	2.4
50-99	234.3	1.8	0.9
100-249	486.7	2.2	1.4
250-499	438.4	1.0	0.7
500 and Over	494.0	0.4	0.3
Total	447.9	0.6	0.5

**325992 Photographic Film, Paper, Plate, and Chemicals****Value of Shipments and Receipts (million dollars)**

Under 20	1,093.9	8.7	4.6
20-49	545.9	3.2	1.6
50-99	557.2	3.6	1.5
100-249	796.1	2.0	1.0
250-499	1,208.5	1.6	1.2
500 and Over	1,013.1	4.1	2.7
Total	951.1	3.8	2.4

**326 PLASTICS AND RUBBER PRODUCTS****Value of Shipments and Receipts (million dollars)**

Under 20	281.0	3.5	1.8
20-49	387.8	3.9	1.8
50-99	362.5	2.9	1.2
100-249	567.5	3.6	1.6
250-499	644.4	3.9	2.0
500 and Over	714.9	6.3	2.3
Total	414.9	3.7	1.7

**327 NONMETALLIC MINERAL PRODUCTS****Value of Shipments and Receipts (million dollars)**

Under 20	829.7	7.0	3.7
20-49	2,767.2	20.2	10.2
50-99	5,604.1	26.9	15.1
100-249	6,608.8	25.9	16.2
250-499	7,117.5	18.6	11.3
500 and Over	84.8	0.6	0.4
Total	2,758.7	17.5	9.7

**327211 Flat Glass****Value of Shipments and Receipts**

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
<b>(million dollars)</b>				
Under 20	5,579.8	63.9	39.6	
20-49	2,516.2	21.6	12.6	
50-99	6,470.5	37.5	20.5	
100-249	6,679.5	39.7	21.1	
250-499	1,455.3	2.6	1.5	
500 and Over	0.0	0.0	0.0	
Total	6,151.1	34.5	18.7	

**327212 Other Pressed and Blown Glass and Glassware****Value of Shipments and Receipts (million dollars)**

Under 20	12,193.8	145.1	89.3
20-49	4,142.9	37.7	23.5
50-99	3,491.3	14.0	9.7
100-249	2,428.0	23.3	13.2
250-499	2,493.6	9.3	6.0
500 and Over	0.0	0.0	0.0
Total	4,827.5	39.5	24.1

**327213 Glass Containers****Value of Shipments and Receipts (million dollars)**

Under 20	225.4	4.1	3.2
20-49	3,597.2	23.3	14.0
50-99	4,439.0	25.1	14.4
100-249	4,758.9	23.6	13.6
250-499	0.0	0.0	0.0
500 and Over	0.0	0.0	0.0
Total	4,489.3	24.3	14.1

**327215 Glass Products from Purchased Glass****Value of Shipments and Receipts (million dollars)**

Under 20	179.2	2.2	1.2
20-49	2,680.6	26.9	14.2
50-99	1,273.7	10.2	4.7
100-249	512.0	3.5	1.9
250-499	741.7	2.3	1.9
500 and Over	84.8	0.6	0.4
Total	1,082.5	9.8	5.1

**327310 Cements****Value of Shipments and Receipts (million dollars)**

Under 20	1,773.0	5.4	2.5
20-49	9,457.5	41.4	22.6
50-99	23,833.1	61.7	40.5
100-249	29,161.7	50.7	35.9
250-499	38,931.3	54.1	30.6
500 and Over	0.0	0.0	0.0
Total	21,483.0	52.5	34.0

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
327410 Lime				
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	27,985.6	129.8	71.9
	20-49	33,210.0	149.5	88.7
	50-99	31,484.0	99.2	66.6
	100-249	18,693.5	100.2	73.1
	250-499	0.0	0.0	0.0
	500 and Over	0.0	0.0	0.0
	Total	29,095.2	120.1	75.8
327420 Gypsum				
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	375.4	2.1	1.0
	20-49	3,370.7	13.6	6.3
	50-99	8,296.3	19.3	12.0
	100-249	10,317.3	21.7	13.4
	250-499	9,157.2	16.3	10.6
	500 and Over	0.0	0.0	0.0
	Total	7,390.7	18.7	11.0
327993 Mineral Wool				
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	549.5	4.2	2.4
	20-49	2,816.1	20.7	11.8
	50-99	3,628.0	15.4	9.5
	100-249	3,700.3	12.3	8.0
	250-499	2,512.8	11.5	8.1
	500 and Over	0.0	0.0	0.0
	Total	2,919.3	12.7	8.0
331 PRIMARY METALS				
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	712.5	6.6	3.8
	20-49	771.1	6.7	3.0
	50-99	1,427.4	9.5	4.0
	100-249	2,194.8	11.2	4.2
	250-499	3,196.7	14.2	4.7
	500 and Over	13,690.8	35.1	11.9
	Total	4,052.3	20.0	7.5
331111 Iron and Steel Mills				
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	4,142.2	26.8	13.2
	20-49	1,060.9	7.1	2.9
	50-99	4,250.1	27.5	8.4
	100-249	7,102.1	26.7	10.5
	250-499	4,846.0	14.1	5.5

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	500 and Over	17,535.1	44.2	16.4
	Total	13,113.0	37.7	14.2
<b>331112 Electrometallurgical Ferroalloy Products</b>				
<b>Value of Shipments and Receipts (million dollars)</b>				
	Under 20	1,211.8	41.7	7.9
	20-49	4,741.4	16.8	12.0
	50-99	14,688.6	75.9	26.4
	100-249	0.0	0.0	0.0
	250-499	5,870.5	18.1	10.7
	500 and Over	0.0	0.0	0.0
	Total	8,820.0	36.1	17.5
<b>3312 Steel Products from Purchased Steel</b>				
<b>Value of Shipments and Receipts (million dollars)</b>				
	Under 20	506.5	5.0	1.7
	20-49	567.8	4.3	1.6
	50-99	760.4	5.0	1.8
	100-249	1,329.4	4.6	1.8
	250-499	1,376.6	4.9	1.8
	500 and Over	4,981.8	6.8	3.2
	Total	996.4	5.0	1.9
<b>3313 Alumina and Aluminum</b>				
<b>Value of Shipments and Receipts (million dollars)</b>				
	Under 20	737.3	7.9	3.2
	20-49	856.0	9.1	2.9
	50-99	1,280.8	10.5	3.0
	100-249	2,229.8	15.0	3.4
	250-499	7,335.6	33.8	7.2
	500 and Over	8,349.7	28.3	8.4
	Total	4,096.1	22.7	6.2
<b>331314 Secondary Smelting and Alloying of Aluminum</b>				
<b>Value of Shipments and Receipts (million dollars)</b>				
	Under 20	2,249.6	19.0	6.8
	20-49	3,236.9	24.3	5.7
	50-99	3,112.8	16.6	2.7
	100-249	3,559.1	15.1	2.6
	250-499	5,323.8	22.3	2.4
	500 and Over	1,393.3	5.9	0.9
	Total	3,044.5	16.1	2.7
<b>331315 Aluminum Sheet, Plate and Foils</b>				
<b>Value of Shipments and Receipts (million dollars)</b>				
	Under 20	175.8	1.9	0.8
	20-49	1,753.8	11.8	3.9

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	50-99	1,377.8	6.3	2.5
	100-249	1,921.1	7.3	1.9
	250-499	3,007.4	13.5	2.4
	500 and Over	4,183.8	14.9	3.8
	Total	3,477.1	13.6	3.3

**331316 Aluminum Extruded Products****Value of Shipments and Receipts (million dollars)**

Under 20	311.0	3.6	1.5
20-49	390.5	4.6	1.7
50-99	958.8	9.3	3.0
100-249	1,239.1	11.5	2.8
250-499	1,665.1	26.7	2.8
500 and Over	1,725.6	9.6	3.0
Total	831.4	8.6	2.5

**3314 Nonferrous Metals, except Aluminum****Value of Shipments and Receipts (million dollars)**

Under 20	511.9	4.2	2.4
20-49	961.0	5.2	2.4
50-99	1,430.7	5.3	2.6
100-249	1,729.0	7.9	2.6
250-499	1,852.4	8.8	2.1
500 and Over	4,104.7	6.6	1.7
Total	1,631.4	6.7	2.1

**3315 Foundries****Value of Shipments and Receipts (million dollars)**

Under 20	632.5	6.1	4.1
20-49	724.0	7.1	4.1
50-99	971.8	8.5	4.6
100-249	1,417.4	9.5	4.9
250-499	1,389.9	9.4	4.9
500 and Over	1,355.7	12.4	4.6
Total	956.2	8.0	4.5

**331511 Iron Foundries****Value of Shipments and Receipts (million dollars)**

Under 20	588.4	7.0	4.2
20-49	1,660.0	16.2	8.7
50-99	1,032.0	8.8	4.9
100-249	2,284.2	15.5	7.7
250-499	1,339.8	11.4	5.4
500 and Over	1,355.7	12.4	4.6
Total	1,379.4	12.0	6.2

**331521 Aluminum Die-Casting Foundries****Value of Shipments and Receipts**

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
<b>(million dollars)</b>				
Under 20	1,355.5	15.4	8.9	
20-49	588.4	6.6	3.4	
50-99	1,220.5	10.0	4.4	
100-249	1,138.0	8.1	3.8	
250-499	0.0	0.0	0.0	
500 and Over	0.0	0.0	0.0	
Total	1,073.3	9.8	4.9	

**331524 Aluminum Foundries, except Die-Casting****Value of Shipments and Receipts (million dollars)**

Under 20	703.5	9.6	5.7
20-49	504.9	6.1	3.6
50-99	674.1	7.6	3.6
100-249	1,051.3	9.9	4.1
250-499	629.6	3.4	1.6
500 and Over	0.0	0.0	0.0
Total	683.9	7.9	4.1

**332 FABRICATED METAL PRODUCTS****Value of Shipments and Receipts (million dollars)**

Under 20	222.9	2.5	1.5
20-49	319.2	2.6	1.3
50-99	336.1	2.2	1.0
100-249	489.5	3.6	1.6
250-499	Q	Q	Q
500 and Over	Q	Q	Q
Total	302.5	2.6	1.3

**333 MACHINERY****Value of Shipments and Receipts (million dollars)**

Under 20	223.3	2.3	1.3
20-49	115.3	0.7	0.4
50-99	161.7	1.3	0.6
100-249	127.4	0.9	0.4
250-499	246.0	1.4	0.6
500 and Over	325.3	1.0	0.4
Total	197.8	1.2	0.6

**334 COMPUTER AND ELECTRONIC PRODUCTS****Value of Shipments and Receipts (million dollars)**

Under 20	131.6	1.3	0.8
20-49	95.2	0.6	0.4
50-99	105.8	0.8	0.4
100-249	202.8	1.0	0.6
250-499	160.4	0.6	0.5
500 and Over	218.6	0.5	0.3
Total	161.9	0.7	0.4

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
334413	<b>Semiconductors and Related Devices</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	557.6	3.7	2.6
	20-49	143.6	1.1	0.6
	50-99	537.7	2.7	1.9
	100-249	652.7	2.8	2.2
	250-499	448.0	1.5	1.1
	500 and Over	495.1	0.9	0.7
	Total	490.8	1.2	0.9
335	<b>ELEC. EQUIP., APPLIANCES, COMPONENTS</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	124.7	1.2	0.7
	20-49	147.2	1.4	0.7
	50-99	395.6	2.7	1.4
	100-249	461.7	2.6	1.3
	250-499	196.5	1.1	0.5
	500 and Over	188.7	1.3	0.4
	Total	246.2	1.8	0.8
336	<b>TRANSPORTATION EQUIPMENT</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	149.5	1.9	0.9
	20-49	154.3	1.3	0.7
	50-99	233.3	2.0	1.0
	100-249	499.9	4.0	1.7
	250-499	231.9	1.7	0.5
	500 and Over	277.1	1.2	0.4
	Total	285.8	1.7	0.6
336111	<b>Automobiles</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	182.7	1.0	0.5
	20-49	443.3	2.2	0.9
	50-99	149.8	1.2	0.4
	100-249	352.0	3.5	1.6
	250-499	538.0	2.7	1.3
	500 and Over	523.7	1.5	0.4
	Total	512.4	1.5	0.4
336112	<b>Light Trucks and Utility Vehicles</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	104.7	0.4	0.2
	20-49	91.9	0.2	0.1
	50-99	412.1	26.4	4.3
	100-249	298.7	-1.0	1.6
	250-499	0.0	0.0	0.0

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	500 and Over	510.0	1.3	0.3
	Total	505.3	1.3	0.3
<b>336</b>	<b>Aerospace Products</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	162.1	1.3	0.8
	20-49	294.2	2.3	1.3
	50-99	213.7	1.6	0.9
	100-249	249.0	1.6	0.9
	250-499	189.6	1.0	0.6
	500 and Over	130.2	0.7	0.3
	Total	160.3	0.9	0.4
<b>336411</b>	<b>Aircraft</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	138.0	2.1	1.1
	20-49	79.9	0.6	0.4
	50-99	87.8	0.9	0.6
	100-249	133.5	1.0	0.6
	250-499	32.4	0.2	0.1
	500 and Over	95.9	0.5	0.2
	Total	97.5	0.6	0.2
<b>337</b>	<b>FURNITURE AND RELATED PRODUCTS</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	91.7	1.3	0.7
	20-49	85.4	1.0	0.6
	50-99	111.3	1.0	0.6
	100-249	131.8	0.8	0.5
	250-499	487.1	3.5	1.7
	500 and Over	187.6	0.9	0.6
	Total	110.7	1.1	0.6
<b>339</b>	<b>MISCELLANEOUS</b>			
	<b>Value of Shipments and Receipts (million dollars)</b>			
	Under 20	102.4	1.2	0.7
	20-49	124.0	0.7	0.5
	50-99	166.7	0.9	0.6
	100-249	109.1	0.8	0.5
	250-499	120.4	Q	Q
	500 and Over	73.7	0.2	0.1
	Total	110.6	0.6	0.4

(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.

**Table 6.3 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Values of Shipments within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
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\* 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, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)			
		<b>Total United States</b>					
<b>311 - 339 ALL MANUFACTURING INDUSTRIES</b>							
<b>Employment Size</b>							
Under 50		562.6	4.7	2.4			
50-99		673.1	5.1	2.4			
100-249		1,072.8	6.5	3.0			
250-499		1,564.3	7.7	3.6			
500-999		2,328.9	10.6	4.5			
1000 and Over		1,415.5	5.7	2.5			
Total		1,278.4	6.9	3.1			
<b>311</b>	<b>FOOD</b>						
<b>Employment Size</b>							
Under 50		1,266.8	8.3	3.2			
50-99		1,587.4	9.3	3.6			
100-249		931.9	3.6	1.5			
250-499		1,313.1	6.3	3.0			
500-999		509.0	3.0	1.6			
1000 and Over		427.5	3.9	1.4			
Total		879.8	5.0	2.2			
<b>3112</b>	<b>Grain and Oilseed Milling</b>						
<b>Employment Size</b>							
Under 50		3,382.8	10.9	2.3			
50-99		5,655.9	14.7	3.9			
100-249		3,989.3	14.9	4.7			
250-499		12,694.0	26.8	11.8			
500-999		7,642.4	13.0	7.9			
1000 and Over		701.8	4.1	2.3			
Total		6,416.6	17.5	5.7			
<b>311221</b>	<b>Wet Corn Milling</b>						
<b>Employment Size</b>							
Under 50		3,971.9	18.3	9.2			
50-99		16,415.5	52.7	19.1			
100-249		13,779.6	25.8	13.2			
250-499		26,699.0	49.9	19.7			
500-999		18,168.1	41.5	17.7			
1000 and Over		0.0	0.0	0.0			
Total		21,552.1	43.6	18.2			
<b>31131</b>	<b>Sugar</b>						
<b>Employment Size</b>							
Under 50		3,201.7	42.9	8.8			
50-99		9,870.0	163.0	40.9			
100-249		7,514.7	50.4	18.9			
250-499		6,477.9	27.6	11.1			
500-999		4,208.6	17.9	5.4			
1000 and Over		0.0	0.0	0.0			
Total		6,629.2	31.3	12.2			

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
3114	<b>Fruit and Vegetable Preserving and Specialty Foods</b>			
	<b>Employment Size</b>			
	Under 50	1,221.8	4.0	2.6
	50-99	3,186.0	20.2	10.3
	100-249	830.4	4.5	2.0
	250-499	1,152.4	7.9	3.3
	500-999	717.5	2.9	1.6
	1000 and Over	412.7	2.3	1.2
	Total	1,075.3	5.5	2.8
3115	<b>Dairy Products</b>			
	<b>Employment Size</b>			
	Under 50	1,503.4	9.8	2.5
	50-99	920.9	4.9	1.5
	100-249	960.3	3.9	1.1
	250-499	793.9	2.9	1.1
	500-999	914.1	4.7	1.9
	1000 and Over	546.4	4.2	1.3
	Total	956.3	4.3	1.3
3116	<b>Animal Slaughtering and Processing</b>			
	<b>Employment Size</b>			
	Under 50	1,533.0	11.7	4.1
	50-99	1,221.2	6.3	3.6
	100-249	557.2	4.5	1.4
	250-499	503.3	4.2	1.4
	500-999	319.4	3.0	1.3
	1000 and Over	441.1	4.4	1.4
	Total	493.8	4.4	1.6
312	<b>BEVERAGE AND TOBACCO PRODUCTS</b>			
	<b>Employment Size</b>			
	Under 50	757.0	3.7	1.9
	50-99	701.6	2.6	0.9
	100-249	460.3	1.2	0.5
	250-499	621.0	1.6	0.8
	500-999	1,308.7	2.6	1.6
	1000 and Over	1,474.2	0.7	0.6
	Total	852.9	1.4	0.9
3121	<b>Beverages</b>			
	<b>Employment Size</b>			
	Under 50	762.3	3.8	1.9
	50-99	694.7	2.6	0.8
	100-249	459.7	1.2	0.5
	250-499	549.6	1.7	0.7
	500-999	1,415.9	2.9	1.7
	1000 and Over	3,555.6	4.9	3.4
	Total	892.2	2.4	1.1
3122	<b>Tobacco</b>			

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
<b>Employment Size</b>				
Under 50		566.4	1.7	0.8
50-99		826.2	4.7	2.0
100-249		467.7	1.0	0.7
250-499		1,387.2	1.4	1.2
500-999		651.1	1.0	0.8
1000 and Over		495.7	0.2	0.2
Total		636.3	0.3	0.3
<b>313</b>	<b>TEXTILE MILLS</b>			
<b>Employment Size</b>				
Under 50		1,318.0	11.4	5.3
50-99		Q	Q	
100-249		768.9	7.4	3.5
250-499		908.5	8.5	4.0
500-999		706.0	9.4	4.1
1000 and Over		2,055.7	10.6	7.2
Total		880.2	8.6	4.1
<b>314</b>	<b>TEXTILE PRODUCT MILLS</b>			
<b>Employment Size</b>				
Under 50		291.6	3.3	1.5
50-99		260.9	4.1	1.6
100-249		673.1	Q	
250-499		358.4		1.1
500-999		794.1	Q	
1000 and Over		984.8		1.4
Total		552.6		2.3
<b>315</b>	<b>APPAREL</b>			
<b>Employment Size</b>				
Under 50		57.7	0.6	0.3
50-99		49.5	0.9	0.4
100-249		76.9	1.3	0.6
250-499		102.3	1.0	0.5
500-999		64.1	Q	
1000 and Over		0.0		0.4
Total		73.9		0.0
				0.0
				0.5
<b>316</b>	<b>LEATHER AND ALLIED PRODUCTS</b>			
<b>Employment Size</b>				
Under 50		71.9	0.8	0.5
50-99		116.7	1.4	0.8
100-249		146.2	1.2	0.6
250-499		68.8	1.5	0.6
500-999		Q	Q	
1000 and Over		0.0		0.0
Total		100.1		0.0
				0.6
<b>321</b>	<b>WOOD PRODUCTS</b>			
<b>Employment Size</b>				

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	Under 50	600.2	7.0	2.9
	50-99	414.4	4.9	1.9
	100-249	1,450.7	16.4	5.9
	250-499	892.0	11.0	4.1
	500-999	924.2	11.7	4.9
	1000 and Over	123.0	1.5	0.7
	Total	881.1	10.4	4.0
<b>321113</b>	<b>Sawmills</b>			
	<b>Employment Size</b>			
	Under 50	843.6	7.7	3.1
	50-99	962.7	10.5	3.6
	100-249	2,248.3	23.5	6.9
	250-499	1,365.3	14.6	4.2
	500-999	151.0	2.1	1.3
	1000 and Over	0.0	0.0	0.0
	Total	1,481.1	15.1	5.0
<b>3212</b>	<b>Veneer, Plywood, and Engineered Woods</b>			
	<b>Employment Size</b>			
	Under 50	154.2	2.2	0.8
	50-99	348.1	4.7	1.8
	100-249	1,847.7	19.1	8.0
	250-499	2,097.7	26.9	8.9
	500-999	3,767.4	36.6	16.1
	1000 and Over	0.0	0.0	0.0
	Total	1,496.1	17.6	6.8
<b>3219</b>	<b>Other Wood Products</b>			
	<b>Employment Size</b>			
	Under 50	582.1	8.0	3.7
	50-99	204.1	2.4	1.1
	100-249	855.8	10.7	4.0
	250-499	107.3	1.4	0.6
	500-999	386.0	5.2	2.1
	1000 and Over	123.0	1.5	0.7
	Total	447.8	5.6	2.5
<b>322</b>	<b>PAPER</b>			
	<b>Employment Size</b>			
	Under 50	563.8	4.9	2.1
	50-99	1,705.7	13.3	5.4
	100-249	1,810.5	12.8	5.0
	250-499	10,239.6	38.3	20.1
	500-999	13,131.1	49.8	25.2
	1000 and Over	10,321.2	25.6	15.8
	Total	5,885.7	28.9	13.7
<b>322110</b>	<b>Pulp Mills</b>			
	<b>Employment Size</b>			
	Under 50	24,785.9	122.6	43.2
	50-99	3,923.7	8.5	4.1

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
100-249	40,666.7	121.3	55.3	
250-499	29,881.0	108.0	48.4	
500-999	33,399.2	138.2	58.3	
1000 and Over	0.0	0.0	0.0	
Total	31,819.8	113.2	49.9	
<b>322121</b>	<b>Paper Mills, except Newsprint</b>			
	<b>Employment Size</b>			
Under 50	3,242.9	24.7	11.3	
50-99	7,887.5	43.5	18.8	
100-249	6,673.9	23.8	11.8	
250-499	9,948.8	26.9	14.9	
500-999	15,815.6	56.6	28.8	
1000 and Over	11,856.1	25.4	15.9	
Total	12,263.6	35.3	19.6	
<b>322122</b>	<b>Newsprint Mills</b>			
	<b>Employment Size</b>			
Under 50	1,625.8	19.0	8.3	
50-99	0.0	0.0	0.0	
100-249	12,553.0	32.0	16.6	
250-499	22,588.2	48.5	24.5	
500-999	0.0	0.0	0.0	
1000 and Over	0.0	0.0	0.0	
Total	17,250.1	40.8	20.9	
<b>322130</b>	<b>Paperboard Mills</b>			
	<b>Employment Size</b>			
Under 50	2,617.1	16.5	7.3	
50-99	8,771.5	33.4	16.4	
100-249	9,330.9	30.4	16.6	
250-499	29,665.7	73.8	37.1	
500-999	24,295.4	77.2	38.3	
1000 and Over	14,580.0	79.3	35.6	
Total	20,470.2	64.4	32.3	
<b>323</b>	<b>PRINTING AND RELATED SUPPORT</b>			
	<b>Employment Size</b>			
Under 50	72.3	0.9	0.6	
50-99	93.6	1.0	0.6	
100-249	168.6	1.2	0.7	
250-499	339.1	1.9	1.4	
500-999	412.1	3.8	2.3	
1000 and Over	428.0	4.4	2.6	
Total	164.6	1.5	1.0	
<b>324</b>	<b>PETROLEUM AND COAL PRODUCTS</b>			
	<b>Employment Size</b>			
Under 50	4,553.9	14.8	4.5	
50-99	5,774.2	21.3	3.2	
100-249	18,704.6	22.9	5.5	
250-499	40,228.3	29.8	5.9	

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	500-999	59,795.1	29.4	6.3
	1000 and Over	57,786.6	26.0	6.8
	Total	35,024.9	27.0	6.1
<b>324110</b>	<b>Petroleum Refineries</b>			
	<b>Employment Size</b>			
	Under 50	36,794.3	24.3	8.2
	50-99	20,431.0	-56.1	4.6
	100-249	48,046.1	35.8	5.6
	250-499	47,596.1	30.9	5.9
	500-999	59,795.1	29.4	6.3
	1000 and Over	57,786.6	26.0	6.8
	Total	54,782.0	29.2	6.3
<b>324199</b>	<b>Other Petroleum and Coal Products</b>			
	<b>Employment Size</b>			
	Under 50	NA	NA	NA
	50-99	14,661.1	50.2	13.7
	100-249	63,911.4	242.6	75.1
	250-499	5,356.1	24.8	10.8
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	22,636.1	82.7	27.5
<b>325</b>	<b>CHEMICALS</b>			
	<b>Employment Size</b>			
	Under 50	3,564.6	8.2	4.0
	50-99	3,532.2	10.3	4.8
	100-249	NA	NA	NA
	250-499	5,346.5	8.0	4.6
	500-999	11,457.1	14.4	6.7
	1000 and Over	3,291.8	8.1	5.0
	Total	4,768.2	9.4	5.1
<b>325110</b>	<b>Petrochemicals</b>			
	<b>Employment Size</b>			
	Under 50	20,075.6	22.8	3.8
	50-99	13,294.1	20.5	7.5
	100-249	42,123.2	14.7	6.3
	250-499	111,126.3	25.7	12.5
	500-999	161,689.0	40.0	15.6
	1000 and Over	0.0	0.0	0.0
	Total	103,258.2	29.8	12.4
<b>325120</b>	<b>Industrial Gases</b>			
	<b>Employment Size</b>			
	Under 50	14,650.0	30.2	19.5
	50-99	8,393.0	12.3	7.5
	100-249	11,073.5	19.8	5.1
	250-499	5,973.2	8.3	4.8
	500-999	3,931.6	7.4	6.1
	1000 and Over	0.0	0.0	0.0

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	Total	11,570.9	21.6	11.9
<b>325181</b>	<b>Alkalies and Chlorine</b>			
	<b>Employment Size</b>			
	Under 50	1,350.7	8.9	3.0
	50-99	13,821.1	33.0	17.8
	100-249	47,554.9	61.3	32.8
	250-499	34,087.6	56.7	35.5
	500-999	20,384.4	61.1	40.1
	1000 and Over	29,958.4	80.5	32.3
	Total	32,214.4	61.9	32.0
<b>325182</b>	<b>Carbon Black</b>			
	<b>Employment Size</b>			
	Under 50	15,494.4	52.9	16.5
	50-99	11,350.4	24.8	11.0
	100-249	7,563.4	19.5	6.9
	250-499	0.0	0.0	0.0
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	10,563.9	25.0	10.1
<b>325188</b>	<b>Other Basic Inorganic Chemicals</b>			
	<b>Employment Size</b>			
	Under 50	4,185.9	10.7	5.8
	50-99	3,407.6	13.3	6.3
	100-249	4,080.9	11.3	5.8
	250-499	4,676.4	15.5	7.9
	500-999	13,716.6	109.7	37.1
	1000 and Over	3,149.5	16.3	13.6
	Total	4,428.2	16.8	9.5
<b>325192</b>	<b>Cyclic Crudes and Intermediates</b>			
	<b>Employment Size</b>			
	Under 50	8,052.1	13.4	6.5
	50-99	13,230.7	14.4	7.0
	100-249	26,625.4	6.8	4.2
	250-499	9,710.1	29.2	16.7
	500-999	7,783.1	9.4	5.0
	1000 and Over	0.0	0.0	0.0
	Total	12,763.7	8.8	5.1
<b>325193</b>	<b>Ethyl Alcohol</b>			
	<b>Employment Size</b>			
	Under 50	38,328.5	51.0	26.8
	50-99	21,332.7	38.8	17.4
	100-249	27,654.0	23.5	14.3
	250-499	14,339.7	3.9	2.5
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	28,213.9	23.7	13.6

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
<b>325199 Other Basic Organic Chemicals</b>				
<b>Employment Size</b>				
Under 50	2,575.0	7.4	3.4	
50-99	5,638.9	12.0	4.7	
100-249	9,797.8	16.5	7.3	
250-499	14,127.7	40.1	10.3	
500-999	17,668.4	26.4	10.3	
1000 and Over	7,231.2	127.6	13.8	
Total	10,328.6	26.7	9.0	
<b>325211 Plastics Materials and Resins</b>				
<b>Employment Size</b>				
Under 50	2,622.5	6.9	2.1	
50-99	5,662.3	12.8	4.0	
100-249	5,964.3	7.2	2.9	
250-499	13,362.2	17.3	8.4	
500-999	12,554.3	164.9	10.0	
1000 and Over	23,928.9	125.1	16.2	
Total	11,821.0	24.9	7.6	
<b>325212 Synthetic Rubber</b>				
<b>Employment Size</b>				
Under 50	1,521.0	6.9	3.3	
50-99	1,784.9	7.5	2.6	
100-249	3,634.3	11.7	4.2	
250-499	9,341.8	37.8	8.8	
500-999	1,916.8	3.4	2.3	
1000 and Over	0.0	0.0	0.0	
Total	5,118.1	17.8	6.0	
<b>325222 Noncellulosic Organic Fibers</b>				
<b>Employment Size</b>				
Under 50	5,317.6	28.5	9.3	
50-99	2,170.5	11.4	6.1	
100-249	1,496.1	7.8	3.4	
250-499	7,912.2	19.0	9.8	
500-999	5,515.2	27.9	7.5	
1000 and Over	787.7	7.5	2.9	
Total	5,137.0	20.1	7.8	
<b>325311 Nitrogenous Fertilizers</b>				
<b>Employment Size</b>				
Under 50	20,937.1	58.6	25.6	
50-99	65,986.4	92.4	41.6	
100-249	41,741.0	83.6	26.3	
250-499	128,295.5	-213.5	88.5	
500-999	0.0	0.0	0.0	
1000 and Over	0.0	0.0	0.0	
Total	51,960.0	131.1	38.2	
<b>325312 Phosphatic Fertilizers</b>				

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	<b>Employment Size</b>			
	Under 50	1,446.2	7.0	2.2
	50-99	61,516.8	45.2	16.2
	100-249	1,950.8	4.6	2.0
	250-499	2,469.5	10.1	2.5
	500-999	1,553.0	-49.2	1.8
	1000 and Over	3,579.4	15.3	6.5
	Total	3,387.7	15.3	3.7
3254	<b>Pharmaceuticals and Medicines</b>			
	<b>Employment Size</b>			
	Under 50	204.3	1.0	0.7
	50-99	817.4	3.1	2.2
	100-249	NA	NA	NA
	250-499	430.3	0.5	0.4
	500-999	425.6	0.6	0.4
	1000 and Over	357.0	0.7	0.5
	Total	412.1	0.7	0.5
325412	<b>Pharmaceutical Preparation</b>			
	<b>Employment Size</b>			
	Under 50	198.5	1.1	0.7
	50-99	885.4	2.7	1.9
	100-249	439.7	0.9	0.6
	250-499	421.4	0.5	0.4
	500-999	396.2	0.5	0.3
	1000 and Over	470.8	0.7	0.6
	Total	447.9	0.6	0.5
325992	<b>Photographic Film, Paper, Plate, and Chemicals</b>			
	<b>Employment Size</b>			
	Under 50	1,369.0	10.4	5.2
	50-99	397.3	2.2	0.9
	100-249	792.9	2.9	1.5
	250-499	824.9	1.3	1.0
	500-999	23.8	0.4	0.2
	1000 and Over	1,015.4	4.6	3.0
	Total	951.1	3.8	2.4
326	<b>PLASTICS AND RUBBER PRODUCTS</b>			
	<b>Employment Size</b>			
	Under 50	370.8	3.5	1.7
	50-99	292.3	2.7	1.1
	100-249	417.1	4.0	1.8
	250-499	323.6	2.9	1.6
	500-999	478.6	3.9	1.9
	1000 and Over	670.4	5.4	2.2
	Total	414.9	3.7	1.7
327	<b>NONMETALLIC MINERAL PRODUCTS</b>			
	<b>Employment Size</b>			
	Under 50	1,276.3	9.5	4.7

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	50-99	2,374.1	14.5	8.7
	100-249	5,055.4	26.7	15.3
	250-499	2,888.1	17.6	10.4
	500-999	3,462.1	22.2	13.2
	1000 and Over	758.8	7.6	4.5
	Total	2,758.7	17.5	9.7
<b>327211</b>	<b>Flat Glass</b>			
	<b>Employment Size</b>			
	Under 50	3,465.4	35.6	21.1
	50-99	170.6	2.2	2.0
	100-249	7,438.2	41.3	22.9
	250-499	6,690.6	30.1	16.4
	500-999	4,220.5	37.6	19.2
	1000 and Over	0.0	0.0	0.0
	Total	6,151.1	34.5	18.7
<b>327212</b>	<b>Other Pressed and Blown Glass and Glassware</b>			
	<b>Employment Size</b>			
	Under 50	24,367.0	275.9	148.9
	50-99	Q	Q	6.9
	100-249	5,838.9	32.0	21.3
	250-499	2,550.5	12.8	9.3
	500-999	2,357.6	22.9	12.2
	1000 and Over	1,447.2	21.1	11.4
	Total	4,827.5	39.5	24.1
<b>327213</b>	<b>Glass Containers</b>			
	<b>Employment Size</b>			
	Under 50	33.7	1.7	1.2
	50-99	281.8	4.3	3.4
	100-249	5,279.9	24.0	13.8
	250-499	4,371.6	24.7	14.3
	500-999	3,130.5	21.8	12.6
	1000 and Over	0.0	0.0	0.0
	Total	4,489.3	24.3	14.1
<b>327215</b>	<b>Glass Products from Purchased Glass</b>			
	<b>Employment Size</b>			
	Under 50	4,343.3	49.0	26.7
	50-99	372.6	3.8	1.8
	100-249	769.3	7.1	3.6
	250-499	492.4	4.5	2.3
	500-999	509.8	2.9	1.9
	1000 and Over	130.2	1.0	0.6
	Total	1,082.5	9.8	5.1
<b>327310</b>	<b>Cements</b>			
	<b>Employment Size</b>			
	Under 50	12,501.4	16.4	9.9
	50-99	9,919.9	34.0	21.3
	100-249	26,644.2	62.5	40.6

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	250-499	17,766.0	42.4	31.2
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	21,483.0	52.5	34.0
327410	Lime			
	<b>Employment Size</b>			
	Under 50	36,435.4	134.9	74.8
	50-99	43,956.4	111.6	75.9
	100-249	22,871.6	132.6	76.2
	250-499	20,847.9	115.4	84.1
	500-999	18,693.5	100.2	73.1
	1000 and Over	0.0	0.0	0.0
	Total	29,095.2	120.1	75.8
327420	Gypsum			
	<b>Employment Size</b>			
	Under 50	1,019.4	3.9	1.8
	50-99	8,414.1	16.6	10.8
	100-249	9,744.0	20.7	13.3
	250-499	6,426.5	27.7	12.9
	500-999	0.0	0.0	0.0
	1000 and Over	0.0	0.0	0.0
	Total	7,390.7	18.7	11.0
327993	Mineral Wool			
	<b>Employment Size</b>			
	Under 50	824.6	3.2	1.9
	50-99	1,958.8	23.2	10.4
	100-249	3,392.6	14.5	9.2
	250-499	3,384.3	13.4	8.5
	500-999	2,223.1	10.1	6.9
	1000 and Over	0.0	0.0	0.0
	Total	2,919.3	12.7	8.0
331	PRIMARY METALS			
	<b>Employment Size</b>			
	Under 50	1,030.4	4.9	2.4
	50-99	1,090.7	10.2	2.6
	100-249	1,469.7	9.1	3.1
	250-499	2,566.3	11.1	4.7
	500-999	4,450.5	18.2	6.8
	1000 and Over	13,011.0	54.8	19.4
	Total	4,052.3	20.0	7.5
331111	Iron and Steel Mills			
	<b>Employment Size</b>			
	Under 50	3,504.4	15.9	6.9
	50-99	5,576.4	25.7	7.1
	100-249	3,770.7	19.8	6.9
	250-499	7,998.9	14.0	6.7
	500-999	7,113.3	17.5	6.0

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	1000 and Over	20,076.9	69.0	24.0
	Total	13,113.0	37.7	14.2
<b>331112</b>	<b>Electrometallurgical Ferroalloy Products</b>			
	<b>Employment Size</b>			
	Under 50	695.6	-27.1	2.0
	50-99	3,468.6	17.9	12.6
	100-249	14,688.6	75.9	26.4
	250-499	0.0	0.0	0.0
	500-999	5,870.5	18.1	10.7
	1000 and Over	0.0	0.0	0.0
	Total	8,820.0	36.1	17.5
<b>3312</b>	<b>Steel Products from Purchased Steel</b>			
	<b>Employment Size</b>			
	Under 50	601.2	3.6	1.2
	50-99	689.0	4.2	1.2
	100-249	963.0	5.3	2.0
	250-499	1,100.7	5.4	2.4
	500-999	2,068.1	4.7	2.3
	1000 and Over	0.0	0.0	0.0
	Total	996.4	5.0	1.9
<b>3313</b>	<b>Alumina and Aluminum</b>			
	<b>Employment Size</b>			
	Under 50	2,594.4	13.8	3.4
	50-99	1,858.2	12.2	2.5
	100-249	1,247.4	9.7	2.2
	250-499	3,659.8	25.5	7.7
	500-999	8,138.8	31.3	9.8
	1000 and Over	5,380.0	23.5	7.0
	Total	4,096.1	22.7	6.2
<b>331314</b>	<b>Secondary Smelting and Alloying of Aluminum</b>			
	<b>Employment Size</b>			
	Under 50	3,381.9	14.9	3.5
	50-99	3,998.1	18.9	3.2
	100-249	3,173.4	20.3	2.5
	250-499	5,038.6	25.9	4.4
	500-999	151.2	0.9	0.2
	1000 and Over	0.0	0.0	0.0
	Total	3,044.5	16.1	2.7
<b>331315</b>	<b>Aluminum Sheet, Plate and Foils</b>			
	<b>Employment Size</b>			
	Under 50	2,964.5	14.5	4.3
	50-99	1,206.0	12.1	1.1
	100-249	2,206.5	7.8	1.8
	250-499	4,215.7	13.0	3.8
	500-999	4,383.5	15.1	3.7
	1000 and Over	3,227.9	16.3	4.1
	Total	3,477.1	13.6	3.3

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
<b>331316</b>	<b>Aluminum Extruded Products</b>			
	<b>Employment Size</b>			
	Under 50	591.5	6.9	2.0
	50-99	420.1	4.0	1.3
	100-249	669.8	7.1	2.1
	250-499	932.9	11.5	3.0
	500-999	1,276.7	9.3	3.4
	1000 and Over	0.0	0.0	0.0
	Total	831.4	8.6	2.5
<b>3314</b>	<b>Nonferrous Metals, except Aluminum</b>			
	<b>Employment Size</b>			
	Under 50	758.5	1.8	0.8
	50-99	594.0 Q		1.2
	100-249	1,728.0	6.8	2.0
	250-499	2,361.6	6.9	2.4
	500-999	2,079.2	9.2	4.5
	1000 and Over	1,488.5	7.5	2.3
	Total	1,631.4	6.7	2.1
<b>3315</b>	<b>Foundries</b>			
	<b>Employment Size</b>			
	Under 50	715.0	4.4	3.5
	50-99	566.6	6.3	3.4
	100-249	968.2	8.2	4.6
	250-499	963.5	8.1	4.5
	500-999	1,342.6	11.8	5.7
	1000 and Over	971.2	8.3	4.2
	Total	956.2	8.0	4.5
<b>331511</b>	<b>Iron Foundries</b>			
	<b>Employment Size</b>			
	Under 50	799.1	8.1	5.3
	50-99	653.8	6.7	4.0
	100-249	1,776.3	16.5	8.8
	250-499	1,269.4	9.7	5.3
	500-999	2,028.6	17.4	8.2
	1000 and Over	1,252.6	12.1	5.3
	Total	1,379.4	12.0	6.2
<b>331521</b>	<b>Aluminum Die-Casting Foundries</b>			
	<b>Employment Size</b>			
	Under 50	2,222.2	25.1	15.3
	50-99	844.8	9.1	5.0
	100-249	815.5	6.8	3.4
	250-499	982.2	8.8	4.2
	500-999	980.6	8.1	3.6
	1000 and Over	0.0	0.0	0.0
	Total	1,073.3	9.8	4.9
<b>331524</b>	<b>Aluminum Foundries, except Die-Casting</b>			

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
<b>Employment Size</b>				
Under 50	470.4	5.4	3.4	
50-99	333.9	5.1	2.8	
100-249	871.8	10.9	5.6	
250-499	749.7	7.9	4.0	
500-999	592.8	5.7	2.7	
1000 and Over	734.4	8.9	4.6	
Total	683.9	7.9	4.1	
332	<b>FABRICATED METAL PRODUCTS</b>			
<b>Employment Size</b>				
Under 50	242.4	2.6	1.5	
50-99	345.0	3.1	1.7	
100-249	335.4	2.5	1.3	
250-499	222.1	1.9	0.8	
500-999	327.7	2.1	1.1	
1000 and Over	6,126.2	10.4	2.7	
Total	302.5	2.6	1.3	
333	<b>MACHINERY</b>			
<b>Employment Size</b>				
Under 50	325.2	2.9	1.6	
50-99	103.2	0.7	0.4	
100-249	165.5	1.4	0.6	
250-499	149.6	0.8	0.4	
500-999	139.0	0.8	0.4	
1000 and Over	275.7	1.3	0.6	
Total	197.8	1.2	0.6	
334	<b>COMPUTER AND ELECTRONIC PRODUCTS</b>			
<b>Employment Size</b>				
Under 50	172.4	1.2	0.8	
50-99	126.8	1.0	0.6	
100-249	79.3	0.6	0.3	
250-499	124.9	0.6	0.3	
500-999	220.6	0.9	0.5	
1000 and Over	209.3	0.7	0.4	
Total	161.9	0.7	0.4	
334413	<b>Semiconductors and Related Devices</b>			
<b>Employment Size</b>				
Under 50	670.3	3.5	2.6	
50-99	393.6	2.1	1.3	
100-249	310.4	1.6	1.1	
250-499	553.4	0.5	0.4	
500-999	592.9	1.5	1.1	
1000 and Over	466.7	1.3	0.9	
Total	490.8	1.2	0.9	
335	<b>ELEC. EQUIP., APPLIANCES, COMPONENTS</b>			
<b>Employment Size</b>				

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
	Under 50	196.2	1.5	0.8
	50-99	210.2	1.7	0.9
	100-249	282.3	2.2	1.1
	250-499	297.7	2.3	1.1
	500-999	280.4	1.6	0.7
	1000 and Over	161.5	1.1	0.5
	Total	246.2	1.8	0.8

**336 TRANSPORTATION EQUIPMENT****Employment Size**

Under 50	206.4	1.8	0.8
50-99	138.3	1.3	0.6
100-249	172.2	1.4	0.6
250-499	201.1	1.5	0.7
500-999	644.0	5.4	1.8
1000 and Over	262.1	1.2	0.4
Total	285.8	1.7	0.6

**336111 Automobiles****Employment Size**

Under 50	316.5	1.1	0.4
50-99	279.5	2.3	0.6
100-249	247.7	1.5	0.8
250-499	158.9	1.4	0.5
500-999	424.0	3.4	1.6
1000 and Over	523.7	1.5	0.4
Total	512.4	1.5	0.4

**336112 Light Trucks and Utility Vehicles****Employment Size**

Under 50	100.4	0.3	0.1
50-99	0.0	0.0	0.0
100-249	0.0	0.0	0.0
250-499	0.0	0.0	0.0
500-999	486.3	-3.3	2.9
1000 and Over	506.3	1.3	0.3
Total	505.3	1.3	0.3

**3364 Aerospace Products****Employment Size**

Under 50	197.5	1.1	0.7
50-99	232.2	1.4	0.9
100-249	236.5	1.6	0.7
250-499	286.7	2.2	1.2
500-999	202.7	1.3	0.8
1000 and Over	132.1	0.7	0.3
Total	160.3	0.9	0.4

**336411 Aircraft****Employment Size**

Under 50	229.8	1.3	0.7
50-99	191.6	1.0	0.6

**Table 6.4 Consumption Ratios of Fuel, 2006;**

Level: National Data;

Row: Employment Sizes within NAICS Codes;

Column: Energy-Consumption Ratios;

Unit: Varles.

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)
100-249		84.0	0.8	0.4
250-499		153.2	1.5	0.5
500-999		107.3	0.9	0.6
1000 and Over		94.9	0.5	0.2
Total		97.5	0.6	0.2
<b>337</b>	<b>FURNITURE AND RELATED PRODUCTS</b>			
	<b>Employment Size</b>			
Under 50		120.6	1.5	0.9
50-99		58.7	0.5	0.2
100-249		60.6	0.5	0.3
250-499		117.1	1.3	0.7
500-999		160.9	2.0	1.1
1000 and Over		156.5	1.1	0.7
Total		110.7	1.1	0.6
<b>339</b>	<b>MISCELLANEOUS</b>			
	<b>Employment Size</b>			
Under 50		92.8	1.0	0.6
50-99		136.7	1.0	0.7
100-249		101.6	0.7	0.4
250-499		119.0 Q		0.3
500-999		210.8	0.7	0.6
1000 and Over		60.8	0.2	0.1
Total		110.6	0.6	0.4

(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, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 7.1 Average Price of Purchased Energy Sources, 2006**  
**Local Natural and Imported Gas;**  
**Res. MACC-Created, Column A8 Energy Sources Collected;**  
**1995-1997 Dollars per Standard Units.**

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**Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2006:**

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
<b>Total United States</b>										
311	Food	4,692	4,382	310	4,543	943	3,608	154	72	81
3112	Grain and Oilseed Milling	790	732	59	993	135	858	90	64	26
311221	Wet Corn Milling	297	283	14	432	62	370	26	W	W
31131	Sugar Manufacturing	54	49	5	149	37	113	20	0	20
3114	Fruit and Vegetable Preserving and Specialty Foods	656	625	31	742	151	592	9	2	8
3115	Dairy Products	728	665	63	559	110	450	5	Q	4
3116	Animal Slaughtering and Processing	1,114	1,052	62	931	202	736	Q	0	Q
312	Beverage and Tobacco Products	659	588	71	383	68	315	W	Q	W
3121	Beverages	594	524	71	354	64	290	W	Q	W
3122	Tobacco	65	65	0	28	4	24	0	0	0
313	Textile Mills	1,003	979	Q	575	Q	331	34	0	34
314	Textile Product Mills	341	317	24	Q	Q	150	0	0	0
315	Apparel	173	171	Q	68	12	56	0	0	0
316	Leather and Allied Products	36	30	6	14	2	11	*	0	*
321	Wood Products	1,720	1,676	44	633	179	454	32	3	28
321113	Sawmills	502	484	18	99	34	65	18	3	15
3212	Veneer, Plywood, and Engineered Woods	563	544	19	285	107	177	9	0	9
3219	Other Wood Products	622	615	7	231	31	201	4	0	4
322	Paper	3,962	3,672	290	3,990	697	3,306	195	56	139
322110	Pulp Mills	84	78	7	97	23	75	2	0	2
322121	Paper Mills, except Newsprint	1,268	1,078	190	1,382	292	1,090	74	15	59
322122	Newsprint Mills	372	370	2	69	*	69	13	9	4
322130	Paperboard Mills	1,122	1,086	36	1,132	245	901	97	30	67
323	Printing and Related Support	1,033	963	71	322	56	266	Q	0	Q
324	Petroleum and Coal Products	2,706	1,988	717	6,002	1,096	4,906	746	20	726
324110	Petroleum Refineries	2,419	1,737	683	5,618	931	4,687	744	20	724
324199	Other Petroleum and Coal Products	33	32	1	21	10	11	0	0	0
325	Chemicals	8,333	6,909	1,424	12,481	1,262	11,224	1,320	179	1,141
325110	Petrochemicals	315	187	128	606	W	W	0	W	W
325120	Industrial Gases	1,065	820	245	360	7	353	17	*	17
325181	Alkalies and Chlorine	382	355	26	766	2	764	21	0	21
325182	Carbon Black	44	44	0	126	56	70	0	0	0
325188	Other Basic Inorganic Chemicals	953	895	59	547	18	529	128	3	125
325192	Cyclic Crudes and Intermediates	190	172	19	117	38	79	W	W	24
325193	Ethyl Alcohol	117	115	2	665	120	545	8	0	8
325199	Other Basic Organic Chemicals	1,188	1,002	186	2,864	248	2,617	350	64	286
325211	Plastics Materials and Resins	1,144	775	369	2,053	144	1,908	244	14	231
325212	Synthetic Rubber	99	93	6	206	20	186	58	0	58
325222	Noncellulosic Organic Fibers	247	196	51	312	11	301	60	0	60
325311	Nitrogenous Fertilizers	137	128	9	2,078	267	1,811	13	0	13
325312	Phosphatic Fertilizers	103	95	9	150	5	145	0	0	0
3254	Pharmaceuticals and Medicines	691	539	151	479	107	372	47	26	22
325412	Pharmaceutical Preparation	469	370	100	326	99	227	40	26	14
325992	Photographic Film, Paper, Plate, and Chemicals	74	62	12	68	4	64	0	0	0
326	Plastics and Rubber Products	3,531	2,997	534	1,148	328	821	0	0	0
327	Nonmetallic Mineral Products	2,746	2,423	324	3,825	524	3,302	4	0	4
327211	Flat Glass	127	103	24	442	25	417	0	0	0
327212	Other Pressed and Blown Glass and Glassware	295	287	9	504	84	Q	0	0	0
327213	Glass Containers	233	186	47	415	58	357	0	0	0
327215	Glass Products from Purchased Glass	240	228	13	Q	21	Q	0	0	0
327310	Cements	750	659	92	116	21	94	0	0	0
327410	Lime	75	75	0	39	3	36	0	0	0
327420	Gypsum	130	88	43	639	79	561	4	0	4
327993	Mineral Wool	232	197	34	284	70	213	0	0	0
331	Primary Metals	5,761	5,073	688	5,265	1,325	4,001	98	33	65
331111	Iron and Steel Mills	2,313	2,055	258	3,065	804	2,301	63	7	56
331112	Electrometallurgical Ferroalloy Products	109	109	0	10	*	10	W	W	4
3312	Steel Products from Purchased Steel	267	248	19	239	67	172	*	*	0
3313	Alumina and Aluminum	1,402	1,187	215	963	242	740	11	7	3
331314	Secondary Smelting and Alloying of Aluminum	42	41	1	155	45	110	0	0	0
331315	Aluminum Sheet, Plate and Foils	173	160	13	322	89	234	8	7	*
331316	Aluminum Extruded Products	124	116	7	158	22	137	0	0	0
3314	Nonferrous Metals, except Aluminum	703	567	136	337	65	272	W	W	0
3315	Foundries	967	906	61	652	147	505	2	0	2

**Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2006:**

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
331511	Iron Foundries	477	439	38	220	61	159	2	0	2
331521	Aluminum Die-Casting Foundries	105	102	4	132	17	115	0	0	0
331524	Aluminum Foundries, except Die-Casting	73	71	2	128	20	107	0	0	0
332	Fabricated Metal Products	3,076	2,886	190	2,136	517	1,619	0	0	0
333	Machinery	2,310	1,963	Q	1,018	Q	534	9	9	0
334	Computer and Electronic Products	2,073	1,708	365	423	130	292	1	1	0
334413	Semiconductors and Related Devices	843	656	187	166	56	109	1	1	0
335	Electrical Equip., Appliances, and Components	838	814	24	394	69	324	W	0	W
336	Transportation Equipment	3,532	3,268	264	1,733	443	1,290	19	2	Q
336111	Automobiles	212	185	27	167	60	107	2	2	0
336112	Light Trucks and Utility Vehicles	228	W	W	218	103	115	*	0	*
3364	Aerospace Product and Parts	867	760	107	291	59	232	0	0	0
336411	Aircraft	216	203	14	82	5	78	0	0	*
337	Furniture and Related Products	650	629	21	173	68	105	Q	Q	*
339	Miscellaneous	844	746	98	244	61	182	0	0	0
	Total	50,019	44,183	5,836	45,799	8,792	37,095	2,646	381	2,266

**Northeast Census Region**

311	Food	490	375	115	334	67	267	2	0	2
3112	Grain and Oilseed Milling	42	23	Q	19	0	19	0	0	0
311221	Wet Corn Milling	1	1	0	0	0	0	0	0	0
31131	Sugar Manufacturing	1	1	0	26	26	*	*	0	*
3114	Fruit and Vegetable Preserving and Specialty Foods	65	53	13	29	Q	28	1	0	1
3115	Dairy Products	114	87	27	75	11	64	0	0	0
3116	Animal Slaughtering and Processing	51	43	Q	20	Q	18	0	0	0
312	Beverage and Tobacco Products	113	91	22	59	4	55	3	0	3
3121	Beverages	111	89	22	57	3	54	3	0	3
3122	Tobacco	2	2	0	2	1	1	0	0	0
313	Textile Mills	113	102	Q	80	Q	25	0	0	0
314	Textile Product Mills	23	17	Q	14	Q	12	0	0	0
315	Apparel	16	16	*	Q	Q	0	0	0	0
316	Leather and Allied Products	18	12	6	5	2	3	0	0	0
321	Wood Products	162	144	17	60	3	56	0	0	0
321113	Sawmills	51	42	9	Q	2	Q	0	0	0
3212	Veneer, Plywood, and Engineered Woods	40	35	5	32	0	32	0	0	0
3219	Other Wood Products	68	65	Q	19	1	17	0	0	0
322	Paper	588	370	219	613	59	554	85	8	76
322110	Pulp Mills	W	W	0	W	W	0	0	0	0
322121	Paper Mills, except Newsprint	291	117	175	356	10	346	56	3	52
322122	Newsprint Mills	13	13	0	0	0	0	0	0	0
322130	Paperboard Mills	68	53	15	92	42	50	25	5	20
323	Printing and Related Support	198	197	Q	61	10	51	Q	0	Q
324	Petroleum and Coal Products	318	233	85	375	87	289	8	0	8
324110	Petroleum Refineries	226	W	W	302	75	226	7	0	7
324199	Other Petroleum and Coal Products	17	17	0	4	3	2	0	0	0
325	Chemicals	779	519	259	679	149	530	94	16	78
325110	Petrochemicals	2	2	0	2	*	2	0	0	0
325120	Industrial Gases	100	48	52	14	1	13	11	0	11
325181	Alkalies and Chlorine	35	35	0	5	*	5	19	0	19
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	37	23	14	28	Q	28	1	1	0
325192	Cyclic Crudes and Intermediates	8	W	W	36	W	W	3	0	3
325193	Ethyl Alcohol	*	*	0	*	0	*	0	0	0
325199	Other Basic Organic Chemicals	49	35	14	49	5	45	11	0	11
325211	Plastics Materials and Resins	86	57	29	76	15	61	13	3	10
325212	Synthetic Rubber	5	5	*	1	*	*	2	0	2
325222	Noncellulosic Organic Fibers	5	3	2	1	0	1	0	0	0
325231	Nitrogenous Fertilizers	7	6	1	14	10	3	0	0	0
325232	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	279	191	88	269	70	199	32	13	19
325412	Pharmaceutical Preparation	192	136	56	214	68	145	26	13	13
325992	Photographic Film, Paper, Plate, and Chemicals	28	17	10	36	*	35	0	0	0
326	Plastics and Rubber Products	601	344	257	214	8	206	0	0	0
327	Nonmetallic Mineral Products	409	309	100	579	120	459	0	0	0
327211	Flat Glass	20	17	4	84	0	84	0	0	0

**Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2006;**

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
327212	Other Pressed and Blown Glass and Glassware	31	22	9	48	1	47	0	0	0
327213	Glass Containers	59	40	19	91	37	54	0	0	0
327215	Glass Products from Purchased Glass	33	30	4	12	8	3	0	0	0
327310	Cements	90	75	15	4	*	3	0	0	0
327410	Lime	5	5	0	0	0	0	0	0	0
327420	Gypsum	20	8	12	94	W	W	0	0	0
327993	Mineral Wool	25	19	7	56	*	56	0	0	0
331	Primary Metals	837	725	111	815	97	737	3	0	3
331111	Iron and Steel Mills	389	341	49	490	35	455	3	0	3
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	42	38	4	63	4	59	0	0	0
3313	Alumina and Aluminum	154	146	8	127	47	99	*	0	*
331314	Secondary Smelting and Alloying of Aluminum	4	4	*	3	*	3	0	0	0
331315	Aluminum Sheet, Plate and Foils	34	32	2	56	*	56	*	0	*
331316	Aluminum Extruded Products	17	12	5	41	2	39	0	0	0
3314	Nonferrous Metals, except Aluminum	169	129	40	73	5	68	0	0	0
3315	Foundries	83	72	11	63	6	56	0	0	0
331511	Iron Foundries	35	31	5	20	*	19	0	0	0
331521	Aluminum Die-Casting Foundries	6	5	1	16	*	16	0	0	0
331524	Aluminum Foundries, except Die-Casting	10	10	*	8	2	6	0	0	0
332	Fabricated Metal Products	463	427	Q	290	22	268	0	0	0
333	Machinery	544	310	Q	Q	11	Q	0	0	0
334	Computer and Electronic Products	510	362	147	106	29	78	1	1	0
334413	Semiconductors and Related Devices	191	126	65	47	9	38	1	1	0
335	Electrical Equip., Appliances, and Components	147	140	Q	38	5	33	0	0	0
336	Transportation Equipment	536	Q	61	Q	37	Q	Q	0	Q
336111	Automobiles	*	*	0	*	*	*	0	0	0
336112	Light Trucks and Utility Vehicles	*	*	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	106	90	16	47	28	19	0	0	0
336411	Aircraft	18	17	1	*	*	0	0	0	0
337	Furniture and Related Products	61	53	Q	22	Q	11	0	0	0
339	Miscellaneous	277	227	Q	78	26	52	0	0	0
	Total	7,202	5,450	1,752	4,910	805	4,125	204	25	180

**Midwest Census Region**

311	Food	1,633	1,550	83	1,887	275	1,619	110	62	48
31112	Grain and Oilseed Milling	528	493	35	736	67	669	83	61	22
311221	Wet Corn Milling	255	241	14	384	W	W	22	W	W
31131	Sugar Manufacturing	28	28	0	44	0	44	2	0	2
3114	Fruit and Vegetable Preserving and Specialty Foods	169	165	4	183	11	172	0	0	0
3115	Dairy Products	222	217	5	232	56	176	4	Q	Q
3116	Animal Slaughtering and Processing	371	341	Q	402	78	330	Q	0	Q
312	Beverage and Tobacco Products	87	85	3	68	15	54	Q	Q	0
3121	Beverages	86	84	3	68	15	53	Q	Q	0
3122	Tobacco	1	1	0	1	0	1	0	0	0
313	Textile Mills	Q	Q	0	Q	Q	Q	0	0	0
314	Textile Product Mills	Q	Q	*	3	2	*	0	0	0
315	Apparel	4	4	0	2	Q	*	0	0	0
316	Leather and Allied Products	8	7	*	6	*	6	*	0	*
321	Wood Products	410	410	*	238	38	200	4	0	4
321113	Sawmills	26	26	*	5	4	2	0	0	0
3212	Veneer, Plywood, and Engineered Woods	69	69	0	50	23	27	0	0	0
3219	Other Wood Products	311	310	*	Q	11	Q	4	0	4
322	Paper	744	732	11	652	108	556	54	25	29
322110	Pulp Mills	7	7	0	3	2	1	2	0	2
322121	Paper Mills, except Newsprint	330	322	8	297	56	241	7	5	2
322122	Newsprint Mills	23	23	0	*	*	*	9	9	0
322130	Paperboard Mills	117	117	0	108	3	117	31	8	22
323	Printing and Related Support	370	361	Q	128	19	110	0	0	0
324	Petroleum and Coal Products	410	363	48	921	294	627	35	13	22
324110	Petroleum Refineries	340	W	W	742	189	553	35	13	22
324199	Other Petroleum and Coal Products	3	3	0	3	1	2	0	0	0
325	Chemicals	1,965	1,788	177	1,835	266	1,573	186	28	158
325110	Petrochemicals	W	W	0	W	0	W	0	0	0
325120	Industrial Gases	316	303	12	38	Q	34	0	0	0

**Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2006:**

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
325181	Alkalies and Chlorine	10	10	0	2	*	2	0	0	0
325182	Carbon Black	3	3	0	14	12	2	0	0	0
325188	Other Basic Inorganic Chemicals	68	63	5	95	5	91	10	0	10
325192	Cyclic Crudes and Intermediates	8	8	0	6	0	6	W	0	W
325193	Ethyl Alcohol	111	110	2	639	120	518	0	0	0
325199	Other Basic Organic Chemicals	187	151	36	189	41	148	32	2	30
325211	Plastics Materials and Resins	183	W	W	158	9	149	30	7	22
325212	Synthetic Rubber	12	12	0	9	1	8	0	0	0
325222	Noncellulosic Organic Fibers	*	*	0	1	0	1	0	0	0
325311	Nitrogenous Fertilizers	21	13	8	274	3	270	13	0	13
325312	Phosphatic Fertilizers	*	*	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	140	128	12	88	13	75	14	13	1
325412	Pharmaceutical Preparation	106	100	6	46	8	38	14	13	1
325992	Photographic Film, Paper, Plate, and Chemicals	9	9	*	2	*	2	0	0	0
326	Plastics and Rubber Products	1,361	1,257	Q	431	166	265	0	0	0
327	Nonmetallic Mineral Products	725	690	35	1,038	83	956	0	0	0
327211	Flat Glass	40	40	0	143	*	142	0	0	0
327212	Other Pressed and Blown Glass and Glassware	Q	Q	0	Q	4	Q	0	0	0
327213	Glass Containers	43	25	17	95	6	89	0	0	0
327215	Glass Products from Purchased Glass	101	93	7	25	4	23	0	0	0
327310	Cements	147	143	3	36	Q	31	0	0	0
327410	Lime	24	24	0	15	1	14	0	0	0
327420	Gypsum	22	19	3	118	W	W	0	0	0
327993	Mineral Wool	77	77	*	110	28	81	0	0	0
331	Primary Metals	2,046	1,808	238	2,641	879	1,804	85	27	59
331111	Iron and Steel Mills	843	770	73	1,773	701	1,112	54	1	53
331112	Electrometallurgical Ferroalloy Products	78	78	0	8	*	8	W	W	4
3312	Steel Products from Purchased Steel	114	106	9	126	50	77	0	0	0
3313	Alumina and Aluminum	239	W	W	229	37	192	7	7	0
331314	Secondary Smelting and Alloying of Aluminum	15	15	1	83	24	59	0	0	0
331315	Aluminum Sheet, Plate and Foils	50	48	2	86	6	80	7	7	0
331316	Aluminum Extruded Products	42	42	*	44	7	38	0	0	0
3314	Nonferrous Metals, except Aluminum	223	W	W	114	40	73	W	W	0
3315	Foundries	549	534	15	391	50	341	2	0	2
331511	Iron Foundries	288	286	Q	129	21	108	2	0	2
331521	Aluminum Die-Casting Foundries	74	72	2	90	9	81	0	0	0
331524	Aluminum Foundries, except Die-Casting	39	38	1	87	8	79	0	0	0
332	Fabricated Metal Products	1,198	1,132	Q	1,048	268	780	0	0	0
333	Machinery	1,111	1,068	43	619	Q	278	9	9	0
334	Computer and Electronic Products	237	237	0	84	Q	58	0	0	0
334413	Semiconductors and Related Devices	32	32	0	5	*	5	0	0	0
335	Electrical Equip., Appliances, and Components	259	245	Q	110	36	74	0	0	0
336	Transportation Equipment	1,641	1,577	64	881	238	643	Q	2	Q
336111	Automobiles	126	100	26	113	40	73	2	2	0
336112	Light Trucks and Utility Vehicles	119	111	8	140	63	77	*	0	*
3364	Aerospace Product and Parts	115	114	1	57	9	48	0	0	0
336411	Aircraft	36	36	0	24	*	24	0	0	0
337	Furniture and Related Products	190	178	Q	99	30	69	*	0	*
339	Miscellaneous	189	176	Q	68	11	57	0	0	0
	Total	14,610	13,686	924	12,765	3,098	9,732	497	168	329

**South Census Region**

311	Food	1,533	1,469	64	1,336	346	990	10	10	0
3112	Grain and Oilseed Milling	175	169	6	188	62	127	3	3	0
311221	Wet Corn Milling	41	41	0	41	W	W	0	0	0
31131	Sugar Manufacturing	15	10	5	63	1	62	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	166	158	8	172	48	125	2	2	0
3115	Dairy Products	102	102	0	50	22	28	0	0	0
3116	Animal Slaughtering and Processing	544	519	25	383	53	330	0	0	0
312	Beverage and Tobacco Products	273	249	24	172	37	135	0	0	0
3121	Beverages	212	187	24	146	33	113	0	0	0
3122	Tobacco	62	62	0	26	4	22	0	0	0
313	Textile Mills	869	856	Q	477	Q	302	34	0	34
314	Textile Product Mills	293	279	Q	Q	Q	131	0	0	0
315	Apparel	131	130	Q	58	9	49	0	0	0

**Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2006;**

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
316	Leather and Allied Products	8	8	0	2	0	2	0	0	0
321	Wood Products	795	786	9	191	80	111	13	3	9
321113	Sawmills	260	256	4	17	5	12	11	3	8
3212	Veneer, Plywood, and Engineered Woods	350	345	4	148	63	85	1	0	1
3219	Other Wood Products	167	166	Q	18	8	10	0	0	0
322	Paper	1,881	1,835	47	2,107	368	1,739	44	14	30
322110	Pulp Mills	65	65	0	81	W	W	0	0	0
322121	Paper Mills, except Newsprint	483	476	7	543	161	381	1	0	1
322122	Newsprint Mills	172	170	2	2	0	2	4	0	4
322130	Paperboard Mills	667	652	15	652	136	517	38	14	25
323	Printing and Related Support	360	299	Q	114	23	91	0	0	0
324	Petroleum and Coal Products	1,469	1,009	459	3,274	486	2,788	551	7	544
324110	Petroleum Refineries	1,391	951	440	3,204	467	2,737	550	7	542
324199	Other Petroleum and Coal Products	12	11	1	10	4	7	0	0	0
325	Chemicals	5,052	4,148	904	9,586	811	8,776	1,019	135	884
325110	Petrochemicals	W	W	128	W	W	502	W	0	W
325120	Industrial Gases	523	356	167	299	*	299	6	*	6
325181	Alkalies and Chlorine	277	276	1	672	2	669	0	0	0
325182	Carbon Black	41	41	0	112	44	68	0	0	0
325188	Other Basic Inorganic Chemicals	745	709	36	306	7	299	115	2	113
325192	Cyclic Crudes and Intermediates	174	W	W	73	W	W	54	W	W
325193	Ethyl Alcohol	2	2	*	15	*	15	0	0	0
325199	Other Basic Organic Chemicals	933	804	129	2,613	194	2,420	298	62	235
325211	Plastics Materials and Resins	852	551	302	1,809	120	1,689	202	4	198
325212	Synthetic Rubber	80	74	6	197	18	179	56	0	56
325222	Noncellulosic Organic Fibers	242	192	49	310	11	298	60	0	60
325311	Nitrogenous Fertilizers	95	94	1	1,746	254	1,493	*	0	*
325312	Phosphatic Fertilizers	86	77	9	W	*	W	0	0	0
3254	Pharmaceuticals and Medicines	162	141	22	83	20	63	2	0	2
325412	Pharmaceutical Preparation	107	91	16	40	20	20	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	17	15	Q	11	3	8	0	0	0
326	Plastics and Rubber Products	1,207	1,055	152	461	135	326	0	0	0
327	Nonmetallic Mineral Products	1,101	1,036	65	1,792	239	1,553	0	0	0
327211	Flat Glass	45	W	W	173	W	W	0	0	0
327212	Other Pressed and Blown Glass and Glassware	85	85	0	135	78	57	0	0	0
327213	Glass Containers	76	64	11	140	15	125	0	0	0
327215	Glass Products from Purchased Glass	81	80	Q	Q	8	Q	0	0	0
327310	Cements	302	302	0	49	16	32	0	0	0
327410	Lime	35	35	0	21	2	19	0	0	0
327420	Gypsum	56	42	13	296	33	263	0	0	0
327993	Mineral Wool	78	78	0	87	32	56	0	0	0
331	Primary Metals	2,319	2,159	160	1,460	320	1,140	3	*	3
331111	Iron and Steel Mills	897	827	70	659	67	592	0	0	0
331112	Electrometallurgical Ferroalloy Products	31	31	0	1	0	1	0	0	0
3312	Steel Products from Purchased Steel	92	90	Q	44	12	32	*	*	0
3313	Alumina and Aluminum	881	W	W	545	153	392	3	0	3
331314	Secondary Smelting and Alloying of Aluminum	17	17	*	56	20	36	0	0	0
331315	Aluminum Sheet, Plate and Foils	75	65	9	166	82	83	0	0	0
331316	Aluminum Extruded Products	45	43	2	51	10	41	0	0	0
3314	Nonferrous Metals, except Aluminum	153	W	W	63	15	48	0	0	0
3315	Foundries	265	231	35	149	73	76	0	0	0
331511	Iron Foundries	144	113	31	62	38	24	0	0	0
331521	Aluminum Die-Casting Foundries	21	20	1	23	6	17	0	0	0
331524	Aluminum Foundries, except Die-Casting	17	16	1	28	8	19	0	0	0
332	Fabricated Metal Products	974	951	Q	640	175	465	0	0	0
333	Machinery	509	497	Q	227	121	106	0	0	0
334	Computer and Electronic Products	565	426	139	79	15	64	0	0	0
334413	Semiconductors and Related Devices	230	116	114	32	7	25	0	0	0
335	Electrical Equip., Appliances, and Components	373	370	Q	227	27	200	0	0	0
336	Transportation Equipment	925	858	68	361	140	221	0	0	0
336111	Automobiles	W	W	0	W	20	W	0	0	0
336112	Light Trucks and Utility Vehicles	109	W	W	78	39	38	0	0	0
3364	Aerospace Product and Parts	305	286	19	80	10	70	0	0	0
336411	Aircraft	101	101	0	32	2	31	0	0	0
337	Furniture and Related Products	334	333	Q	46	25	20	Q	Q	0
339	Miscellaneous	185	170	Q	83	Q	61	0	0	0
	Total	21,156	18,921	2,235	23,097	3,828	19,269	1,676	173	1,504

Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2006;

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
West Census Region										
311	Food	1,036	988	47	986	255	732	31	0	31
3112	Grain and Oilseed Milling	47	47	0	49	6	43	4	0	4
311221	Wet Corn Milling	1	1	0	7	1	6	4	0	4
31131	Sugar Manufacturing	11	11	0	17	10	7	19	0	19
3114	Fruit and Vegetable Preserving and Specialty Foods	256	249	Q	356	91	266	6	0	6
3115	Dairy Products	291	259	32	203	22	181	1	0	1
3116	Animal Slaughtering and Processing	149	149	0	127	Q	58	1	0	1
312	Beverage and Tobacco Products	185	163	22	84	12	71	W	0	W
3121	Beverages	185	163	22	84	12	71	W	0	W
3122	Tobacco	0	0	0	0	0	0	0	0	0
313	Textile Mills	Q	Q	Q	Q	Q	*	0	0	0
314	Textile Product Mills	12	8	Q	10	4	Q	0	0	0
315	Apparel	21	21	0	1	*	1	0	0	0
316	Leather and Allied Products	3	3	*	1	*	*	0	0	0
321	Wood Products	353	336	17	144	58	87	15	0	15
321113	Sawmills	165	160	5	68	23	Q	7	0	7
3212	Veneer, Plywood, and Engineered Woods	104	95	9	54	22	33	8	0	8
3219	Other Wood Products	76	73	Q	17	11	6	Q	0	Q
322	Paper	749	736	13	619	162	458	13	9	3
322110	Pulp Mills	W	W	7	W	4	W	0	0	0
322121	Paper Mills, except Newsprint	163	163	*	186	64	122	10	6	3
322122	Newsprint Mills	164	164	0	67	0	67	0	0	0
322130	Paperboard Mills	270	264	6	280	64	217	3	3	0
323	Printing and Related Support	105	105	0	18	4	Q	0	0	0
324	Petroleum and Coal Products	509	383	125	1,432	229	1,203	152	0	152
324110	Petroleum Refineries	463	338	125	1,370	200	1,170	152	0	152
324199	Other Petroleum and Coal Products	1	1	0	3	3	1	0	0	0
325	Chemicals	537	454	83	381	37	345	21	0	21
325110	Petrochemicals	*	*	0	*	0	*	0	0	0
325120	Industrial Gases	126	111	14	9	2	7	0	0	0
325181	Alkalies and Chlorine	59	34	25	88	0	88	2	0	2
325182	Carbon Black	*	*	0	*	0	*	0	0	0
325188	Other Basic Inorganic Chemicals	103	99	5	118	6	112	2	0	2
325192	Cyclic Crudes and Intermediates	1	1	0	1	*	2	0	0	0
325193	Ethyl Alcohol	4	4	0	11	0	11	8	0	8
325199	Other Basic Organic Chemicals	18	12	6	13	9	4	10	0	10
325211	Plastics Materials and Resins	23	W	W	10	*	10	0	0	0
325212	Synthetic Rubber	3	3	0	*	*	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	15	15	0	44	*	44	0	0	0
325312	Phosphatic Fertilizers	18	18	0	W	5	W	0	0	0
3254	Pharmaceuticals and Medicines	108	79	30	38	5	34	0	0	0
325412	Pharmaceutical Preparation	65	43	22	26	2	24	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	21	21	0	19	1	18	0	0	0
326	Plastics and Rubber Products	362	341	Q	42	19	23	0	0	0
327	Nonmetallic Mineral Products	510	387	123	416	81	335	4	0	4
327211	Flat Glass	21	W	W	42	W	W	0	0	0
327212	Other Pressed and Blown Glass and Glassware	8	8	0	9	*	9	0	0	0
327213	Glass Containers	56	56	0	88	0	88	0	0	0
327215	Glass Products from Purchased Glass	26	25	1	3	1	2	0	0	0
327310	Cements	211	138	74	27	*	27	0	0	0
327410	Lime	12	12	0	3	*	3	0	0	0
327420	Gypsum	33	18	14	131	20	111	4	0	4
327993	Mineral Wool	51	24	27	31	10	21	0	0	0
331	Primary Metals	560	381	178	349	30	319	6	6	0
331111	Iron and Steel Mills	183	117	66	142	*	142	6	6	0
331112	Electrometallurgical Ferroalloy Products	*	*	0	*	0	*	0	0	0
3312	Steel Products from Purchased Steel	19	15	4	6	Q	5	0	0	0
3313	Alumina and Aluminum	128	62	66	62	5	57	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	5	5	*	13	1	12	0	0	0
331315	Aluminum Sheet, Plate and Foils	15	15	*	15	0	15	0	0	0
331316	Aluminum Extruded Products	19	19	0	22	4	19	0	0	0
3314	Nonferrous Metals, except Aluminum	159	117	41	88	5	83	0	0	0

**Table 7.10 Expenditures for Purchased Electricity, Natural Gas, and Steam, 2006;**

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Million U.S. Dollars.

NAICS Code(a)	Subsector and Industry	Electricity Total	Electricity Components		Natural Gas Total	Natural Gas Components		Steam Components		
			Electricity from Local Utility(b)	Electricity from Sources Other than Local Utility(c)		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)
3315	Foundries	70	70	*	50	18	32	0	0	0
331511	Iron Foundries	10	10	*	9	1	8	0	0	0
331521	Aluminum Die-Casting Foundries	5	5	0	3	2	2	0	0	0
331524	Aluminum Foundries, except Die-Casting	7	7	0	5	1	4	0	0	0
332	Fabricated Metal Products	440	377	Q	157	52	105	0	0	0
333	Machinery	145	88	Q	19	11	Q	0	0	0
334	Computer and Electronic Products	762	683	79	153	61	92	0	0	0
334413	Semiconductors and Related Devices	389	382	8	81	40	41	0	0	0
335	Electrical Equip., Appliances, and Components	60	60	0	Q	1	Q	W	0	W
336	Transportation Equipment	430	358	72	162	28	134	0	0	0
336111	Automobiles	W	W	1	W	*	W	0	0	0
336112	Light Trucks and Utility Vehicles	*	*	0	*	*	*	0	0	0
3364	Aerospace Product and Parts	341	271	71	107	11	95	0	0	0
336411	Aircraft	61	48	13	26	3	23	0	0	0
337	Furniture and Related Products	65	65	0	6	Q	Q	0	0	0
339	Miscellaneous	192	173	Q	14	2	13	0	0	0
	Total	7,050	6,125	925	5,027	1,061	3,969	269	16	253

(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, '2006 Manufacturing Energy Consumption Survey.'

Table 7.3  
U.S. Energy Consumption by Sector, 2006  
Level National and Regional Data  
Source: U.S. Energy Information Agency, Energy Source Collected  
Unit: U.S. Dollars per Billion Btu

Sector Order	Subsector and Industry	Coal Consumption			Oil			Natural Gas Consumption			Nuclear Consumption			Wind and Other Renewable			
		Total	Anthracite	Bituminous	Residual	Crude	Refined	Gasoline	Distillate	Residual	Refined	Gasoline	Distillate	Wind	Hydro	Geothermal	
<b>Total United States</b>																	
211	Fuel	0.27	166.2	0	1.02	4.82	1.05	40.4	0	16.78	14.85	24.19	17.17	17.27	13.0	70	0
211221	Crude Oil Refining and Processing	6.3	155.38	0	1.9	W	1.94	0	0	15.16	14.92	16.81	16.91	17.22	15.1	7.76	0
211222	Gasoline Production	5.0	142.0	0	0	W	1.25	0	0	15.16	14.92	16.81	16.91	17.22	15.1	7.76	0
211223	Sugar Manufacturing	5.7	119.21	0	1.87	W	1.88	0	10.4	17.26	16.28	41.71	13.83	16.46	12.4	9.56	0
211224	Food, Beverage, and Personal Care Products	10.69	225.5	0	5.58	0	0	0	21.17	20.71	27.47	15.82	16.4	Q	8.18	0	0
211225	Dairy Products	9.84	154.7	0	4.82	0	0	0	19.98	19.53	20.03	17.03	17.61	16.3	10.1	0	0
212	Beverage and Tobacco Products	11.63	173.24	0	3.39	0	0	0	21.38	21.6	22.48	15.29	16.25	12.6	8.6	0	0
2121	Alcohol	10.08	157.0	0	3.05	0	0	0	21.38	21.6	22.48	15.29	16.25	12.6	8.6	0	0
2122	Tobacco Mills	10.08	0	0	3.62	0	0	0	15.23	15.17	Q	16.44	0	Q	8.42	0	0
2123	Leather and Allied Products	16.7	0	0	0	0	0	0	25.16	25.26	Q	14.46	Q	13.91	Q	0	0
2124	Wood Products	13.93	145.58	0	2.2	0	0	0	18.37	20.55	21.65	16.75	16.5	16.3	0	0	0
2125	Household, Personal, and Engineered Woods	8.18	123.65	0	4.02	0	0	0	16.07	16.61	16.5	16.22	16.24	16.2	7.39	0	0
2126	Plastic, Rubber, and Metal Products	14.47	154.7	0	2.02	0	0	0	17.04	17.2	17.2	17.04	17.2	17.2	17.04	0	0
221	Pulp Mills	5.79	154.0	0	2.02	0	0	0	16.98	16.48	15.8	15.44	15.22	15.5	8.85	0	0
2211	Paper Mills, except Newsprint	5.79	154.0	0	2.02	0	0	0	16.98	16.48	15.8	15.44	15.22	15.5	8.85	0	0
2212	Newsprint Mills	7.42	102.96	0	0	0	0	0	11.73	11.7	20.38	16.22	16.22	8.57	0	0	0
2213	Printing and Related Support	10.65	Q	0	0	0	0	0	23.31	23.11	Q	Q	Q	Q	0	0	0
2214	Petroleum Refinery and Coal Products	8.15	12.9	3.11	0	0	0	0	17.54	16.4	21.3	17.04	17.2	17.04	17.04	0	0
222	Chemicals	44.44	48.74	0	2.7	0	0	0	15.99	15.15	18.1	13.34	14.66	11.96	7.57	0	0
2221	Industrial Chemicals	30.85	30.85	0	0	0	0	0	15.99	15.15	18.1	13.34	14.66	11.96	7.57	0	0
2222	Pharmaceuticals and Cosmetics	7.69	130.61	0	2.2	0	0	0	12.08	12.08	15.5	15.5	15.5	15.5	15.5	0	0
2223	Other Basic Inorganic Chemicals	9.25	87.98	0	1.77	0	0	0	11.6	11.6	12.46	8.26	8.76	7.76	0	0	0
2224	Other Organic Chemicals	1.47	10.7	0	0	0	0	0	10.21	10.65	22.35	17.33	17.33	17.33	17.33	0	0
2225	Plastic, Rubber, and Metal Products	7.58	109.7	0	2.42	0	0	0	12.65	12.65	13.29	15.17	15.17	12.74	0	0	0
2226	Leather and Allied Products	11.27	138.72	0	2.76	0	0	0	16.09	17.02	17.02	16.5	16.5	16.5	10.16	0	0
2227	Petroleum, Rubber, and Metal Products	9.13	88.9	0	2.02	0	0	0	15.98	15.98	15.98	15.12	14.96	15.12	9.15	0	0
2228	Nonmetallic Mineral Products	9.14	47.63	0	4.05	0	0	0	14.44	14.44	14.44	13.33	13.33	13.33	8.01	0	0
2229	Plastic, Rubber, and Metal Products	8.05	8.05	0	3.67	0	0	0	16.5	16.5	16.5	16.5	16.5	16.5	16.5	0	0
223	Pharmaceuticals	7.15	147.41	0	3.62	0	0	0	20.55	19.8	21.26	15.4	15.7	8.76	0	0	0
2231	Metals, Minerals, and Ores	7.02	191.45	0	2.57	4.02	0	0	17.8	18.35	18.35	16.72	15.61	8.4	0	0	0
2232	Nonmetallic Mineral Products	10.25	245.66	0	0	0	0	0	16.9	16.65	17.26	16.1	16.1	16.1	16.1	0	0
2233	Other Metal Product Manufacturing	10.25	245.66	0	0	0	0	0	16.9	16.65	17.26	16.1	16.1	16.1	16.1	0	0
2234	Aluminum Smelting	9.77	58.32	0	0	0	0	0	13.13	13.28	13.28	11.6	14.02	11.6	10.0	0	0
2235	Nonferrous Metal, except Aluminum	7.78	134.04	0	2.34	0	0	0	16.25	16.25	16.25	16.25	16.25	16.25	16.25	0	0
2236	Nonferrous Metal, except Aluminum	13.18	134.04	0	2.34	0	0	0	16.25	16.25	16.25	16.25	16.25	16.25	16.25	0	0
2237	Aluminum Die-Casting Foundries	10.25	245.66	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2238	Aluminum Extrusion Foundries	13.67	143.42	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2239	Aluminum Melting	16.09	143.42	0	0	0	0	0	22.17	21.98	26.5	14.36	14.36	9.16	0	0	0
224	Computer and Electronic Products	16.09	142.1	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2241	Electrical Equipment, Appliance, and Components	10.27	0	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2242	Plastics and Rubber Products	11.88	118.0	0	3.65	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2243	Automobiles and Utility Vehicles	11.83	63.45	0	0	0	0	0	15.97	15.97	15.97	15.97	15.97	15.97	15.97	0	0
2244	Plastic and Rubber Products	15.36	84.75	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2245	Aerosols	15.03	143.32	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2246	Other Basic Organic Chemicals	8.86	134.59	0	1.49	1.01	0	0	20.55	20.29	20.29	16.21	16.21	16.21	16.21	0	0
2247	Microelectronics	9.45	2.61	3.9	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2248	Metals	11.28	2.61	3.9	0	0	0	0	22.37	21.21	21.21	16.5	16.5	16.5	16.5	0	0
<b>North Central Region</b>																	
211	Fuel	10.26	105.84	0	0	0	0	0	20.37	21.7	21.7	16.1	17.3	17.3	9.41	0	0
211221	Crude Oil Refining and Processing	17.12	0	0	0	0	0	0	20.37	21.7	21.7	16.1	17.3	17.3	9.41	0	0
211222	Sugar Manufacturing	10.4	0	0	0	0	0	0	17.19	17.19	17.19	17.19	17.19	17.19	17.19	0	0
211223	Food, Beverage, and Personal Care Products	10.65	205.53	0	0	0	0	0	27.28	26.76	26.76	25.1	25.1	14.93	14.93	0	0
212	Beverage and Tobacco Products	238.45	0	0	0	0	0	0	29.88	30.05	29.88	12.6	12.6	9.6	9.6	0	0
2121	Tobacco	11.07	308.14	0	0	0	0	0	26.44	26.44	0	17.11	17.11	9.16	9.16	0	0
2122	Paper Mills	11.02	0	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2123	Textile Product Mills	11.02	0	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2124	Leather and Allied Products	11.02	0	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2125	Wood Products	11.02	0	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2126	Plastic, Rubber, and Metal Products	11.02	0	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2127	Paper, Mills, except Newsprint	10.47	0	3.12	0	0	0	0	20.57	W	W	W	W	W	W	0	0
2128	Wood Products	11.02	0	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2129	Plastic, Rubber, and Metal Products	11.02	0	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
213	Chemicals	13.16	159.35	0	0	0	0	0	26.67	27.14	13.19	13.26	8.59	8.59	0	0	0
213135	Industrial Chemicals	11.62	300.75	0	0	0	0	0	20.35	20.35	16.02	16.02	16.02	16.02	0	0	0
2132	Crude Oil Refining	11.02	0	0	0	0	0	0	16.02	15.78	15.78	15.78	15.78	15.78	15.78	0	0
2133	Carbon Black	11.02	0	0	0	0	0	0	13.79	13.8	20.25	19.25	9.61	7.4	0	0	0
2134	Other Basic Inorganic Chemicals	8.4	10.9	0	0	0	0	0	13.01	W	W	W	W	W	W	0	0
2135	Other Organic Chemicals	26.78	0	0	0	0	0	0	20.73	21.14	20.86	12.51	12.66	12.42	12.42	0	0
2136	Other Basic Organic Chemicals	17.81	412.0	0	0	0	0	0	23.25	2							

**Table 7.2 Average Prices of Purchased Energy Sources, 2006**  
**Level: National and Regional Data;**  
**Row: NAICS Codes; Column: All Energy Sources Col.**  
**Unit: U.S. Dollars per million Btu.**

Table 7.3  
Total and Regional Energy Sources, 2006  
Local Natural and Regional Total  
U.S. Dollars per Billion Btu

Source Order	Subsector and Industry	Coal Components		Oil Components		Natural Gas Components		Steam Components		Balanced - Wind and Other Sources Components	
		Total	Anthracite	Total	Antimatter	Total	District Heat from Station and Local Utility	District Heat from Local Utility	Total	Wood	Wind
		Bituminous and Sub-bituminous Coal	Lignite Coal	Crude Petroleum Oil	Refined Petroleum Oil	Butane Gas	Coke Oven Gas	Motor Gasoline and Highway Liquids	Hydrogen	Kerosene	Piping Liquid LNG and NGL
237	Furniture and Related Products	29.07	0	0	0	0	0	0	0	24.59	10.02
239	Manufactures	23.23	0	5.5	1.98	8.43	1.02	6.07	5.74	22.37	11.23
	Total	9.59	155.05	5.5	1.98	8.43	1.02	6.07	5.74	9.34	7.22

(a) The Bureau of the Census classifies establishments using the North American

Industry Classification System (NAICS).

(b) The term "Local Utility" refers to a company that either delivers a particular energy source

(for example, electricity, natural gas, steam) and is legally obligated to provide service

to the public in a particular geographic area.

(c) Sources Other than Local Utility include independent producers, brokers,

and other companies that sell energy products to the public in a particular geographic area.

(d) Sources of Liquefied Petroleum Gas (LPG) are ethane, ethylene, propane, propylene,

butane, and butylene. Sources of Natural Gas Liquids (NGL) are ethane, ethylene, propane,

butane, and butylene, plus natural gas products at refineries or natural gas processing plants. Including plants that hydrocrack raw

natural gas to produce LPG and NGL.

(e) Four components of Biomass are collected: agricultural waste, wood

waste, wood products, and wood products used for fuel. Agricultural waste, wood

waste, and wood products are wood-related and wood-related include

the average price of Biomass Total

is calculated by the sum of the four components divided by the sum of the Btu quantities purchased of these four components.

(f) The term "Refined Petroleum Oil" refers to the energy content of the energy used for the

production of carbon dioxide. Due to the high cost of transportation and costs from the

processing of refined petroleum oil, the costs in these regions are relatively high.

(g) No applicable RSE information facts.

(h) W=Weighted to avoid disclosing data for individual establishments.

(i) C=Calculated from a general formula.

(j) N=Not available.

(k) N/A=Not applicable.

(l) Notes: (1)Data in the RSE percentage for any source of energy in craft

construction is not available. (2) Sources may not total 100 percent because

the energy source is free, but the energy source either did not show up in the

energy consumption survey or was not reported.

Source: Energy Information Administration, Office of Energy Markets

and State Energy Program Division, U.S. Dept. of Energy, Energy

Consumption Survey.

**Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2006:**

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.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
<b>Total United States</b>										
311	Food	0.064	0.063	0.082	7.75	8.27	7.65	5.55	4.64	6.73
3112	Grain and Oilseed Milling	0.052	0.051	0.064	8.61	9.3	8.52	5.23	4.65	7.62
311221	Wet Corn Milling	0.044	0.044	0.057	8.5	10.49	8.24	7.25	W	W
31131	Sugar Manufacturing	0.059	0.056	0.154	8.54	9.65	8.23	6.53	0	6.53
3114	Fruit and Vegetable Preserving and Specialty Foods	0.067	0.067	0.092	8.35	8.04	8.43	4.45	1.75	6.69
3115	Dairy Products	0.072	0.071	0.094	6.97	8.8	6.64	5.32	Q	4.83
3116	Animal Slaughtering and Processing	0.063	0.063	0.071	6.59	8.9	6.21	Q	0	Q
312	Beverage and Tobacco Products	0.075	0.074	0.08	9.51	9.53	9.51	W	Q	W
3121	Beverages	0.079	0.079	0.08	9.47	9.49	9.47	W	Q	W
3122	Tobacco	0.052	0.052	0	10.04	10.12	10.02	0	0	0
313	Textile Mills	0.052	0.052	Q	9.03	Q	9.29	4.43	0	4.43
314	Textile Product Mills	0.058	0.057	0.077	Q	Q	8.37	0	0	0
315	Apparel	0.086	0.086	Q	9.34	12.32	8.86	0	0	0
316	Leather and Allied Products	0.086	0.08	0.147	10.54	13.84	10.04	3.5	0	3.5
321	Wood Products	0.063	0.062	0.077	8.55	8.83	8.44	5.47	3.88	5.74
321113	Sawmills	0.067	0.067	0.085	8.33	8.79	8.11	4.19	3.88	4.26
3212	Veneer, Plywood, and Engineered Woods	0.057	0.057	0.063	8.5	8.88	8.28	8.68	0	8.68
3219	Other Wood Products	0.064	0.064	0.115	8.62	8.48	8.64	12.36	0	12.36
322	Paper	0.052	0.051	0.068	8.66	8.31	8.74	5.18	4.63	5.45
322110	Pulp Mills	0.05	0.051	0.043	7.62	6.16	8.21	9.92	0	9.92
322121	Paper Mills, except Newsprint	0.05	0.048	0.062	8.19	7.82	8.29	4.69	4.5	4.74
322122	Newsprint Mills	0.04	0.04	0.071	8.37	9.53	8.37	4.11	3.88	4.72
322130	Paperboard Mills	0.048	0.047	0.092	8.2	8.47	8.14	5.79	4.8	6.37
323	Printing and Related Support	0.08	0.079	0.09	7.83	4.13	9.65	Q	0	Q
324	Petroleum and Coal Products	0.062	0.058	0.073	6.88	6.99	6.86	6.81	4.24	6.92
324110	Petroleum Refineries	0.06	0.056	0.073	6.9	7.25	6.84	6.79	4.24	6.91
324199	Other Petroleum and Coal Products	0.06	0.059	0.098	8.6	8.83	8.42	0	0	0
325	Chemicals	0.053	0.052	0.062	7.69	8.12	7.65	7.84	7.33	7.92
325110	Petrochemicals	0.063	0.064	0.061	7.19	W	7.15	W	0	W
325120	Industrial Gases	0.051	0.049	0.061	5.94	6.4	5.93	5.67	0	5.66
325181	Alkalies and Chlorine	0.043	0.042	0.054	7.38	10.2	7.37	6.64	0	6.64
325182	Carbon Black	0.065	0.065	0	7.74	7.16	8.26	0	0	0
325188	Other Basic Inorganic Chemicals	0.04	0.039	0.048	8.84	8.38	8.86	7.49	3.33	7.71
325192	Cyclic Crudes and Intermediates	0.074	0.073	0.087	7.71	8.33	7.45	W	W	4.67
325193	Ethyl Alcohol	0.043	0.043	0.049	8.28	8.28	8.27	8.9	0	8.9
325199	Other Basic Organic Chemicals	0.054	0.053	0.061	7.76	7.88	7.75	7.09	6.19	7.32
325211	Plastics Materials and Resins	0.057	0.058	0.055	7.04	5.85	7.15	9.11	7.52	9.23
325212	Synthetic Rubber	0.064	0.062	0.103	8.06	8.08	8.05	11.56	0	11.56
325222	Noncellulosic Organic Fibers	0.052	0.049	0.065	7.88	10.63	7.8	6.96	0	6.96
325311	Nitrogenous Fertilizers	0.056	0.058	0.041	7.3	10.05	7.02	10	0	10
325312	Phosphatic Fertilizers	0.057	0.055	0.08	8.21	6.88	8.26	0	0	0
3254	Pharmaceuticals and Medicines	0.075	0.071	0.096	10.55	10.73	10.52	11.01	9.5	13.54
325412	Pharmaceutical Preparation	0.074	0.069	0.104	10.73	10.76	10.73	11.04	9.5	15.54
325992	Photographic Film, Paper, Plate, and Chemicals	0.07	0.068	0.083	9.86	9.36	9.9	0	0	0
326	Plastics and Rubber Products	0.066	0.063	0.088	9.28	8.6	9.59	0	0	0
327	Nonmetallic Mineral Products	0.063	0.06	0.093	8.5	8.76	8.46	2.92	0	2.92
327211	Flat Glass	0.067	0.065	0.077	8.75	8.31	8.78	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0.058	0.057	0.108	8.16	8.1	Q	0	0	0
327213	Glass Containers	0.059	0.056	0.077	8.47	8.85	8.41	0	0	0
327215	Glass Products from Purchased Glass	0.066	0.065	0.076	Q	9.88	Q	0	0	0
327310	Cements	0.058	0.055	0.089	5.99	8.36	5.64	0	0	0
327410	Lime	0.053	0.053	0	7.87	9.93	7.73	0	0	0
327420	Gypsum	0.071	0.064	0.088	8.61	8.66	8.6	2.92	0	2.92
327993	Mineral Wool	0.058	0.052	0.199	8.49	7.97	8.68	0	0	0
331	Primary Metals	0.043	0.042	0.051	8.63	8.62	8.64	5.86	5.26	6.23
331111	Iron and Steel Mills	0.045	0.045	0.051	8.77	8.48	8.87	6.47	9.55	6.21
331112	Electrometallurgical Ferroalloy Products	0.034	0.034	0	9.12	1.1	10.33	W	W	7.71
3312	Steel Products from Purchased Steel	0.061	0.059	0.092	9.27	9.03	9.37	12.29	12.29	0
3313	Alumina and Aluminum	0.033	0.031	0.048	7.93	9.07	7.63	5.12	5.66	4.21
331314	Secondary Smelting and Alloying of Aluminum	0.069	0.068	0.104	8.86	8.45	9.04	0	0	0
331315	Aluminum Sheet, Plate and Foils	0.045	0.045	0.04	9	9.36	8.87	4.56	5.66	1.15
331316	Aluminum Extruded Products	0.063	0.063	0.064	9.51	9.38	9.53	0	0	0
3314	Nonferrous Metals, except Aluminum	0.048	0.048	0.047	8.09	7.79	8.16	W	W	0

**Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2006:**

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.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
3315	Foundries	0.058	0.057	0.078	9.25	8.99	9.32	13.86	0	13.86
331511	Iron Foundries	0.056	0.054	0.081	9.52	8.84	9.81	13.86	0	13.86
331521	Aluminum Die-Casting Foundries	0.055	0.054	0.089	9.01	7.63	9.25	0	0	0
331524	Aluminum Foundries, except Die-Casting	0.064	0.064	0.103	9.84	9.45	9.92	0	0	0
332	Fabricated Metal Products	0.073	0.072	0.107	9.13	9.59	8.99	0	0	0
333	Machinery	0.072	0.068	Q	12.44	Q	10.06	14.52	14.52	0
334	Computer and Electronic Products	0.076	0.073	0.091	10.07	10.13	10.03	12.03	12.03	0
334413	Semiconductors and Related Devices	0.067	0.063	0.082	10.06	9.85	10.17	12.03	12.03	0
335	Electrical Equip., Appliances, and Components	0.065	0.065	0.081	9.74	10.26	9.63	W	0	W
336	Transportation Equipment	0.062	0.062	0.064	7.24	4.55	9.09	4.38	8.07	Q
336111	Automobiles	0.054	0.054	0.055	8.13	8.33	8.02	8.07	8.07	0
336112	Light Trucks and Utility Vehicles	0.051	W	W	8.97	9.52	8.54	4.4	0	4.4
3364	Aerospace Product and Parts	0.075	0.073	0.103	9.83	10.06	9.78	0	0	0
336411	Aircraft	0.063	0.061	0.12	10.29	8.39	10.43	0	0	0
337	Furniture and Related Products	0.07	0.07	0.067	10.63	11.28	10.24	Q	Q	0.5
339	Miscellaneous	0.087	0.086	0.098	10.07	12.01	9.55	0	0	0
	Total	0.059	0.058	0.071	8.07	8.22	8.04	6.87	5.78	7.09

**Northeast Census Region**

311	Food	0.09	0.089	0.095	10.19	10.33	10.17	8.99	0	8.99
3112	Grain and Oilseed Milling	0.082	0.071	Q	11.7	0	11.7	0	0	0
311221	Wet Corn Milling	0.097	0.097	0	0	0	0	0	0	0
31131	Sugar Manufacturing	0.156	0.156	0	10.08	10.08	12.48	6.19	0	6.19
3114	Fruit and Vegetable Preserving and Specialty Foods	0.095	0.095	0.093	9.97	Q	9.87	7.7	0	7.7
3115	Dairy Products	0.093	0.091	0.099	10.13	9.98	10.2	0	0	0
3116	Animal Slaughtering and Processing	0.087	0.086	Q	10.96	Q	11.04	0	0	0
312	Beverage and Tobacco Products	0.102	0.103	0.1	9.34	11.88	9.2	10.1	0	10.1
3121	Beverages	0.102	0.103	0.1	9.29	12.42	9.15	10.1	0	10.1
3122	Tobacco	0.09	0.09	0	10.92	9.39	11.75	0	0	0
313	Textile Mills	0.082	0.079	Q	11.35	Q	10.99	0	0	0
314	Textile Product Mills	0.051	0.046	Q	10.64	Q	10.39	0	0	0
315	Apparel	0.123	0.121	Q	Q	Q	0	0	0	0
316	Leather and Allied Products	0.101	0.086	0.158	12.81	13.82	12.22	0	0	0
321	Wood Products	0.09	0.088	0.103	10.26	12.9	10.15	0	0	0
321113	Sawmills	0.097	0.091	0.138	Q	11.45	Q	0	0	0
3212	Veneer, Plywood, and Engineered Woods	0.072	0.072	0.07	9.6	0	9.6	0	0	0
3219	Other Wood Products	0.097	0.097	Q	10.77	16	10.53	0	0	0
322	Paper	0.071	0.072	0.069	9.77	9.39	9.81	5.03	9.54	4.8
322110	Pulp Mills	W	W	0	11.72	11.72	0	0	0	0
322121	Paper Mills, except Newsprint	0.067	0.075	0.062	9.2	8.82	9.21	4.81	7.4	4.72
322122	Newsprint Mills	0.042	0.042	0	0	0	0	0	0	0
322130	Paperboard Mills	0.058	0.052	0.107	9.17	9.08	9.24	5.6	11.65	4.96
323	Printing and Related Support	0.106	0.107	Q	11.24	12.39	11.03	Q	0	Q
324	Petroleum and Coal Products	0.078	0.077	0.081	8.35	9.1	8.14	6.08	0	6.08
324110	Petroleum Refineries	0.07	W	W	8.1	8.88	7.87	5.75	0	5.75
324199	Other Petroleum and Coal Products	0.062	0.062	0	9.47	8.75	10.78	0	0	0
325	Chemicals	0.071	0.063	0.093	10.57	10.74	10.53	8.94	10.73	8.64
325110	Petrochemicals	0.119	0.119	0	10.6	16.62	10.07	0	0	0
325120	Industrial Gases	0.049	0.037	0.07	8.94	4.98	9.83	4.98	0	4.98
325181	Alkalies and Chlorine	0.021	0.021	0	8.7	10.23	8.69	9.13	0	9.13
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	0.047	0.037	0.086	11.47	Q	11.4	3.18	3.18	0
325192	Cyclic Crudes and Intermediates	0.046	W	W	8.28	W	W	10.32	0	10.32
325193	Ethyl Alcohol	0.172	0.172	0	11.94	0	11.94	0	0	0
325199	Other Basic Organic Chemicals	0.083	0.084	0.08	10.32	12.17	10.2	5.75	0	5.75
325211	Plastics Materials and Resins	0.079	0.075	0.09	10.56	11.67	10.32	7.81	5.12	9.12
325212	Synthetic Rubber	0.084	0.082	0.17	11.3	10.88	14.14	7.25	0	7.25
325222	Noncellulosic Organic Fibers	0.094	0.091	0.101	10.2	0	10.2	0	0	0
325231	Nitrogenous Fertilizers	0.175	0.188	0.093	11.53	11.96	10.4	0	0	0
325232	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0.094	0.09	0.102	11.23	10.97	11.34	15.98	16.12	15.9
325412	Pharmaceutical Preparation	0.096	0.09	0.114	11.13	10.91	11.26	16.05	16.12	15.99
325992	Photographic Film, Paper, Plate, and Chemicals	0.089	0.094	0.082	10.55	11.84	10.54	0	0	0
326	Plastics and Rubber Products	0.088	0.073	0.121	10.27	14.99	10.14	0	0	0

Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2006:

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.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
327	Nonmetallic Mineral Products	0.076	0.07	0.108	10.33	10.26	10.35	0	0	0
327211	Flat Glass	0.058	0.055	0.069	9.09	0	9.09	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0.086	0.08	0.108	11.11	10.84	11.12	0	0	0
327213	Glass Containers	0.078	0.072	0.095	9.25	8.96	9.45	0	0	0
327215	Glass Products from Purchased Glass	0.089	0.083	0.196	10.5	11.74	8.37	0	0	0
327310	Cements	0.062	0.059	0.084	10.27	Q	10.01	0	0	0
327410	Lime	0.059	0.059	0	0	0	0	0	0	0
327420	Gypsum	0.099	0.117	0.09	11.08	W	W	0	0	0
327993	Mineral Wool	0.064	0.048	0.93	9.62	6.25	9.64	0	0	0
331	Primary Metals	0.049	0.048	0.064	10.09	8.21	10.35	5.27	0	5.27
331111	Iron and Steel Mills	0.051	0.052	0.048	10.15	7.88	10.38	12.36	0	12.36
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0.065	0.063	0.092	9.28	4.53	9.99	0	0	0
3313	Alumina and Aluminum	0.029	0.028	0.089	10.26	8.79	10.72	1.15	0	1.15
331314	Secondary Smelting and Alloying of Aluminum	0.114	0.115	0.065	9.7	14.13	9.41	0	0	0
331315	Aluminum Sheet, Plate and Foils	0.066	0.064	0.103	10.54	12.85	10.54	1.15	0	1.15
331316	Aluminum Extruded Products	0.062	0.055	0.086	10.97	9.25	11.07	0	0	0
3314	Nonferrous Metals, except Aluminum	0.075	0.074	0.078	9.23	7.77	9.35	0	0	0
3315	Foundries	0.07	0.066	0.122	11.31	11.77	11.26	0	0	0
331511	Iron Foundries	0.064	0.06	0.113	12.19	9.94	12.25	0	0	0
331521	Aluminum Die-Casting Foundries	0.044	0.039	0.13	10.29	5.93	10.33	0	0	0
331524	Aluminum Foundries, except Die-Casting	0.093	0.092	Q	12.01	12.29	11.9	0	0	0
332	Fabricated Metal Products	0.088	0.087	Q	10.13	10.55	10.1	0	0	0
333	Machinery	0.107	0.114	Q	Q	10.52	Q	0	0	0
334	Computer and Electronic Products	0.102	0.104	0.098	12.07	11.81	12.18	12.03	12.03	0
334413	Semiconductors and Related Devices	0.089	0.089	0.088	11.63	9.62	12.27	12.03	12.03	0
335	Electrical Equip., Appliances, and Components	0.096	0.097	Q	11.38	10.13	11.61	0	0	0
336	Transportation Equipment	0.08	Q	0.057	Q	10.57	Q	Q	0	Q
336111	Automobiles	0.167	0.167	0	16.43	16.4	18.85	0	0	0
336112	Light Trucks and Utility Vehicles	0.16	0.16	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	0.097	0.099	0.088	9.62	9.99	9.12	0	0	0
336411	Aircraft	0.09	0.089	0.116	16.2	15.95	16.4	0	0	0
337	Furniture and Related Products	0.091	0.1	Q	12.87	Q	12.2	0	0	0
339	Miscellaneous	0.106	0.105	Q	12.6	13.89	12.04	0	0	0
	Total	0.078	0.075	0.089	10.15	10.19	10.14	6.24	10.33	5.92

## Midwest Census Region

311	Food	0.053	0.053	0.058	7.37	7.99	7.3	5.5	4.59	7.42
3112	Grain and Oilseed Milling	0.047	0.047	0.051	8.28	7.52	8.36	5.22	4.54	9.1
311221	Wet Corn Milling	0.044	0.043	0.057	8.1	W	W	8.48	W	W
31131	Sugar Manufacturing	0.051	0.051	0	8.78	0	8.78	11.94	0	11.94
3114	Fruit and Vegetable Preserving and Specialty Foods	0.059	0.058	0.073	8.46	6.44	8.64	0	0	0
3115	Dairy Products	0.06	0.06	0.048	7.92	9.67	7.49	5.55	Q	Q
3116	Animal Slaughtering and Processing	0.054	0.054	Q	5.25	8.41	4.92	Q	0	Q
312	Beverage and Tobacco Products	0.059	0.06	0.035	8.42	6.16	9.37	Q	Q	0
3121	Beverages	0.059	0.06	0.035	8.42	6.16	9.39	Q	Q	0
3122	Tobacco	0.068	0.068	0	8.57	0	8.57	0	0	0
313	Textile Mills	Q	Q	0	Q	Q	Q	0	0	0
314	Textile Product Mills	Q	Q	Q	10.18	10.09	Q	0	0	0
315	Apparel	0.09	0.09	0	11.26	Q	Q	0	0	0
316	Leather and Allied Products	0.062	0.062	0.07	8.96	Q	8.91	3.5	0	3.5
321	Wood Products	0.055	0.055	Q	8.53	9.15	8.43	12.79	0	12.79
321113	Sawmills	0.076	0.076	Q	6.97	5.94	11.22	0	0	0
3212	Veneer, Plywood, and Engineered Woods	0.06	0.06	0	8.86	9.09	8.67	0	0	0
3219	Other Wood Products	0.052	0.052	Q	11.04	Q	12.79	0	0	12.79
322	Paper	0.052	0.052	0.063	8.86	8.94	8.85	4.38	3.26	6.27
322110	Pulp Mills	0.045	0.045	0	9.66	10.59	8.82	9.92	0	9.92
322121	Paper Mills, except Newsprint	0.047	0.047	0.058	8.38	8.51	8.35	2.71	2.21	5.63
322122	Newsprint Mills	0.044	0.044	0	9.79	9.53	11.68	3.88	3.88	0
322130	Paperboard Mills	0.049	0.049	0	8.95	8.79	8.93	4.97	3.01	6.49
323	Printing and Related Support	0.071	0.071	Q	8.76	10.26	8.55	0	0	0
324	Petroleum and Coal Products	0.045	0.044	0.051	7.5	8.03	7.27	4.91	3.44	6.52
324110	Petroleum Refineries	0.042	W	W	7.2	7.43	7.12	4.91	3.44	6.52
324199	Other Petroleum and Coal Products	0.064	0.064	0	10.32	12.26	9.23	0	0	0

**Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2006:**

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.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
325	Chemicals	0.048	0.047	0.049	8.06	8.89	7.94	6.92	6.48	7.01
325110	Petrochemicals	W	W	0	W	0	W	0	0	0
325120	Industrial Gases	0.043	0.044	0.038	7.59	Q	7.32	0	0	0
325181	Alkalies and Chlorine	0.048	0.048	0	7.78	12.24	7.69	0	0	0
325182	Carbon Black	0.052	0.052	0	10.14	10.53	8.6	0	0	0
325188	Other Basic Inorganic Chemicals	0.055	0.054	0.062	8.52	8.93	8.5	5.96	0	5.96
325192	Cyclic Crudes and Intermediates	0.039	0.039	0	9.16	0	9.16	W	0	W
325193	Ethyl Alcohol	0.042	0.042	0.048	8.22	8.28	8.21	0	0	0
325199	Other Basic Organic Chemicals	0.047	0.045	0.059	6.38	8.68	5.96	5.34	8.85	5.23
325211	Plastics Materials and Resins	0.051	W	W	8.29	7.53	8.34	9.02	7.2	9.81
325212	Synthetic Rubber	0.045	0.045	0	9.68	10.78	9.55	0	0	0
325222	Noncellulosic Organic Fibers	0.037	0.037	0	8.79	0	8.79	0	0	0
325311	Nitrogenous Fertilizers	0.039	0.039	0.039	7.19	8.58	7.18	10.03	0	10.03
325312	Phosphatic Fertilizers	0.077	0.077	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0.051	0.05	0.059	9.39	8.96	9.5	6.95	6.75	11.3
325412	Pharmaceutical Preparation	0.049	0.049	0.058	9.35	8.76	9.54	6.95	6.75	11.3
325992	Photographic Film, Paper, Plate, and Chemicals	0.059	0.059	Q	9.81	10.09	9.78	0	0	0
326	Plastics and Rubber Products	0.059	0.058	Q	9.05	8.44	9.47	0	0	0
327	Nonmetallic Mineral Products	0.056	0.056	0.062	8.1	8.57	8.07	0	0	0
327211	Flat Glass	0.087	0.087	0	9.5	9.38	9.5	0	0	0
327212	Other Pressed and Blown Glass and Glassware	Q	Q	0	Q	14.04	Q	0	0	0
327213	Glass Containers	0.048	0.041	0.063	8.24	8.29	8.24	0	0	0
327215	Glass Products from Purchased Glass	0.059	0.059	0.056	9.2	7.43	9.55	0	0	0
327310	Cements	0.046	0.046	0.049	3.64	Q	3.32	0	0	0
327410	Lime	0.052	0.052	0	8.27	10.74	8.16	0	0	0
327420	Gypsum	0.056	0.056	0.052	9.18	W	W	0	0	0
327993	Mineral Wool	0.046	0.046	0.087	8.03	8.11	8	0	0	0
331	Primary Metals	0.044	0.043	0.049	8.7	8.69	8.7	5.67	4.74	6.23
331111	Iron and Steel Mills	0.041	0.041	0.039	8.52	8.6	8.46	6.08	9.08	6.04
331112	Electrometallurgical Ferroalloy Products	0.036	0.036	0	8.96	1.1	10.36	W	W	7.71
3312	Steel Products from Purchased Steel	0.055	0.054	0.088	9.37	9.48	9.3	0	0	0
3313	Alumina and Aluminum	0.033	W	W	8.82	8.86	8.82	5.66	5.66	0
331314	Secondary Smelting and Alloying of Aluminum	0.059	0.058	0.094	8.43	8.37	8.45	0	0	0
331315	Aluminum Sheet, Plate and Foils	0.042	0.042	0.064	9.14	10.36	9.06	5.66	5.66	0
331316	Aluminum Extruded Products	0.056	0.055	0.081	9.13	9.43	9.07	0	0	0
3314	Nonferrous Metals, except Aluminum	0.044	W	W	9.26	9.65	9.06	W	W	0
3315	Foundries	0.055	0.055	0.062	9.14	8.64	9.22	13.86	0	13.86
331511	Iron Foundries	0.054	0.054	Q	9.68	9.76	9.66	13.86	0	13.86
331521	Aluminum Die-Casting Foundries	0.052	0.051	0.077	8.96	6.98	9.26	0	0	0
331524	Aluminum Foundries, except Die-Casting	0.063	0.063	0.09	9.95	8.45	10.14	0	0	0
332	Fabricated Metal Products	0.068	0.067	Q	8.86	8.62	8.94	0	0	0
333	Machinery	0.06	0.06	0.063	13.35	Q	9.47	14.52	14.52	0
334	Computer and Electronic Products	0.056	0.056	0	8.94	Q	8.93	0	0	0
334413	Semiconductors and Related Devices	0.05	0.05	0	7.03	10.87	6.89	0	0	0
335	Electrical Equip., Appliances, and Components	0.06	0.06	Q	9.34	9.16	9.42	0	0	0
336	Transportation Equipment	0.055	0.056	0.047	5.78	3.09	8.54	Q	8.07	Q
336111	Automobiles	0.055	0.055	0.054	7.89	8.17	7.74	8.07	8.07	0
336112	Light Trucks and Utility Vehicles	0.048	0.048	0.046	8.95	9.54	8.52	4.4	0	4.4
3364	Aerospace Product and Parts	0.057	0.057	0.053	10.48	11	10.39	0	0	0
336411	Aircraft	0.045	0.045	0	10.47	12.47	10.45	0	0	0
337	Furniture and Related Products	0.065	0.064	Q	9.85	11.31	9.32	0.5	0	0.5
339	Miscellaneous	0.07	0.069	Q	8.65	6.77	9.14	0	0	0
	Total	0.054	0.053	0.056	8.14	7.97	8.21	5.89	4.65	6.81

**South Census Region**

311	Food	0.063	0.062	0.097	8.09	8.42	7.98	4.93	4.93	0
3112	Grain and Oilseed Milling	0.058	0.057	0.099	9.55	12.66	8.53	8.48	8.48	0
311221	Wet Corn Milling	0.046	0.046	0	14.73	W	W	0	0	0
31131	Sugar Manufacturing	0.103	0.088	0.154	8.11	7.16	8.12	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	0.072	0.071	0.09	9.46	9.56	9.42	1.75	1.75	0
3115	Dairy Products	0.073	0.073	0	8.5	8.58	8.44	0	0	0
3116	Animal Slaughtering and Processing	0.064	0.063	0.08	7.91	9.51	7.71	0	0	0
312	Beverage and Tobacco Products	0.066	0.064	0.095	10.18	11.49	9.88	0	0	0
3121	Beverages	0.073	0.07	0.095	10.21	11.64	9.85	0	0	0

**Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2006:**

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.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
3122	Tobacco	0.051	0.051	0	10.03	10.25	10	0	0	0
313	Textile Mills	0.049	0.049	Q	8.93	Q	9.16	4.43	0	4.43
314	Textile Product Mills	0.057	0.056	Q	Q	Q	8.18	0	0	0
315	Apparel	0.078	0.078	Q	9.12	12.84	8.65	0	0	0
316	Leather and Allied Products	0.082	0.082	0	12	0	12	0	0	0
321	Wood Products	0.066	0.066	0.064	8.25	8.33	8.18	3.77	3.88	3.74
321113	Sawmills	0.072	0.073	0.05	7.86	8.65	7.54	3.6	3.88	3.51
3212	Veneer, Plywood, and Engineered Woods	0.057	0.057	0.078	8.38	8.97	7.99	6.81	0	6.81
3219	Other Wood Products	0.079	0.079	Q	7.13	4.95	10.9	0	0	0
322	Paper	0.052	0.051	0.073	8.68	8.28	8.76	6.3	5.14	7.01
322110	Pulp Mills	0.051	0.051	0	7.62	W	W	0	0	0
322121	Paper Mills, except Newsprint	0.045	0.045	0.058	7.84	7.91	7.81	3.8	0	3.8
322122	Newsprint Mills	0.05	0.049	0.071	8.72	0	8.72	4.72	0	4.72
322130	Paperboard Mills	0.053	0.052	0.078	8.36	8.57	8.31	6.71	5.14	8.06
323	Printing and Related Support	0.072	0.068	Q	5.89	2.14	10.37	0	0	0
324	Petroleum and Coal Products	0.062	0.057	0.077	6.67	7.03	6.62	6.77	7.11	6.76
324110	Petroleum Refineries	0.061	0.056	0.077	6.7	6.99	6.65	6.75	7.11	6.75
324199	Other Petroleum and Coal Products	0.057	0.054	0.098	8.27	9	7.98	0	0	0
325	Chemicals	0.053	0.052	0.059	7.46	7.65	7.45	7.97	7.25	8.1
325110	Petrochemicals	W	W	0.061	W	W	W	0	0	W
325120	Industrial Gases	0.055	0.053	0.059	5.69	14.29	5.68	7.53	0	7.52
325181	Alkalies and Chlorine	0.049	0.049	0.068	7.38	10.16	7.37	0	0	0
325182	Carbon Black	0.066	0.066	0	7.51	6.6	8.25	0	0	0
325188	Other Basic Inorganic Chemicals	0.039	0.039	0.043	8.14	7.8	8.15	7.68	3.37	7.89
325192	Cyclic Crudes and Intermediates	0.079	W	W	7.33	W	W	14.04	W	W
325193	Ethyl Alcohol	0.047	0.046	0.055	9.64	8.47	9.64	0	0	0
325199	Other Basic Organic Chemicals	0.054	0.053	0.06	7.85	7.75	7.86	7.37	6.14	7.78
325211	Plastics Materials and Resins	0.056	0.058	0.053	6.85	5.41	6.98	9.22	12.57	9.17
325212	Synthetic Rubber	0.066	0.064	0.102	7.99	7.92	8	11.85	0	11.85
325222	Noncellulosic Organic Fibers	0.051	0.049	0.064	7.87	10.63	7.79	6.96	0	6.96
325311	Nitrogenous Fertilizers	0.058	0.058	0.047	7.33	10	7.01	7.47	0	7.47
325312	Phosphatic Fertilizers	0.064	0.062	0.08	W	10	W	0	0	0
3254	Pharmaceuticals and Medicines	0.067	0.064	0.091	10.48	11.59	10.18	5.2	0	5.2
325412	Pharmaceutical Preparation	0.067	0.064	0.09	11.35	11.59	11.13	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	0.064	0.061	Q	9.68	9.54	9.72	0	0	0
326	Plastics and Rubber Products	0.061	0.061	0.062	9.04	8.31	9.38	0	0	0
327	Nonmetallic Mineral Products	0.058	0.057	0.078	8.57	8.61	8.56	0	0	0
327211	Flat Glass	0.052	W	W	8.61	W	W	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0.049	0.049	0	8.12	7.88	8.46	0	0	0
327213	Glass Containers	0.056	0.054	0.08	8.17	8.84	8.09	0	0	0
327215	Glass Products from Purchased Glass	0.062	0.062	Q	Q	9.55	Q	0	0	0
327310	Cements	0.056	0.056	0	8.97	7.84	9.67	0	0	0
327410	Lime	0.054	0.054	0	7.49	9.5	7.32	0	0	0
327420	Gypsum	0.065	0.062	0.082	9.5	9.46	9.5	0	0	0
327993	Mineral Wool	0.058	0.058	0	8.21	7.92	8.39	0	0	0
331	Primary Metals	0.041	0.04	0.052	8.09	8.73	7.92	8.09	12.29	7.9
331111	Iron and Steel Mills	0.045	0.044	0.059	8.74	7.67	8.89	0	0	0
331112	Electrometallurgical Ferroalloy Products	0.03	0.03	0	9	0	9	0	0	0
3312	Steel Products from Purchased Steel	0.061	0.06	Q	8.99	10.12	8.63	12.29	12.29	0
3313	Alumina and Aluminum	0.034	W	W	7.22	9.25	6.65	7.9	0	7.9
331314	Secondary Smelting and Alloying of Aluminum	0.063	0.063	0.095	9.78	8.71	10.48	0	0	0
331315	Aluminum Sheet, Plate and Foils	0.04	0.041	0.033	8.6	9.29	8.01	0	0	0
331316	Aluminum Extruded Products	0.064	0.066	0.039	9.26	9.66	9.17	0	0	0
3314	Nonferrous Metals, except Aluminum	0.042	W	W	7.94	7.57	8.06	0	0	0
3315	Foundries	0.055	0.053	0.078	8.83	8.91	8.77	0	0	0
331511	Iron Foundries	0.057	0.053	0.077	8.8	8.41	9.53	0	0	0
331521	Aluminum Die-Casting Foundries	0.066	0.065	0.089	8.42	8.52	8.39	0	0	0
331524	Aluminum Foundries, except Die-Casting	0.05	0.049	0.104	9.18	9.95	8.88	0	0	0
332	Fabricated Metal Products	0.07	0.069	Q	8.99	10.88	8.44	0	0	0
333	Machinery	0.07	0.07	Q	11.38	12.45	10.37	0	0	0
334	Computer and Electronic Products	0.074	0.073	0.078	10.26	11.01	10.1	0	0	0
334413	Semiconductors and Related Devices	0.07	0.065	0.077	9.93	11.31	9.63	0	0	0
335	Electrical Equip., Appliances, and Components	0.059	0.059	Q	9.8	12.04	9.56	0	0	0
336	Transportation Equipment	0.059	0.059	0.063	9.46	9.95	9.18	0	0	0
336111	Automobiles	W	W	0	W	8.66	W	0	0	0
336112	Light Trucks and Utility Vehicles	0.054	W	W	9.02	9.49	8.58	0	0	0

**Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2006:**

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.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
3364	Aerospace Product and Parts	0.072	0.071	0.086	9.14	9.06	9.15	0	0	0
336411	Aircraft	0.067	0.067	0	9.88	5.56	10.29	0	0	0
337	Furniture and Related Products	0.065	0.065	Q	11.66	10.44	13.68	Q	Q	0
339	Miscellaneous	0.068	0.067	Q	9.62	Q	8.44	0	0	0
	Total	0.056	0.055	0.066	7.81	8.33	7.71	7.28	6.69	7.36
<b>West Census Region</b>										
311	Food	0.08	0.079	0.107	7.48	7.95	7.34	5.8	0	5.8
3112	Grain and Oilseed Milling	0.088	0.088	0	9.87	8.52	10.11	4.06	0	4.06
311221	Wet Corn Milling	0.043	0.043	0	10.57	8.73	11.04	4.06	0	4.06
31131	Sugar Manufacturing	0.048	0.048	0	7.7	8.95	6.46	6.3	0	6.3
3114	Fruit and Vegetable Preserving and Specialty Foods	0.067	0.066	Q	7.75	7.59	7.81	6.54	0	6.54
3115	Dairy Products	0.078	0.076	0.103	5.38	7	5.24	4.79	0	4.79
3116	Animal Slaughtering and Processing	0.095	0.095	0	8.72	Q	8.35	4.37	0	4.37
312	Beverages and Tobacco Products	0.09	0.094	0.066	9.35	10.38	9.2	W	0	W
3121	Beverages	0.09	0.094	0.066	9.35	10.38	9.2	W	0	W
3122	Tobacco	0	0	0	0	0	0	0	0	0
313	Textile Mills	Q	Q	Q	Q	Q	Q	0	0	0
314	Textile Product Mills	0.118	0.106	Q	8.6	7.64	Q	0	0	0
315	Apparel	0.143	0.143	0	3.78	Q	3.53	0	0	0
316	Leather and Allied Products	0.121	0.122	Q	11.5	Q	Q	0	0	0
321	Wood Products	0.058	0.058	0.066	8.39	9.23	7.91	7.14	0	7.14
321113	Sawmills	0.055	0.055	0.072	8.28	9.37	Q	5.68	0	5.68
3212	Veneer, Plywood, and Engineered Woods	0.051	0.051	0.055	7.96	8.46	7.67	9.07	0	9.07
3219	Other Wood Products	0.081	0.079	Q	10.33	10.9	9.43	Q	0	Q
322	Paper	0.043	0.042	0.058	7.58	7.68	7.54	8.16	10.29	5.18
322110	Pulp Mills	W	W	0.043	W	8.18	W	0	0	0
322121	Paper Mills, except Newsprint	0.051	0.051	0.073	7.35	7.02	7.54	8.41	12.59	5.18
322122	Newsprint Mills	0.033	0.033	0	8.36	0	8.36	0	0	0
322130	Paperboard Mills	0.037	0.036	0.101	7.38	7.94	7.23	7.41	7.41	0
323	Printing and Related Support	0.116	0.116	0	11.15	12.85	Q	0	0	0
324	Petroleum and Coal Products	0.073	0.074	0.07	6.7	5.51	6.99	7.7	0	7.7
324110	Petroleum Refineries	0.072	0.073	0.07	7.02	7.23	6.98	7.7	0	7.7
324199	Other Petroleum and Coal Products	0.056	0.056	0	7.63	7.76	7.14	0	0	0
325	Chemicals	0.057	0.055	0.07	8.19	6.43	8.44	6.48	0	6.48
325110	Petrochemicals	0.124	0.124	0	8.18	0	8.18	0	0	0
325120	Industrial Gases	0.06	0.058	0.094	6.24	3.81	7.49	0	0	0
325181	Alkalies and Chlorine	0.044	0.039	0.054	7.31	0	7.31	1.94	0	1.94
325182	Carbon Black	0.162	0.162	0	11.68	0	11.68	0	0	0
325188	Other Basic Inorganic Chemicals	0.034	0.034	0.031	11.03	8.34	11.22	10.34	0	10.34
325192	Cyclic Crudes and Intermediates	0.117	0.117	0	9.86	9.19	10.09	0	0	0
325193	Ethyl Alcohol	0.081	0.081	0	10.01	0	10.01	8.9	0	8.9
325199	Other Basic Organic Chemicals	0.084	0.101	0.062	6.72	6.23	8.02	8.35	0	8.35
325211	Plastics Materials and Resins	0.097	W	W	8.67	Q	8.58	0	0	0
325212	Synthetic Rubber	0.135	0.135	0	9.65	9.65	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0.065	0.065	0	6.09	9.2	6.09	0	0	0
325312	Phosphatic Fertilizers	0.037	0.037	0	W	6.77	7.12	0	0	0
3254	Pharmaceuticals and Medicines	0.107	0.106	0.11	9.36	9.57	9.33	0	0	0
325412	Pharmaceutical Preparation	0.11	0.107	0.117	9.53	8.91	9.59	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	0.063	0.063	0	8.89	8.45	8.92	0	0	0
326	Plastics and Rubber Products	0.096	0.098	Q	9.97	11.16	9.17	0	0	0
327	Nonmetallic Mineral Products	0.077	0.071	0.107	7.36	7.68	7.28	2.92	0	2.92
327211	Flat Glass	0.096	W	W	6.85	W	W	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0.066	0.066	0	8.46	12.73	8.43	0	0	0
327213	Glass Containers	0.058	0.058	0	8.47	0	8.47	0	0	0
327215	Glass Products from Purchased Glass	0.089	0.088	0.101	11.01	11.34	10.78	0	0	0
327310	Cements	0.073	0.065	0.094	7.53	10.77	7.53	0	0	0
327410	Lime	0.048	0.048	0	9.1	12.26	8.9	0	0	0
327420	Gypsum	0.082	0.068	0.11	6.03	8	5.77	2.92	0	2.92
327993	Mineral Wool	0.096	0.064	0.167	9.35	7.8	10.34	0	0	0
331	Primary Metals	0.046	0.045	0.049	7.77	7.03	7.85	9.61	9.61	0
331111	Iron and Steel Mills	0.056	0.051	0.067	8.11	8.39	8.11	9.61	9.61	0
331112	Electrometallurgical Ferroalloy Products	0.107	0.107	0	17.6	0	17.6	0	0	0

**Table 7.3 Average Prices of Purchased Electricity, Natural Gas, and Steam, 2006:**

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.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
3312	Steel Products from Purchased Steel	0.105	0.109	0.096	9.3	Q	8.83	0	0	0
3313	Alumina and Aluminum	0.031	0.025	0.04	8.12	7.89	8.14	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0.116	0.115	0.136	8.09	6.23	8.38	0	0	0
331315	Aluminum Sheet, Plate and Foils	0.052	0.051	0.171	8.05	0	8.05	0	0	0
331316	Aluminum Extruded Products	0.082	0.082	0	8.65	8.69	8.64	0	0	0
3314	Nonferrous Metals, except Aluminum	0.043	0.042	0.044	6.46	3.28	6.89	0	0	0
3315	Foundries	0.082	0.082	0.069	9.23	9.69	9.01	0	0	0
331511	Iron Foundries	0.081	0.082	0.069	8.25	8.52	8.21	0	0	0
331521	Aluminum Die-Casting Foundries	0.102	0.102	0	9.32	9.4	9.26	0	0	0
331524	Aluminum Foundries, except Die-Casting	0.088	0.088	0	9.08	9.38	8.97	0	0	0
332	Fabricated Metal Products	0.086	0.081	Q	9.93	11.09	9.44	0	0	0
333	Machinery	0.104	0.092	Q	9.41	11.64	Q	0	0	0
334	Computer and Electronic Products	0.072	0.069	0.113	9.53	9.83	9.34	0	0	0
334413	Semiconductors and Related Devices	0.059	0.059	0.12	9.6	9.7	9.51	0	0	0
335	Electrical Equip., Appliances, and Components	0.083	0.083	0	Q	13.39	Q	W	0	W
336	Transportation Equipment	0.084	0.079	0.114	9.89	10.5	9.77	0	0	0
336111	Automobiles	W	W	0.084	W	9.3	W	0	0	0
336112	Light Trucks and Utility Vehicles	0.115	0.115	0	8.93	10.52	8.02	0	0	0
3364	Aerospace Product and Parts	0.082	0.076	0.115	10.19	10.59	10.14	0	0	0
336411	Aircraft	0.065	0.058	0.12	10.65	11.04	10.61	0	0	0
337	Furniture and Related Products	0.119	0.119	0	10.31	Q	Q	0	0	0
339	Miscellaneous	0.119	0.123	Q	9.67	11.93	9.4	0	0	0
	Total	0.068	0.066	0.078	7.55	7.43	7.58	7.07	10.01	6.95

(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, '2006 Manufacturing Energy Consumption Survey.'

**Table 7.4 Average Prices of Selected Purchased Energy Sources, 2006;**

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)
<b>Total United States</b>						
<b>Value of Shipments and Receipts (million dollars)</b>						
Under 20	0.079	1.18	2.28	9.42	1.49	52.36
20-49	0.067	1.23	2.28	8.92	1.64	60.17
50-99	0.062	1.16	2.06	8.25	1.81	61.31
100-249	0.057	1.14	2.06	8.1	1.38	65.55
250-499	0.05	1.22	1.72	8.22	1.14	68.89
500 and Over	0.052	1.09	2.25	7.48	1.07	78.36
Total	0.059	1.16	2.17	8.07	1.12	69.93
<b>Employment Size</b>						
Under 50	0.072	1.26	2.23	8.57	1.57	55.14
50-99	0.071	1.11	2.42	8.47	1.2	61.29
100-249	0.061	1.18	2.13	8.28	1.31	68.88
250-499	0.055	1.23	1.88	8.22	0.96	58.17
500-999	0.052	1.17	2.2	7.52	1.44	61.05
1000 and Over	0.054	1.09	2.12	7.84	0.99	84.64
Total	0.059	1.16	2.17	8.07	1.12	69.93
<b>Northeast Census Region</b>						
<b>Value of Shipments and Receipts (million dollars)</b>						
Under 20	0.103	1.28	2.24	10.95	1.8	101.09
20-49	0.089	1.34	1.98	10.76	1.75	95.36
50-99	0.083	1.24	2.02	10.28	Q	49.85
100-249	0.074	1.28	2.19	10.08	1.37	63.74
250-499	0.054	1.3	1.75	9.91	1.89	49.59
500 and Over	0.065	1.28	1.92	9.44	2.15	87.19
Total	0.078	1.28	2.13	10.15	1.81	80.37
<b>Employment Size</b>						
Under 50	0.1	1.26	2.21	10.76	1.98	61.83
50-99	0.088	1.37	2.17	11.1	1.88	60.92

**Table 7.4 Average Prices of Selected Purchased Energy Sources, 2006;**

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)
100-249	0.082	1.32	2.15	10.35	1.49	72.45
250-499	0.07	1.22	1.82	9.7	1.64	69.98
500-999	0.068	1.23	1.79	9.72	1.99	46.87
1000 and Over	0.07	1.39	1.87	9.84	Q	87.19
Total	0.078	1.28	2.13	10.15	1.81	80.37

**Midwest Census Region****Value of Shipments and Receipts  
(million dollars)**

Under 20	0.069	Q	2.48	9.58	1.23	59.52
20-49	0.061	1.18	2.71	8.79	1.65	49.3
50-99	0.055	1.18	1.98	8.48	1.47	54.56
100-249	0.052	1.08	2.49	7.08	1.49	59.89
250-499	0.048	1.15	2.33	8.72	1.72	72.54
500 and Over	0.044	0.91	2.43	7.75	0.57	78.23
Total	0.054	1.02	2.38	8.14	0.79	70.72

**Employment Size**

Under 50	0.063	1.19	2.46	9.11	1.69	70.01
50-99	0.063	1.09	2.49	8.49	1.06	49.91
100-249	0.054	1.19	2.24	8.55	1.64	71.09
250-499	0.051	1.2	2.25	8.33	0.68	45.3
500-999	0.048	1.03	2.64	6.68	1.16	58.76
1000 and Over	0.049	0.9	2.43	7.88	1.41	93.46
Total	0.054	1.02	2.38	8.14	0.79	70.72

**South Census Region****Value of Shipments and Receipts  
(million dollars)**

Under 20	0.072	1.24	2.22	8.77	1.53	90.47
20-49	0.061	1.2	2.07	8.84	1.68	74.62
50-99	0.058	1.1	1.89	7.39	1.82	70.56
100-249	0.056	1.12	1.74	8.56	1.29	74.8
250-499	0.051	1.2	1.84	8.06	1.01	69.43

**Table 7.4 Average Prices of Selected Purchased Energy Sources, 2006;**

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)
500 and Over	0.051	1.14	2.1	7.3	1.1	68.24
Total	0.056	1.15	2.03	7.81	1.14	71.76
<b>Employment Size</b>						
Under 50	0.066	1.47	2.17	7.74	1.52	90.38
50-99	0.066	1.09	2.14	7.88	1.13	76.76
100-249	0.058	1.14	1.98	7.94	1.3	69.63
250-499	0.056	1.22	1.72	8.22	1	80.61
500-999	0.051	1.17	2	7.59	1.45	68.76
1000 and Over	0.05	1.15	2.07	7.51	0.99	65.37
Total	0.056	1.15	2.03	7.81	1.14	71.76

**West Census Region****Value of Shipments and Receipts  
(million dollars)**

Under 20	0.097	1.15	2.32	8.99	1.62	39.51
20-49	0.08	Q	Q	7.24	1.44	28.62
50-99	0.076	1.47	2.48	8.71	1.71	54.32
100-249	0.056	1.23	2.46	7.52	1.55	46.09
250-499	0.048	1.14	1.21	7.69	1.5	52.61
500 and Over	0.071	0	2.45	7.02	0.69	64
Total	0.068	1.21	2.34	7.55	1.55	45.06

**Employment Size**

Under 50	0.092	1.1	2.19	7.82	1.66	39.01
50-99	0.087	1.22	Q	8.45	1.62	42.23
100-249	0.072	1.08	2.32	7.34	1.49	57.29
250-499	0.052	1.31	2.08	7.43	1.6	39.7
500-999	0.057	1.15	2.6	6.92	1.73	27.33
1000 and Over	0.072	1.13	1.96	8.22	0.86	57.31
Total	0.068	1.21	2.34	7.55	1.55	45.06

(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

**Table 7.4 Average Prices of Selected Purchased Energy Sources, 2006;**

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)
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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, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 7.5 Average Prices of Selected Purchased Energy Sources, 2006;**

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
<b>Total United States</b>						
<b>Value of Shipments and Receipts (million dollars)</b>						
Under 20	23.15	7.91	16.45	9.16	16.32	2.15
20-49	19.76	8.23	16.42	8.67	17.91	2.66
50-99	18.1	7.73	14.84	8.02	20.85	2.71
100-249	16.56	7.64	14.86	7.87	14.55	2.86
250-499	14.66	8.14	12.4	7.99	13.05	3.1
500 and Over	15.14	7.31	16.22	7.27	12.61	3.16
Total	17.28	7.74	15.65	7.84	13.14	2.97
<b>Employment Size</b>						
Under 50	21.19	8.39	16.08	8.33	17.09	2.31
50-99	20.81	7.43	17.47	8.23	13.88	2.74
100-249	17.83	7.91	15.38	8.05	15.39	3.06
250-499	16.24	8.23	13.54	7.99	11.31	2.53
500-999	15.26	7.82	15.84	7.3	16.56	2.75
1000 and Over	15.83	7.29	15.3	7.62	11.61	3.35
Total	17.28	7.74	15.65	7.84	13.14	2.97
<b>Northeast Census Region</b>						
<b>Value of Shipments and Receipts (million dollars)</b>						
Under 20	30.09	8.56	16.13	10.64	19.74	10.02
20-49	26.17	8.92	14.28	10.46	18.71	3.8
50-99	24.25	8.28	14.56	9.99	Q	2.25
100-249	21.62	8.54	15.79	9.8	15.04	2.87
250-499	15.79	8.71	12.61	9.63	21.89	2.24
500 and Over	19.12	8.56	13.82	9.17	24.03	3.31
Total	22.97	8.56	15.35	9.87	20.57	3.19
<b>Employment Size</b>						
Under 50	29.43	8.4	15.94	10.45	21.83	2.79
50-99	25.85	9.17	15.67	10.79	21.75	2.87
100-249	23.96	8.79	15.52	10.06	16.34	3.08

Released: June 2010

Next MECS will be conducted in 2010

**Table 7.5 Average Prices of Selected Purchased Energy Sources, 2006;**

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
250-499	20.63	8.14	13.13	9.43	18.01	3.16
500-999	19.84	8.2	12.94	9.44	22.25	2.1
1000 and Over	20.43	9.32	13.46	9.56	Q	3.31
Total	22.97	8.56	15.35	9.87	20.57	3.19

**Midwest Census Region****Value of Shipments and Receipts  
(million dollars)**

Under 20	20.21	Q	17.91	9.31	13.49	2.69
20-49	17.95	7.89	19.52	8.55	18.06	2.22
50-99	16.03	7.87	14.29	8.24	16.16	2.38
100-249	15.24	7.21	17.96	6.88	16.74	2.69
250-499	14	7.67	16.8	8.48	19.29	3.26
500 and Over	12.95	6.09	17.51	7.53	6.6	3.15
Total	15.68	6.84	17.17	7.91	9.1	2.99

**Employment Size**

Under 50	18.32	7.96	17.74	8.85	18.56	3.16
50-99	18.38	7.26	17.96	8.25	11.68	2.21
100-249	15.9	7.94	16.18	8.31	17.89	3.18
250-499	15.01	8.03	16.24	8.1	7.88	2.02
500-999	13.98	6.9	19.01	6.49	12.55	2.64
1000 and Over	14.39	6.04	17.55	7.65	15.56	3.62
Total	15.68	6.84	17.17	7.91	9.1	2.99

**South Census Region****Value of Shipments and Receipts  
(million dollars)**

Under 20	21.16	8.27	16.02	8.52	16.84	3.97
20-49	17.82	8.05	14.91	8.59	18.4	3.38
50-99	17.03	7.36	13.62	7.18	21.13	3.12
100-249	16.51	7.49	12.54	8.32	13.13	3.17
250-499	15.01	8.04	13.3	7.83	11.66	3.12
500 and Over	14.83	7.62	15.16	7.09	13	2.99
Total	16.35	7.69	14.6	7.59	13.32	3.14

**Table 7.5 Average Prices of Selected Purchased Energy Sources, 2006;**

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
<b>Employment Size</b>						
Under 50	19.42	9.79	15.67	7.52	16.47	4.07
50-99	19.43	7.28	15.42	7.66	13.09	3.42
100-249	16.9	7.61	14.28	7.72	15.31	3.1
250-499	16.43	8.18	12.42	7.98	11.88	3.33
500-999	14.88	7.8	14.4	7.37	16.61	3.09
1000 and Over	14.62	7.68	14.95	7.3	11.6	2.87
Total	16.35	7.69	14.6	7.59	13.32	3.14
<b>West Census Region</b>						
<b>Value of Shipments and Receipts (million dollars)</b>						
Under 20	28.39	7.67	16.73	8.74	17.77	1.57
20-49	23.5	Q	Q	7.04	15.83	1.29
50-99	22.15	9.81	17.85	8.47	18.81	2.45
100-249	16.34	8.21	17.74	7.31	16.9	2.08
250-499	14.12	7.62	8.69	7.47	16.5	2.37
500 and Over	20.67	0	17.68	6.82	7.56	2.87
Total	19.86	8.08	16.86	7.34	17.07	1.98
<b>Employment Size</b>						
Under 50	26.86	7.36	15.79	7.6	18.21	1.55
50-99	25.42	8.15	Q	8.21	17.65	1.91
100-249	20.96	7.24	16.7	7.13	16.41	2.58
250-499	15.29	8.75	15.01	7.22	17.55	1.79
500-999	16.81	7.66	18.74	6.72	19.06	1.23
1000 and Over	20.99	7.52	14.15	7.99	9.4	2.59
Total	19.86	8.08	16.86	7.34	17.07	1.98

(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,

**Table 7.5 Average Prices of Selected Purchased Energy Sources, 2006;**

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
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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, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 7.6 Quantity of Purchased Energy Sources, 2006;**

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)
<b>Total United States</b>										
311	Food	1,125	73,242	4	3	586	1	7	*	61
3112	Grain and Oilseed Milling	343	15,283	*	*	115	*	6	0	41
311221	Wet Corn Milling	193	6,753	*	*	51	*	5	0	8
31131	Sugar Manufacturing	68	920	1	*	17	*	1	*	4
3114	Fruit and Vegetable Preserving and Specialty Foods	134	9,720	*	*	89	*	*	0	3
3115	Dairy Products	121	10,079	*	*	80	*	*	0	1
3116	Animal Slaughtering and Processing	222	17,545	1	1	141	*	0	0	Q
312	Beverage and Tobacco Products	101	8,792	*	*	40	*	1	0	5
3121	Beverages	89	7,542	*	*	37	*	1	0	5
3122	Tobacco	12	1,250	*	*	3	*	*	0	*
313	Textile Mills	178	19,222	*	*	64	*	1	0	12
314	Textile Product Mills	72	5,880	*	*	45	*	*	0	*
315	Apparel	15	2,013	*	*	7	*	0	0	*
316	Leather and Allied Products	3	413	*	*	1	*	0	0	*
321	Wood Products	264	27,443	1	3	74	1	Q	*	54
321113	Sawmills	61	7,445	*	1	12	*	0	0	15
3212	Veneer, Plywood, and Engineered Woods	106	9,902	*	*	34	1	*	0	31
3219	Other Wood Products	87	9,732	*	1	27	*	Q	*	6
322	Paper	1,629	76,538	15	2	461	1	10	0	Q
322110	Pulp Mills	62	1,671	2	1	13	*	*	0	21
322121	Paper Mills, except Newsprint	558	25,394	8	*	169	*	6	0	125
322122	Newsprint Mills	69	9,294	*	*	8	*	1	0	12
322130	Paperboard Mills	440	23,515	5	1	138	*	3	0	108
323	Printing and Related Support	88	12,991	*	*	41	*	0	0	*
324	Petroleum and Coal Products	1,493	43,853	Q	3	872	*	5	*	307
324110	Petroleum Refineries	1,137	40,434	0	0	814	0	*	0	160
324199	Other Petroleum and Coal Products	261	557	0	*	2	*	5	*	144
325	Chemicals	4,595	156,682	13	2	1,623	496	8	*	342
325110	Petrochemicals	689	5,022	1	*	84	142	0	0	77
325120	Industrial Gases	143	20,908	0	*	61	*	0	0	9
325181	Alkalies and Chlorine	157	8,893	0	*	104	*	1	0	3
325182	Carbon Black	83	690	10	*	16	*	0	0	*
325188	Other Basic Inorganic Chemicals	210	24,096	1	*	62	W	1	*	W
325192	Cyclic Crudes and Intermediates	33	2,566	0	*	15	*	*	0	8
325193	Ethyl Alcohol	114	2,715	0	*	80	*	1	0	2
325199	Other Basic Organic Chemicals	984	22,111	*	*	369	98	3	0	102
325211	Plastics Materials and Resins	1,334	20,089	*	*	291	W	*	*	W
325212	Synthetic Rubber	44	1,558	*	*	26	*	*	0	5
325222	Noncellulosic Organic Fibers	82	4,762	*	*	40	*	*	0	14
325311	Nitrogenous Fertilizers	303	2,447	0	*	285	*	0	0	1
325312	Phosphatic Fertilizers	28	1,827	*	*	18	*	*	0	*
3254	Pharmaceuticals and Medicines	91	9,198	*	*	45	*	*	0	5
325412	Pharmaceutical Preparation	64	6,332	*	*	30	*	*	0	4
325992	Photographic Film, Paper, Plate, and Chemicals	28	1,059	*	*	7	*	1	0	Q
326	Plastics and Rubber Products	336	53,402	1	1	124	1	*	0	*
327	Nonmetallic Mineral Products	1,128	43,854	1	5	450	1	15	*	144
327211	Flat Glass	69	1,903	*	*	51	*	*	0	9
327212	Other Pressed and Blown Glass and Glassware	94	5,121	0	*	Q	*	0	0	13
327213	Glass Containers	64	3,944	0	*	49	*	0	0	*
327215	Glass Products from Purchased Glass	65	3,670	0	*	50	*	*	0	*
327310	Cements	380	12,931	*	1	19	*	11	*	68
327410	Lime	120	1,431	*	*	5	*	4	*	23
327420	Gypsum	85	1,845	*	*	74	*	0	0	2
327993	Mineral Wool	50	3,978	0	*	33	*	0	*	*
331	Primary Metals	1,910	133,236	3	1	610	1	17	9	133
331111	Iron and Steel Mills	1,218	51,206	3	1	349	*	16	8	33
331112	Electrometallurgical Ferroalloy Products	23	3,178	0	*	1	*	*	*	3
3312	Steel Products from Purchased Steel	55	4,396	0	*	26	*	*	*	13
3313	Alumina and Aluminum	302	42,998	*	*	121	*	*	0	28
331314	Secondary Smelting and Alloying of Aluminum	21	611	*	*	18	*	*	0	*
331315	Aluminum Sheet, Plate and Foils	52	3,871	0	*	36	*	0	0	2
331316	Aluminum Extruded Products	25	1,976	*	*	17	*	0	0	*

**Table 7.6 Quantity of Purchased Energy Sources, 2006;**  
 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)
3314	Nonferrous Metals, except Aluminum	148	14,683	*	*	42	*	*	*	Q
3315	Foundries	164	16,774	*	*	70	*	*	1	16
331511	Iron Foundries	84	8,563	*	*	23	*	0	1	15
331521	Aluminum Die-Casting Foundries	22	1,930	0	*	15	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	18	1,134	*	*	13	*	0	0	*
332	Fabricated Metal Products	398	41,965	*	*	234	1	0	*	Q
333	Machinery	204	32,266	*	*	82	1	*	0	1
334	Computer and Electronic Products	139	27,399	*	*	42	*	0	0	2
334413	Semiconductors and Related Devices	62	12,637	*	*	16	*	0	0	2
335	Electrical Equip., Appliances, and Components	132	12,869	0	*	40	*	*	0	Q
336	Transportation Equipment	477	57,241	1	1	239	1	*	*	15
336111	Automobiles	40	3,890	*	*	21	*	*	0	3
336112	Light Trucks and Utility Vehicles	44	4,495	*	*	24	*	*	0	2
3364	Aerospace Product and Parts	78	11,519	*	*	30	*	*	0	4
336411	Aircraft	21	3,446	*	*	8	*	0	0	*
337	Furniture and Related Products	55	9,264	*	*	16	*	*	0	2
339	Miscellaneous	66	9,677	*	*	24	*	0	0	Q
	Total	14,407	848,241	41	21	5,675	508	65	10	1,694

**Northeast Census Region**

311	Food	59	5,445	1	*	33	*	0	0	Q
3112	Grain and Oilseed Milling	4	511	*	*	2	*	0	0	*
311221	Wet Corn Milling	*	11	*	*	0	0	0	0	*
31131	Sugar Manufacturing	3	6	0	*	3	*	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Foods	7	690	*	*	3	*	0	0	Q
3115	Dairy Products	13	1,223	*	*	7	*	0	0	*
3116	Animal Slaughtering and Processing	4	586	*	*	2	*	0	0	*
312	Beverage and Tobacco Products	12	1,112	*	*	6	*	0	0	*
3121	Beverages	11	1,090	*	*	6	*	0	0	*
3122	Tobacco	1	23	*	*	*	*	0	0	*
313	Textile Mills	14	1,378	*	*	7	*	0	0	*
314	Textile Product Mills	4	447	0	*	1	*	*	0	*
315	Apparel	1	132	0	*	*	*	0	0	0
316	Leather and Allied Products	1	175	*	*	*	*	0	0	*
321	Wood Products	19	1,803	*	*	6	*	0	0	5
321113	Sawmills	6	522	*	*	Q	*	0	0	2
3212	Veneer, Plywood, and Engineered Woods	7	564	0	*	3	*	0	0	Q
3219	Other Wood Products	7	703	0	*	2	*	0	0	Q
322	Paper	171	8,319	4	*	63	*	1	0	33
322110	Pulp Mills	2	31	*	*	*	*	0	0	*
322121	Paper Mills, except Newsprint	117	4,364	3	*	39	*	1	0	27
322122	Newsprint Mills	3	305	*	*	0	*	0	0	0
322130	Paperboard Mills	21	1,159	*	*	10	*	0	0	4
323	Printing and Related Support	13	1,860	*	*	5	*	0	0	*
324	Petroleum and Coal Products	82	4,095	Q	1	45	*	*	*	1
324110	Petroleum Refineries	51	3,214	0	0	37	0	*	0	1
324199	Other Petroleum and Coal Products	9	282	0	*	*	*	*	*	*
325	Chemicals	151	11,040	1	*	64	4	1	0	11
325110	Petrochemicals	*	19	0	*	*	*	0	0	*
325120	Industrial Gases	11	2,048	0	0	2	*	0	0	2
325181	Alkalies and Chlorine	8	1,664	0	*	1	*	0	0	2
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	6	791	*	*	2	*	0	0	*
325192	Cyclic Crudes and Intermediates	5	178	0	*	4	*	0	0	*
325193	Ethyl Alcohol	*	1	0	0	*	*	0	0	0
325199	Other Basic Organic Chemicals	10	592	*	*	5	*	0	0	2
325211	Plastics Materials and Resins	27	1,078	*	*	7	4	0	0	2
325212	Synthetic Rubber	1	56	0	*	*	*	0	0	*
325222	Noncellulosic Organic Fibers	*	53	0	*	*	*	0	0	0
325311	Nitrogenous Fertilizers	1	39	0	0	1	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	39	2,984	*	*	24	*	0	0	2
325412	Pharmaceutical Preparation	30	2,006	*	*	19	*	0	0	2
325992	Photographic Film, Paper, Plate, and Chemicals	20	310	*	*	3	*	1	0	*

Table 7.6 Quantity of Purchased Energy Sources, 2006;

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)
326	Plastics and Rubber Products	49	6,856	*	*	21	Q	0	0	*
327	Nonmetallic Mineral Products	145	5,367	0	1	56	*	2	*	22
327211	Flat Glass	19	352	0	*	9	*	0	0	8
327212	Other Pressed and Blown Glass and Glassware	15	356	0	*	4	*	0	0	9
327213	Glass Containers	13	759	0	*	10	*	0	0	*
327215	Glass Products from Purchased Glass	3	374	0	*	1	*	*	0	*
327310	Cements	44	1,450	*	*	*	*	1	*	4
327410	Lime	4	77	*	*	0	*	*	0	*
327420	Gypsum	10	201	*	*	8	*	0	0	*
327993	Mineral Wool	7	395	0	*	6	*	0	*	*
331	Primary Metals	360	17,020	*	*	81	*	6	*	Q
331111	Iron and Steel Mills	248	7,566	0	*	48	*	6	*	6
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	10	644	0	*	7	*	*	*	1
3313	Alumina and Aluminum	34	5,367	*	*	12	*	0	0	2
331314	Secondary Smelting and Alloying of Aluminum	1	39	*	*	*	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	8	511	0	*	5	*	0	0	*
331316	Aluminum Extruded Products	5	270	*	*	4	*	0	0	*
3314	Nonferrous Metals, except Aluminum	Q	2,256	*	*	8	*	*	*	Q
3315	Foundries	11	1,186	*	*	6	*	0	*	*
331511	Iron Foundries	5	551	*	*	2	*	0	*	*
331521	Aluminum Die-Casting Foundries	2	137	0	*	2	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	109	*	*	1	*	0	0	*
332	Fabricated Metal Products	54	5,267	*	*	29	*	0	*	Q
333	Machinery	Q	5,066	*	*	Q	*	0	0	*
334	Computer and Electronic Products	27	4,985	*	*	9	*	0	0	*
334413	Semiconductors and Related Devices	12	2,151	*	*	4	*	0	0	*
335	Electrical Equip., Appliances, and Components	9	1,522	0	*	3	*	0	0	*
336	Transportation Equipment	62	6,703	*	*	Q	*	0	0	Q
336111	Automobiles	*	1	0	0	*	*	0	0	0
336112	Light Trucks and Utility Vehicles	*	*	0	*	0	0	0	0	0
3364	Aerospace Product and Parts	12	1,098	*	*	5	*	0	0	*
336411	Aircraft	1	204	0	*	*	*	0	0	0
337	Furniture and Related Products	5	673	*	*	2	*	0	0	*
339	Miscellaneous	23	2,622	*	*	6	*	0	0	Q
	Total	1,296	91,885	9	4	483	6	10	*	132

## Midwest Census Region

311	Food	561	30,596	2	*	256	*	6	*	39
3112	Grain and Oilseed Milling	286	11,236	*	*	89	*	5	0	34
311221	Wet Corn Milling	178	5,839	0	*	47	*	5	0	3
31131	Sugar Manufacturing	25	546	*	*	5	*	1	*	*
3114	Fruit and Vegetable Preserving and Specialty Foods	35	2,889	*	*	22	*	*	0	*
3115	Dairy Products	45	3,723	*	*	29	*	*	0	1
3116	Animal Slaughtering and Processing	108	6,846	*	*	77	*	0	0	Q
312	Beverage and Tobacco Products	20	1,488	*	*	8	*	*	0	*
3121	Beverages	20	1,471	*	*	8	*	*	0	*
3122	Tobacco	*	17	0	*	*	0	0	0	*
313	Textile Mills	Q	Q	0	0	*	*	0	0	0
314	Textile Product Mills	Q	Q	0	0	*	*	0	0	0
315	Apparel	*	48	0	0	0	0	0	0	0
316	Leather and Allied Products	1	123	0	0	1	*	0	0	*
321	Wood Products	77	7,515	*	1	28	*	Q	*	1
321113	Sawmills	3	344	0	*	1	*	0	0	*
3212	Veneer, Plywood, and Engineered Woods	13	1,149	*	*	6	*	*	0	*
3219	Other Wood Products	Q	5,976	*	Q	Q	*	Q	*	1
322	Paper	Q	14,386	1	*	74	*	3	0	Q
322110	Pulp Mills	1	160	0	*	*	*	0	0	*
322121	Paper Mills, except Newsprint	134	7,006	1	*	35	*	2	0	21
322122	Newsprint Mills	4	515	0	*	*	*	0	0	2
322130	Paperboard Mills	41	2,394	*	*	12	*	1	0	7
323	Printing and Related Support	33	5,222	0	*	15	*	0	0	*
324	Petroleum and Coal Products	230	9,107	*	*	123	*	2	0	21
324110	Petroleum Refineries	143	8,061	0	0	103	0	*	0	10
324199	Other Petroleum and Coal Products	62	40	0	*	*	*	2	0	11

Table 7.6 Quantity of Purchased Energy Sources, 2006;

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)
325	Chemicals	586	41,322	1	*	228	29	2	*	46
325110	Petrochemicals	5	276	0	*	2	*	0	0	*
325120	Industrial Gases	30	7,264	0	0	5	*	0	0	*
325181	Alkalies and Chlorine	1	209	0	*	*	*	0	0	*
325182	Carbon Black	10	62	1	*	1	*	0	0	*
325188	Other Basic Inorganic Chemicals	26	1,248	*	*	11	W	*	0	W
325192	Cyclic Crudes and Intermediates	5	193	0	*	1	*	0	0	4
325193	Ethyl Alcohol	109	2,623	0	*	78	*	1	0	1
325199	Other Basic Organic Chemicals	62	4,011	0	*	30	*	1	0	6
325211	Plastics Materials and Resins	136	3,560	0	*	19	W	*	*	W
325212	Synthetic Rubber	5	260	0	*	1	*	*	0	*
325222	Noncellulosic Organic Fibers	*	5	0	0	*	0	0	0	0
325311	Nitrogenous Fertilizers	42	544	0	*	38	*	0	0	1
325312	Phosphatic Fertilizers	*	*	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	27	2,775	0	*	9	*	*	0	2
325412	Pharmaceutical Preparation	19	2,142	0	*	5	*	*	0	2
325992	Photographic Film, Paper, Plate, and Chemicals	1	149	0	*	*	*	0	0	0
326	Plastics and Rubber Products	129	23,078	0	*	48	*	0	0	*
327	Nonmetallic Mineral Products	312	12,906	0	1	128	*	4	*	43
327211	Flat Glass	17	465	0	*	15	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	Q	Q	0	*	Q	*	0	0	Q
327213	Glass Containers	15	885	0	*	12	*	0	0	*
327215	Glass Products from Purchased Glass	9	1,708	0	*	3	*	0	0	*
327310	Cements	102	3,177	0	*	10	*	2	0	30
327410	Lime	47	459	0	*	2	*	2	*	8
327420	Gypsum	15	399	0	*	13	*	0	0	*
327993	Mineral Wool	21	1,683	0	*	14	*	0	*	*
331	Primary Metals	957	46,913	2	*	304	*	8	7	61
331111	Iron and Steel Mills	713	20,518	2	*	208	*	8	7	23
331112	Electrometallurgical Ferroalloy Products	16	2,147	0	*	1	*	*	*	3
3312	Steel Products from Purchased Steel	33	2,067	0	*	13	*	*	0	12
3313	Alumina and Aluminum	56	7,220	*	*	26	*	0	0	5
331314	Secondary Smelting and Alloying of Aluminum	11	257	0	*	10	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	15	1,178	0	*	9	*	0	0	1
331316	Aluminum Extruded Products	8	760	*	*	5	*	0	0	*
3314	Nonferrous Metals, except Aluminum	37	5,051	0	*	12	*	0	*	4
3315	Foundries	102	9,909	0	*	43	*	0	*	16
331511	Iron Foundries	55	5,345	0	*	13	*	0	*	15
331521	Aluminum Die-Casting Foundries	15	1,424	0	*	10	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	11	616	0	*	9	*	0	0	*
332	Fabricated Metal Products	184	17,626	0	*	118	1	0	0	*
333	Machinery	115	18,573	0	*	46	*	*	0	1
334	Computer and Electronic Products	24	4,232	0	*	9	*	0	0	*
334413	Semiconductors and Related Devices	3	645	0	0	1	*	0	0	*
335	Electrical Equip., Appliances, and Components	27	4,300	0	*	12	*	0	0	*
336	Transportation Equipment	276	29,726	*	*	152	1	*	*	7
336111	Automobiles	26	2,315	0	*	14	*	*	0	1
336112	Light Trucks and Utility Vehicles	27	2,468	0	*	16	*	*	0	1
3364	Aerospace Product and Parts	14	2,017	*	*	5	*	0	0	1
336411	Aircraft	5	804	0	*	2	*	0	0	*
337	Furniture and Related Products	23	2,935	0	*	10	*	*	0	*
339	Miscellaneous	17	2,719	*	*	8	*	0	0	*
	Total	4,096	273,061	7	4	1,568	33	27	8	Q

## South Census Region

311	Food	291	24,180	2	1	165	*	*	0	12
31112	Grain and Oilseed Milling	45	3,006	*	*	20	*	*	0	6
311221	Wet Corn Milling	14	885	0	*	3	*	*	0	4
31131	Sugar Manufacturing	19	143	1	*	8	*	*	0	1
3114	Fruit and Vegetable Preserving and Specialty Foods	29	2,309	*	*	18	*	0	0	1
3115	Dairy Products	11	1,399	0	*	6	*	0	0	0
3116	Animal Slaughtering and Processing	87	8,550	*	*	48	*	0	0	Q
312	Beverage and Tobacco Products	41	4,124	*	*	17	*	*	0	1
3121	Beverages	30	2,914	*	*	14	*	*	0	1

**Table 7.6 Quantity of Purchased Energy Sources, 2006;**

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)
3122	Tobacco	11	1,210	*	*	3	*	*	0	*
313	Textile Mills	160	17,653	*	*	53	*	1	0	12
314	Textile Product Mills	65	5,144	*	*	Q	*	*	0	*
315	Apparel	13	1,686	*	*	6	*	0	0	*
316	Leather and Allied Products	*	93	0	0	*	*	0	0	0
321	Wood Products	111	12,077	*	1	23	1	*	0	35
321113	Sawmills	23	3,608	*	1	2	*	0	0	5
3212	Veneer, Plywood, and Engineered Woods	70	6,140	*	*	18	*	*	0	28
3219	Other Wood Products	13	2,110	*	*	2	*	0	0	2
322	Paper	743	36,274	9	1	243	1	6	0	178
322110	Pulp Mills	55	1,277	1	1	11	*	*	0	21
322121	Paper Mills, except Newsprint	254	10,805	3	*	69	*	3	0	64
322122	Newsprint Mills	15	3,468	0	*	*	*	*	0	2
322130	Paperboard Mills	301	12,651	4	1	78	*	3	0	89
323	Printing and Related Support	37	5,002	0	*	19	*	0	0	*
324	Petroleum and Coal Products	858	23,668	0	1	490	*	1	*	233
324110	Petroleum Refineries	689	22,706	0	0	478	0	0	0	120
324199	Other Petroleum and Coal Products	147	213	0	*	1	*	1	*	113
325	Chemicals	3,743	94,950	11	1	1,284	463	4	*	274
325110	Petrochemicals	683	4,725	1	*	82	142	0	0	77
325120	Industrial Gases	93	9,514	0	*	53	*	0	0	7
325181	Alkalies and Chlorine	123	5,691	0	*	91	*	*	0	*
325182	Carbon Black	74	628	9	*	15	*	0	0	*
325188	Other Basic Inorganic Chemicals	133	18,994	1	*	38	*	*	*	19
325192	Cyclic Crudes and Intermediates	22	2,191	0	*	10	*	*	0	4
325193	Ethyl Alcohol	2	47	0	*	2	*	0	0	*
325199	Other Basic Organic Chemicals	909	17,292	*	*	333	98	2	0	93
325211	Plastics Materials and Resins	1,170	15,216	*	*	264	222	*	0	43
325212	Synthetic Rubber	38	1,223	*	*	25	*	*	0	5
325222	Noncellulosic Organic Fibers	82	4,704	*	*	39	*	*	0	14
325311	Nitrogenous Fertilizers	251	1,640	0	*	238	*	0	0	*
325312	Phosphatic Fertilizers	W	1,347	*	*	W	*	*	0	*
3254	Pharmaceuticals and Medicines	18	2,427	*	*	8	*	0	0	*
325412	Pharmaceutical Preparation	10	1,596	*	*	4	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	4	268	0	*	1	*	0	0	Q
326	Plastics and Rubber Products	140	19,701	1	*	51	*	*	0	*
327	Nonmetallic Mineral Products	491	18,986	*	2	209	Q	6	*	56
327211	Flat Glass	25	868	0	*	20	*	*	0	1
327212	Other Pressed and Blown Glass and Glassware	23	1,746	0	*	17	*	0	0	*
327213	Glass Containers	22	1,341	0	*	17	*	0	0	*
327215	Glass Products from Purchased Glass	52	1,299	0	*	Q	*	*	0	*
327310	Cements	147	5,406	*	*	5	*	5	*	17
327410	Lime	51	648	0	*	3	*	1	*	11
327420	Gypsum	35	848	0	*	31	*	0	0	*
327993	Mineral Wool	16	1,362	0	*	11	*	0	*	*
331	Primary Metals	488	57,132	1	*	180	*	2	1	15
331111	Iron and Steel Mills	224	19,830	1	*	75	*	2	1	3
331112	Electrometallurgical Ferroalloy Products	7	1,028	0	*	0	*	*	0	*
33112	Steel Products from Purchased Steel	11	1,504	0	*	5	*	*	*	*
3313	Alumina and Aluminum	179	26,290	0	*	75	*	*	0	10
331314	Secondary Smelting and Alloying of Aluminum	7	269	0	*	6	*	*	0	*
331315	Aluminum Sheet, Plate and Foils	26	1,888	0	*	19	*	0	0	*
331316	Aluminum Extruded Products	9	708	0	*	6	*	0	0	*
3314	Nonferrous Metals, except Aluminum	27	3,662	0	*	8	*	*	*	1
3315	Foundries	41	4,818	0	*	17	*	*	*	*
331511	Iron Foundries	22	2,541	0	*	7	*	0	*	*
331521	Aluminum Die-Casting Foundries	4	324	0	*	3	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	4	330	0	*	3	*	0	0	*
332	Fabricated Metal Products	125	13,937	*	*	71	1	0	0	*
333	Machinery	47	7,234	0	*	20	*	0	0	*
334	Computer and Electronic Products	34	7,593	0	*	8	*	0	0	*
334413	Semiconductors and Related Devices	15	3,277	0	*	3	*	0	0	*
335	Electrical Equip., Appliances, and Components	62	6,326	0	*	23	*	*	0	16
336	Transportation Equipment	103	15,678	*	*	38	*	*	0	4
336111	Automobiles	12	1,360	*	*	5	*	*	0	1
336112	Light Trucks and Utility Vehicles	17	2,026	*	*	9	*	0	0	1
3364	Aerospace Product and Parts	26	4,253	*	*	9	*	*	0	2
336411	Aircraft	9	1,502	*	*	3	*	0	0	*

Table 7.6 Quantity of Purchased Energy Sources, 2006;

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)
337	Furniture and Related Products	26	5,112	0	*	4	*	*	0	Q
339	Miscellaneous	19	2,720	0	*	9	*	0	0	*
	Total	7,596	379,271	24	9	2,958	467	22	2	839
<b>West Census Region</b>										
311	Food	214	13,022	*	1	132	*	1	*	9
3112	Grain and Oilseed Milling	8	530	0	*	5	*	0	0	1
311221	Wet Corn Milling	2	17	0	*	1	*	0	0	1
31131	Sugar Manufacturing	22	225	0	*	2	*	1	*	3
3114	Fruit and Vegetable Preserving and Specialty Foods	63	3,832	*	*	46	*	0	0	*
3115	Dairy Products	52	3,734	0	*	38	*	0	0	*
3116	Animal Slaughtering and Processing	22	1,563	0	*	15	*	0	0	*
312	Beverage and Tobacco Products	28	2,067	0	*	9	*	*	0	4
3121	Beverages	28	2,067	0	*	9	*	*	0	4
3122	Tobacco	0	0	0	0	0	0	0	0	0
313	Textile Mills	Q	Q	0	0	Q	*	0	0	0
314	Textile Product Mills	2	102	0	0	1	*	*	0	*
315	Apparel	1	147	0	0	*	*	0	0	0
316	Leather and Allied Products	*	22	0	*	*	*	0	0	*
321	Wood Products	58	6,049	*	*	17	*	0	0	13
321113	Sawmills	30	2,972	*	*	8	*	0	0	9
3212	Veneer, Plywood, and Engineered Woods	17	2,049	0	*	7	*	0	0	2
3219	Other Wood Products	7	943	*	*	2	*	0	0	Q
322	Paper	195	17,559	1	*	82	*	1	0	28
322110	Pulp Mills	3	203	*	*	2	*	0	0	*
322121	Paper Mills, except Newsprint	54	3,219	1	*	25	*	0	0	13
322122	Newsprint Mills	47	5,006	*	*	8	*	1	0	8
322130	Paperboard Mills	76	7,311	*	*	38	*	*	0	7
323	Printing and Related Support	5	908	0	0	2	*	0	0	0
324	Petroleum and Coal Products	322	6,983	*	Q	214	*	1	0	51
324110	Petroleum Refineries	253	6,453	0	0	195	0	0	0	30
324199	Other Petroleum and Coal Products	42	22	0	*	*	*	1	0	19
325	Chemicals	115	9,370	*	*	47	*	1	*	10
325110	Petrochemicals	*	2	0	0	*	*	0	0	0
325120	Industrial Gases	9	2,081	0	0	1	0	0	0	*
325181	Alkalies and Chlorine	25	1,329	0	*	12	*	*	0	1
325182	Carbon Black	*	*	0	0	*	0	0	0	0
325188	Other Basic Inorganic Chemicals	44	3,062	*	*	11	*	1	*	5
325192	Cyclic Crudes and Intermediates	*	5	0	0	*	*	0	0	*
325193	Ethyl Alcohol	3	44	0	*	1	*	0	0	1
325199	Other Basic Organic Chemicals	4	217	0	*	2	*	0	0	1
325211	Plastics Materials and Resins	2	234	0	*	1	*	0	0	*
325212	Synthetic Rubber	*	19	0	*	*	*	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	8	224	0	*	7	*	0	0	*
325312	Phosphatic Fertilizers	W	479	0	*	W	*	0	0	*
3254	Pharmaceuticals and Medicines	8	1,012	0	*	4	*	0	0	*
325412	Pharmaceutical Preparation	5	587	0	*	3	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	3	332	0	*	2	*	0	0	0
326	Plastics and Rubber Products	18	3,767	0	*	4	*	0	0	*
327	Nonmetallic Mineral Products	181	6,595	*	Q	57	*	3	*	23
327211	Flat Glass	8	218	*	*	6	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	1	113	0	*	1	*	0	0	*
327213	Glass Containers	14	959	0	*	10	*	0	0	*
327215	Glass Products from Purchased Glass	1	290	0	*	*	*	0	0	*
327310	Cements	87	2,897	0	*	4	*	2	*	17
327410	Lime	18	248	*	*	*	*	1	0	4
327420	Gypsum	26	397	0	*	22	*	0	0	2
327993	Mineral Wool	5	537	0	*	3	*	0	0	*
331	Primary Metals	104	12,172	0	*	45	*	*	*	13
331111	Iron and Steel Mills	33	3,292	0	*	18	*	*	*	2
331112	Electrometallurgical Ferroalloy Products	*	3	0	*	*	*	0	0	*
3312	Steel Products from Purchased Steel	1	181	0	*	1	*	0	0	*
3313	Alumina and Aluminum	33	4,122	0	*	8	*	0	0	11
331314	Secondary Smelting and Alloying of Aluminum	2	45	0	*	2	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	3	293	0	*	2	*	0	0	*
331316	Aluminum Extruded Products	4	238	0	*	3	*	0	0	*
3314	Nonferrous Metals, except Aluminum	27	3,713	0	*	14	*	0	0	*
3315	Foundries	10	861	0	*	5	*	0	*	*

**Table 7.6 Quantity of Purchased Energy Sources, 2006;**

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)
331511	Iron Foundries	3	126	0	*	1	*	0	*	*
331521	Aluminum Die-Casting Foundries	1	45	0	*	*	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	79	0	*	1	*	0	0	*
332	Fabricated Metal Products	35	5,135	0	*	16	*	0	0	*
333	Machinery	7	1,393	0	*	2	*	0	0	*
334	Computer and Electronic Products	54	10,589	0	*	16	*	0	0	1
334413	Semiconductors and Related Devices	32	6,564	0	*	8	*	0	0	1
335	Electrical Equip., Appliances, and Components	Q	720	0	*	Q	*	0	0	Q
336	Transportation Equipment	36	5,134	0	*	16	*	0	0	*
336111	Automobiles	2	214	0	*	1	*	0	0	*
336112	Light Trucks and Utility Vehicles	*	1	0	0	*	0	0	0	0
3364	Aerospace Product and Parts	26	4,151	0	*	10	*	0	0	*
336411	Aircraft	6	937	0	*	2	*	0	0	*
337	Furniture and Related Products	2	544	0	0	1	*	0	0	*
339	Miscellaneous	7	1,615	0	*	1	*	0	0	*
	Total	1,420	104,025	2	4	666	2	7	*	181

(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=Not 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, '2006 Manufacturing Energy Consumption Survey.'

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2006:

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
Total United States										
311	Food	73,242	69,485	3,757	586	114	472	27,708	15,628	12,080
3112	Grain and Oilseed Milling	15,283	14,366	917	115	15	101	17,215	13,857	3,358
311221	Wet Corn Milling	6,753	6,508	245	51	6	45	3,565	830	2,735
31131	Sugar Manufacturing	920	889	31	17	4	14	3,095	0	3,095
3114	Fruit and Vegetable Preserving and Specialty Foods	9,720	9,384	336	89	19	70	2,080	945	1,136
3115	Dairy Products	10,079	9,406	673	80	13	68	987	Q	927
3116	Animal Slaughtering and Processing	17,545	16,679	866	141	23	119	Q	0	Q
312	Beverage and Tobacco Products	8,792	7,909	883	40	7	33	4,328	Q	4,190
3121	Beverages	7,542	6,659	883	37	7	31	4,328	Q	4,190
3122	Tobacco	1,250	1,250	0	3	*	2	0	0	0
313	Textile Mills	19,222	18,914	Q	64	28	36	7,578	0	7,578
314	Textile Product Mills	5,880	5,570	310	45	Q	18	0	0	0
315	Apparel	2,013	2,003	Q	7	1	6	0	0	0
316	Leather and Allied Products	413	371	42	1	*	1	23	0	23
321	Wood Products	27,443	26,873	570	74	20	54	5,770	814	4,956
321113	Sawmills	7,445	7,238	207	12	4	Q	4,403	814	3,589
3212	Veneer, Plywood, and Engineered Woods	9,902	9,605	297	34	12	21	1,019	0	1,019
3219	Other Wood Products	9,732	9,671	61	27	4	23	348	0	348
322	Paper	76,538	72,295	4,243	461	84	378	37,601	12,118	25,483
322110	Pulp Mills	1,671	1,511	161	13	4	9	198	0	198
322121	Paper Mills, except Newsprint	25,394	22,313	3,081	169	37	131	15,790	3,244	12,546
322122	Newsprint Mills	9,294	9,268	27	8	*	8	3,259	2,378	880
322130	Paperboard Mills	23,515	23,124	391	138	29	111	16,690	6,157	10,533
323	Printing and Related Support	12,991	12,207	784	41	Q	28	Q	0	Q
324	Petroleum and Coal Products	43,853	34,075	9,777	872	157	715	109,657	4,793	104,864
324110	Petroleum Refineries	40,434	31,041	9,393	814	128	686	109,549	4,793	104,756
324199	Other Petroleum and Coal Products	557	543	14	2	1	1	0	0	0
325	Chemicals	156,682	133,668	23,014	1,623	155	1,468	168,445	24,454	143,991
325110	Petrochemicals	5,022	2,912	2,109	84	W	W	W	0	W
325120	Industrial Gases	20,908	16,873	4,035	61	1	60	2,924	0	2,924
325181	Alkalies and Chlorine	8,893	8,410	483	104	*	104	3,151	0	3,151
325182	Carbon Black	690	690	0	16	8	9	0	0	0
325188	Other Basic Inorganic Chemicals	24,096	22,875	1,221	62	2	60	17,081	865	16,217
325192	Cyclic Crudes and Intermediates	2,566	2,352	214	15	5	11	7,877	2,740	5,137
325193	Ethyl Alcohol	2,715	2,677	38	80	15	66	915	0	915
325199	Other Basic Organic Chemicals	22,111	19,080	3,031	369	31	338	49,374	10,344	39,030
325211	Plastics Materials and Resins	20,089	13,342	6,747	291	25	267	26,836	1,850	24,986
325212	Synthetic Rubber	1,558	1,497	62	26	2	23	5,012	0	5,012
325222	Noncellulosic Organic Fibers	4,762	3,977	785	40	1	39	8,611	0	8,611
325311	Nitrogenous Fertilizers	2,447	2,219	228	285	27	258	1,267	0	1,267
325312	Phosphatic Fertilizers	1,827	1,718	109	18	1	18	0	0	0
3254	Pharmaceuticals and Medicines	9,198	7,626	1,572	45	10	35	4,294	2,692	1,602
325412	Pharmaceutical Preparation	6,332	5,373	958	30	9	21	3,614	2,692	922
325992	Photographic Film, Paper, Plate, and Chemicals	1,059	908	151	7	*	6	0	0	0
326	Plastics and Rubber Products	53,402	47,322	6,079	124	38	86	0	0	0
327	Nonmetallic Mineral Products	43,854	40,361	3,493	450	60	390	1,228	0	1,228
327211	Flat Glass	1,903	1,594	308	51	3	47	0	0	0
327212	Other Pressed and Blown Glass and Glassware	5,121	5,040	81	Q	10	Q	0	0	0
327213	Glass Containers	3,944	3,330	613	49	6	43	0	0	0
327215	Glass Products from Purchased Glass	3,670	3,503	167	50	2	Q	0	0	0
327310	Cements	12,931	11,903	1,027	19	3	17	0	0	0
327410	Lime	1,431	1,431	0	5	*	5	0	0	0
327420	Gypsum	1,845	1,364	481	74	9	65	1,228	0	1,228
327993	Mineral Wool	3,978	3,805	173	33	9	25	0	0	0
331	Primary Metals	133,236	119,869	13,367	610	154	463	16,718	6,314	10,403
331111	Iron and Steel Mills	51,206	46,123	5,083	349	95	259	9,735	738	8,998
331112	Electrometallurgical Ferroalloy Products	3,178	3,178	0	1	*	1	1,368	842	526
3312	Steel Products from Purchased Steel	4,396	4,192	205	26	7	18	15	15	0
3313	Alumina and Aluminum	42,998	38,565	4,434	121	27	97	2,071	1,307	764
331314	Secondary Smelting and Alloying of Aluminum	611	599	11	18	5	12	0	0	0
331315	Aluminum Sheet, Plate and Foils	3,871	3,536	335	36	9	26	1,726	1,307	418
331316	Aluminum Extruded Products	1,976	1,860	116	17	2	14	0	0	0
3314	Nonferrous Metals, except Aluminum	14,683	11,817	2,866	42	8	33	3,413	3,413	0

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2006:

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
3315	Foundries	16,774	15,994	780	70	16	54	116	0	116
331511	Iron Foundries	8,563	8,089	475	23	7	16	116	0	116
331521	Aluminum Die-Casting Foundries	1,930	1,888	42	15	2	12	0	0	0
331524	Aluminum Foundries, except Die-Casting	1,134	1,119	15	13	2	11	0	0	0
332	Fabricated Metal Products	41,965	40,186	1,779	234	54	180	0	0	0
333	Machinery	32,266	28,711	Q	82	29	53	630	630	0
334	Computer and Electronic Products	27,399	23,401	3,998	42	13	29	51	51	0
334413	Semiconductors and Related Devices	12,637	10,362	2,275	16	6	11	51	51	0
335	Electrical Equip., Appliances, and Components	12,869	12,567	Q	40	7	34	Q	0	Q
336	Transportation Equipment	57,241	53,114	4,126	239	Q	142	Q	258	Q
336111	Automobiles	3,890	3,395	495	21	7	13	258	258	0
336112	Light Trucks and Utility Vehicles	4,495	3,711	783	24	11	14	9	0	9
3364	Aerospace Product and Parts	11,519	10,482	1,037	30	6	24	0	0	0
336411	Aircraft	3,446	3,332	115	8	1	7	0	0	0
337	Furniture and Related Products	9,264	8,944	320	16	6	10	Q	Q	133
339	Miscellaneous	9,677	8,680	997	24	5	19	0	0	0
	Total	848,241	766,526	81,715	5,675	1,070	4,614	385,286	65,839	319,448

## Northeast Census Region

311	Food	5,445	4,233	1,212	33	6	26	275	0	275
3112	Grain and Oilseed Milling	511	327	183	2	0	2	0	0	0
311221	Wet Corn Milling	11	11	0	0	0	0	0	0	0
31131	Sugar Manufacturing	6	6	0	3	3	*	14	0	14
3114	Fruit and Vegetable Preserving and Specialty Foods	690	554	136	3	*	3	146	0	146
3115	Dairy Products	1,223	955	268	7	1	6	0	0	0
3116	Animal Slaughtering and Processing	586	496	Q	2	*	2	0	0	0
312	Beverage and Tobacco Products	1,112	890	222	6	*	6	324	0	324
3121	Beverages	1,090	868	222	6	*	6	324	0	324
3122	Tobacco	23	23	0	*	*	*	0	0	0
313	Textile Mills	1,378	1,291	Q	7	Q	2	0	0	0
314	Textile Product Mills	447	375	Q	1	*	1	0	0	0
315	Apparel	132	131	Q	*	*	*	0	0	0
316	Leather and Allied Products	175	139	36	*	*	*	0	0	0
321	Wood Products	1,803	1,634	169	6	*	6	0	0	0
321113	Sawmills	522	456	66	Q	*	Q	0	0	0
3212	Veneer, Plywood, and Engineered Woods	564	488	76	3	0	3	0	0	0
3219	Other Wood Products	703	676	Q	2	*	2	0	0	0
322	Paper	8,319	5,122	3,197	63	6	56	16,788	844	15,944
322110	Pulp Mills	31	31	0	*	*	0	0	0	0
322121	Paper Mills, except Newsprint	4,364	1,551	2,812	39	1	38	11,541	420	11,120
322122	Newsprint Mills	305	305	0	0	0	0	0	0	0
322130	Paperboard Mills	1,159	1,020	139	10	5	5	4,426	424	4,001
323	Printing and Related Support	1,860	1,849	Q	5	1	5	Q	0	Q
324	Petroleum and Coal Products	4,095	3,046	1,049	45	10	35	1,297	0	1,297
324110	Petroleum Refineries	3,214	2,286	928	37	8	29	1,219	0	1,219
324199	Other Petroleum and Coal Products	282	282	0	*	*	0	0	0	0
325	Chemicals	11,040	8,239	2,801	64	14	50	10,474	1,493	8,981
325110	Petrochemicals	19	19	0	*	*	0	0	0	0
325120	Industrial Gases	2,048	1,312	736	2	*	1	2,132	0	2,132
325181	Alkalies and Chlorine	1,664	1,664	0	1	*	1	2,060	0	2,060
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	791	632	159	2	*	2	166	166	0
325192	Cyclic Crudes and Intermediates	178	166	12	4	2	3	291	0	291
325193	Ethyl Alcohol	1	1	0	*	0	*	0	0	0
325199	Other Basic Organic Chemicals	592	412	179	5	*	4	1,883	0	1,883
325211	Plastics Materials and Resins	1,078	759	320	7	1	6	1,635	537	1,098
325212	Synthetic Rubber	56	55	1	*	*	*	318	0	318
325222	Noncellulosic Organic Fibers	53	36	17	*	0	*	0	0	0
325311	Nitrogenous Fertilizers	39	34	5	1	1	*	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	2,984	2,121	863	24	6	18	1,990	791	1,199
325412	Pharmaceutical Preparation	2,006	1,515	491	19	6	13	1,624	791	833
325992	Photographic Film, Paper, Plate, and Chemicals	310	186	124	3	*	3	0	0	0
326	Plastics and Rubber Products	6,856	4,736	2,120	21	1	20	0	0	0

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2006:

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
327	Nonmetallic Mineral Products	5,367	4,437	929	56	12	44	0	0	0
327211	Flat Glass	352	300	52	9	0	9	0	0	0
327212	Other Pressed and Blown Glass and Glassware	356	275	81	4	*	4	0	0	0
327213	Glass Containers	759	558	201	10	4	6	0	0	0
327215	Glass Products from Purchased Glass	374	355	18	1	1	*	0	0	0
327310	Cements	1,450	1,275	176	*	*	*	0	0	0
327410	Lime	77	77	0	0	0	0	0	0	0
327420	Gypsum	201	66	135	8	2	7	0	0	0
327993	Mineral Wool	395	388	Q	6	*	6	0	0	0
331	Primary Metals	17,020	15,267	1,752	81	12	71	661	0	661
331111	Iron and Steel Mills	7,566	6,549	1,018	48	4	44	243	0	243
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	644	603	42	7	Q	6	0	0	0
3313	Alumina and Aluminum	5,367	5,278	89	12	5	9	418	0	418
331314	Secondary Smelting and Alloying of Aluminum	39	39	1	*	*	*	0	0	0
331315	Aluminum Sheet, Plate and Foils	511	492	19	5	*	5	418	0	418
331316	Aluminum Extruded Products	270	214	56	4	*	4	0	0	0
3314	Nonferrous Metals, except Aluminum	2,256	1,743	514	8	Q	7	0	0	0
3315	Foundries	1,186	1,095	91	6	1	5	0	0	0
331511	Iron Foundries	551	510	41	2	*	2	0	0	0
331521	Aluminum Die-Casting Foundries	137	130	7	2	*	2	0	0	0
331524	Aluminum Foundries, except Die-Casting	109	108	Q	1	*	*	0	0	0
332	Fabricated Metal Products	5,267	4,916	Q	29	2	27	0	0	0
333	Machinery	5,066	2,730	Q	Q	1	Q	0	0	0
334	Computer and Electronic Products	4,985	3,475	1,510	9	2	6	51	51	0
334413	Semiconductors and Related Devices	2,151	1,419	732	4	1	3	51	51	0
335	Electrical Equip., Appliances, and Components	1,522	1,441	Q	3	1	3	0	0	0
336	Transportation Equipment	6,703	Q	Q	Q	3	Q	Q	0	Q
336111	Automobiles	1	1	0	*	*	*	0	0	0
336112	Light Trucks and Utility Vehicles	*	*	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	1,098	912	186	5	3	2	0	0	0
336411	Aircraft	204	196	7	*	*	0	0	0	0
337	Furniture and Related Products	673	532	Q	2	Q	Q	0	0	0
339	Miscellaneous	2,622	2,160	Q	6	2	4	0	0	0
	Total	91,885	72,278	19,607	483	79	407	32,724	2,389	30,335

## Midwest Census Region

311	Food	30,596	29,160	1,436	256	34	222	20,010	13,570	6,440
3112	Grain and Oilseed Milling	11,236	10,563	674	89	9	80	15,848	13,479	2,369
311221	Wet Corn Milling	5,839	5,594	245	47	4	43	2,575	830	1,745
31131	Sugar Manufacturing	546	546	0	5	0	5	127	0	127
3114	Fruit and Vegetable Preserving and Specialty Foods	2,889	2,838	51	22	2	20	0	0	0
3115	Dairy Products	3,723	3,627	96	29	6	24	691	Q	631
3116	Animal Slaughtering and Processing	6,846	6,375	Q	77	9	67	Q	0	Q
312	Beverage and Tobacco Products	1,488	1,416	72	8	2	6	Q	Q	0
3121	Beverages	1,471	1,399	72	8	2	6	Q	Q	0
3122	Tobacco	17	17	0	*	0	*	0	0	0
313	Textile Mills	Q	Q	0	*	*	*	0	0	0
314	Textile Product Mills	Q	Q	Q	*	*	*	0	0	0
315	Apparel	48	48	0	*	*	*	0	0	0
316	Leather and Allied Products	123	118	5	1	*	1	23	0	23
321	Wood Products	7,515	7,511	Q	28	4	24	287	0	287
321113	Sawmills	344	343	Q	1	1	*	0	0	0
3212	Veneer, Plywood, and Engineered Woods	1,149	1,149	0	6	2	3	0	0	0
3219	Other Wood Products	5,976	5,974	Q	Q	1	Q	287	0	287
322	Paper	14,386	14,204	183	74	12	63	12,301	7,740	4,561
322110	Pulp Mills	160	160	0	*	*	*	198	0	198
322121	Paper Mills, except Newsprint	7,006	6,862	144	35	7	29	2,716	2,319	397
322122	Newsprint Mills	515	515	0	*	*	*	2,378	2,378	0
322130	Paperboard Mills	2,394	2,394	0	12	*	13	6,166	2,704	3,462
323	Printing and Related Support	5,222	5,053	Q	15	2	13	0	0	0
324	Petroleum and Coal Products	9,107	8,179	928	123	37	86	7,184	3,750	3,435
324110	Petroleum Refineries	8,061	7,145	915	103	25	78	7,184	3,750	3,435
324199	Other Petroleum and Coal Products	40	40	0	*	*	*	0	0	0

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2006:

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
325	Chemicals	41,322	37,699	3,623	228	30	198	26,851	4,328	22,523
325110	Petrochemicals	276	276	0	2	0	2	0	0	0
325120	Industrial Gases	7,264	6,944	320	5	*	5	0	0	0
325181	Alkalies and Chlorine	209	209	0	*	*	*	0	0	0
325182	Carbon Black	62	62	0	1	1	*	0	0	0
325188	Other Basic Inorganic Chemicals	1,248	1,169	80	11	1	11	1,754	0	1,754
325192	Cyclic Crudes and Intermediates	193	193	0	1	0	1	3,724	0	3,724
325193	Ethyl Alcohol	2,623	2,591	32	78	15	63	0	0	0
325199	Other Basic Organic Chemicals	4,011	3,393	617	30	5	25	5,921	177	5,744
325211	Plastics Materials and Resins	3,560	2,890	670	19	1	18	3,285	995	2,290
325212	Synthetic Rubber	260	260	0	1	*	1	0	0	0
325222	Noncellulosic Organic Fibers	5	5	0	*	0	*	0	0	0
325311	Nitrogenous Fertilizers	544	341	204	38	*	38	1,250	0	1,250
325312	Phosphatic Fertilizers	*	*	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	2,775	2,574	202	9	1	8	1,990	1,901	89
325412	Pharmaceutical Preparation	2,142	2,043	99	5	1	4	1,990	1,901	89
325992	Photographic Film, Paper, Plate, and Chemicals	149	149	Q	*	*	*	0	0	0
326	Plastics and Rubber Products	23,078	21,849	Q	48	20	28	0	0	0
327	Nonmetallic Mineral Products	12,906	12,334	572	128	10	118	0	0	0
327211	Flat Glass	465	465	0	15	*	15	0	0	0
327212	Other Pressed and Blown Glass and Glassware	Q	Q	0	Q	*	Q	0	0	0
327213	Glass Containers	885	610	275	12	1	11	0	0	0
327215	Glass Products from Purchased Glass	1,708	1,576	132	3	*	2	0	0	0
327310	Cements	3,177	3,108	69	10	*	9	0	0	0
327410	Lime	459	459	0	2	*	2	0	0	0
327420	Gypsum	399	345	55	13	1	12	0	0	0
327993	Mineral Wool	1,683	1,682	2	14	4	10	0	0	0
331	Primary Metals	46,913	42,053	4,860	304	101	207	15,050	5,654	9,396
331111	Iron and Steel Mills	20,518	18,631	1,887	208	82	131	8,847	92	8,754
331112	Electrometallurgical Ferroalloy Products	2,147	2,147	0	1	*	1	1,368	842	526
3312	Steel Products from Purchased Steel	2,067	1,966	101	13	5	8	0	0	0
3313	Alumina and Aluminum	7,220	4,887	2,333	26	4	22	1,307	1,307	0
331314	Secondary Smelting and Alloying of Aluminum	257	250	8	10	3	7	0	0	0
331315	Aluminum Sheet, Plate and Foils	1,178	1,154	24	9	1	9	1,307	1,307	0
331316	Aluminum Extruded Products	760	753	6	5	1	4	0	0	0
3314	Nonferrous Metals, except Aluminum	5,051	4,755	296	12	4	8	3,413	3,413	0
3315	Foundries	9,909	9,666	243	43	6	37	116	0	116
331511	Iron Foundries	5,345	5,319	Q	13	2	11	116	0	116
331521	Aluminum Die-Casting Foundries	1,424	1,399	25	10	1	9	0	0	0
331524	Aluminum Foundries, except Die-Casting	616	608	8	9	1	8	0	0	0
332	Fabricated Metal Products	17,626	16,866	Q	118	31	87	0	0	0
333	Machinery	18,573	17,893	680	46	Q	29	630	630	0
334	Computer and Electronic Products	4,232	4,232	0	9	Q	7	0	0	0
334413	Semiconductors and Related Devices	645	645	0	1	*	1	0	0	0
335	Electrical Equip., Appliances, and Components	4,300	4,102	Q	12	4	8	0	0	0
336	Transportation Equipment	29,726	28,364	1,362	152	Q	75	Q	258	Q
336111	Automobiles	2,315	1,837	477	14	5	9	258	258	0
336112	Light Trucks and Utility Vehicles	2,468	2,288	180	16	7	9	9	0	9
3364	Aerospace Product and Parts	2,017	2,005	12	5	1	5	0	0	0
336411	Aircraft	804	804	0	2	*	2	0	0	0
337	Furniture and Related Products	2,935	2,763	173	10	3	7	133	0	133
339	Miscellaneous	2,719	2,560	Q	8	2	6	0	0	0
	Total	273,061	256,640	16,421	1,568	389	1,186	84,368	36,069	48,299

## South Census Region

311	Food	24,180	23,513	666	165	41	124	2,059	2,059	0
3112	Grain and Oilseed Milling	3,006	2,946	60	20	5	15	377	377	0
311221	Wet Corn Milling	885	885	0	3	1	1	0	0	0
31131	Sugar Manufacturing	143	112	31	8	*	8	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	2,309	2,219	89	18	5	13	945	945	0
3115	Dairy Products	1,399	1,399	0	6	3	3	0	0	0
3116	Animal Slaughtering and Processing	8,550	8,245	305	48	6	43	0	0	0
312	Beverage and Tobacco Products	4,124	3,870	255	17	3	14	0	0	0
3121	Beverages	2,914	2,660	255	14	3	11	0	0	0

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2006:

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
3122	Tobacco	1,210	1,210	0	3	*	2	0	0	0
313	Textile Mills	17,653	17,457	Q	53	Q	33	7,578	0	7,578
314	Textile Product Mills	5,144	4,943	Q	Q	Q	16	0	0	0
315	Apparel	1,686	1,677	Q	6	1	6	0	0	0
316	Leather and Allied Products	93	93	0	*	0	*	0	0	0
321	Wood Products	12,077	11,934	143	23	10	14	3,341	814	2,527
321113	Sawmills	3,608	3,534	74	2	1	2	3,162	814	2,348
3212	Veneer, Plywood, and Engineered Woods	6,140	6,083	56	18	7	11	179	0	179
3219	Other Wood Products	2,110	2,101	Q	2	Q	1	0	0	0
322	Paper	36,274	35,629	645	243	44	198	6,954	2,626	4,328
322110	Pulp Mills	1,277	1,277	0	11	3	8	0	0	0
322121	Paper Mills, except Newsprint	10,805	10,683	122	69	20	49	378	0	378
322122	Newsprint Mills	3,468	3,441	27	*	0	*	880	0	880
322130	Paperboard Mills	12,651	12,455	196	78	16	62	5,696	2,626	3,070
323	Printing and Related Support	5,002	4,398	Q	19	Q	9	0	0	0
324	Petroleum and Coal Products	23,668	17,667	6,001	490	69	421	81,417	1,043	80,374
324110	Petroleum Refineries	22,706	16,956	5,750	478	67	411	81,387	1,043	80,344
324199	Other Petroleum and Coal Products	213	198	14	1	*	1	0	0	0
325	Chemicals	94,950	79,546	15,404	1,284	106	1,178	127,818	18,633	109,185
325110	Petrochemicals	4,725	2,616	2,109	82	W	W	0	0	W
325120	Industrial Gases	9,514	6,686	2,828	53	*	53	792	0	792
325181	Alkalies and Chlorine	5,691	5,674	18	91	*	91	0	0	0
325182	Carbon Black	628	628	0	15	7	8	0	0	0
325188	Other Basic Inorganic Chemicals	18,994	18,159	835	38	1	37	15,008	699	14,309
325192	Cyclic Crudes and Intermediates	2,191	1,988	202	10	3	7	3,862	2,740	1,122
325193	Ethyl Alcohol	47	41	6	2	*	2	0	0	0
325199	Other Basic Organic Chemicals	17,292	15,155	2,137	333	25	308	40,428	10,167	30,261
325211	Plastics Materials and Resins	15,216	9,515	5,702	264	22	242	21,916	318	21,598
325212	Synthetic Rubber	1,223	1,163	61	25	2	22	4,693	0	4,693
325222	Noncellulosic Organic Fibers	4,704	3,936	769	39	1	38	8,611	0	8,611
325311	Nitrogenous Fertilizers	1,640	1,621	19	238	25	213	17	0	17
325312	Phosphatic Fertilizers	1,347	1,238	109	W	*	W	0	0	0
3254	Pharmaceuticals and Medicines	2,427	2,189	239	8	2	6	314	0	314
325412	Pharmaceutical Preparation	1,596	1,416	180	4	2	2	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	268	241	Q	1	*	1	0	0	0
326	Plastics and Rubber Products	19,701	17,248	2,453	51	16	35	0	0	0
327	Nonmetallic Mineral Products	18,986	18,146	840	209	28	181	0	0	0
327211	Flat Glass	868	678	190	20	1	19	0	0	0
327212	Other Pressed and Blown Glass and Glassware	1,746	1,746	0	17	10	7	0	0	0
327213	Glass Containers	1,341	1,203	138	17	2	15	0	0	0
327215	Glass Products from Purchased Glass	1,299	1,293	Q	Q	1	Q	0	0	0
327310	Cements	5,406	5,406	0	5	2	3	0	0	0
327410	Lime	648	648	0	3	*	3	0	0	0
327420	Gypsum	848	685	163	31	3	28	0	0	0
327993	Mineral Wool	1,362	1,362	0	11	4	7	0	0	0
331	Primary Metals	57,132	54,025	3,106	180	37	144	360	15	345
331111	Iron and Steel Mills	19,830	18,638	1,192	75	9	67	0	0	0
331112	Electrometallurgical Ferroalloy Products	1,028	1,028	0	*	0	*	0	0	0
3312	Steel Products from Purchased Steel	1,504	1,487	Q	5	1	4	15	15	0
3313	Alumina and Aluminum	26,290	25,941	349	75	17	59	345	0	345
331314	Secondary Smelting and Alloying of Aluminum	269	269	*	6	2	3	0	0	0
331315	Aluminum Sheet, Plate and Foils	1,888	1,598	290	19	9	10	0	0	0
331316	Aluminum Extruded Products	708	654	54	6	1	4	0	0	0
3314	Nonferrous Metals, except Aluminum	3,662	2,555	1,107	8	2	6	0	0	0
3315	Foundries	4,818	4,377	441	17	8	9	0	0	0
331511	Iron Foundries	2,541	2,138	403	7	5	2	0	0	0
331521	Aluminum Die-Casting Foundries	324	313	10	3	1	2	0	0	0
331524	Aluminum Foundries, except Die-Casting	330	323	6	3	1	2	0	0	0
332	Fabricated Metal Products	13,937	13,762	Q	71	16	55	0	0	0
333	Machinery	7,234	7,127	Q	20	10	10	0	0	0
334	Computer and Electronic Products	7,593	5,802	1,791	8	1	6	0	0	0
334413	Semiconductors and Related Devices	3,277	1,798	1,479	3	1	3	0	0	0
335	Electrical Equip., Appliances, and Components	6,326	6,303	Q	23	2	21	0	0	0
336	Transportation Equipment	15,678	14,613	1,064	38	14	24	0	0	0
336111	Automobiles	1,360	1,360	0	5	2	3	0	0	0
336112	Light Trucks and Utility Vehicles	2,026	1,422	604	9	4	4	0	0	0

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2006:

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
3364	Aerospace Product and Parts	4,253	4,027	226	9	1	8	0	0	0
336411	Aircraft	1,502	1,502	0	3	*	3	0	0	0
337	Furniture and Related Products	5,112	5,105	Q	4	2	1	Q	Q	0
339	Miscellaneous	2,720	2,554	Q	9	Q	Q	0	0	0
	Total	379,271	345,412	33,859	2,958	459	2,498	230,165	25,829	204,336
West Census Region										
311	Food	13,022	12,579	443	132	32	100	5,365	0	5,365
3112	Grain and Oilseed Milling	530	530	0	5	1	4	990	0	990
311221	Wet Corn Milling	17	17	0	1	*	1	990	0	990
31131	Sugar Manufacturing	225	225	0	2	1	1	2,953	0	2,953
3114	Fruit and Vegetable Preserving and Specialty Foods	3,832	3,773	Q	46	12	34	989	0	989
3115	Dairy Products	3,734	3,425	309	38	3	35	296	0	296
3116	Animal Slaughtering and Processing	1,563	1,563	0	15	Q	7	137	0	137
312	Beverage and Tobacco Products	2,067	1,733	334	9	1	8	3,866	0	3,866
3121	Beverages	2,067	1,733	334	9	1	8	3,866	0	3,866
3122	Tobacco	0	0	0	0	0	0	0	0	0
313	Textile Mills	Q	Q	Q	Q	Q	*	0	0	0
314	Textile Product Mills	102	74	Q	1	1	Q	0	0	0
315	Apparel	147	147	0	*	*	*	0	0	0
316	Leather and Allied Products	22	21	Q	*	*	*	0	0	0
321	Wood Products	6,049	5,794	255	17	6	11	2,143	0	2,143
321113	Sawmills	2,972	2,905	67	8	2	Q	1,242	0	1,242
3212	Veneer, Plywood, and Engineered Woods	2,049	1,884	165	7	3	4	840	0	840
3219	Other Wood Products	943	920	23	2	1	1	Q	0	Q
322	Paper	17,559	17,340	219	82	21	61	1,558	907	651
322110	Pulp Mills	203	42	161	2	1	1	0	0	0
322121	Paper Mills, except Newsprint	3,219	3,217	2	25	9	16	1,156	505	651
322122	Newsprint Mills	5,006	5,006	0	8	0	8	0	0	0
322130	Paperboard Mills	7,311	7,255	56	38	8	30	402	402	0
323	Printing and Related Support	908	908	0	2	*	Q	0	0	0
324	Petroleum and Coal Products	6,983	5,184	1,799	214	42	172	19,758	0	19,758
324110	Petroleum Refineries	6,453	4,654	1,799	195	28	168	19,758	0	19,758
324199	Other Petroleum and Coal Products	22	22	0	*	*	*	0	0	0
325	Chemicals	9,370	8,184	1,186	47	6	41	3,302	0	3,302
325110	Petrochemicals	2	2	0	*	0	*	0	0	0
325120	Industrial Gases	2,081	1,931	151	1	1	1	0	0	0
325181	Alkalies and Chlorine	1,329	864	466	12	0	12	1,091	0	1,091
325182	Carbon Black	*	*	0	*	0	*	0	0	0
325188	Other Basic Inorganic Chemicals	3,062	2,915	147	11	1	10	154	0	154
325192	Cyclic Crudes and Intermediates	5	5	0	*	*	*	0	0	0
325193	Ethyl Alcohol	44	44	0	1	0	1	915	0	915
325199	Other Basic Organic Chemicals	217	120	97	2	1	1	1,142	0	1,142
325211	Plastics Materials and Resins	234	178	56	1	*	1	0	0	0
325212	Synthetic Rubber	19	19	0	*	*	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	224	224	0	7	*	7	0	0	0
325312	Phosphatic Fertilizers	479	479	0	W	1	W	0	0	0
3254	Pharmaceuticals and Medicines	1,012	743	269	4	*	4	0	0	0
325412	Pharmaceutical Preparation	587	399	188	3	*	2	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	332	332	0	2	*	2	0	0	0
326	Plastics and Rubber Products	3,767	3,490	Q	4	2	3	0	0	0
327	Nonmetallic Mineral Products	6,595	5,444	1,151	57	11	46	1,228	0	1,228
327211	Flat Glass	218	152	66	6	2	4	0	0	0
327212	Other Pressed and Blown Glass and Glassware	113	113	0	1	*	1	0	0	0
327213	Glass Containers	959	959	0	10	0	10	0	0	0
327215	Glass Products from Purchased Glass	290	279	11	*	*	*	0	0	0
327310	Cements	2,897	2,115	782	4	*	4	0	0	0
327410	Lime	248	248	0	*	*	*	0	0	0
327420	Gypsum	397	269	128	22	3	19	1,228	0	1,228
327993	Mineral Wool	537	373	164	3	1	2	0	0	0
331	Primary Metals	12,172	8,523	3,649	45	4	41	645	645	0
331111	Iron and Steel Mills	3,292	2,306	986	18	*	18	645	645	0
331112	Electrometallurgical Ferroalloy Products	3	3	0	*	0	*	0	0	0

Table 7.7 Quantity of Purchased Electricity, Natural Gas, and Steam, 2006:

Level: National and Regional Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Physical Units or Btu.

NAICS Code(a)	Subsector and Industry	Electricity Components			Natural Gas Components			Steam Components		
		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)
3312	Steel Products from Purchased Steel	181	136	45	1	*	1	0	0	0
3313	Alumina and Aluminum	4,122	2,459	1,663	8	1	7	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	45	42	3	2	*	1	0	0	0
331315	Aluminum Sheet, Plate and Foils	293	292	2	2	0	2	0	0	0
331316	Aluminum Extruded Products	238	238	0	3	*	2	0	0	0
3314	Nonferrous Metals, except Aluminum	3,713	2,764	950	14	2	12	0	0	0
3315	Foundries	861	856	5	5	2	4	0	0	0
331511	Iron Foundries	126	121	5	1	*	1	0	0	0
331521	Aluminum Die-Casting Foundries	45	45	0	*	*	*	0	0	0
331524	Aluminum Foundries, except Die-Casting	79	79	0	1	*	*	0	0	0
332	Fabricated Metal Products	5,135	4,642	Q	16	5	11	0	0	0
333	Machinery	1,393	961	Q	2	1	Q	0	0	0
334	Computer and Electronic Products	10,589	9,892	697	16	6	10	0	0	0
334413	Semiconductors and Related Devices	6,564	6,500	64	8	4	4	0	0	0
335	Electrical Equip., Appliances, and Components	720	720	0	Q	*	Q	Q	0	Q
336	Transportation Equipment	5,134	4,503	631	16	3	14	0	0	0
336111	Automobiles	214	197	17	1	*	1	0	0	0
336112	Light Trucks and Utility Vehicles	1	1	0	*	*	*	0	0	0
3364	Aerospace Product and Parts	4,151	3,537	614	10	1	9	0	0	0
336411	Aircraft	937	829	108	2	*	2	0	0	0
337	Furniture and Related Products	544	544	0	1	*	*	0	0	0
339	Miscellaneous	1,615	1,407	Q	1	*	1	0	0	0
	Total	104,025	92,196	11,829	666	143	523	38,029	1,552	36,477

(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, '2006 Manufacturing Energy Consumption Survey.'

Table 7.8 Number of Establishments by Quantity of Purchased Electricity, Natural Gas, and Steam, 2006:

Level: National Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Electricity				Natural				Steam			
		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 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	
Total United States													
311	Food	14,109	13,576	351	182	11,369	4,473	6,896	0	101	48	53	0
3112	Grain and Oilseed Milling	580	553	22	5	448	105	343	0	39	33	6	0
311221	Wet Corn Milling	47	W	0	W	44	4	39	0	4	W	W	0
31131	Sugar Manufacturing	78	74	4	0	61	17	45	0	6	0	6	0
3114	Fruit and Vegetable Preserving and Specialty Foods	1,125	1,074	Q	10	961	247	714	0	10	3	7	0
3115	Dairy Products	1,044	954	54	36	941	301	639	0	12	5	6	0
3116	Animal Slaughtering and Processing	1,715	1,621	61	Q	1,513	558	955	0	Q	0	Q	0
312	Beverage and Tobacco Products	1,830	1,713	38	79	957	488	470	0	Q	W	W	0
3121	Beverages	1,758	1,641	38	79	900	462	438	0	Q	W	W	0
3122	Tobacco	72	72	0	0	57	26	31	0	0	0	0	0
313	Textile Mills	1,966	1,869	Q	Q	1,532	W	943	W	W	0	W	0
314	Textile Product Mills	3,292	3,131	W	W	1,925	1,190	735	0	0	0	0	0
315	Apparel	5,499	5,297	203	0	2,977	1,268	1,709	0	0	0	0	0
316	Leather and Allied Products	687	649	Q	0	392	W	216	W	W	0	W	0
321	Wood Products	10,724	10,554	104	66	4,305	W	2,444	W	30	6	24	0
321113	Sawmills	2,267	2,227	17	24	409	209	200	0	18	6	13	0
3212	Veneer, Plywood, and Engineered Woods	1,462	1,450	6	6	806	421	385	0	8	0	8	0
3219	Other Wood Products	6,642	6,525	80	37	2,908	1,158	1,750	0	4	0	4	0
322	Paper	3,926	3,726	163	37	3,215	W	2,002	W	70	22	49	0
322110	Pulp Mills	32	W	0	W	27	9	18	0	W	0	W	0
322121	Paper Mills, except Newsprint	287	245	30	11	241	63	178	0	21	6	16	0
322122	Newsprint Mills	20	W	0	W	14	W	W	0	3	W	W	0
322130	Paperboard Mills	200	186	W	W	176	W	141	W	17	7	10	0
323	Printing and Related Support	18,744	17,976	507	Q	12,825	6,129	6,697	0	W	0	W	0
324	Petroleum and Coal Products	1,812	1,682	89	41	995	305	690	0	50	4	46	0
324110	Petroleum Refineries	209	177	22	10	200	42	158	0	44	4	39	0
324199	Other Petroleum and Coal Products	47	W	0	W	40	24	16	0	0	0	0	0
325	Chemicals	8,605	7,790	637	177	6,429	2,530	3,895	4	226	W	170	W
325110	Petrochemicals	45	36	W	W	36	8	28	0	4	0	4	0
325120	Industrial Gases	560	436	107	17	255	92	162	0	W	0	W	0
325181	Alkalies and Chlorine	31	W	W	0	26	4	22	0	W	0	W	0
325182	Carbon Black	24	24	0	0	24	8	16	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	473	408	57	Q	328	W	230	W	12	W	W	0
325192	Cyclic Crudes and Intermediates	25	22	W	W	24	8	16	0	5	W	W	0
325193	Ethyl Alcohol	65	W	W	0	64	14	50	0	W	0	W	0
325199	Other Basic Organic Chemicals	483	423	48	13	421	W	320	W	45	5	40	0
325211	Plastics Materials and Resins	554	471	57	26	511	162	350	0	63	6	56	0
325212	Synthetic Rubber	89	85	W	W	70	38	32	0	8	0	8	0
325222	Noncellulosic Organic Fibers	77	64	W	W	63	21	42	0	10	0	10	0
325311	Nitrogenous Fertilizers	64	57	W	W	46	10	36	0	4	0	4	0
325312	Phosphate Fertilizers	32	W	W	0	25	4	21	0	0	0	0	0
3254	Pharmaceuticals and Medicines	1,123	1,045	50	28	679	302	577	0	18	W	10	W
325412	Pharmaceutical Preparation	580	528	38	14	452	154	298	0	11	W	3	W
325992	Photographic Film, Paper, Plate, and Chemicals	143	126	5	12	107	29	78	0	0	0	0	0
326	Plastics and Rubber Products	9,823	9,400	227	195	7,669	3,792	3,677	0	0	0	0	0
327	Nonmetallic Mineral Products	11,914	11,564	333	18	6,449	2,373	4,076	0	W	0	W	0
327211	Flat Glass	42	36	W	W	41	9	32	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	157	153	4	0	113	39	74	0	0	0	0	0
327213	Glass Containers	55	43	W	W	55	8	47	0	0	0	0	0
327215	Glass Products from Purchased Glass	768	749	14	Q	495	273	222	0	0	0	0	0
327310	Cements	188	178	6	4	93	20	74	0	0	0	0	0
327410	Lime	62	62	0	0	40	13	27	0	0	0	0	0
327420	Gypsum	145	116	29	0	112	35	77	0	W	0	W	0
327993	Mineral Wool	188	178	W	W	156	56	101	0	0	0	0	0
331	Primary Metals	3,270	3,093	128	49	2,916	W	1,820	W	27	9	18	0
331111	Iron and Steel Mills	347	321	18	7	300	84	216	0	14	W	W	0
331112	Electrometallurgical Ferroalloy Products	18	18	0	0	18	W	W	0	5	W	W	0
3312	Steel Products from Purchased Steel	446	413	29	4	394	154	241	0	W	W	0	0
3313	Alumina and Aluminum	384	352	18	14	362	120	242	0	4	W	W	0
331314	Secondary Smelting and Alloying of Aluminum	97	89	4	4	90	31	60	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	56	51	W	W	54	15	39	0	W	W	W	0
3314	Nonferrous Metals, except Aluminum	574	540	20	Q	453	167	285	0	W	W	W	0
3315	Foundries	1,502	1,449	42	10	1,389	567	W	W	W	0	W	0
331511	Iron Foundries	379	355	21	4	333	154	178	0	W	0	W	0
331521	Aluminum Die-Casting Foundries	184	177	W	W	171	52	119	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	309	298	7	Q	279	95	183	0	0	0	0	0
332	Fabricated Metal Products	35,520	34,111	795	614	25,070	10,826	14,244	0	0	0	0	0
333	Machinery	16,218	15,430	468	320	12,891	6,767	6,124	0	W	W	0	0
334	Computer and Electronic Products	8,188	8,002	141	Q	5,323	2,751	2,572	0	W	W	0	0
334413	Semiconductors and Related Devices	522	498	21	3	462	232	230	0	W	W	0	0
335	Electrical Equip., Appliances, and Components	3,596	3,376	182	Q	2,818	1,134	1,684	0	W	0	W	0
336	Transportation Equipment	7,024	6,780	163	81	5,434	2,709	2,725	0	10	W	W	0
336111	Automobiles	77	72	W	W	68	31	37	0	W	W	0	0
336112	Light Trucks and Utility Vehicles	47	41	6	0	42	18	24	0	W	0	W	0
33624	Aerospace Product and Parts	910	870	24	17	671	228	444	0	0	0	0	0
336411	Aircraft	105	99	W	W	78	32	46	0	0	0	0	0
337	Furniture and Related Products	11,368	11,168	Q	0	6,753	3,208	3,546	0	5	W	W	0
339	Miscellaneous	15,702	15,047	W	W	9,609	3,926	5,684	0	0	0	0	0
	Total	193,818	185,935	5,478	2,405	131,853	58,788	73,045	20	576	W	397	W

Table 7.8 Number of Establishments by Quantity of Purchased Electricity, Natural Gas, and Steam, 2006:

Level: National Data;

Row: NAICS Codes;

Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;

Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Electricity Components				Natural Gas Components				Steam Components			
		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

(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 2006.

(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, '2006 Manufacturing Energy Consumption Survey.'

**Table 7.9 Expenditures for Purchased Energy Sources, 2006;**

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)
<b>Total United States</b>										
311	Food	10,365	4,692	W	294	4,543	56	316	9	W
3112	Grain and Oilseed Milling	2,152	790	13	7	993	Q	243	0	100
311221	Wet Corn Milling	968	297	1	3	432	*	203	0	31
31131	Sugar Manufacturing	388	54	77	12	149	1	65	9	22
3114	Fruit and Vegetable Preserving and Specialty Foods	1,465	656	22	16	742	10	3	0	16
3115	Dairy Products	1,332	728	11	24	559	2	1	0	7
3116	Animal Slaughtering and Processing	2,205	1,114	29	89	931	14	0	0	Q
312	Beverage and Tobacco Products	1,199	659	W	24	383	18	61	0	W
3121	Beverages	1,080	594	W	21	354	18	46	0	W
3122	Tobacco	118	65	7	2	28	*	15	0	*
313	Textile Mills	1,790	1,003	21	10	575	6	116	0	59
314	Textile Product Mills	811	341	Q	3	Q	Q	0	0	1
315	Apparel	244	173	Q	1	68	1	0	0	*
316	Leather and Allied Products	53	36	2	1	14	1	0	0	*
321	Wood Products	2,897	1,720	31	269	633	70	33	Q	139
321113	Sawmills	797	502	4	127	99	10	0	0	57
3212	Veneer, Plywood, and Engineered Woods	976	563	3	23	285	32	9	0	61
3219	Other Wood Products	1,002	622	Q	79	231	25	Q	Q	14
322	Paper	10,307	3,962	720	142	3,990	94	635	0	763
322110	Pulp Mills	356	84	87	34	97	2	W	0	W
322121	Paper Mills, except Newsprint	3,721	1,268	371	33	1,382	12	342	0	313
322122	Newsprint Mills	510	372	20	2	69	3	W	0	W
322130	Paperboard Mills	3,031	1,122	227	63	1,132	8	228	0	251
323	Printing and Related Support	1,375	1,033	*	Q	322	13	0	0	Q
324	Petroleum and Coal Products	11,172	2,706	Q	246	6,002	15	420	3	1,730
324110	Petroleum Refineries	9,266	2,419	0	0	5,618	0	2	0	1,226
324199	Other Petroleum and Coal Products	951	33	0	6	21	*	417	3	471
325	Chemicals	47,949	8,333	627	125	12,481	23,191	489	5	2,699
325110	Petrochemicals	7,477	315	W	3	606	6,048	0	0	W
325120	Industrial Gases	1,448	1,065	0	1	360	*	0	0	22
325181	Alkalies and Chlorine	1,207	382	0	1	766	*	36	0	21
325182	Carbon Black	648	44	477	*	126	*	0	0	*
325188	Other Basic Inorganic Chemicals	1,944	953	35	19	547	166	40	3	179
325192	Cyclic Crudes and Intermediates	383	190	0	1	117	*	0	0	74
325193	Ethyl Alcohol	863	117	0	4	665	8	46	0	22
325199	Other Basic Organic Chemicals	10,584	1,188	15	22	2,864	5,405	174	0	916
325211	Plastics Materials and Resins	15,040	1,144	4	13	2,053	11,531	30	3	263
325212	Synthetic Rubber	396	99	*	4	206	1	24	0	62
325222	Noncellulosic Organic Fibers	799	247	22	2	312	1	33	0	182
325311	Nitrogenous Fertilizers	2,233	137	0	2	2,078	2	0	0	13
325312	Phosphatic Fertilizers	277	103	W	11	150	*	7	0	W
3254	Pharmaceuticals and Medicines	1,267	691	10	17	479	3	17	0	51
325412	Pharmaceutical Preparation	879	469	10	15	326	2	15	0	41
325992	Photographic Film, Paper, Plate, and Chemicals	201	74	1	1	68	*	56	0	*
326	Plastics and Rubber Products	4,933	3,531	77	44	1,148	92	Q	0	1
327	Nonmetallic Mineral Products	8,256	2,746	27	486	3,825	78	838	34	221
327211	Flat Glass	W	127	W	1	442	1	*	0	W
327212	Other Pressed and Blown Glass and Glassware	839	295	0	1	504	6	0	0	Q
327213	Glass Containers	652	233	0	1	415	2	0	0	*
327215	Glass Products from Purchased Glass	627	240	0	3	Q	4	*	0	1
327310	Cements	1,657	750	7	56	116	1	609	10	108
327410	Lime	387	75	2	21	39	*	206	7	36
327420	Gypsum	790	130	*	11	639	4	0	0	6
327993	Mineral Wool	535	232	0	1	284	2	0	17	*
331	Primary Metals	14,971	5,761	117	96	5,265	56	1,577	1,700	398
331111	Iron and Steel Mills	8,735	2,313	113	51	3,065	3	1,519	1,503	168
331112	Electrometallurgical Ferroalloy Products	177	109	0	2	10	*	27	13	16
3312	Steel Products from Purchased Steel	527	267	0	5	239	5	*	*	11

Table 7.9 Expenditures for Purchased Energy Sources, 2006;

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)
3313	Alumina and Aluminum	2,545	1,402	W	13	963	15	*	0	W
331314	Secondary Smelting and Alloying of Aluminum	204	42	1	5	155	1	*	0	*
331315	Aluminum Sheet, Plate and Foils	510	173	0	4	322	2	0	0	8
331316	Aluminum Extruded Products	295	124	*	1	158	11	0	0	*
3314	Nonferrous Metals, except Aluminum	1,151	703	W	11	337	18	26	22	W
3315	Foundries	1,835	967	*	15	652	15	5	161	21
331511	Iron Foundries	890	477	*	8	220	5	0	161	18
331521	Aluminum Die-Casting Foundries	242	105	0	2	132	3	0	0	*
331524	Aluminum Foundries, except Die-Casting	204	73	*	1	128	2	0	0	*
332	Fabricated Metal Products	5,438	3,076	Q	48	2,136	87	0	Q	71
333	Machinery	3,467	2,310	Q	33	1,018	47	3	0	30
334	Computer and Electronic Products	2,523	2,073	3	9	423	2	0	0	13
334413	Semiconductors and Related Devices	1,023	843	*	2	166	*	0	0	13
335	Electrical Equip., Appliances, and Components	1,355	838	0	7	394	19	Q	0	94
336	Transportation Equipment	5,572	3,532	49	52	1,733	72	16	Q	111
336111	Automobiles	413	212	1	1	167	2	6	0	23
336112	Light Trucks and Utility Vehicles	473	228	1	2	218	1	1	0	22
3364	Aerospace Product and Parts	1,224	867	22	9	291	7	2	0	25
336411	Aircraft	309	216	*	2	82	1	0	0	8
337	Furniture and Related Products	873	650	Q	22	173	13	5	0	7
339	Miscellaneous	1,110	844	Q	3	244	12	0	0	Q
	Total	136,661	50,019	2,015	1,918	45,799	23,953	4,566	1,778	6,613

## Northeast Census Region

311	Food	909	490	32	37	334	Q	0	0	Q
3112	Grain and Oilseed Milling	63	42	2	*	19	*	0	0	*
311221	Wet Corn Milling	3	1	1	*	0	0	0	0	*
31131	Sugar Manufacturing	29	1	0	2	26	*	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Foods	112	65	8	Q	29	1	0	0	Q
3115	Dairy Products	207	114	5	14	75	Q	0	0	*
3116	Animal Slaughtering and Processing	79	51	1	Q	20	*	0	0	*
312	Beverage and Tobacco Products	W	113	W	11	59	1	0	0	W
3121	Beverages	W	111	W	11	57	1	0	0	W
3122	Tobacco	8	2	4	*	2	*	0	0	*
313	Textile Mills	212	113	17	Q	80	*	0	0	*
314	Textile Product Mills	42	23	0	1	14	Q	Q	0	*
315	Apparel	23	16	0	*	Q	*	0	0	0
316	Leather and Allied Products	26	18	2	1	5	1	0	0	*
321	Wood Products	262	162	Q	27	60	6	0	0	6
321113	Sawmills	82	51	Q	17	Q	1	0	0	3
3212	Veneer, Plywood, and Engineered Woods	78	40	0	2	32	2	0	0	1
3219	Other Wood Products	99	68	0	8	19	2	0	0	Q
322	Paper	1,649	588	223	18	613	31	39	0	136
322110	Pulp Mills	W	W	W	*	W	1	0	0	2
322121	Paper Mills, except Newsprint	966	291	165	9	356	3	36	0	105
322122	Newsprint Mills	W	13	W	*	0	*	0	0	0
322130	Paperboard Mills	205	68	17	2	92	1	0	0	25
323	Printing and Related Support	265	198	*	Q	61	Q	0	0	Q
324	Petroleum and Coal Products	884	318	Q	96	375	Q	33	1	15
324110	Petroleum Refineries	537	226	0	0	302	0	2	0	8
324199	Other Petroleum and Coal Products	54	17	0	1	4	*	30	1	*
325	Chemicals	1,990	779	47	27	679	306	56	0	97
325110	Petrochemicals	5	2	0	1	2	*	0	0	*
325120	Industrial Gases	126	100	0	0	14	*	0	0	11
325181	Alkalies and Chlorine	59	35	0	*	5	*	0	0	19
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	75	37	6	2	28	*	0	0	1
325192	Cyclic Crudes and Intermediates	48	8	0	*	36	*	0	0	3
325193	Ethyl Alcohol	*	*	0	0	*	*	0	0	0
325199	Other Basic Organic Chemicals	126	49	5	2	49	W	0	0	W
325211	Plastics Materials and Resins	476	86	1	Q	76	W	0	0	W
325212	Synthetic Rubber	8	5	0	*	1	*	0	0	2
325222	Noncellulosic Organic Fibers	8	5	*	*	1	*	0	0	0

**Table 7.9 Expenditures for Purchased Energy Sources, 2006;**

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)
325311	Nitrogenous Fertilizers	21	7	0	0	14	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	601	279	9	10	269	*	0	0	33
325412	Pharmaceutical Preparation	449	192	9	9	214	*	0	0	26
325992	Photographic Film, Paper, Plate, and Chemicals	121	28	1	1	36	*	56	0	*
326	Plastics and Rubber Products	871	601	Q	Q	214	Q	0	0	*
327	Nonmetallic Mineral Products	W	409	W	83	579	6	W	W	W
327211	Flat Glass	106	20	0	*	84	*	0	0	1
327212	Other Pressed and Blown Glass and Glassware	82	31	0	*	48	1	0	0	1
327213	Glass Containers	151	59	0	*	91	*	0	0	*
327215	Glass Products from Purchased Glass	47	33	0	Q	12	1	*	0	*
327310	Cements	198	90	7	6	4	*	81	1	9
327410	Lime	18	5	*	4	0	*	8	0	1
327420	Gypsum	116	20	*	1	94	1	0	0	*
327993	Mineral Wool	82	25	0	*	56	*	0	*	*
331	Primary Metals	2,321	837	W	15	815	8	W	W	W
331111	Iron and Steel Mills	1,469	389	0	7	490	1	554	*	27
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	110	42	0	1	63	*	*	*	4
3313	Alumina and Aluminum	301	154	W	3	127	1	0	0	W
331314	Secondary Smelting and Alloving of Aluminum	9	4	1	*	3	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	92	34	0	2	56	*	0	0	*
331316	Aluminum Extruded Products	59	17	*	*	41	*	0	0	*
3314	Nonferrous Metals, except Aluminum	273	169	W	2	73	2	W	W	W
3315	Foundries	168	83	*	2	63	4	0	16	*
331511	Iron Foundries	73	35	*	1	20	1	0	16	*
331521	Aluminum Die-Casting Foundries	22	6	0	*	16	Q	0	0	*
331524	Aluminum Foundries, except Die-Casting	19	10	*	*	8	*	0	0	*
332	Fabricated Metal Products	840	463	1	Q	290	5	0	Q	Q
333	Machinery	742	544	Q	Q	Q	Q	0	0	Q
334	Computer and Electronic Products	628	510	3	6	106	1	0	0	3
334413	Semiconductors and Related Devices	243	191	*	1	47	*	0	0	3
335	Electrical Equip., Appliances, and Components	193	147	0	Q	38	Q	0	0	*
336	Transportation Equipment	Q	536	18	4	Q	4	0	0	Q
336111	Automobiles	*	*	0	0	*	*	0	0	*
336112	Light Trucks and Utility Vehicles	*	*	0	*	0	0	0	0	0
3364	Aerospace Product and Parts	173	106	18	1	47	1	0	0	*
336411	Aircraft	19	18	0	*	*	*	0	0	0
337	Furniture and Related Products	88	61	Q	*	22	Q	0	0	Q
339	Miscellaneous	366	277	Q	2	78	4	0	0	*
	Total	14,616	7,202	459	363	4,910	431	791	53	407

**Midwest Census Region**

311	Food	4,041	1,633	80	44	1,887	16	256	5	120
3112	Grain and Oilseed Milling	1,584	528	9	5	736	1	218	0	87
311221	Wet Corn Milling	856	255	0	3	384	*	192	0	23
31131	Sugar Manufacturing	121	28	10	2	44	*	30	5	2
3114	Fruit and Vegetable Preserving and Specialty Foods	367	169	5	Q	183	4	3	0	Q
3115	Dairy Products	469	222	Q	3	232	Q	1	0	5
3116	Animal Slaughtering and Processing	828	371	15	15	402	2	0	0	Q
312	Beverage and Tobacco Products	185	87	5	W	68	2	W	0	W
3121	Beverages	183	86	5	W	68	2	W	0	W
3122	Tobacco	2	1	0	*	1	*	0	0	*
313	Textile Mills	Q	Q	0	0	Q	*	0	0	0
314	Textile Product Mills	Q	Q	0	0	3	*	0	0	0
315	Apparel	6	4	0	0	2	0	0	0	0
316	Leather and Allied Products	14	8	0	0	6	*	0	0	*
321	Wood Products	773	410	2	73	238	11	Q	Q	6
321113	Sawmills	46	26	*	13	5	2	0	0	*
3212	Veneer, Plywood, and Engineered Woods	134	69	2	5	50	2	6	0	1
3219	Other Wood Products	581	311	0	54	Q	7	Q	Q	5

**Table 7.9 Expenditures for Purchased Energy Sources, 2006;**

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)
322	Paper	1,907	744	44	12	652	15	199	0	Q
322110	Pulp Mills	12	7	0	*	3	*	0	0	2
322121	Paper Mills, except Newsprint	872	330	33	4	297	3	148	0	57
322122	Newsprint Mills	32	23	0	*	*	*	0	0	9
322130	Paperboard Mills	307	117	8	8	108	1	33	0	33
323	Printing and Related Support	504	370	0	*	128	5	0	0	*
324	Petroleum and Coal Products	1,731	410	Q	13	921	Q	243	0	135
324110	Petroleum Refineries	1,157	340	0	0	742	0	*	0	75
324199	Other Petroleum and Coal Products	302	3	0	1	3	*	243	0	53
325	Chemicals	5,371	1,965	68	13	1,835	877	124	3	486
325110	Petrochemicals	W	W	0	*	W	W	0	0	*
325120	Industrial Gases	353	316	0	0	38	*	0	0	*
325181	Alkalies and Chlorine	12	10	0	*	2	*	0	0	*
325182	Carbon Black	85	3	67	*	14	*	0	0	*
325188	Other Basic Inorganic Chemicals	345	68	1	1	95	165	1	0	14
325192	Cyclic Crudes and Intermediates	W	8	0	*	6	*	0	0	W
325193	Ethyl Alcohol	818	111	0	4	639	8	46	0	10
325199	Other Basic Organic Chemicals	443	187	0	1	189	W	26	0	W
325211	Plastics Materials and Resins	1,059	183	0	1	158	W	W	3	30
325212	Synthetic Rubber	36	12	0	1	9	*	11	0	3
325222	Noncellulosic Organic Fibers	1	*	0	0	1	0	0	0	0
325311	Nitrogenous Fertilizers	308	21	0	*	274	*	0	0	13
325312	Phosphatic Fertilizers	*	*	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	260	140	0	*	88	*	17	0	15
325412	Pharmaceutical Preparation	182	106	0	*	46	*	15	0	15
325992	Photographic Film, Paper, Plate, and Chemicals	11	9	0	*	2	*	0	0	0
326	Plastics and Rubber Products	1,814	1,361	0	Q	431	16	0	0	*
327	Nonmetallic Mineral Products	2,168	725	0	W	1,038	13	W	14	W
327211	Flat Glass	186	40	0	*	143	*	0	0	3
327212	Other Pressed and Blown Glass and Glassware	Q	Q	0	*	Q	Q	0	0	Q
327213	Glass Containers	139	43	0	*	95	1	0	0	*
327215	Glass Products from Purchased Glass	128	101	0	*	25	1	0	0	*
327310	Cements	342	147	0	10	36	*	97	0	51
327410	Lime	W	24	0	5	15	*	W	1	W
327420	Gypsum	144	22	0	3	118	1	0	0	*
327993	Mineral Wool	200	77	0	*	110	1	0	13	*
331	Primary Metals	7,266	2,046	W	43	2,641	22	W	1,378	209
331111	Iron and Steel Mills	4,955	843	W	29	1,773	1	W	1,280	115
331112	Electrometallurgical Ferroalloy Products	128	78	0	1	8	*	13	13	14
3312	Steel Products from Purchased Steel	247	114	0	1	126	2	*	0	3
3313	Alumina and Aluminum	513	239	*	3	229	2	0	0	40
331314	Secondary Smelting and Alloying of Aluminum	100	15	0	2	83	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	145	50	0	1	86	*	0	0	8
331316	Aluminum Extruded Products	87	42	*	*	44	1	0	0	*
3314	Nonferrous Metals, except Aluminum	379	223	0	5	114	11	0	5	22
3315	Foundries	1,044	549	0	5	391	6	0	79	15
331511	Iron Foundries	514	288	0	3	129	2	0	79	13
331521	Aluminum Die-Casting Foundries	165	74	0	*	90	2	0	0	*
331524	Aluminum Foundries, except Die-Casting	127	39	0	Q	87	1	0	0	*
332	Fabricated Metal Products	2,296	1,198	0	8	1,048	36	0	0	6
333	Machinery	1,784	1,111	0	19	619	19	3	0	12
334	Computer and Electronic Products	324	237	0	Q	84	Q	0	0	1
334413	Semiconductors and Related Devices	38	32	0	0	5	*	0	0	1
335	Electrical Equip., Appliances, and Components	380	259	0	*	110	Q	0	0	Q
336	Transportation Equipment	2,667	1,641	Q	14	881	42	14	Q	59
336111	Automobiles	258	126	0	*	113	1	5	0	11
336112	Light Trucks and Utility Vehicles	276	119	0	1	140	*	1	0	15
3364	Aerospace Product and Parts	183	115	2	*	57	1	0	0	8
336411	Aircraft	61	36	0	*	24	*	0	0	*
337	Furniture and Related Products	304	190	0	Q	99	3	2	0	*
339	Miscellaneous	258	189	*	*	68	1	0	0	*
	Total	33,820	14,610	300	352	12,765	1,093	1,908	1,408	1,383

South Census Region

Table 7.9 Expenditures for Purchased Energy Sources, 2006;

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)
311	Food	3,114	1,533	100	75	1,336	15	33	0	21
3112	Grain and Oilseed Milling	402	175	3	2	188	*	25	0	9
311221	Wet Corn Milling	97	41	0	*	41	*	11	0	4
31131	Sugar Manufacturing	160	15	67	7	63	1	7	0	1
3114	Fruit and Vegetable Preserving and Specialty Foods	354	166	Q	Q	172	1	0	0	2
3115	Dairy Products	154	102	0	Q	50	*	0	0	0
3116	Animal Slaughtering and Processing	987	544	13	33	383	11	0	0	Q
312	Beverage and Tobacco Products	490	273	8	3	172	4	W	0	W
3121	Beverages	381	212	5	1	146	4	W	0	W
3122	Tobacco	109	62	4	2	26	*	15	0	*
313	Textile Mills	1,540	869	4	9	477	5	116	0	59
314	Textile Product Mills	730	293	Q	Q	Q	Q	Q	0	1
315	Apparel	193	131	Q	1	58	*	0	0	*
316	Leather and Allied Products	9	8	0	0	2	*	0	0	0
321	Wood Products	1,228	795	Q	120	191	31	3	0	84
321113	Sawmills	368	260	*	57	17	2	0	0	31
3212	Veneer, Plywood, and Engineered Woods	583	350	*	15	148	18	3	0	49
3219	Other Wood Products	212	167	Q	11	18	9	0	0	3
322	Paper	5,249	1,881	412	94	2,107	34	371	0	350
322110	Pulp Mills	300	65	72	34	81	1	W	0	W
322121	Paper Mills, except Newsprint	1,483	483	146	18	543	5	158	0	130
322122	Newsprint Mills	183	172	0	1	2	*	3	0	W
322130	Paperboard Mills	1,930	667	193	38	652	4	192	0	184
323	Printing and Related Support	481	360	0	*	114	6	0	0	Q
324	Petroleum and Coal Products	6,296	1,469	0	90	3,274	Q	110	2	1,350
324110	Petroleum Refineries	5,550	1,391	0	0	3,204	0	0	0	955
324199	Other Petroleum and Coal Products	530	12	0	4	10	*	110	2	393
325	Chemicals	39,571	5,052	509	77	9,586	22,004	280	*	2,062
325110	Petrochemicals	W	W	W	2	W	W	0	0	W
325120	Industrial Gases	833	523	0	1	299	*	0	0	10
325181	Alkalies and Chlorine	979	277	0	1	672	*	29	0	*
325182	Carbon Black	563	41	410	*	112	*	0	0	*
325188	Other Basic Inorganic Chemicals	1,250	745	26	11	306	1	24	*	138
325192	Cyclic Crudes and Intermediates	W	174	0	1	73	*	0	0	W
325193	Ethyl Alcohol	18	2	0	*	15	*	0	0	*
325199	Other Basic Organic Chemicals	9,974	933	11	18	2,613	5,395	148	0	856
325211	Plastics Materials and Resins	13,472	852	3	6	1,809	10,565	W	0	W
325212	Synthetic Rubber	350	80	*	2	197	1	13	0	56
325222	Noncellulosic Organic Fibers	790	242	21	2	310	*	33	0	182
325311	Nitrogenous Fertilizers	1,843	95	0	2	1,746	*	0	0	*
325312	Phosphatic Fertilizers	W	86	W	10	W	*	7	0	W
3254	Pharmaceuticals and Medicines	259	162	1	Q	83	2	0	0	3
325412	Pharmaceutical Preparation	157	107	1	Q	40	2	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	28	17	0	*	11	*	0	0	*
326	Plastics and Rubber Products	1,832	1,207	63	Q	461	30	Q	0	1
327	Nonmetallic Mineral Products	3,604	1,101	*	178	1,792	Q	396	W	W
327211	Flat Glass	222	45	0	*	173	*	*	0	2
327212	Other Pressed and Blown Glass and Glassware	220	85	0	*	135	*	0	0	*
327213	Glass Containers	217	76	0	1	140	1	0	0	*
327215	Glass Products from Purchased Glass	Q	81	0	Q	Q	1	*	0	1
327310	Cements	707	302	*	23	49	*	294	5	33
327410	Lime	177	35	0	7	21	*	90	5	18
327420	Gypsum	358	56	0	4	296	2	0	0	*
327993	Mineral Wool	170	78	0	*	87	*	0	4	*
331	Primary Metals	4,406	2,319	W	28	1,460	19	W	W	W
331111	Iron and Steel Mills	1,963	897	W	11	659	1	W	219	15
331112	Electrometallurgical Ferroalloy Products	47	31	0	1	1	0	14	0	1
3312	Steel Products from Purchased Steel	143	92	0	3	44	2	*	*	3
3313	Alumina and Aluminum	1,519	881	0	6	545	11	*	0	77
331314	Secondary Smelting and Alloying of Aluminum	76	17	0	3	56	*	*	0	*
331315	Aluminum Sheet, Plate and Foils	243	75	0	1	166	1	0	0	*
331316	Aluminum Extruded Products	106	45	0	*	51	10	0	0	*
3314	Nonferrous Metals, except Aluminum	246	153	0	2	63	2	W	W	W
3315	Foundries	487	265	0	6	149	3	5	55	4
331511	Iron Foundries	270	144	0	3	62	2	0	55	4

**Table 7.9 Expenditures for Purchased Energy Sources, 2006;**

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)
331521	Aluminum Die-Casting Foundries	46	21	0	2	23	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	45	17	0	*	28	*	0	0	*
332	Fabricated Metal Products	1,681	974	Q	24	640	36	0	0	6
333	Machinery	774	509	0	Q	227	Q	0	0	Q
334	Computer and Electronic Products	647	565	0	Q	79	*	0	0	1
334413	Semiconductors and Related Devices	264	230	0	*	32	*	0	0	1
335	Electrical Equip., Appliances, and Components	699	373	0	2	227	8	Q	0	85
336	Transportation Equipment	1,380	925	23	15	361	18	3	0	34
336111	Automobiles	W	W	1	*	W	1	1	0	W
336112	Light Trucks and Utility Vehicles	197	109	1	1	78	*	0	0	7
3364	Aerospace Product and Parts	411	305	3	5	80	3	2	0	14
336411	Aircraft	142	101	*	1	32	*	0	0	7
337	Furniture and Related Products	410	334	0	Q	46	8	Q	0	Q
339	Miscellaneous	276	185	0	*	83	6	0	0	Q
	Total	74,610	21,156	1,164	770	23,097	22,306	1,570	292	4,255

**West Census Region**

311	Food	2,301	1,036	W	138	986	16	28	3	W
3112	Grain and Oilseed Milling	103	47	0	*	49	Q	0	0	4
311221	Wet Corn Milling	12	1	0	*	7	*	0	0	4
31131	Sugar Manufacturing	78	11	0	1	17	*	28	3	19
3114	Fruit and Vegetable Preserving and Specialty Foods	632	256	4	2	356	5	0	0	8
3115	Dairy Products	501	291	0	5	203	*	0	0	1
3116	Animal Slaughtering and Processing	310	149	0	Q	127	*	0	0	1
312	Beverage and Tobacco Products	W	185	0	W	84	11	W	0	W
3121	Beverages	W	185	0	W	84	11	W	0	W
3122	Tobacco	0	0	0	0	0	0	0	0	0
313	Textile Mills	Q	Q	0	0	Q	*	0	0	0
314	Textile Product Mills	22	12	0	0	10	*	*	0	*
315	Apparel	22	21	0	0	1	*	0	0	0
316	Leather and Allied Products	3	3	0	*	1	*	0	0	*
321	Wood Products	633	353	22	48	144	23	0	0	43
321113	Sawmills	301	165	1	39	68	5	0	0	23
3212	Veneer, Plywood, and Engineered Woods	181	104	0	2	54	10	0	0	11
3219	Other Wood Products	111	76	*	6	17	7	0	0	4
322	Paper	1,501	749	41	18	619	14	26	0	35
322110	Pulp Mills	W	W	W	*	W	*	0	0	*
322121	Paper Mills, except Newsprint	400	163	27	2	186	1	0	0	21
322122	Newsprint Mills	W	164	W	1	67	2	22	0	5
322130	Paperboard Mills	589	270	9	14	280	2	4	0	10
323	Printing and Related Support	124	105	0	0	18	*	0	0	0
324	Petroleum and Coal Products	2,260	509	Q	Q	1,432	*	35	0	230
324110	Petroleum Refineries	2,021	463	0	0	1,370	0	0	0	188
324199	Other Petroleum and Coal Products	64	1	0	*	3	*	35	0	25
325	Chemicals	1,017	537	2	8	381	5	28	3	53
325110	Petrochemicals	*	*	0	0	*	*	0	0	0
325120	Industrial Gases	135	126	0	0	9	0	0	0	Q
325181	Alkalies and Chlorine	157	59	0	*	88	*	8	0	2
325182	Carbon Black	*	*	0	0	*	*	0	0	0
325188	Other Basic Inorganic Chemicals	274	103	2	6	118	1	15	3	26
325192	Cyclic Crudes and Intermediates	2	1	0	0	1	*	0	0	*
325193	Ethyl Alcohol	26	4	0	*	11	*	0	0	12
325199	Other Basic Organic Chemicals	41	18	0	*	13	*	0	0	10
325211	Plastics Materials and Resins	33	23	0	*	10	*	0	0	*
325212	Synthetic Rubber	3	3	0	*	*	*	0	0	*
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	61	15	0	1	44	2	0	0	*
325312	Phosphatic Fertilizers	W	18	0	1	W	*	0	0	*
3254	Pharmaceuticals and Medicines	147	108	0	*	38	*	0	0	*
325412	Pharmaceutical Preparation	91	65	0	*	26	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	40	21	0	*	19	*	0	0	0
326	Plastics and Rubber Products	417	362	0	*	42	Q	0	0	*
327	Nonmetallic Mineral Products	W	510	W	W	416	10	W	4	W

**Table 7.9 Expenditures for Purchased Energy Sources, 2006;**

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)
327211	Flat Glass	W	21	W	*	42	*	0	0	W
327212	Other Pressed and Blown Glass and Glassware	17	8	0	*	9	*	0	0	*
327213	Glass Containers	145	56	0	*	88	1	0	0	*
327215	Glass Products from Purchased Glass	29	26	0	*	3	*	0	0	*
327310	Cements	410	211	0	16	27	*	136	4	15
327410	Lime	W	12	2	5	3	*	W	0	W
327420	Gypsum	172	33	0	3	131	1	0	0	5
327993	Mineral Wool	82	51	0	*	31	*	0	0	*
331	Primary Metals	978	560	0	10	349	7	4	14	35
331111	Iron and Steel Mills	349	183	0	4	142	*	4	4	11
331112	Electrometallurgical Ferroalloy Products	3	*	0	*	*	*	0	0	2
3312	Steel Products from Purchased Steel	26	19	0	*	6	1	0	0	*
3313	Alumina and Aluminum	211	128	0	1	62	1	0	0	19
331314	Secondary Smelting and Alloying of Aluminum	19	5	0	*	13	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	31	15	0	*	15	*	0	0	*
331316	Aluminum Extruded Products	43	19	0	*	22	*	0	0	*
3314	Nonferrous Metals, except Aluminum	254	159	0	3	88	Q	0	0	2
3315	Foundries	136	70	0	1	50	2	0	11	2
331511	Iron Foundries	33	10	0	1	9	*	0	11	2
331521	Aluminum Die-Casting Foundries	8	5	0	0	3	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	13	7	0	*	5	1	0	0	*
332	Fabricated Metal Products	623	440	0	Q	157	10	0	0	5
333	Machinery	168	145	0	*	19	Q	0	0	*
334	Computer and Electronic Products	924	762	0	*	153	*	0	0	8
334413	Semiconductors and Related Devices	479	389	0	*	81	*	0	0	8
335	Electrical Equip., Appliances, and Components	84	60	0	*	Q	Q	0	0	Q
336	Transportation Equipment	626	430	0	Q	162	7	0	0	9
336111	Automobiles	W	W	0	*	W	*	0	0	W
336112	Light Trucks and Utility Vehicles	*	*	0	0	*	0	0	0	0
3364	Aerospace Product and Parts	457	341	0	4	107	3	0	0	3
336411	Aircraft	88	61	0	1	26	*	0	0	*
337	Furniture and Related Products	71	65	0	0	6	1	0	0	*
339	Miscellaneous	209	192	0	*	14	Q	0	0	Q
	Total	13,615	7,050	92	433	5,027	123	298	25	568

(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=Not 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, '2006 Manufacturing Energy Consumption Survey.'

**Table 8.1 Number of Establishments by Participation In General Energy-Management Activities, 2006:**

### Level: National Data:

#### Row: General Energy-Management Activities within NAICS Codes:

## Row: General Energy-Management Activities with Column: Participation and Source of Assistance:

### Column: Participation and S Unit: Establishment Counts

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Assistance					
				In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Participation in One or More of the Following Types of Activities	111	469	--	--	--	--	--	--
	Energy Audit or Assessment	307	273	157	81	50	5	Q	24
	Electricity Load Control	396	184	101	75	58	0	0	20
	Power Factor Correction or Improvement	352	228	131	83	86	0	0	29
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	490	90	54	W	22	0	0	25
	Standby Generation Program	532	48	23	Q	W	0	0	14
	Special Rate Schedule (d)	377	203	--	153	Q	--	--	21
	Interval Metering (e)	488	92	--	69	4	--	--	20
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	430	150	104	W	65	0	0	17
	Compressed Air Systems (g)	373	207	162	W	59	W	0	29
	Direct/Indirect Process Heating	484	96	78	W	31	0	0	12
	Direct Process Cooling, Refrigeration	525	55	32	0	28	0	0	14
	Direct Machine Drive (h)	390	190	163	6	45	0	0	16
	Facility HVAC (i)	413	167	81	5	85	0	0	27
	Facility Lighting	371	209	150	28	64	0	0	28
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	329	251	111	100	93	W	Q	26
	Technical Information (k)	398	182	99	68	83	3	W	W
	Training (l)	358	222	103	106	73	10	Q	W
	Financial Assistance (m)	486	94	8	52	5	W	26	W
311221	<b>Wet Corn Milling</b>								
	Participation in One or More of the Following Types of Activities	7	40	--	--	--	--	--	--
	Energy Audit or Assessment	18	29	22	4	6	W	0	W
	Electricity Load Control	32	15	10	4	3	0	0	W
	Power Factor Correction or Improvement	27	20	16	3	3	0	0	W
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	36	11	9	0	3	0	0	0
	Standby Generation Program	36	11	7	4	0	0	0	W
	Special Rate Schedule (d)	30	17	--	16	W	--	--	0
	Interval Metering (e)	39	8	--	6	0	--	--	W
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	34	13	10	0	4	0	0	W
	Compressed Air Systems (g)	35	12	7	0	7	W	0	W
	Direct/Indirect Process Heating	35	12	10	W	3	0	0	W
	Direct Process Cooling, Refrigeration	41	6	3	0	W	0	0	W
	Direct Machine Drive (h)	26	21	12	W	9	0	0	W
	Facility HVAC (i)	39	8	W	W	4	0	0	W
	Facility Lighting	38	9	4	W	W	0	0	W
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	21	26	19	4	15	0	0	0
	Technical Information (k)	25	22	13	8	10	0	W	0
	Training (l)	24	24	16	4	8	0	W	0
	Financial Assistance (m)	41	6	W	W	W	0	W	0
31131	<b>Sugar</b>								
	Participation in One or More of the Following Types of Activities	19	59	--	--	--	--	--	--
	Energy Audit or Assessment	50	28	20	6	0	W	W	4
	Electricity Load Control	37	41	39	7	0	0	0	W

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data;

Row: General Energy-Management Activities within NAICS Codes;

Column: Participation and Source of Assistance;

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Source of Assistance				
					Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Power Factor Correction or Improvement	52	26	20	7	W	0	0	4
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	71	7	6	0	W	0	0	W
	Standby Generation Program	59	19	13	W	W	0	0	4
	Special Rate Schedule (d)	58	20	--	17	W	--	--	4
	Interval Metering (e)	72	6	--	W	W	--	--	W
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency Affecting:</b>								
	Steam Production/System (f)	59	19	17	0	4	0	0	0
	Compressed Air Systems (g)	65	13	13	0	0	0	0	0
	Direct/Indirect Process Heating	58	20	19	0	4	0	W	0
	Direct Process Cooling, Refrigeration	74	4	4	0	0	0	0	0
	Direct Machine Drive (h)	52	26	24	W	W	0	0	W
	Facility HVAC (i)	65	13	11	0	0	0	0	W
	Facility Lighting	58	20	20	0	W	0	0	0
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	41	37	28	0	11	0	0	4
	Technical Information (k)	56	22	15	W	6	W	0	0
	Training (l)	54	24	20	6	7	W	0	0
	Financial Assistance (m)	W	W	W	0	0	0	0	0
3114	<b>Fruit and Vegetable Preserving and Specialty Foods</b>								
	Participation in One or More of the Following Types of Activities	509	616	--	--	--	--	--	--
	Energy Audit or Assessment	729	396	264	133	148	8	53	21
	Electricity Load Control	947	178	82	66	40	0	W	24
	Power Factor Correction or Improvement	1,014	111	79	64	49	0	0	23
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	1,038	87	49	21	23	0	0	20
	Standby Generation Program	1,012	113	51	Q	Q	0	0	30
	Special Rate Schedule (d)	926	199	--	148	37	--	--	24
	Interval Metering (e)	1,044	81	--	58	8	--	--	19
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency Affecting:</b>								
	Steam Production/System (f)	883	242	161	52	108	W	16	14
	Compressed Air Systems (g)	849	276	252	30	83	0	W	14
	Direct/Indirect Process Heating	976	149	121	18	80	0	W	12
	Direct Process Cooling, Refrigeration	927	198	130	27	104	0	W	23
	Direct Machine Drive (h)	801	324	264	38	152	0	W	29
	Facility HVAC (i)	920	205	129	37	150	0	W	27
	Facility Lighting	900	225	150	59	123	W	5	13
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	726	399	174	124	229	W	Q	30
	Technical Information (k)	930	195	87	78	128	W	3	W
	Training (l)	894	231	77	128	98	W	13	W
	Financial Assistance (m)	1,005	120	13	100	20	Q	W	0
3115	<b>Dairy Products</b>								
	Participation in One or More of the Following Types of Activities	282	762	--	--	--	--	--	--
	Energy Audit or Assessment	652	392	212	146	72	7	38	29
	Electricity Load Control	752	292	116	121	53	0	4	41
	Power Factor Correction or Improvement	763	281	96	121	62	0	W	41
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	918	126	63	4	24	0	0	48
	Standby Generation Program	949	95	14	7	31	0	0	48

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data;  
 Row: General Energy-Management Activities within NAICS Codes;  
 Column: Participation and Source of Assistance;  
 Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	Source of Assistance							
		No Participation	Participation(b)	In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Special Rate Schedule (d)	778	266	--	226	7	--	--	34
	Interval Metering (e)	940	104	--	45	14	--	--	55
<b>Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:</b>									
	Steam Production/System (f)	774	270	124	5	126	5	Q	28
	Compressed Air Systems (a)	757	287	204	10	87	0	W	36
	Direct/Indirect Process Heating	918	126	83	W	28	0	W	30
	Direct Process Cooling, Refrigeration	800	244	182	6	45	0	W	43
	Direct Machine Drive (h)	686	358	274	13	86	W	W	34
	Facility HVAC (i)	801	243	145	3	56	0	W	53
	Facility Lighting	756	288	167	34	96	0	10	37
<b>Receiving energy-management support in the form of:</b>									
	Technical Assistance (j)	635	409	176	129	236	W	16	55
	Technical Information (k)	782	262	130	108	143	5	7	0
	Training (l)	788	256	115	85	50	5	38	0
	Financial Assistance (m)	925	119	25	71	0	W	27	0
<b>3116</b>	<b>Animal Slaughtering and Processing</b>								
	Participation in One or More of the Following Types of Activities	713	1,002	--	--	--	--	--	--
	Energy Audit or Assessment	1,160	555	312	179	94	12	12	53
	Electricity Load Control	1,335	380	136	173	Q	0	W	91
	Power Factor Correction or Improvement	1,351	364	121	171	46	0	0	85
<b>Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)</b>									
	Standby Generation Program	1,434	281	156	20	35	0	0	108
	Special Rate Schedule (d)	1,518	197	87	28	5	0	W	90
	Interval Metering (e)	1,315	400	--	278	27	--	--	108
	Receiving energy-management support in the form of:	1,507	208	--	104	Q	--	--	95
	Technical Assistance (j)	1,186	529	230	125	194	6	4	78
	Technical Information (k)	1,295	420	195	150	190	6	W	W
	Training (l)	1,443	272	91	113	69	0	Q	Q
	Financial Assistance (m)	1,596	119	38	71	Q	Q	Q	W
<b>312</b>	<b>BEVERAGE AND TOBACCO PRODUCTS</b>								
	Participation in One or More of the Following Types of Activities	547	1,283	--	--	--	--	--	--
	Energy Audit or Assessment	1,045	785	294	391	254	Q	31	78
	Electricity Load Control	1,411	419	132	168	133	0	0	81
	Power Factor Correction or Improvement	1,456	374	92	155	27	0	0	153
<b>Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)</b>									
	Standby Generation Program	1,658	172	37	Q	35	0	0	81
	Special Rate Schedule (d)	1,627	203	53	Q	0	0	0	45
	Interval Metering (e)	1,331	499	--	151	175	--	--	174
	Receiving energy-management support in the form of:	1,381	449	--	286	Q	--	--	119
	Technical Assistance (j)	1,186	529	230	125	194	6	4	78
	Technical Information (k)	1,295	420	195	150	190	6	W	W
	Training (l)	1,443	272	91	113	69	0	Q	Q
	Financial Assistance (m)	1,596	119	38	71	Q	Q	Q	W

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:****Level: National Data:****Row: General Energy-Management Activities within NAICS Codes:****Column: Participation and Source of Assistance:****Unit: Establishment Counts.**

NAICS Code(a)	Energy-Management Activity	Source of Assistance						
		No Participation	Participation(b)	In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program
	Steam Production/System (f)	1,434	396	230	Q	139	W	Q
	Compressed Air Systems (a)	1,217	613	431	62	147	W	Q
	Direct/Indirect Process Heating	1,589	241	109	Q	19	0	0
	Direct Process Cooling, Refrigeration	1,323	507	374	Q	164	0	0
	Direct Machine Drive (h)	1,137	693	548	21	158	0	W
	Facility HVAC (i)	1,376	454	325	12	91	0	W
	Facility Lighting	1,126	704	481	154	141	0	11
	Receiving energy-management support in the form of:							77
	Technical Assistance (j)	1,119	711	206	276	389	W	Q
	Technical Information (k)	1,376	454	182	281	176	4	W
	Training (l)	1,494	336	204	114	36	W	Q
	Financial Assistance (m)	1,502	328	17	239	81	W	0
<b>3121</b>	<b>Beverages</b>							
	Participation in One or More of the Following Types of Activities	524	1,234	--	--	--	--	--
	Energy Audit or Assessment	996	762	277	387	244	Q	31
	Electricity Load Control	1,347	411	128	W	W	0	W
	Power Factor Correction or Improvement	1,398	360	W	147	22	0	149
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	W	W	W	Q	W	0	81
	Standby Generation Program	1,567	191	43	W	W	0	45
	Special Rate Schedule (d)	1,278	480	--	132	W	--	174
	Interval Metering (e)	1,320	438	--	278	W	--	W
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency Affecting:</b>							
	Steam Production/System (f)	1,381	377	216	W	W	W	Q
	Compressed Air Systems (a)	1,167	591	413	W	143	W	Q
	Direct/Indirect Process Heating	1,526	232	102	Q	19	0	W
	Direct Process Cooling, Refrigeration	W	W	Q	164	0	0	W
	Direct Machine Drive (h)	1,084	674	533	21	152	0	W
	Facility HVAC (i)	1,321	437	313	12	86	0	W
	Facility Lighting	1,074	684	464	W	136	0	11
	Receiving energy-management support in the form of:							
	Technical Assistance (j)	1,069	689	194	267	375	W	Q
	Technical Information (k)	1,321	437	171	277	166	W	Q
	Training (l)	1,435	323	200	110	29	W	W
	Financial Assistance (m)	W	W	17	W	W	W	0
<b>3122</b>	<b>Tobacco</b>							
	Participation in One or More of the Following Types of Activities	23	49	--	--	--	--	--
	Energy Audit or Assessment	49	23	16	4	10	0	0
	Electricity Load Control	64	8	4	W	W	0	W
	Power Factor Correction or Improvement	58	14	W	8	4	0	4
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	W	W	W	0	W	0	0
	Standby Generation Program	60	12	10	W	W	0	0
	Special Rate Schedule (d)	53	19	--	19	W	--	0
	Interval Metering (e)	61	11	--	8	W	--	W
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency Affecting:</b>							
	Steam Production/System (f)	53	19	14	W	W	0	W
	Compressed Air Systems (a)	50	22	18	W	4	0	W
	Direct/Indirect Process Heating	64	8	7	0	0	0	W
	Direct Process Cooling, Refrigeration	W	W	W	0	0	0	W

**Table 8.1 Number of Establishments by Participation In General Energy-Management Activities, 2006:**

### Level: National Data:

## Row: General Energy-Management Activities within NAICS Codes:

## Row: General Energy-Management Activities with Column: Participation and Source of Assistance:

### Unit: Establishment Counts.

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	Source of Assistance							
		No Participation	Participation(b)	In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Technical Assistance (i)	2,765	567	152	194	91	0	W	202
	Technical Information (k)	3,056	276	125	128	79	0	W	0
	Training (l)	3,201	131	78	W	17	0	0	0
	Financial Assistance (m)	W	W	0	Q	W	9	W	0
<b>315</b>	<b>APPAREL</b>								
	Participation in One or More of the Following Types of Activities	3,937	1,630	--	--	--	--	--	--
	Energy Audit or Assessment	4,875	692	Q	212	W	0	0	338
	Electricity Load Control	4,883	684	127	291	0	0	0	270
	Power Factor Correction or Improvement	5,188	379	W	16	0	0	0	363
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	5,157	410	W	W	0	0	0	338
	Standby Generation Program	5,080	487	W	W	W	0	0	341
	Special Rate Schedule (d)	4,908	659	--	283	0	--	--	377
	Interval Metering (e)	5,143	424	--	Q	0	--	--	341
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	5,335	232	12	0	0	0	0	221
	Compressed Air Systems (a)	5,151	416	Q	0	Q	0	0	239
	Direct/Indirect Process Heating	5,420	Q	12	0	0	0	0	Q
	Direct Process Cooling, Refrigeration	5,430	Q	9	0	W	0	0	Q
	Direct Machine Drive (h)	5,357	210	10	0	0	0	0	200
	Facility HVAC (i)	5,310	257	Q	0	7	0	0	162
	Facility Lighting	4,969	598	233	W	W	0	0	230
	Receiving energy-management support in the form of:								
	Technical Assistance (i)	4,994	573	W	198	Q	0	0	338
	Technical Information (k)	5,541	26	19	14	0	0	0	0
	Training (l)	5,523	44	Q	18	W	0	0	0
	Financial Assistance (m)	W	W	W	0	0	0	0	0
<b>316</b>	<b>LEATHER AND ALLIED PRODUCTS</b>								
	Participation in One or More of the Following Types of Activities	450	237	--	--	--	--	--	--
	Energy Audit or Assessment	545	142	16	64	W	0	0	58
	Electricity Load Control	621	66	Q	0	W	0	0	58
	Power Factor Correction or Improvement	610	77	0	W	0	0	0	55
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	601	86	W	Q	W	0	0	55
	Standby Generation Program	632	55	W	0	0	0	0	Q
	Special Rate Schedule (d)	633	Q	--	W	W	--	--	Q
	Interval Metering (e)	627	60	--	5	0	--	--	55
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	664	23	12	0	W	0	0	Q
	Compressed Air Systems (a)	577	110	78	0	5	0	0	Q
	Direct/Indirect Process Heating	641	46	11	0	4	0	0	W
	Direct Process Cooling, Refrigeration	638	49	W	W	W	0	0	W
	Direct Machine Drive (h)	622	65	24	W	16	0	0	Q
	Facility HVAC (i)	620	67	Q	0	7	0	0	Q
	Facility Lighting	556	131	55	W	W	0	0	Q
	Receiving energy-management support in the form of:								
	Technical Assistance (i)	609	78	W	23	16	0	0	Q
	Technical Information (k)	635	52	Q	47	10	0	0	0
	Training (l)	675	12	Q	W	3	0	0	0
	Financial Assistance (m)	610	77	Q	Q	0	0	W	W

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Source of Assistance				
					Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
321	<b>WOOD PRODUCTS</b>								
	Participation in One or More of the Following Types of Activities	6,378	4,407	--	--	--	--	--	--
	Energy Audit or Assessment	8,802	1,983	792	689	265	11	115	570
	Electricity Load Control	9,132	1,653	513	497	144	W	9	628
	Power Factor Correction or Improvement	9,396	1,389	450	345	154	Q	7	600
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	9,995	790	166	68	137	Q	Q	550
	Standby Generation Program	10,042	743	148	62	Q	0	0	513
	Special Rate Schedule (d)	9,499	1,286	--	680	33	--	--	588
	Interval Metering (e)	9,976	809	--	253	6	--	--	553
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	9,995	790	225	8	138	5	Q	446
	Compressed Air Systems (g)	9,242	1,543	893	77	224	6	9	512
	Direct/Indirect Process Heating	10,071	714	210	3	69	0	0	459
	Direct Process Cooling, Refrigeration	10,236	549	119	0	Q	0	0	400
	Direct Machine Drive (h)	9,354	1,431	775	116	185	3	9	504
	Facility HVAC (i)	9,610	1,175	481	93	196	0	4	498
	Facility Lighting	9,197	1,588	714	250	268	5	Q	561
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	9,128	1,657	490	442	409	Q	90	539
	Technical Information (k)	10,026	759	388	253	284	12	59	W
	Training (l)	10,145	640	209	211	231	3	56	Q
	Financial Assistance (m)	10,236	549	96	354	133	13	56	4
321113	<b>Sawmills</b>								
	Participation in One or More of the Following Types of Activities	1,310	972	--	--	--	--	--	--
	Energy Audit or Assessment	1,820	462	157	209	41	8	35	109
	Electricity Load Control	1,909	373	117	144	35	W	0	110
	Power Factor Correction or Improvement	1,892	390	188	96	35	Q	0	112
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	2,119	163	66	11	Q	W	W	86
	Standby Generation Program	2,138	144	36	18	3	0	0	95
	Special Rate Schedule (d)	1,986	296	--	174	20	--	--	109
	Interval Metering (e)	2,081	201	--	92	W	--	--	108
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	2,111	171	66	W	22	W	0	96
	Compressed Air Systems (g)	1,922	360	189	Q	43	5	6	118
	Direct/Indirect Process Heating	2,103	179	56	0	21	0	0	116
	Direct Process Cooling, Refrigeration	2,190	92	3	0	W	0	0	88
	Direct Machine Drive (h)	1,882	400	196	Q	71	W	3	136
	Facility HVAC (i)	2,044	238	59	Q	34	0	0	111
	Facility Lighting	1,982	300	104	61	27	3	9	122
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	1,891	391	156	101	100	Q	14	86
	Technical Information (k)	2,073	209	113	61	103	7	15	0
	Training (l)	2,096	186	105	45	74	W	15	5
	Financial Assistance (m)	2,078	204	31	92	24	10	26	4
3212	<b>Veneer, Plywood, and Engineered Woods</b>								
	Participation in One or More of the Following Types of Activities	893	569	--	--	--	--	--	--

**Table 8.1 Number of Establishments by Participation In General Energy-Management Activities, 2006:**

### Level: National Data:

### Row: General Energy-Management Activities within NAICS Codes:

## Column: Participation and Source of Assistance:

### **Unit: Establishment Counts.**

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Assistance					
				In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	<b>Using a Different Energy Source (c)</b>	3,712	245	131	18	65	4	5	91
	Standby Generation Program	3,747	210	38	27	8	0	W	150
	Special Rate Schedule (d)	3,252	705	--	400	89	--	--	275
	Interval Metering (e)	3,494	463	--	194	35	--	--	246
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	3,304	653	429	11	157	W	9	141
	Compressed Air Systems (g)	3,056	901	629	25	194	W	21	204
	Direct/Indirect Process Heating	3,519	438	247	W	99	4	4	153
	Direct Process Cooling, Refrigeration	3,664	293	102	0	83	W	W	146
	Direct Machine Drive (h)	3,082	875	643	46	206	5	19	163
	Facility HVAC (i)	3,320	637	282	11	201	W	4	176
	Facility Lighting	3,038	919	558	76	286	8	42	162
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	2,907	1,050	432	285	498	14	45	133
	Technical Information (k)	3,277	680	352	194	337	60	48	Q
	Training (l)	3,439	518	273	200	240	38	72	W
	Financial Assistance (m)	3,718	239	26	121	Q	14	94	W
<b>322110</b>	<b>Pulp Mills</b>								
	Participation in One or More of the Following Types of Activities	4	28	--	--	--	--	--	--
	Energy Audit or Assessment	11	21	14	4	4	W	W	W
	Electricity Load Control	17	15	12	6	0	0	0	0
	Power Factor Correction or Improvement	17	15	10	W	W	0	0	W
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	W	W	W	0	W	0	0	0
	Standby Generation Program	23	9	5	4	W	0	0	0
	Special Rate Schedule (d)	10	22	--	17	0	--	--	5
	Interval Metering (e)	16	16	--	12	0	--	--	4
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	15	17	16	0	5	0	0	0
	Compressed Air Systems (g)	21	11	10	0	4	0	0	0
	Direct/Indirect Process Heating	17	15	15	0	W	0	0	0
	Direct Process Cooling, Refrigeration	27	5	5	0	0	0	0	0
	Direct Machine Drive (h)	18	14	14	0	W	0	W	0
	Facility HVAC (i)	22	10	9	0	W	0	0	0
	Facility Lighting	18	14	10	W	W	0	0	W
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	11	21	15	5	10	0	0	W
	Technical Information (k)	16	16	12	5	6	0	0	0
	Training (l)	11	21	12	6	9	W	0	0
	Financial Assistance (m)	23	9	5	W	0	W	W	0
<b>322121</b>	<b>Paper Mills, except Newsprint</b>								
	Participation in One or More of the Following Types of Activities	49	239	--	--	--	--	--	--
	Energy Audit or Assessment	102	186	132	44	52	34	19	6
	Electricity Load Control	171	117	67	50	11	0	9	26
	Power Factor Correction or Improvement	173	115	73	26	11	W	W	27
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	224	64	34	6	14	W	W	23
	Standby Generation Program	248	40	13	9	0	0	0	21
	Special Rate Schedule (d)	178	110	--	86	7	--	--	21
	Interval Metering (e)	199	89	--	57	14	--	--	24

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data;  
 Row: General Energy-Management Activities within NAICS Codes;  
 Column: Participation and Source of Assistance;  
 Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Utility/Energy Supplier	Product/Service Provider	Source of Assistance		
							Federal Program	State/Local Program	Don't Know
<b>Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:</b>									
	Steam Production/System (f)	173	115	83	W	37	W	6	17
	Compressed Air Systems (a)	150	138	105	11	27	0	4	24
	Direct/Indirect Process Heating	212	76	52	W	7	W	W	21
	Direct Process Cooling, Refrigeration	251	37	16	0	W	0	0	20
	Direct Machine Drive (h)	150	138	97	17	32	W	16	23
	Facility HVAC (i)	203	85	52	W	14	0	W	24
	Facility Lighting	163	125	75	20	20	W	11	24
<b>Receiving energy-management support in the form of:</b>									
	Technical Assistance (j)	100	188	113	44	100	9	20	10
	Technical Information (k)	153	135	95	32	60	17	10	0
	Training (l)	172	116	64	42	57	11	20	W
	Financial Assistance (m)	202	86	16	36	6	6	47	W
<b>322122</b>	<b>Newsprint Mills</b>								
<b>Participation in One or More of the Following Types of Activities</b>									
	Energy Audit or Assessment	3	17	--	--	--	--	--	--
	Electricity Load Control	6	14	11	W	W	3	W	0
	Power Factor Correction or Improvement	11	9	8	W	0	0	0	W
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	14	6	6	0	0	0	0	0
	Standby Generation Program	20	0	0	0	0	0	0	0
	Special Rate Schedule (d)	W	W	W	0	0	0	0	0
	Interval Metering (e)	9	11	--	9	0	--	--	W
	Interval Metering (e)	15	5	--	3	0	--	--	W
<b>Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:</b>									
	Steam Production/System (f)	15	5	3	W	3	0	0	0
	Compressed Air Systems (a)	12	8	8	W	5	0	0	0
	Direct/Indirect Process Heating	15	5	3	0	W	0	0	0
	Direct Process Cooling, Refrigeration	20	0	0	0	0	0	0	0
	Direct Machine Drive (h)	12	8	8	W	W	0	0	0
	Facility HVAC (i)	17	3	3	0	0	0	0	0
	Facility Lighting	14	6	5	W	3	0	0	0
<b>Receiving energy-management support in the form of:</b>									
	Technical Assistance (j)	5	15	14	5	8	0	W	0
	Technical Information (k)	9	11	9	3	6	W	3	0
	Training (l)	11	9	5	W	5	0	W	0
	Financial Assistance (m)	17	3	W	W	0	0	0	0
<b>322130</b>	<b>Paperboard Mills</b>								
<b>Participation in One or More of the Following Types of Activities</b>									
	Energy Audit or Assessment	33	167	--	--	--	--	--	--
	Electricity Load Control	80	120	85	30	24	12	7	16
	Power Factor Correction or Improvement	119	81	48	20	10	0	0	20
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	116	84	52	17	7	0	0	20
	Standby Generation Program	162	38	22	4	14	0	0	12
	Special Rate Schedule (d)	170	30	9	7	4	0	0	14
	Interval Metering (e)	116	84	--	63	5	--	--	16
	Interval Metering (e)	145	55	--	31	7	--	--	20
<b>Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:</b>									
	Steam Production/System (f)	116	84	58	5	26	0	W	13
	Compressed Air Systems (a)	115	85	55	W	30	0	W	14

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

		Source of Assistance							
NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Direct/Indirect Process Heating	146	54	37	W	13	0	0	17
	Direct Process Cooling, Refrigeration	173	27	10	0	7	0	0	14
	Direct Machine Drive (h)	94	106	76	5	29	W	0	20
	Facility HVAC (i)	153	47	30	W	9	0	0	12
	Facility Lighting	132	68	37	9	17	0	W	16
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	88	112	60	21	65	W	4	9
	Technical Information (k)	124	76	54	16	37	5	0	W
	Training (l)	125	75	42	21	30	W	W	0
	Financial Assistance (m)	176	24	W	12	0	W	9	0
323	<b>PRINTING AND RELATED SUPPORT</b>								
	Participation in One or More of the Following Types of Activities	12,746	6,171	--	--	--	--	--	--
	Energy Audit or Assessment	16,486	2,431	969	717	331	W	Q	607
	Electricity Load Control	17,648	1,269	264	333	0	0	0	694
	Power Factor Correction or Improvement	17,744	1,173	W	246	Q	0	0	607
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	18,029	888	Q	W	Q	0	0	520
	Standby Generation Program	18,123	794	Q	W	0	0	0	666
	Special Rate Schedule (d)	17,483	1,434	--	714	W	--	--	715
	Interval Metering (e)	18,132	785	--	Q	0	--	--	520
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	18,297	620	W	0	Q	0	0	520
	Compressed Air Systems (a)	16,767	2,150	1,346	W	339	0	0	614
	Direct/Indirect Process Heating	18,213	704	Q	W	Q	0	0	520
	Direct Process Cooling, Refrigeration	18,283	634	Q	0	0	0	0	520
	Direct Machine Drive (h)	17,905	1,012	397	0	W	0	0	528
	Facility HVAC (i)	16,483	2,434	734	Q	541	0	0	1,135
	Facility Lighting	16,732	2,185	659	Q	333	0	0	961
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	17,395	1,522	321	380	333	W	W	607
	Technical Information (k)	18,347	570	237	Q	70	W	0	0
	Training (l)	18,337	580	Q	Q	Q	Q	Q	0
	Financial Assistance (m)	18,675	242	W	Q	Q	W	0	W
324	<b>PETROLEUM AND COAL PRODUCTS</b>								
	Participation in One or More of the Following Types of Activities	570	1,243	--	--	--	--	--	--
	Energy Audit or Assessment	1,156	658	403	132	190	17	4	59
	Electricity Load Control	1,398	415	179	125	83	0	0	121
	Power Factor Correction or Improvement	1,489	325	167	84	Q	0	0	87
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	1,630	183	82	W	65	0	0	66
	Standby Generation Program	1,688	126	61	9	W	0	0	61
	Special Rate Schedule (d)	1,441	372	--	188	81	--	--	105
	Interval Metering (e)	1,683	130	--	42	Q	--	--	79
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	1,525	289	211	39	114	0	0	Q
	Compressed Air Systems (a)	1,573	241	168	Q	51	0	0	Q
	Direct/Indirect Process Heating	1,586	228	127	W	50	W	0	65
	Direct Process Cooling, Refrigeration	1,722	92	24	W	16	W	0	57
	Direct Machine Drive (h)	1,395	418	249	78	70	0	0	68
	Facility HVAC (i)	1,656	157	61	Q	39	0	0	63

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data;

Row: General Energy-Management Activities within NAICS Codes;

Column: Participation and Source of Assistance;

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Assistance					
				In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Facility Lighting	1,573	241	127	Q	Q	6	W	60
	Receiving energy-management support in the form of:								
	Technical Assistance (l)	1,205	608	232	82	296	6	4	111
	Technical Information (k)	1,427	386	270	70	167	13	Q	0
	Training (l)	1,312	501	235	150	185	7	12	W
	Financial Assistance (m)	1,657	156	10	117	Q	4	7	W
324110	<b>Petroleum Refineries</b>								
	Participation in One or More of the Following Types of Activities	16	193	--	--	--	--	--	--
	Energy Audit or Assessment	76	133	113	9	34	9	0	W
	Electricity Load Control	158	51	32	12	6	0	0	12
	Power Factor Correction or Improvement	145	64	45	13	W	0	0	W
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	170	39	31	W	7	0	0	7
	Standby Generation Program	177	32	23	9	W	0	0	6
	Special Rate Schedule (d)	156	53	--	34	W	--	--	18
	Interval Metering (e)	174	35	--	13	W	--	--	19
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	110	99	91	6	28	0	0	W
	Compressed Air Systems (a)	156	53	39	W	20	0	0	W
	Direct/Indirect Process Heating	130	79	67	W	22	0	0	6
	Direct Process Cooling, Refrigeration	175	34	20	W	16	W	0	W
	Direct Machine Drive (h)	134	75	58	W	18	0	0	10
	Facility HVAC (i)	177	32	19	W	10	0	0	7
	Facility Lighting	164	45	37	W	W	W	0	6
	Receiving energy-management support in the form of:								
	Technical Assistance (l)	69	140	108	22	70	W	0	4
	Technical Information (k)	83	126	94	16	60	10	W	0
	Training (l)	104	105	79	13	54	7	7	0
	Financial Assistance (m)	178	31	10	15	4	W	W	W
324199	<b>Other Petroleum and Coal Products</b>								
	Participation in One or More of the Following Types of Activities	16	32	--	--	--	--	--	--
	Energy Audit or Assessment	32	16	13	W	W	0	0	W
	Electricity Load Control	37	11	5	W	W	0	0	W
	Power Factor Correction or Improvement	39	9	5	0	W	0	0	W
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	W	W	W	0	0	0	0	W
	Standby Generation Program	41	7	4	0	W	0	0	W
	Special Rate Schedule (d)	41	7	--	4	0	--	--	W
	Interval Metering (e)	43	5	--	4	0	--	--	W
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	36	12	9	0	W	0	0	W
	Compressed Air Systems (a)	36	12	8	W	4	0	0	W
	Direct/Indirect Process Heating	39	9	8	0	W	0	0	W
	Direct Process Cooling, Refrigeration	43	5	4	0	0	0	0	W
	Direct Machine Drive (h)	37	11	8	0	W	0	0	W
	Facility HVAC (i)	40	8	4	0	W	0	0	W
	Facility Lighting	37	11	8	W	W	0	0	W
	Receiving energy-management support in the form of:								
	Technical Assistance (l)	35	13	9	W	4	0	W	W
	Technical Information (k)	36	12	9	W	W	0	0	0

**Table 8.1 Number of Establishments by Participation In General Energy-Management Activities, 2006:**

### Level: National Data:

### Row: General Energy-Management Activities within NAICS Codes:

## Row: General Energy-Management Activities with Column: Participation and Source of Assistance:

### Unit: Establishment Counts.

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Assistance					
				In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Participation in One or More of the Following Types of Activities	151	409	--	--	--	--	--	--
	Energy Audit or Assessment	385	175	144	9	0	5	0	23
	Electricity Load Control	339	221	138	20	0	0	0	70
	Power Factor Correction or Improvement	472	88	12	6	0	0	0	70
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	545	15	W	0	0	0	0	12
	Standby Generation Program	480	80	19	0	0	0	0	62
	Special Rate Schedule (d)	380	180	--	88	0	--	--	93
	Interval Metering (e)	318	242	--	150	0	--	--	92
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	521	39	28	W	0	0	0	12
	Compressed Air Systems (g)	537	23	11	W	0	0	0	12
	Direct/Indirect Process Heating	540	20	8	W	0	0	0	12
	Direct Process Cooling, Refrigeration	535	25	10	W	0	0	0	16
	Direct Machine Drive (h)	515	45	11	W	0	0	0	34
	Facility HVAC (i)	512	48	32	4	0	0	0	14
	Facility Lighting	470	90	24	0	W	0	0	16
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	455	105	82	0	W	0	0	23
	Technical Information (k)	421	139	110	W	0	9	0	0
	Training (l)	415	145	108	W	W	0	W	0
	Financial Assistance (m)	W	W	W	0	0	0	0	0
325181	<b>Alkalies and Chlorine</b>								
	Participation in One or More of the Following Types of Activities	W	W	--	--	--	--	--	--
	Energy Audit or Assessment	12	20	16	W	W	W	0	W
	Electricity Load Control	15	17	15	W	0	0	0	W
	Power Factor Correction or Improvement	13	19	17	0	0	0	0	W
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	23	9	4	0	W	0	0	W
	Standby Generation Program	28	4	0	W	W	0	0	W
	Special Rate Schedule (d)	16	16	--	15	0	--	--	W
	Interval Metering (e)	19	13	--	10	W	--	--	W
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	23	9	9	0	0	0	0	0
	Compressed Air Systems (g)	23	9	6	0	W	0	0	W
	Direct/Indirect Process Heating	28	4	4	0	0	0	0	0
	Direct Process Cooling, Refrigeration	W	W	W	0	0	0	0	0
	Direct Machine Drive (h)	16	16	16	0	0	0	0	0
	Facility HVAC (i)	25	7	7	0	W	0	0	0
	Facility Lighting	23	9	9	0	0	0	0	0
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	16	16	9	0	6	0	0	W
	Technical Information (k)	19	13	9	0	W	W	0	0
	Training (l)	16	16	12	W	W	0	0	0
	Financial Assistance (m)	28	4	W	W	0	0	W	0
325182	<b>Carbon Black</b>								
	Participation in One or More of the Following Types of Activities	8	16	--	--	--	--	--	--
	Energy Audit or Assessment	13	11	11	W	0	0	0	0
	Electricity Load Control	16	8	7	0	0	0	0	W

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data;

Row: General Energy-Management Activities within NAICS Codes;

Column: Participation and Source of Assistance;

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Assistance					
				In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Power Factor Correction or Improvement	14	10	10	0	0	0	0	0
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	W	W	W	W	W	0	0	0
	Standby Generation Program	W	W	0	W	0	0	0	0
	Special Rate Schedule (d)	W	W	--	W	0	--	--	W
	Interval Metering (e)	W	W	--	W	0	--	--	W
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency Affecting:</b>								
	Steam Production/System (f)	16	8	8	0	W	0	0	0
	Compressed Air Systems (g)	18	6	4	0	W	0	0	0
	Direct/Indirect Process Heating	18	6	6	0	W	0	0	0
	Direct Process Cooling, Refrigeration	W	W	W	0	0	0	0	0
	Direct Machine Drive (h)	17	7	6	0	W	0	0	0
	Facility HVAC (i)	20	4	W	0	W	0	0	0
	Facility Lighting	18	6	4	0	W	0	0	0
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	16	8	8	0	W	0	0	0
	Technical Information (k)	14	10	10	0	0	0	0	0
	Training (l)	14	10	10	0	0	0	0	0
	Financial Assistance (m)	24	0	0	0	0	0	0	0
<b>325188</b>	<b>Other Basic Inorganic Chemicals</b>								
	Participation in One or More of the Following Types of Activities	220	253	--	--	--	--	--	--
	Energy Audit or Assessment	361	112	77	55	26	4	4	W
	Electricity Load Control	437	36	26	4	4	0	W	3
	Power Factor Correction or Improvement	414	59	28	22	8	0	W	3
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	450	23	21	0	W	0	0	W
	Standby Generation Program	442	31	21	W	W	0	0	W
	Special Rate Schedule (d)	401	72	--	67	W	--	--	4
	Interval Metering (e)	445	28	--	25	W	--	--	W
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency Affecting:</b>								
	Steam Production/System (f)	389	84	73	W	20	0	0	W
	Compressed Air Systems (g)	396	77	58	W	25	W	0	0
	Direct/Indirect Process Heating	392	81	78	W	7	0	0	0
	Direct Process Cooling, Refrigeration	416	57	Q	W	Q	W	0	W
	Direct Machine Drive (h)	346	127	123	0	9	0	0	W
	Facility HVAC (i)	411	62	41	W	23	W	0	0
	Facility Lighting	374	99	61	Q	Q	W	0	Q
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	371	102	82	22	33	0	W	W
	Technical Information (k)	374	99	66	29	14	W	W	0
	Training (l)	413	60	37	20	27	3	4	0
	Financial Assistance (m)	450	23	W	Q	Q	W	W	0
<b>325192</b>	<b>Cyclic Crudes and Intermediates</b>								
	Participation in One or More of the Following Types of Activities	6	19	--	--	--	--	--	--
	Energy Audit or Assessment	15	10	7	0	W	0	0	W
	Electricity Load Control	16	9	5	W	W	0	0	W
	Power Factor Correction or Improvement	19	6	4	0	W	0	0	W
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	21	4	4	0	0	0	0	0
	Standby Generation Program	21	4	4	0	0	0	0	0

**Table 8.1 Number of Establishments by Participation In General Energy-Management Activities, 2006:**

### Level: National Data:

#### Row: General Energy-Management Activities within NAICS Codes:

## Row: General Energy-Management Activities with Column: Participation and Source of Assistance:

### Unit: Establishment Counts.

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data;

Row: General Energy-Management Activities within NAICS Codes;

Column: Participation and Source of Assistance;

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	Source of Assistance							
		No Participation	Participation(b)	In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Steam Production/System (f)	361	127	113	0	18	0	W	10
	Compressed Air Systems (a)	391	97	80	3	20	W	W	9
	Direct/Indirect Process Heating	400	88	71	0	13	0	0	12
	Direct Process Cooling, Refrigeration	439	49	34	0	9	0	0	10
	Direct Machine Drive (h)	357	131	113	W	19	0	0	15
	Facility HVAC (i)	379	108	63	W	21	0	0	36
	Facility Lighting	343	144	97	Q	21	0	W	17
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	273	215	115	58	87	4	W	18
	Technical Information (k)	354	134	72	49	40	13	10	0
	Training (l)	361	127	73	28	43	4	13	W
	Financial Assistance (m)	462	26	6	7	W	7	9	0
325211	<b>Plastics Materials and Resins</b>								
	Participation in One or More of the Following Types of Activities	168	390	--	--	--	--	--	--
	Energy Audit or Assessment	351	207	128	68	38	14	6	W
	Electricity Load Control	451	107	52	27	29	0	W	Q
	Power Factor Correction or Improvement	440	118	89	19	31	0	Q	15
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	494	64	Q	W	12	0	0	10
	Standby Generation Program	471	87	77	W	Q	0	0	8
	Special Rate Schedule (d)	464	94	--	64	W	--	--	29
	Interval Metering (e)	491	67	--	36	5	--	--	28
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	461	97	84	4	36	0	W	4
	Compressed Air Systems (a)	434	124	89	Q	38	0	W	W
	Direct/Indirect Process Heating	506	52	47	W	9	0	5	W
	Direct Process Cooling, Refrigeration	479	79	63	0	Q	0	W	Q
	Direct Machine Drive (h)	437	121	112	5	36	0	W	W
	Facility HVAC (i)	505	53	32	0	25	0	W	4
	Facility Lighting	421	137	58	Q	48	0	5	Q
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	350	208	148	44	71	4	6	5
	Technical Information (k)	350	208	139	44	39	Q	W	0
	Training (l)	416	142	80	40	53	7	11	W
	Financial Assistance (m)	526	32	W	Q	Q	0	4	W
325212	<b>Synthetic Rubber</b>								
	Participation in One or More of the Following Types of Activities	26	66	--	--	--	--	--	--
	Energy Audit or Assessment	50	42	31	7	8	W	0	7
	Electricity Load Control	71	21	11	W	W	0	0	7
	Power Factor Correction or Improvement	74	18	11	W	W	0	0	7
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	82	10	W	0	W	0	0	7
	Standby Generation Program	79	13	6	0	W	0	0	7
	Special Rate Schedule (d)	72	20	--	8	W	--	--	8
	Interval Metering (e)	78	14	--	6	0	--	--	8
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	64	28	22	0	6	0	0	4
	Compressed Air Systems (a)	61	31	26	0	W	0	0	4
	Direct/Indirect Process Heating	78	14	8	0	W	0	0	4
	Direct Process Cooling, Refrigeration	77	15	11	0	W	0	0	4

**Table 8.1 Number of Establishments by Participation In General Energy-Management Activities, 2006:**

### Level: National Data:

#### Row: General Energy-Management Activities within NAICS Codes:

## Row: General Energy Management Activities with Column: Participation and Source of Assistance:

### Unit: Establishment Counts

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Source of Assistance				
					Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
325312	Technical Assistance (i)	38	27	19	W	15	0	0	W
	Technical Information (k)	51	14	10	0	8	W	0	0
	Training (l)	51	14	5	5	5	0	0	0
	Financial Assistance (m)	57	8	W	5	W	W	W	0
<b>Phosphatic Fertilizers</b>									
Participation in One or More of the Following Types of Activities		4	28	--	--	--	--	--	--
Energy Audit or Assessment		20	12	7	W	0	W	W	W
Electricity Load Control		19	13	11	W	0	0	0	W
Power Factor Correction or Improvement		20	12	8	W	0	0	0	W
Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)		21	11	8	0	W	0	0	W
Standby Generation Program		21	11	W	0	0	0	0	8
Special Rate Schedule (d)		13	19	--	16	0	--	--	W
Interval Metering (e)		19	13	--	5	0	--	--	8
Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:									
Steam Production/System (f)		23	9	8	0	0	0	0	W
Compressed Air Systems (a)		20	12	9	0	0	0	0	W
Direct/Indirect Process Heating		23	9	8	0	0	0	0	W
Direct Process Cooling, Refrigeration		24	8	7	0	0	0	0	W
Direct Machine Drive (h)		15	17	16	0	W	0	0	W
Facility HVAC (i)		21	11	7	W	0	0	0	W
Facility Lighting		19	13	8	W	W	0	0	W
Receiving energy-management support in the form of:									
Technical Assistance (i)		15	17	12	W	4	0	0	4
Technical Information (k)		19	13	9	W	0	W	0	0
Training (l)		20	12	11	W	W	W	0	0
Financial Assistance (m)		W	W	0	W	0	0	0	0
<b>3254 Pharmaceuticals and Medicines</b>									
Participation in One or More of the Following Types of Activities		424	699	--	--	--	--	--	--
Energy Audit or Assessment		795	328	218	83	105	7	10	22
Electricity Load Control		921	202	84	64	Q	W	9	38
Power Factor Correction or Improvement		951	172	105	41	Q	W	W	23
Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)		1,003	120	42	Q	Q	W	W	24
Standby Generation Program		956	167	82	22	15	0	5	51
Special Rate Schedule (d)		903	220	--	175	12	--	--	41
Interval Metering (e)		1,015	108	--	55	4	--	--	51
Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:									
Steam Production/System (f)		898	225	162	17	83	W	W	23
Compressed Air Systems (a)		818	305	191	7	119	W	W	47
Direct/Indirect Process Heating		960	163	55	Q	Q	W	W	22
Direct Process Cooling, Refrigeration		912	211	98	Q	109	W	W	22
Direct Machine Drive (h)		777	346	240	Q	92	W	7	30
Facility HVAC (i)		748	375	200	59	144	W	W	28
Facility Lighting		712	411	237	102	114	W	6	31
Receiving energy-management support in the form of:									
Technical Assistance (i)		704	419	197	166	219	4	8	22
Technical Information (k)		826	297	122	142	136	13	Q	W
Training (l)		870	253	103	121	105	7	23	W
Financial Assistance (m)		994	129	19	82	W	6	38	0

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data;

Row: General Energy-Management Activities within NAICS Codes;

Column: Participation and Source of Assistance;

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Source of Assistance				
					Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
<b>325412 Pharmaceutical Preparation</b>									
	Participation in One or More of the Following Types of Activities	187	393	--	--	--	--	--	--
	Energy Audit or Assessment	379	201	145	51	68	3	7	19
	Electricity Load Control	494	86	44	26	15	W	8	22
	Power Factor Correction or Improvement	486	94	61	31	12	W	W	20
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	526	54	30	5	10	W	W	20
	Standby Generation Program	504	76	25	18	13	0	5	21
	Special Rate Schedule (d)	452	128	--	97	6	--	--	31
	Interval Metering (e)	514	66	--	32	4	--	--	32
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	444	136	104	14	42	W	W	19
	Compressed Air Systems (g)	426	154	122	5	33	W	W	21
	Direct/Indirect Process Heating	493	87	30	Q	8	W	W	19
	Direct Process Cooling, Refrigeration	472	108	49	Q	29	W	W	19
	Direct Machine Drive (h)	373	207	138	Q	28	W	5	25
	Facility HVAC (i)	353	227	145	Q	52	W	W	23
	Facility Lighting	356	224	150	Q	50	W	3	27
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	337	243	97	92	155	W	3	19
	Technical Information (k)	401	179	80	98	80	8	3	W
	Training (l)	439	141	43	73	82	5	13	W
	Financial Assistance (m)	506	74	18	31	W	W	25	0
<b>325992 Photographic Film, Paper, Plate, and Chemicals</b>									
	Participation in One or More of the Following Types of Activities	57	89	--	--	--	--	--	--
	Energy Audit or Assessment	105	41	23	14	12	W	0	0
	Electricity Load Control	124	22	14	12	6	0	0	0
	Power Factor Correction or Improvement	133	13	6	7	W	0	0	0
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	136	10	W	0	7	0	0	W
	Standby Generation Program	136	10	0	W	7	0	W	0
	Special Rate Schedule (d)	120	26	--	25	6	--	--	0
	Interval Metering (e)	128	18	--	18	W	--	--	0
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	134	12	10	W	7	0	W	0
	Compressed Air Systems (g)	107	39	33	0	14	0	W	W
	Direct/Indirect Process Heating	139	7	4	W	W	0	0	0
	Direct Process Cooling, Refrigeration	133	13	9	W	6	0	0	0
	Direct Machine Drive (h)	121	25	21	0	11	0	W	0
	Facility HVAC (i)	118	28	17	W	20	0	0	0
	Facility Lighting	86	60	36	8	27	W	0	Q
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	110	36	17	14	17	4	W	W
	Technical Information (k)	115	31	17	13	14	4	0	0
	Training (l)	121	25	11	14	7	5	4	0
	Financial Assistance (m)	130	16	W	10	0	0	W	0
<b>326 PLASTICS AND RUBBER PRODUCTS</b>									
	Participation in One or More of the Following Types of Activities	4,184	5,639	--	--	--	--	--	--

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	Source of Assistance						
		No Participation	Participation(b)	In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program
	Energy Audit or Assessment	6,668	3,155	1,536	934	592	116	Q
	Electricity Load Control	8,123	1,700	628	526	134	W	W
	Power Factor Correction or Improvement	8,111	1,712	673	303	291	W	W
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	9,118	705	228	W	Q	0	0
	Standby Generation Program	9,129	694	152	0	W	0	0
	Special Rate Schedule (d)	8,301	1,522	--	892	91	--	--
	Interval Metering (e)	8,886	937	--	318	6	--	--
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:							
	Steam Production/System (f)	9,080	743	211	W	143	0	W
	Compressed Air Systems (g)	7,460	2,363	1,525	169	416	W	W
	Direct/Indirect Process Heating	8,668	1,155	549	W	199	0	0
	Direct Process Cooling, Refrigeration	8,936	887	320	Q	93	0	0
	Direct Machine Drive (h)	7,811	2,012	1,137	169	364	0	0
	Facility HVAC (i)	8,038	1,785	812	Q	431	0	0
	Facility Lighting	7,223	2,600	1,335	362	630	Q	Q
	Receiving energy-management support in the form of:							
	Technical Assistance (j)	7,518	2,305	562	732	642	112	Q
	Technical Information (k)	8,487	1,336	557	506	438	Q	Q
	Training (l)	8,644	1,179	497	359	387	Q	163
	Financial Assistance (m)	9,220	603	122	225	121	112	Q
327	<b>NONMETALLIC MINERAL PRODUCTS</b>							
	Participation in One or More of the Following Types of Activities	7,350	4,626	--	--	--	--	--
	Energy Audit or Assessment	9,783	2,193	982	461	342	71	Q
	Electricity Load Control	10,495	1,481	304	378	79	W	W
	Power Factor Correction or Improvement	10,588	1,388	381	173	101	W	0
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	10,804	1,172	239	Q	142	W	W
	Standby Generation Program	11,020	956	239	11	29	0	0
	Special Rate Schedule (d)	10,909	1,067	--	325	Q	--	--
	Interval Metering (e)	11,042	934	--	161	19	--	--
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:							
	Steam Production/System (f)	11,168	808	312	0	Q	0	0
	Compressed Air Systems (g)	10,367	1,609	1,059	18	371	W	3
	Direct/Indirect Process Heating	10,912	1,064	397	Q	157	W	W
	Direct Process Cooling, Refrigeration	11,428	547	100	W	Q	0	W
	Direct Machine Drive (h)	10,450	1,526	886	20	253	0	3
	Facility HVAC (i)	10,453	1,523	651	90	410	0	0
	Facility Lighting	10,245	1,731	891	202	304	3	11
	Receiving energy-management support in the form of:							
	Technical Assistance (j)	10,197	1,779	549	268	603	Q	15
	Technical Information (k)	11,149	827	497	241	240	49	13
	Training (l)	11,086	890	693	162	204	Q	28
	Financial Assistance (m)	11,406	570	105	170	128	Q	158
327211	<b>Flat Glass</b>							
	Participation in One or More of the Following Types of Activities	8	34	--	--	--	--	--
	Energy Audit or Assessment	20	22	17	4	W	3	W
	Electricity Load Control	33	9	3	W	3	0	W
	Power Factor Correction or Improvement	29	13	9	4	W	0	W
	Equipment Installation or Retrofit for the Primary Purpose of							

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data;  
 Row: General Energy-Management Activities within NAICS Codes;  
 Column: Participation and Source of Assistance;  
 Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Source of Assistance				
					Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
<b>Using a Different Energy Source (c)</b>									
Standby Generation Program		W	W	W	0	0	0	0	0
Special Rate Schedule (d)		31	11	8	W	W	0	0	W
Interval Metering (e)		24	18	--	13	W	--	--	W
Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:		34	8	--	6	0	--	--	W
Steam Production/System (f)		W	W	W	0	0	0	0	0
Compressed Air Systems (g)		25	17	14	0	3	0	0	W
Direct/Indirect Process Heating		36	6	4	0	W	0	0	W
Direct Process Cooling, Refrigeration		36	6	6	0	W	0	0	0
Direct Machine Drive (h)		27	15	14	0	3	0	0	0
Facility HVAC (i)		33	9	7	W	W	0	0	W
Facility Lighting		30	12	8	0	4	0	0	W
Receiving energy-management support in the form of:									
Technical Assistance (j)		21	21	11	6	9	0	W	0
Technical Information (k)		29	13	4	6	8	3	0	0
Training (l)		29	13	6	4	7	0	0	0
Financial Assistance (m)		38	4	0	4	W	0	W	0
<b>327212 Other Pressed and Blown Glass and Glassware</b>									
Participation in One or More of the Following Types of Activities		40	117	--	--	--	--	--	--
Energy Audit or Assessment		106	51	20	7	7	Q	0	Q
Electricity Load Control		126	31	W	Q	W	0	0	11
Power Factor Correction or Improvement		108	49	Q	Q	Q	0	0	12
Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)		143	14	5	0	W	0	W	Q
Standby Generation Program		114	43	34	0	W	0	0	Q
Special Rate Schedule (d)		140	17	--	8	W	--	--	Q
Interval Metering (e)		142	15	--	4	0	--	--	11
Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:									
Steam Production/System (f)		146	11	3	0	W	0	0	Q
Compressed Air Systems (g)		107	50	41	0	Q	0	0	Q
Direct/Indirect Process Heating		125	32	9	0	3	W	0	Q
Direct Process Cooling, Refrigeration		147	Q	W	0	0	0	0	Q
Direct Machine Drive (h)		111	46	Q	0	Q	0	W	Q
Facility HVAC (i)		129	28	9	0	Q	0	0	Q
Facility Lighting		112	45	32	Q	Q	W	W	11
Receiving energy-management support in the form of:									
Technical Assistance (j)		86	71	25	10	46	0	0	Q
Technical Information (k)		125	32	27	Q	Q	Q	W	0
Training (l)		122	35	Q	Q	Q	W	Q	0
Financial Assistance (m)		154	3	0	0	0	W	W	W
<b>327213 Glass Containers</b>									
Participation in One or More of the Following Types of Activities		0	55	--	--	--	--	--	--
Energy Audit or Assessment		15	40	34	12	5	0	W	3
Electricity Load Control		43	12	8	3	W	0	0	W
Power Factor Correction or Improvement		22	33	29	W	0	0	0	3
Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)		40	15	12	W	W	0	0	3
Standby Generation Program		45	10	7	W	0	0	0	W
Special Rate Schedule (d)		35	20	--	16	0	--	--	3
Interval Metering (e)		36	19	--	15	W	--	--	W

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data;  
 Row: General Energy-Management Activities within NAICS Codes;  
 Column: Participation and Source of Assistance;  
 Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Source of Assistance				
					Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
<b>Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:</b>									
	Steam Production/System (f)	W	W	0	0	0	0	0	W
	Compressed Air Systems (a)	17	38	32	W	7	0	W	3
	Direct/Indirect Process Heating	38	17	15	W	W	0	W	W
	Direct Process Cooling, Refrigeration	50	5	W	0	W	0	0	W
	Direct Machine Drive (h)	31	24	22	W	W	0	W	W
	Facility HVAC (i)	43	12	9	0	W	0	0	W
	Facility Lighting	36	19	15	W	3	0	W	W
<b>Receiving energy-management support in the form of:</b>									
	Technical Assistance (i)	24	31	22	3	9	W	W	W
	Technical Information (k)	33	22	19	W	9	W	W	0
	Training (l)	38	17	17	W	6	0	W	0
	Financial Assistance (m)	51	4	W	4	W	0	W	0
<b>327215</b>	<b>Glass Products from Purchased Glass</b>								
<b>Participation in One or More of the Following Types of Activities</b>									
	Energy Audit or Assessment	404	364	--	--	--	--	--	--
	Electricity Load Control	638	130	49	53	18	W	5	Q
	Power Factor Correction or Improvement	674	94	29	42	9	0	W	Q
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	684	84	40	12	12	0	0	Q
	Standby Generation Program	734	34	12	0	5	0	0	Q
	Special Rate Schedule (d)	730	38	11	3	6	0	0	Q
	Interval Metering (e)	707	61	--	35	6	--	--	Q
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:	717	51	--	22	3	--	--	Q
	Steam Production/System (f)	717	51	8	0	11	0	0	38
	Compressed Air Systems (a)	636	132	75	Q	18	0	W	38
	Direct/Indirect Process Heating	692	76	22	Q	5	0	0	38
	Direct Process Cooling, Refrigeration	732	36	8	0	5	0	0	Q
	Direct Machine Drive (h)	644	124	67	Q	20	0	0	40
	Facility HVAC (i)	621	147	62	Q	58	0	0	Q
	Facility Lighting	618	150	76	20	22	W	4	44
<b>Receiving energy-management support in the form of:</b>									
	Technical Assistance (i)	676	92	31	28	41	0	7	Q
	Technical Information (k)	712	55	32	16	23	0	W	W
	Training (l)	708	60	34	17	14	0	W	W
	Financial Assistance (m)	734	34	W	20	W	0	12	Q
<b>327310</b>	<b>Cements</b>								
<b>Participation in One or More of the Following Types of Activities</b>									
	Energy Audit or Assessment	53	135	--	--	--	--	--	--
	Electricity Load Control	113	75	41	19	16	Q	5	7
	Power Factor Correction or Improvement	114	74	43	20	14	W	0	5
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	113	75	39	18	13	W	0	7
	Standby Generation Program	145	43	12	W	5	W	0	13
	Special Rate Schedule (d)	158	Q	7	W	0	0	0	4
	Interval Metering (e)	132	56	--	48	5	--	--	6
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:	156	32	--	25	5	--	--	5
	Steam Production/System (f)	171	17	3	0	0	0	0	14
	Compressed Air Systems (a)	118	70	44	W	20	W	W	17

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Assistance					
				In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Direct/Indirect Process Heating	168	20	15	W	5	0	W	5
	Direct Process Cooling, Refrigeration	180	8	4	0	W	0	0	4
	Direct Machine Drive (h)	130	58	49	W	10	0	W	7
	Facility HVAC (i)	159	Q	Q	0	3	0	0	4
	Facility Lighting	144	44	36	W	3	0	0	6
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	113	75	38	14	32	Q	3	5
	Technical Information (k)	133	55	23	17	14	Q	W	W
	Training (l)	128	60	32	8	15	Q	W	W
	Financial Assistance (m)	155	Q	3	7	W	Q	W	W
327410	lime								
	Participation in One or More of the Following Types of Activities	16	46	--	--	--	--	--	--
	Energy Audit or Assessment	40	22	13	W	W	0	0	6
	Electricity Load Control	49	13	7	W	W	0	0	W
	Power Factor Correction or Improvement	40	22	11	6	W	0	0	6
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	55	7	W	W	W	0	0	W
	Standby Generation Program	55	7	W	W	W	0	0	W
	Special Rate Schedule (d)	51	11	--	6	0	--	--	W
	Interval Metering (e)	56	6	--	W	0	--	--	5
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	55	7	W	0	W	0	0	5
	Compressed Air Systems (a)	43	19	17	0	4	0	0	W
	Direct/Indirect Process Heating	45	17	15	0	5	0	0	W
	Direct Process Cooling, Refrigeration	55	7	W	0	0	0	0	5
	Direct Machine Drive (h)	36	26	22	W	6	0	0	W
	Facility HVAC (i)	52	10	9	0	W	0	0	W
	Facility Lighting	41	21	19	0	W	0	0	W
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	35	27	17	5	11	0	0	W
	Technical Information (k)	40	22	16	5	6	0	0	0
	Training (l)	44	18	12	W	4	0	W	W
	Financial Assistance (m)	W	W	W	W	0	0	0	0
327420	Gyosum								
	Participation in One or More of the Following Types of Activities	42	103	--	--	--	--	--	--
	Energy Audit or Assessment	68	77	60	3	47	W	0	9
	Electricity Load Control	140	5	W	W	W	0	0	W
	Power Factor Correction or Improvement	89	56	44	3	W	0	0	Q
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	W	W	0	0	W	0	0	W
	Standby Generation Program	W	W	0	0	W	0	0	W
	Special Rate Schedule (d)	117	28	--	24	W	--	--	W
	Interval Metering (e)	117	28	--	25	0	--	--	4
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	141	4	W	0	W	0	0	W
	Compressed Air Systems (a)	121	24	18	0	Q	0	0	W
	Direct/Indirect Process Heating	136	9	5	0	3	0	0	W
	Direct Process Cooling, Refrigeration	W	W	0	0	W	0	0	W
	Direct Machine Drive (h)	92	53	49	W	W	0	0	W
	Facility HVAC (i)	139	6	W	0	4	0	0	0

**Table 8.1 Number of Establishments by Participation In General Energy-Management Activities, 2006:**

### Level: National Data:

### Row: General Energy-Management Activities within NAICS Codes:

## Column: Participation and Source of Assistance:

### **Unit: Establishment Counts.**

Source of Assistance									
NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Facility Lighting	131	14	9	3	3	0	0	W
	Receiving energy-management support in the form of:								
	Technical Assistance (i)	83	62	11	6	48	0	0	W
	Technical Information (k)	94	51	44	4	6	0	0	0
	Training (l)	96	49	6	40	W	0	0	0
	Financial Assistance (m)	142	3	W	W	0	0	0	0
<b>327993</b>	<b>Mineral Wool</b>								
	Participation in One or More of the Following Types of Activities	130	58	--	--	--	--	--	--
	Energy Audit or Assessment	152	36	24	3	8	W	W	6
	Electricity Load Control	177	11	6	4	0	0	0	3
	Power Factor Correction or Improvement	164	24	13	4	3	0	0	6
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	184	4	0	0	0	0	0	4
	Standby Generation Program	184	4	W	0	0	0	0	W
	Special Rate Schedule (d)	164	24	--	15	3	--	--	8
	Interval Metering (e)	167	21	--	12	W	--	--	8
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	180	8	6	0	W	0	0	W
	Compressed Air Systems (g)	159	29	24	W	7	0	0	3
	Direct/Indirect Process Heating	175	13	11	W	4	0	0	W
	Direct Process Cooling, Refrigeration	182	6	W	0	W	0	0	W
	Direct Machine Drive (h)	165	23	18	0	3	0	0	5
	Facility HVAC (i)	176	12	11	0	3	0	0	W
	Facility Lighting	172	16	13	0	8	W	W	W
	Receiving energy-management support in the form of:								
	Technical Assistance (i)	159	29	17	W	13	W	W	3
	Technical Information (k)	155	33	17	4	14	4	W	W
	Training (l)	167	21	15	4	9	W	0	0
	Financial Assistance (m)	181	7	W	3	0	W	W	0
<b>331</b>	<b>PRIMARY METALS</b>								
	Participation in One or More of the Following Types of Activities	1,133	2,157	--	--	--	--	--	--
	Energy Audit or Assessment	2,062	1,228	624	366	251	44	54	237
	Electricity Load Control	2,398	892	450	268	68	W	14	220
	Power Factor Correction or Improvement	2,388	902	443	236	119	6	9	257
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	2,907	383	110	49	53	4	Q	222
	Standby Generation Program	2,907	383	179	27	15	0	0	178
	Special Rate Schedule (d)	2,401	889	--	606	81	--	--	259
	Interval Metering (e)	2,803	487	--	236	38	--	--	231
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	3,008	282	102	6	45	4	5	165
	Compressed Air Systems (g)	2,364	926	580	33	258	Q	4	216
	Direct/Indirect Process Heating	2,794	496	270	13	120	W	7	172
	Direct Process Cooling, Refrigeration	2,993	297	125	W	34	4	0	163
	Direct Machine Drive (h)	2,519	771	453	29	220	8	5	207
	Facility HVAC (i)	2,632	658	374	41	192	7	W	158
	Facility Lighting	2,283	1,007	556	205	272	15	7	168
	Receiving energy-management support in the form of:								
	Technical Assistance (i)	2,264	1,026	379	330	430	23	45	210
	Technical Information (k)	2,646	644	341	259	221	31	20	6

**Table 8.1 Number of Establishments by Participation In General Energy-Management Activities, 2006:**

### Level: National Data:

#### Row: General Energy-Management Activities within NAICS Codes:

## Row: General Energy-Management Activities with Column: Participation and Source of Assistance:

### Unit: Establishment Counts

Source of Assistance									
NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Training (l)	2,694	596	240	251	160	22	38	15
	Financial Assistance (m)	3,037	253	20	121	31	21	76	W
<b>331111</b>	<b>Iron and Steel Mills</b>								
	Participation in One or More of the Following Types of Activities	109	239	--	--	--	--	--	--
	Energy Audit or Assessment	210	138	91	W	38	9	11	13
	Electricity Load Control	220	128	84	36	16	W	W	17
	Power Factor Correction or Improvement	232	116	80	27	18	W	W	18
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	311	37	20	6	10	W	0	14
	Standby Generation Program	311	37	18	W	4	0	0	18
	Special Rate Schedule (d)	219	129	--	104	11	--	--	21
	Interval Metering (e)	270	78	--	47	13	--	--	23
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	304	44	27	0	13	4	W	14
	Compressed Air Systems (g)	253	95	74	W	W	0	W	14
	Direct/Indirect Process Heating	270	78	57	W	33	W	W	11
	Direct Process Cooling, Refrigeration	315	33	17	W	9	W	0	14
	Direct Machine Drive (h)	254	94	68	W	38	W	0	14
	Facility HVAC (i)	267	81	55	W	31	W	0	14
	Facility Lighting	259	89	62	18	26	W	W	14
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	199	149	81	48	84	9	W	13
	Technical Information (k)	239	109	65	28	54	14	4	W
	Training (l)	251	97	61	23	41	16	W	W
	Financial Assistance (m)	318	30	6	11	W	4	16	0
<b>331112</b>	<b>Electrometallurgical Ferroalloy Products</b>								
	Participation in One or More of the Following Types of Activities	5	14	--	--	--	--	--	--
	Energy Audit or Assessment	11	7	5	W	7	0	0	0
	Electricity Load Control	9	9	5	W	0	0	0	W
	Power Factor Correction or Improvement	11	7	5	0	W	0	0	W
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	W	W	W	0	0	0	0	0
	Standby Generation Program	18	0	0	0	0	0	0	0
	Special Rate Schedule (d)	14	5	--	5	0	--	--	0
	Interval Metering (e)	18	0	--	0	0	--	--	0
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	14	5	5	0	0	0	0	0
	Compressed Air Systems (g)	14	5	5	0	W	0	0	0
	Direct/Indirect Process Heating	11	7	7	W	W	0	0	0
	Direct Process Cooling, Refrigeration	W	W	W	0	W	0	0	0
	Direct Machine Drive (h)	W	W	W	0	W	0	0	0
	Facility HVAC (i)	W	W	W	0	W	0	0	0
	Facility Lighting	11	7	5	0	5	W	0	0
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	11	7	W	0	7	0	0	0
	Technical Information (k)	11	7	W	W	W	0	0	W
	Training (l)	9	9	W	5	W	0	0	W
	Financial Assistance (m)	W	W	0	0	0	W	0	0

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Assistance					
				In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Participation in One or More of the Following Types of Activities	186	260	--	--	--	--	--	--
	Energy Audit or Assessment	298	148	84	48	35	W	8	16
	Electricity Load Control	360	86	38	W	6	0	W	18
	Power Factor Correction or Improvement	348	98	54	10	15	0	W	24
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	W	W	W	6	14	0	0	9
	Standby Generation Program	425	21	6	W	0	0	0	14
	Special Rate Schedule (d)	387	59	--	43	5	--	--	13
	Interval Metering (e)	403	43	--	19	3	--	--	22
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	421	25	10	W	9	0	W	11
	Compressed Air Systems (g)	323	123	73	W	45	0	0	18
	Direct/Indirect Process Heating	402	44	18	W	W	0	W	12
	Direct Process Cooling, Refrigeration	W	W	W	0	0	0	0	10
	Direct Machine Drive (h)	297	149	88	6	54	0	0	19
	Facility HVAC (i)	352	94	49	W	31	W	0	12
	Facility Lighting	310	136	63	8	60	0	0	17
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	319	127	W	26	73	W	9	9
	Technical Information (k)	387	59	37	18	24	0	W	0
	Training (l)	388	58	17	27	17	0	7	0
	Financial Assistance (m)	408	38	W	5	7	4	21	W
3313	<b>Alumina and Aluminum</b>								
	Participation in One or More of the Following Types of Activities	107	277	--	--	--	--	--	--
	Energy Audit or Assessment	221	163	86	36	27	13	9	38
	Electricity Load Control	286	98	48	31	7	0	W	23
	Power Factor Correction or Improvement	263	121	60	37	W	W	0	34
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	330	54	26	10	8	W	0	22
	Standby Generation Program	339	45	17	Q	W	0	0	22
	Special Rate Schedule (d)	292	92	--	63	5	--	--	27
	Interval Metering (e)	325	59	--	28	6	--	--	27
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	347	37	18	W	9	0	0	17
	Compressed Air Systems (g)	276	108	75	0	31	0	0	21
	Direct/Indirect Process Heating	301	83	49	W	31	0	0	21
	Direct Process Cooling, Refrigeration	347	37	14	0	W	W	0	21
	Direct Machine Drive (h)	W	W	W	W	25	0	W	26
	Facility HVAC (i)	W	W	W	7	W	0	0	20
	Facility Lighting	279	105	66	17	30	W	0	21
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	234	150	75	43	56	9	9	19
	Technical Information (k)	287	97	52	32	34	9	W	0
	Training (l)	304	80	48	22	21	W	W	W
	Financial Assistance (m)	W	W	7	7	4	6	Q	0
331314	<b>Secondary Smelting and Alloying of Aluminum</b>								
	Participation in One or More of the Following Types of Activities	26	71	--	--	--	--	--	--
	Energy Audit or Assessment	58	39	21	14	6	W	W	7
	Electricity Load Control	75	22	6	8	6	0	W	7

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:****Level: National Data:****Row: General Energy-Management Activities within NAICS Codes:****Column: Participation and Source of Assistance:****Unit: Establishment Counts.**

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Source of Assistance					
				In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Power Factor Correction or Improvement	68	29	10	10	6	0	0	14
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	83	14	6	4	W	0	0	8
	Standby Generation Program	90	7	W	0	0	0	0	6
	Special Rate Schedule (d)	78	19	--	12	0	--	--	7
	Interval Metering (e)	87	10	--	W	0	--	--	7
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency Affecting:</b>								
	Steam Production/System (f)	90	7	W	0	0	0	0	4
	Compressed Air Systems (g)	75	22	12	0	8	0	0	4
	Direct/Indirect Process Heating	82	15	7	0	8	0	0	4
	Direct Process Cooling, Refrigeration	91	6	W	0	W	0	0	4
	Direct Machine Drive (h)	73	24	11	W	7	0	W	8
	Facility HVAC (i)	75	22	8	4	4	0	0	7
	Facility Lighting	69	28	14	6	6	0	0	8
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	62	35	14	15	11	W	W	6
	Technical Information (k)	76	21	11	13	4	W	W	0
	Training (l)	78	19	11	8	4	0	0	0
	Financial Assistance (m)	W	W	0	0	W	0	0	0
<b>331315</b>	<b>Aluminum Sheet, Plate and Foils</b>								
	Participation in One or More of the Following Types of Activities	12	44	--	--	--	--	--	--
	Energy Audit or Assessment	25	31	25	6	7	7	W	0
	Electricity Load Control	36	20	17	6	W	0	0	W
	Power Factor Correction or Improvement	41	15	10	5	W	0	0	4
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	49	7	6	W	5	0	0	0
	Standby Generation Program	48	8	8	0	W	0	0	0
	Special Rate Schedule (d)	42	14	--	11	W	--	--	W
	Interval Metering (e)	44	12	--	9	4	--	--	W
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency Affecting:</b>								
	Steam Production/System (f)	44	12	11	W	7	0	0	0
	Compressed Air Systems (g)	37	19	16	0	10	0	0	0
	Direct/Indirect Process Heating	40	16	12	W	6	0	0	W
	Direct Process Cooling, Refrigeration	46	10	7	0	W	W	0	W
	Direct Machine Drive (h)	36	20	19	0	10	0	0	W
	Facility HVAC (i)	41	15	9	W	9	0	0	0
	Facility Lighting	40	16	14	5	6	0	0	0
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	21	35	17	12	16	5	W	0
	Technical Information (k)	37	19	10	4	7	5	0	0
	Training (l)	40	16	11	W	6	W	W	W
	Financial Assistance (m)	51	5	W	4	W	0	0	0
<b>331316</b>	<b>Aluminum Extruded Products</b>								
	Participation in One or More of the Following Types of Activities	48	102	--	--	--	--	--	--
	Energy Audit or Assessment	91	59	11	13	5	W	5	29
	Electricity Load Control	119	31	7	12	0	0	0	13
	Power Factor Correction or Improvement	103	47	19	15	5	0	0	15
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	133	17	5	W	0	0	0	12
	Standby Generation Program	133	17	0	Q	0	0	0	13

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data;  
 Row: General Energy-Management Activities within NAICS Codes;  
 Column: Participation and Source of Assistance;  
 Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Source of Assistance				
					Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Special Rate Schedule (d)	114	36	--	21	W	--	--	14
	Interval Metering (e)	125	25	--	9	W	--	--	16
<b>Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:</b>									
	Steam Production/System (f)	139	11	W	0	W	0	0	10
	Compressed Air Systems (a)	104	46	32	0	8	0	0	11
	Direct/Indirect Process Heating	115	35	19	0	11	0	0	11
	Direct Process Cooling, Refrigeration	133	17	3	0	W	0	0	12
	Direct Machine Drive (h)	117	33	18	0	5	0	0	13
	Facility HVAC (i)	125	25	9	W	5	0	0	11
	Facility Lighting	111	39	23	3	11	W	0	11
<b>Receiving energy-management support in the form of:</b>									
	Technical Assistance (j)	101	49	18	9	19	0	7	12
	Technical Information (k)	124	26	9	9	12	0	0	0
	Training (l)	132	18	5	9	5	0	0	0
	Financial Assistance (m)	141	9	W	3	0	Q	Q	0
<b>3314</b>	<b>Nonferrous Metals, except Aluminum</b>								
	Participation in One or More of the Following Types of Activities	191	383	--	--	--	--	--	--
	Energy Audit or Assessment	360	214	109	76	41	W	8	Q
	Electricity Load Control	438	136	110	24	11	0	W	W
	Power Factor Correction or Improvement	393	181	98	42	28	0	0	W
<b>Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)</b>									
	Standby Generation Program	496	78	60	0	W	0	0	Q
	Special Rate Schedule (d)	466	108	--	60	9	--	--	Q
	Interval Metering (e)	514	60	--	20	0	--	--	Q
<b>Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:</b>									
	Steam Production/System (f)	517	57	18	0	6	0	0	Q
	Compressed Air Systems (a)	423	151	92	W	41	0	0	Q
	Direct/Indirect Process Heating	483	91	46	0	11	0	0	Q
	Direct Process Cooling, Refrigeration	500	74	33	0	8	0	0	Q
	Direct Machine Drive (h)	451	123	76	0	W	0	W	Q
	Facility HVAC (i)	481	93	55	0	23	0	0	Q
	Facility Lighting	422	152	96	Q	24	W	W	8
<b>Receiving energy-management support in the form of:</b>									
	Technical Assistance (j)	434	140	44	38	65	0	W	Q
	Technical Information (k)	503	71	W	W	W	W	W	0
	Training (l)	440	134	W	70	W	0	7	0
	Financial Assistance (m)	525	49	0	23	W	W	12	0
<b>3315</b>	<b>Foundries</b>								
	Participation in One or More of the Following Types of Activities	535	985	--	--	--	--	--	--
	Energy Audit or Assessment	961	559	250	171	103	16	18	125
	Electricity Load Control	1,084	436	166	156	29	0	0	154
	Power Factor Correction or Improvement	1,141	379	146	120	42	W	0	140
<b>Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)</b>									
	Standby Generation Program	1,335	185	34	21	18	0	W	123
	Special Rate Schedule (d)	1,317	203	78	21	7	0	0	106
	Interval Metering (e)	1,024	496	--	332	Q	--	--	156
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:	1,273	247	--	122	15	--	--	120

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	Source of Assistance							
		No Participation	Participation(b)	In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Steam Production/System (f)	1,405	115	24	W	8	0	0	88
	Compressed Air Systems (a)	1,077	443	262	17	114	Q	W	122
	Direct/Indirect Process Heating	1,326	194	93	4	35	0	0	88
	Direct Process Cooling, Refrigeration	1,388	132	49	0	10	0	0	82
	Direct Machine Drive (h)	1,214	306	153	18	82	W	W	109
	Facility HVAC (i)	1,206	314	177	29	84	0	W	76
	Facility Lighting	1,002	518	265	121	128	Q	0	108
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	1,066	454	135	174	146	W	15	122
	Technical Information (k)	1,219	301	152	146	88	W	8	W
	Training (l)	1,301	219	82	106	61	W	17	10
	Financial Assistance (m)	1,406	114	W	75	11	W	23	0
<b>331511</b>	<b>Iron Foundries</b>								
	Participation in One or More of the Following Types of Activities	88	291	--	--	--	--	--	--
	Energy Audit or Assessment	238	141	78	42	28	Q	8	6
	Electricity Load Control	238	141	93	57	17	0	0	18
	Power Factor Correction or Improvement	264	115	79	39	18	0	0	13
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	353	26	7	4	5	0	0	14
	Standby Generation Program	343	36	17	Q	W	0	0	13
	Special Rate Schedule (d)	226	153	--	128	5	--	--	24
	Interval Metering (e)	306	73	--	54	13	--	--	13
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency Affecting:</b>								
	Steam Production/System (f)	365	14	5	W	5	0	0	6
	Compressed Air Systems (a)	262	117	78	10	38	W	W	Q
	Direct/Indirect Process Heating	349	30	19	W	7	0	0	8
	Direct Process Cooling, Refrigeration	366	13	5	0	W	0	0	8
	Direct Machine Drive (h)	298	81	53	7	30	W	0	15
	Facility HVAC (i)	312	67	48	8	31	0	0	6
	Facility Lighting	231	148	76	15	59	0	0	Q
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	240	139	63	64	47	0	9	13
	Technical Information (k)	296	83	51	44	32	W	W	W
	Training (l)	316	63	23	38	22	0	9	W
	Financial Assistance (m)	348	31	0	21	W	0	11	0
<b>331521</b>	<b>Aluminum Die-Casting Foundries</b>								
	Participation in One or More of the Following Types of Activities	58	127	--	--	--	--	--	--
	Energy Audit or Assessment	101	84	55	21	33	W	W	8
	Electricity Load Control	138	47	27	6	W	0	0	14
	Power Factor Correction or Improvement	143	42	22	15	5	0	0	13
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	163	22	4	0	Q	0	W	15
	Standby Generation Program	164	21	11	W	0	0	0	9
	Special Rate Schedule (d)	143	42	--	17	W	--	--	23
	Interval Metering (e)	168	17	--	5	W	--	--	11
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency Affecting:</b>								
	Steam Production/System (f)	171	14	Q	W	W	0	0	7
	Compressed Air Systems (a)	109	76	53	W	9	W	0	Q
	Direct/Indirect Process Heating	151	34	24	3	8	0	0	7
	Direct Process Cooling, Refrigeration	159	Q	Q	0	W	0	0	8

**Table 8.1 Number of Establishments by Participation In General Energy-Management Activities, 2006:**

### Level: National Data:

### Row: General Energy-Management Activities within NAICS Codes;

## Row: General Energy Management Activities with Column: Participation and Source of Assistance:

### Column: Participation and Unit: Establishment Counts.

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data;  
 Row: General Energy-Management Activities within NAICS Codes;  
 Column: Participation and Source of Assistance;  
 Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	Source of Assistance							
		No Participation	Participation(b)	In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	Technical Assistance (i)	30,699	4,901	1,061	1,012	1,568	Q	Q	1,990
	Technical Information (k)	33,395	2,205	675	614	1,000	Q	Q	Q
	Training (l)	33,855	1,745	702	694	657	W	Q	W
	Financial Assistance (m)	34,315	1,285	Q	541	342	W	322	0
333	<b>MACHINERY</b>								
	Participation in One or More of the Following Types of Activities	9,107	7,189	--	--	--	--	--	--
	Energy Audit or Assessment	13,435	2,861	1,177	1,270	598	W	Q	357
	Electricity Load Control	15,072	1,224	286	590	Q	0	0	278
	Power Factor Correction or Improvement	14,912	1,384	457	521	Q	0	0	351
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	15,542	754	Q	Q	Q	0	0	351
	Standby Generation Program	15,123	1,173	406	Q	0	0	W	592
	Special Rate Schedule (d)	14,915	1,381	--	678	W	--	--	625
	Interval Metering (e)	15,370	926	--	226	Q	--	--	614
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	15,659	637	Q	0	W	0	0	429
	Compressed Air Systems (a)	14,168	2,128	1,157	Q	498	0	0	429
	Direct/Indirect Process Heating	15,432	864	268	0	Q	0	0	506
	Direct Process Cooling, Refrigeration	15,483	813	230	0	0	0	0	584
	Direct Machine Drive (h)	14,734	1,562	816	Q	229	0	0	506
	Facility HVAC (i)	14,004	2,292	1,157	Q	811	0	0	429
	Facility Lighting	12,395	3,901	1,820	657	977	W	W	506
	Receiving energy-management support in the form of:								
	Technical Assistance (i)	13,980	2,316	376	978	944	W	Q	506
	Technical Information (k)	14,651	1,645	598	527	876	Q	W	0
	Training (l)	15,736	560	Q	405	181	Q	Q	0
	Financial Assistance (m)	15,466	830	Q	485	W	Q	Q	0
334	<b>COMPUTER AND ELECTRONIC PRODUCTS</b>								
	Participation in One or More of the Following Types of Activities	4,822	3,366	--	--	--	--	--	--
	Energy Audit or Assessment	6,202	1,986	850	761	252	Q	132	467
	Electricity Load Control	6,889	1,299	524	482	105	0	Q	479
	Power Factor Correction or Improvement	7,139	1,049	371	337	Q	0	0	468
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	7,482	706	215	162	27	0	Q	426
	Standby Generation Program	7,307	881	301	109	77	0	W	430
	Special Rate Schedule (d)	7,151	1,037	--	479	Q	--	--	555
	Interval Metering (e)	7,494	694	--	196	Q	--	--	464
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	7,551	637	193	139	110	0	W	304
	Compressed Air Systems (a)	6,910	1,278	738	63	306	0	Q	313
	Direct/Indirect Process Heating	7,591	597	293	11	106	0	W	272
	Direct Process Cooling, Refrigeration	7,555	633	327	19	Q	0	Q	273
	Direct Machine Drive (h)	7,149	1,039	508	132	275	0	W	370
	Facility HVAC (i)	6,446	1,742	807	178	561	0	Q	503
	Facility Lighting	6,206	1,982	966	397	537	0	98	452
	Receiving energy-management support in the form of:								
	Technical Assistance (i)	6,647	1,541	422	493	631	W	84	464
	Technical Information (k)	7,402	786	389	370	294	6	Q	W
	Training (l)	7,318	870	429	478	260	W	88	0
	Financial Assistance (m)	7,567	621	112	443	W	0	120	W

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Source of Assistance				
					Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
<b>334413 Semiconductors and Related Devices</b>									
	Participation in One or More of the Following Types of Activities	162	360	--	--	--	--	--	--
	Energy Audit or Assessment	299	223	103	51	14	6	5	80
	Electricity Load Control	362	160	65	50	6	0	W	91
	Power Factor Correction or Improvement	343	179	89	53	6	0	0	81
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	432	90	8	5	5	0	W	81
	Standby Generation Program	378	144	47	7	10	0	W	83
	Special Rate Schedule (d)	378	144	--	44	W	--	--	97
	Interval Metering (e)	409	113	--	35	4	--	--	77
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	431	91	13	0	W	0	0	78
	Compressed Air Systems (g)	328	194	102	6	13	0	W	87
	Direct/Indirect Process Heating	413	109	31	4	4	0	W	78
	Direct Process Cooling, Refrigeration	417	105	26	5	6	0	W	80
	Direct Machine Drive (h)	389	133	49	10	12	0	W	80
	Facility HVAC (i)	371	151	58	14	19	0	W	83
	Facility Lighting	330	192	82	15	21	0	W	96
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	312	210	82	72	45	W	9	77
	Technical Information (k)	438	84	29	49	34	4	6	W
	Training (l)	451	71	27	45	20	W	13	0
	Financial Assistance (m)	489	33	W	20	W	0	13	0
<b>335 ELEC. EQUIP., APPLIANCES, COMPONENTS</b>									
	Participation in One or More of the Following Types of Activities	1,629	1,967	--	--	--	--	--	--
	Energy Audit or Assessment	2,609	987	486	290	187	Q	113	95
	Electricity Load Control	3,073	523	177	229	0	0	W	117
	Power Factor Correction or Improvement	3,278	318	108	107	Q	0	W	101
	Equipment Installation or Retrofit for the <b>Primary Purpose of Using a Different Energy Source (c)</b>	3,408	188	93	0	10	0	0	95
	Standby Generation Program	3,328	268	137	W	W	0	0	71
	Special Rate Schedule (d)	3,146	450	--	311	Q	--	--	105
	Interval Metering (e)	3,349	247	--	71	W	--	--	167
	Equipment Installation or Retrofit for the <b>Primary Purpose of Improving Energy Efficiency</b> Affecting:								
	Steam Production/System (f)	3,461	135	110	0	30	0	0	W
	Compressed Air Systems (g)	2,794	802	435	19	364	0	0	Q
	Direct/Indirect Process Heating	3,384	212	169	W	Q	W	0	W
	Direct Process Cooling, Refrigeration	3,440	156	143	0	Q	0	0	W
	Direct Machine Drive (h)	3,158	438	315	Q	81	0	0	14
	Facility HVAC (i)	2,877	719	443	Q	162	0	0	98
	Facility Lighting	2,528	1,068	665	210	199	0	0	110
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	3,080	516	156	198	107	5	0	88
	Technical Information (k)	3,260	336	227	Q	85	W	0	0
	Training (l)	3,244	352	182	Q	52	0	Q	0
	Financial Assistance (m)	3,434	162	W	111	0	0	Q	W
<b>336 TRANSPORTATION EQUIPMENT</b>									
	Participation in One or More of the Following Types of Activities	2,962	4,062	--	--	--	--	--	--

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	Source of Assistance						
		No Participation	Participation(b)	In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program
	Energy Audit or Assessment	4,796	2,228	1,220	784	502	33	122
	Electricity Load Control	5,749	1,275	578	391	200	7	91
	Power Factor Correction or Improvement	5,871	1,153	502	419	168	4	W
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	6,378	646	230	110	141	Q	W
	Standby Generation Program	6,386	638	259	54	Q	0	W
	Special Rate Schedule (d)	6,122	902	--	483	68	--	--
	Interval Metering (e)	6,467	557	--	238	82	--	--
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:							
	Steam Production/System (f)	6,520	504	235	Q	125	0	W
	Compressed Air Systems (g)	5,467	1,557	1,138	185	391	W	Q
	Direct/Indirect Process Heating	6,454	570	271	5	141	W	0
	Direct Process Cooling, Refrigeration	6,484	540	314	Q	93	0	W
	Direct Machine Drive (h)	6,068	956	702	31	149	0	W
	Facility HVAC (i)	5,555	1,469	786	165	545	W	Q
	Facility Lighting	5,317	1,707	991	224	480	W	147
	Receiving energy-management support in the form of:							
	Technical Assistance (j)	5,193	1,831	666	669	721	28	86
	Technical Information (k)	5,751	1,273	622	631	501	125	20
	Training (l)	6,024	1,000	525	498	248	50	127
	Financial Assistance (m)	6,321	703	118	269	59	56	256
336111	<b>Automobiles</b>							
	Participation in One or More of the Following Types of Activities	29	48	--	--	--	--	--
	Energy Audit or Assessment	42	35	26	13	10	5	W
	Electricity Load Control	56	21	17	4	W	W	0
	Power Factor Correction or Improvement	48	29	20	7	W	W	W
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	68	9	8	5	W	W	0
	Standby Generation Program	67	10	9	0	0	0	W
	Special Rate Schedule (d)	59	18	--	12	W	--	--
	Interval Metering (e)	61	16	--	8	0	--	8
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:							
	Steam Production/System (f)	72	5	W	0	W	0	W
	Compressed Air Systems (g)	53	24	20	0	4	0	W
	Direct/Indirect Process Heating	61	16	13	0	0	0	W
	Direct Process Cooling, Refrigeration	69	8	7	0	0	0	W
	Direct Machine Drive (h)	60	17	13	W	5	0	W
	Facility HVAC (i)	55	22	17	0	4	0	0
	Facility Lighting	43	34	27	W	W	0	5
	Receiving energy-management support in the form of:							
	Technical Assistance (j)	48	29	20	17	16	W	W
	Technical Information (k)	49	28	24	9	12	4	W
	Training (l)	47	30	23	10	10	5	W
	Financial Assistance (m)	70	7	W	5	W	0	0
336112	<b>Light Trucks and Utility Vehicles</b>							
	Participation in One or More of the Following Types of Activities	9	38	--	--	--	--	--
	Energy Audit or Assessment	13	34	28	10	9	5	W
	Electricity Load Control	25	22	18	5	4	W	0
	Power Factor Correction or Improvement	27	20	14	8	5	W	0
	Equipment Installation or Retrofit for the Primary Purpose of							5

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Source of Assistance				
					Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
	<b>Using a Different Energy Source (c)</b>	43	4	W	W	W	0	0	W
	Standby Generation Program	39	8	5	0	0	0	0	W
	Special Rate Schedule (d)	32	15	--	10	0	--	--	5
	Interval Metering (e)	29	18	--	13	W	--	--	4
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	38	9	6	W	0	0	0	W
	Compressed Air Systems (g)	24	23	17	W	4	W	0	W
	Direct/Indirect Process Heating	33	14	13	W	W	W	0	W
	Direct Process Cooling, Refrigeration	38	9	8	0	0	0	0	W
	Direct Machine Drive (h)	29	18	15	W	4	0	0	W
	Facility HVAC (i)	28	19	13	0	5	0	0	4
	Facility Lighting	24	23	20	W	W	0	0	W
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	17	30	18	14	11	5	W	5
	Technical Information (k)	23	24	14	11	10	6	0	0
	Training (l)	23	24	18	11	9	5	W	0
	Financial Assistance (m)	39	8	5	5	W	0	0	0
3364	<b>Aerospace Products</b>								
	Participation in One or More of the Following Types of Activities	327	583	--	--	--	--	--	--
	Energy Audit or Assessment	593	317	210	98	47	6	Q	Q
	Electricity Load Control	756	154	107	21	4	0	W	28
	Power Factor Correction or Improvement	773	137	97	7	Q	0	W	25
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	810	100	55	5	Q	0	W	Q
	Standby Generation Program	820	90	51	12	W	0	W	27
	Special Rate Schedule (d)	810	100	--	68	W	--	--	32
	Interval Metering (e)	840	70	--	36	7	--	--	30
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:								
	Steam Production/System (f)	823	87	58	5	16	0	W	Q
	Compressed Air Systems (g)	662	248	177	69	115	0	W	21
	Direct/Indirect Process Heating	821	89	59	W	17	0	0	28
	Direct Process Cooling, Refrigeration	830	80	49	4	18	0	W	28
	Direct Machine Drive (h)	749	161	135	14	24	0	W	Q
	Facility HVAC (i)	689	221	156	21	104	W	Q	16
	Facility Lighting	581	329	206	37	162	W	Q	Q
	Receiving energy-management support in the form of:								
	Technical Assistance (j)	643	267	171	57	105	Q	Q	Q
	Technical Information (k)	673	237	141	110	117	Q	18	W
	Training (l)	719	191	106	98	59	14	22	0
	Financial Assistance (m)	789	121	Q	38	Q	Q	Q	0
336411	<b>Aircraft</b>								
	Participation in One or More of the Following Types of Activities	40	65	--	--	--	--	--	--
	Energy Audit or Assessment	58	47	35	14	6	3	W	3
	Electricity Load Control	85	20	12	W	3	0	W	5
	Power Factor Correction or Improvement	88	17	8	W	W	0	W	5
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	87	18	9	5	3	0	W	3
	Standby Generation Program	90	15	8	W	W	0	0	5
	Special Rate Schedule (d)	79	26	--	18	0	--	--	8
	Interval Metering (e)	93	12	--	8	W	--	--	3

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data;  
 Row: General Energy-Management Activities within NAICS Codes;  
 Column: Participation and Source of Assistance;  
 Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	In-house	Source of Assistance				
					Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program	Don't Know
<b>Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:</b>									
	Steam Production/System (f)	91	14	9	W	6	0	0	3
	Compressed Air Systems (a)	73	32	26	W	12	0	0	5
	Direct/Indirect Process Heating	91	14	9	0	5	0	0	5
	Direct Process Cooling, Refrigeration	90	15	8	0	3	0	0	6
	Direct Machine Drive (h)	79	26	21	W	3	0	0	3
	Facility HVAC (i)	68	37	27	9	12	W	0	5
	Facility Lighting	62	43	30	9	17	W	0	5
<b>Receiving energy-management support in the form of:</b>									
	Technical Assistance (j)	65	40	20	17	18	0	W	W
	Technical Information (k)	72	33	23	11	18	3	3	0
	Training (l)	67	38	20	23	11	W	3	0
	Financial Assistance (m)	91	14	3	11	5	W	W	0
<b>337</b>	<b>FURNITURE AND RELATED PRODUCTS</b>								
<b>Participation in One or More of the Following Types of Activities</b>									
	Energy Audit or Assessment	6,641	4,904	--	--	--	--	--	--
	Electricity Load Control	9,280	2,265	789	692	364	W	Q	583
	Power Factor Correction or Improvement	10,046	1,499	416	470	Q	0	0	693
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	10,221	1,324	245	212	Q	0	0	870
<b>Receiving energy-management support in the form of:</b>									
	Technical Assistance (j)	10,630	915	46	Q	21	0	0	672
	Standby Generation Program	10,888	657	Q	0	0	0	0	583
	Special Rate Schedule (d)	10,233	1,312	--	368	W	--	--	939
	Interval Metering (e)	10,896	649	--	W	W	--	--	583
<b>Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:</b>									
	Steam Production/System (f)	10,947	598	Q	W	Q	0	W	495
	Compressed Air Systems (a)	9,448	2,097	1,488	Q	Q	0	W	495
	Direct/Indirect Process Heating	10,447	1,098	226	Q	Q	0	W	675
	Direct Process Cooling, Refrigeration	10,838	707	W	W	Q	0	0	413
	Direct Machine Drive (h)	10,002	1,543	899	Q	Q	0	0	407
	Facility HVAC (i)	9,522	2,023	700	285	388	0	W	678
	Facility Lighting	8,823	2,722	1,384	552	311	0	W	760
<b>Receiving energy-management support in the form of:</b>									
	Technical Assistance (j)	9,844	1,701	342	327	463	W	W	692
	Technical Information (k)	10,690	855	350	343	237	20	Q	0
	Training (l)	10,715	830	569	Q	W	W	Q	W
	Financial Assistance (m)	11,090	455	Q	Q	Q	Q	Q	0
<b>339</b>	<b>MISCELLANEOUS</b>								
<b>Participation in One or More of the Following Types of Activities</b>									
	Energy Audit or Assessment	10,453	5,334	--	--	--	--	--	--
	Electricity Load Control	13,523	2,264	780	697	437	W	Q	526
	Power Factor Correction or Improvement	14,317	1,470	355	Q	W	0	W	787
	Equipment Installation or Retrofit for the Primary Purpose of Using a Different Energy Source (c)	14,538	1,249	231	250	43	0	0	785
<b>Receiving energy-management support in the form of:</b>									
	Standby Generation Program	14,796	991	371	Q	Q	0	0	441
	Special Rate Schedule (d)	14,688	1,099	573	W	Q	0	0	526
	Interval Metering (e)	14,764	1,023	--	318	Q	--	--	612
	Equipment Installation or Retrofit for the Primary Purpose of Improving Energy Efficiency Affecting:	15,160	627	--	W	W	--	--	530
	Steam Production/System (f)	14,963	824	Q	W	Q	0	0	612
	Compressed Air Systems (a)	13,781	2,006	967	0	394	0	0	782

**Table 8.1 Number of Establishments by Participation in General Energy-Management Activities, 2006:**

Level: National Data:

Row: General Energy-Management Activities within NAICS Codes:

Column: Participation and Source of Assistance:

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	Source of Assistance						
		No Participation	Participation(b)	In-house	Utility/Energy Supplier	Product/Service Provider	Federal Program	State/Local Program
	Direct/Indirect Process Heating	14,932	855	Q	0	W	0	0
	Direct Process Cooling, Refrigeration	14,692	1,095	313	0	Q	0	0
	Direct Machine Drive (h)	14,293	1,494	624	Q	Q	0	0
	Facility HVAC (i)	13,475	2,312	811	251	449	0	0
	Facility Lighting	12,564	3,223	1,561	486	495	0	W
	Receiving energy-management support in the form of:							
	Technical Assistance (j)	14,084	1,703	241	374	511	0	Q
	Technical Information (k)	14,970	817	352	141	285	0	W
	Training (l)	14,883	904	337	345	Q	0	Q
	Financial Assistance (m)	14,985	802	278	203	Q	W	W

(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 2006.

(c) One example is electrification of a subset of the manufacturing operation.

(d) Examples are interruptible rates and time-of-use rates.

(e) Needed to manage energy use for programs such as real-time pricing.

(f) Some examples are boilers, burners, insulation, and piping.

(g) Some examples are compressors, sizing, and leak reduction.

(h) Some examples are adjustable-speed drives, motors, pumps, and fans.

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

(j) Some examples are consultation, demonstrations, engineering design, and analysis.

(k) Two examples are software and reference materials.

(l) Some examples are workshops, seminars, and presentations.

(m) Some examples are loans, tax credits, rebates, and subsidies.

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, '2006 Manufacturing Energy Consumption Survey.'

Table 8.2 Number of Establishments by Usage of General Energy-Saving Technologies, 2006

Level: National Data;

Row: NAICS Codes;

Column: Usage within General Energy-Saving Technologies;

Unit: Establishment Counts.

NAICS Code(s)	Subsector and Industry	Establishments(b)	Computer Control of Processes or Major Energy-Using Equipment(d)			Waste Heat Recovery			Adjustable - Speed Motors			Oxy - Fuel Firing					
			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	In Use(e)	Not In Use	Don't Know	In Use(e)	Not In Use	Don't Know
			Total United States														
311	Food	14,128	1,632	9,940	2,556	3,509	8,048	2,571	1,590	9,609	2,929	6,260	5,014	2,854	422	9,945	3,762
3112	Grain and Oilseed Milling	580	59	475	46	300	236	Q	154	398	28	446	95	45	442	92	92
31121	Wet Corn Milling	47	9	34	4	36	W	W	27	6	38	3	6	8	24	16	16
31131	Sugar Manufacturing	77	7	61	9	58	13	7	50	19	9	59	9	9	W	59	W
3114	Fruit and Vegetable Preserving and Specialty Foods	1,125	187	788	150	363	610	151	207	763	155	694	288	143	72	812	241
3115	Dairy Products	1,044	235	671	138	501	406	137	325	549	170	783	143	118	64	716	264
3116	Animal Slaughtering and Processing	1,715	320	1,112	283	547	903	265	361	1,038	315	923	425	366	63	1,150	502
312	Beverage and Tobacco Products	1,830	394	1,286	150	777	901	152	404	1,227	199	1,042	498	290	112	1,409	309
3121	Beverages	1,758	374	1,234	150	747	W	W	1,166	W	996	476	286	108	1,352	298	
3122	Tobacco	72	20	52	0	30	W	W	61	W	46	22	4	4	57	57	57
313	Textile Mills	1,966	208	1,526	232	407	1,329	230	282	1,491	193	836	845	285	Q	1,516	408
314	Textile Product Mills	3,320	175	2,493	644	134	1,113	595	202	2,533	597	570	214	744	W	2,611	76
315	Apparel	5,547	256	4,189	1,122	219	4,092	1,257	Q	4,087	1,373	339	3,882	1,376	W	4,520	W
316	Leather and Allied Products	687	55	468	164	48	478	161	9	509	169	122	352	213	0	454	233
321	Wood Products	10,785	535	8,711	1,539	1,515	7,757	1,514	435	8,691	1,658	2,875	5,857	2,052	54	8,674	2,057
321113	Sawmills	2,282	112	1,815	355	464	1,461	357	107	1,756	419	753	1,035	494	19	1,792	471
3212	Veneer, Plywood, and Engineered Woods	1,461	207	1,007	247	316	960	185	86	1,154	222	432	781	249	28	1,111	323
3219	Other Wood Products	6,688	201	5,568	919	621	5,118	950	237	5,453	998	1,584	3,818	1,285	7	5,445	1,237
322	Paper	3,957	385	3,021	551	1,085	2,333	539	515	2,839	603	2,250	1,013	694	72	3,042	844
322110	Pulp Mills	32	7	21	4	25	4	4	21	7	4	27	0	5	7	18	6
322121	Paper Mills, except Newsprint	288	52	189	47	188	72	29	146	106	36	225	32	26	186	76	76
322122	Newsprint Mills	20	5	9	6	17	0	3	12	5	3	17	0	3	3	8	9
322123	Paperboard Mills	200	27	153	20	141	43	16	93	86	21	154	24	22	141	31	55
323	Printing and Related Support	18,916	2,096	13,919	2,901	1,083	14,890	2,944	392	15,739	2,786	2,964	12,176	3,775	0	15,665	3,052
324	Petroleum and Coal Products	1,814	135	1,415	264	784	748	282	287	1,294	232	920	550	334	88	1,277	449
324110	Petroleum Refineries	209	48	143	18	165	34	10	171	31	7	153	47	9	32	142	35
324199	Other Petroleum and Coal Products	48	5	35	8	24	19	5	12	31	5	35	9	4	5	33	9
325	Chemicals	8,625	1,566	6,085	974	2,770	4,902	953	1,135	6,219	1,271	4,386	3,040	1,199	307	6,705	1,613
325110	Petrochemicals	45	11	25	9	28	10	6	23	15	6	32	6	6	W	27	W
325120	Industrial Gases	560	5	508	47	395	120	45	30	469	61	110	403	47	53	452	55
325181	Alkalies and Chlorine	32	W	28	W	26	6	0	13	19	0	26	W	W	29	W	
325182	Carbon Black	23	W	18	W	20	W	16	W	W	16	4	0	11	13	13	
325192	Organic and Inorganic Chemicals	473	69	369	35	195	241	37	65	368	42	263	156	54	17	353	104
325193	Ethyl Alcohol	65	21	39	5	54	7	4	44	15	6	54	6	5	7	37	21
325199	Other Basic Organic Chemicals	488	85	342	61	266	168	53	149	253	85	382	36	69	39	345	103
325211	Plastics Materials and Resins	558	107	367	84	307	180	71	164	288	106	356	117	85	54	370	134
325212	Synthetic Rubber	92	8	74	10	33	52	7	20	63	10	66	14	13	4	71	17
325222	Noncellulosic Organic Fibers	77	25	45	7	25	7	24	43	10	49	18	10	4	60	13	13
325311	Nitrogenous Fertilizers	65	11	50	4	38	W	W	36	25	4	40	21	4	49	11	11
325312	Phosphate Fertilizers	32	W	25	W	23	5	4	19	W	W	24	W	W	24	W	
3254	Pharmaceuticals and Medicines	1,123	496	504	123	379	615	129	196	798	128	730	242	151	49	840	235
325412	Pharmaceutical Preparation	580	319	197	64	216	296	69	97	414	69	413	68	15	425	140	140
325492	Photographic Film, Paper, Plate, and Chemicals	147	33	104	10	37	90	18	12	118	17	63	66	17	4	120	21
327	Plastic and Rubber Products	9,823	1,337	6,900	1,586	1,916	6,385	1,523	824	111	1,888	3,619	4,356	1,866	72	7,647	2,104
3271	Nonmetallic Mineral Products	11,925	1,163	8,741	2,071	3,052	6,841	2,083	675	8,799	2,502	2,933	6,371	2,672	201	8,637	2,959
327211	Flat Glass	42	4	32	6	35	3	3	17	21	4	34	W	W	17	6	6
327212	Other Pressed and Blown Glass and Glassware	158	27	108	23	70	68	19	11	120	26	72	61	24	30	102	25
327213	Glass Containers	54	W	50	W	49	W	W	29	21	5	47	5	3	15	36	3
327215	Glass Products from Purchased Glass	769	114	558	97	244	433	91	46	631	91	269	400	99	11	628	130
327310	Cements	188	15	146	27	92	79	16	45	118	26	91	63	34	15	113	60
327410	Lime	62	6	49	7	33	19	10	12	39	11	47	6	9	W	46	W
327420	Gypsum	144	W	130	W	90	42	Q	16	123	6	116	16	Q	5	132	8
327993	Mineral Wool	188	9	154	25	36	127	25	19	141	28	71	93	24	13	145	13
331	Primary Metals	3,290	419	2,516	355	1,097	1,804	389	355	2,418	517	1,590	1,142	557	210	2,434	646
331111	Iron and Steel Mills	348	40	277	31	W	W	W	27	W	44	199	95	51	88	247	53
331112	Electrometallurgical Ferroalloy Products	18	7	11	0	W	W	0	W	W	0	9	9	0	18	0	0
3312	Steel Products from Purchased Steel	446	44	344	58	92	288	66	61	317	68	228	145	73	12	354	80
3313	Alumina and Aluminum	384	54	286	44	158	162	64	59	249	76	207	99	79	33	249	102
331314	Secondary Smelting and Alloying of Aluminum	96	12	72	12	44	37	15	10	67	21	50	28	19	17	58	22
331315	Aluminum Sheet, Plate and Foils	56	4	46	6	36	12	7	13	35	9	37	9	10	8	30	19
331316	Aluminum Extruded Products	150	27	105	18	39	79	32	20	91	39	69	42	39	W	100	W
331414	Nonferrous Metals, except Aluminum	574	108	433	33	170	373	32	34	456	84	325	204	45	46	445	83
3315	Foundries	1,520	166	1,165	189	490	830	200	125	1,150	245	624	587	310	31	1,161	328
331511	Iron Foundries	379	46	310	23	184	173	22	50	296	33	195	148	36	17	312	50
331521	Aluminum Die-Casting Foundries	185	29	114	42	62	86	Q	20	127	Q	72	69	44	44	139	W
331524	Fabricated Metal Products	309	20	242	47	82	178	48	9	244	56	67	164	56	244	W	
332	Machinery	16,296	2,042	12,249	1,985	1,293	13,017	1,985	650	13,531	2,115	2,800	10,410	3,086	Q	13,557	2,599
334	Computer and Electronic Products	8,189	2,050	5,151	988	1,379	5,784	1,024	245	6,829	1,114	1,249	5,463	1,475	61	6,770	1,357
334413	Semiconductors and Related Devices	523	248	148	127	231	160	131	23	310	189	191	126	205	6	315	200
335	Electrical Equip., Appliances, and Components	3,595	616	2,692	287	501	2,750	345	132	3,098	366						

**Table 8.2 Number of Establishments by Usage of General Energy-Saving Technologies, 2006:**

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 Environment(c)			Computer Control of Processes or Major Energy- Using Equipment(d)			Waste Heat Recovery			Adjustable - Speed Motors			Oxy - Fuel Firing		
			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	In Use(e)	Not In Use	Don't Know	In Use(e)	Not In Use	Don't Know

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, "2006 Manufacturing Energy Consumption Survey."

**Table 8.3 Number of Establishments by Usage of Cogeneration Technologies, 2006:**  
**Level: National Data;**  
**Row: NAICS Codes;**  
**Column: Usage within Cogeneration Technologies;**  
**Unit: Establishment Counts.**

NAICS Code(s)	Subsector and Industry	Establishments(b)	Technology In Use(c)	Establishments with Any Cogeneration				Steam Turbines Supplied by Either Conventional or Fluidized Bed Boilers				Conventional Combustion Turbines with Heat Recovery				Combined-Cycle Combustion Turbines				Internal Combustion Engines with Heat Recovery				Steam Turbines Supplied by Heat Recovered from High- Temperature Processes				
				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	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	In Use(d)	Not In Use	Don't Know				
		Total United States																										
311	Food	14,128	297	99	11,338	2,691	51	11,217	2,860	10	11,333	2,786	164	11,129	2,836	9	11,235	2,884	5	11,235	2,884	45	5	530	45			
3112	Grain and Oilseed Milling	580	53	Q	499	38	5	532	42	W	533	W	Q	533	44	0	41	0	41	0	41	0	41	0	41	6		
311221	Wet Corn Milling	47	11	W	35	W	W	43	W	W	39	W	0	44	3	0	65	13	0	65	13	0	65	13	0	65	13	
31131	Sugar Manufacturing	77	46	43	28	7	15	48	15	W	58	W	0	67	11	0	903	214	3	903	214	3	903	214	3	903	214	
3114	Food Processing, Preserving and Specialty Foods	1,125	22	6	954	163	18	894	219	W	961	W	3	955	164	3	903	214	3	903	214	3	903	214	3	903	214	
3115	Dairy Products	1,044	81	6	997	141	W	896	W	0	880	164	73	818	153	0	891	153	0	891	153	0	891	153	0	891	153	
3116	Animal Slaughtering and Processing	1,715	W	0	1,349	366	W	1,341	W	0	1,370	345	0	1,380	335	0	1,371	344	0	1,371	344	0	1,371	344	0	1,371	344	
312	Beverage and Tobacco Products	1,830	26	20	1,511	299	W	1,529	W	Q	1,515	308	0	1,519	300	10	1,525	295	0	1,525	295	0	1,525	295	0	1,525	295	
3121	Beverages	1,758	W	W	299	W	W	1,457	W	Q	1,443	308	W	2,769	W	0	1,453	295	0	1,453	295	0	1,453	295	0	1,453	295	
3122	Tobacco	72	W	W	W	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
313	Textile Mills	1,966	84	13	1,695	258	W	1,642	W	0	1,642	324	W	1,642	W	W	1,639	W	W	1,639	W	W	1,639	W	W	1,639	W	
314	Textile Product Mills	3,332	W	0	2,815	517	W	2,813	W	0	2,769	563	W	2,769	W	0	2,815	517	W	2,815	517	W	2,815	517	W	2,815	517	
315	Apparel	5,567	0	0	4,348	1,219	0	4,255	1,312	0	4,286	1,287	0	4,280	1,287	0	4,343	1,224	0	4,343	1,224	0	4,343	1,224	0	4,343	1,224	
316	Leather and Allied Products	687	0	0	550	137	0	484	203	W	484	203	0	484	203	0	484	203	0	484	203	0	484	203	0	484	203	
320	Wood Products	10,785	102	73	9,133	1,579	W	9,099	1,677	W	9,097	1,677	W	9,097	1,677	W	9,148	1,747	W	9,147	1,747	W	9,147	1,747	W	9,147	1,747	
321113	Sawmills	2,282	62	50	1,885	348	13	1,883	387	W	1,871	W	7	1,864	411	15	1,907	360	0	1,907	360	0	1,907	360	0	1,907	360	
3212	Veneer, Plywood, and Engineered Woods	1,461	13	11	1,254	197	W	1,259	W	0	1,260	202	W	1,259	W	0	1,264	198	W	1,264	198	W	1,264	198	W	1,264	198	
3219	Other Wood Products	6,688	222	12	5,660	1,016	W	5,615	W	0	5,676	1,012	Q	5,541	1,110	0	5,712	976	W	5,712	976	W	5,712	976	W	5,712	976	
322	Paper	3,957	222	199	3,690	670	25	3,297	635	18	3,277	662	W	3,252	W	51	3,243	663	W	3,243	663	W	3,243	663	W	3,243	663	
322110	Pulp Mills	32	14	14	11	7	0	25	7	0	25	7	0	25	7	0	21	6	W	21	6	W	21	6	W	21	6	
322121	Paper Mills, except Newsprint	288	112	103	153	32	11	246	30	9	248	32	0	251	37	23	235	30	W	235	30	W	235	30	W	235	30	
322122	Newsprint Mills	20	6	6	8	6	0	14	6	W	12	W	0	14	6	W	12	W	12	W	12	W	12	W	12	W		
322123	Paperboard Mills	200	73	60	122	18	12	165	24	W	169	W	178	W	21	159	20	W	159	20	W	159	20	W	159	20		
3223	Printing and Related Support	18,916	0	0	16,098	2,819	0	15,943	2,974	0	15,770	3,147	0	15,596	3,321	0	16,044	2,873	W	16,044	2,873	W	16,044	2,873	W	16,044	2,873	
3224	Petroleum and Coal Products	1,614	100	57	1,530	219	42	1,549	222	26	1,521	223	172	10	5	194	W	W	194	W	W	194	W	W	194	W		
324110	Petroleum Refineries	209	94	53	149	7	42	155	24	W	167	24	0	168	24	0	168	24	W	168	24	W	168	24	W	168	24	
324199	Other Petroleum and Coal Products	48	7	4	40	4	0	44	4	W	43	5	0	44	4	W	43	5	0	44	4	W	43	5	0	44	4	
325	Chemicals	8,625	315	166	7,459	1,000	107	7,478	1,040	43	7,553	1,029	19	7,496	1,110	168	7,427	1,030	W	7,427	1,030	W	7,427	1,030	W	7,427	1,030	
325110	Petroleum Products	45	11	8	28	9	9	10	6	W	9	33	W	33	W	8	31	6	W	31	6	W	31	6	W	31	6	
325220	Industrial Gases	550	4	550	550	21	0	539	21	0	537	23	0	539	21	0	539	21	W	539	21	W	539	21	W	539	21	
325181	Alkalies and Chlorine	32	10	W	23	W	W	W	W	0	4	28	0	0	0	32	0	W	0	W	0	W	0	W	0	W		
325182	Carbon Black	23	W	W	20	W	W	W	W	0	W	W	0	W	W	0	W	W	W	W	W	W	W	W	W	W		
325188	Other Basic Inorganic Chemicals	473	21	9	424	40	W	430	W	0	428	45	W	431	W	14	416	43	W	416	43	W	416	43	W	416	43	
325192	Cyclic Crudes and Intermediates	25	W	0	20	5	0	20	5	W	20	5	0	20	5	0	20	5	W	20	5	W	20	5	W	20	5	
325193	Ethyl Alcohol	65	9	W	57	W	W	W	W	0	57	9	W	W	W	W	57	9	W	W	57	9	W	W	57	9		
325199	Other Basic Organic Chemicals	488	75	43	382	63	24	398	66	9	410	69	5	416	68	53	416	68	W	416	68	W	416	68	W	416	68	
325211	Plastics Materials and Resins	558	30	18	463	78	14	466	78	16	466	76	W	473	79	14	470	74	W	470	74	W	470	74	W	470	74	
325212	Synthetic Rubber	92	8	4	78	10	4	78	10	W	77	15	0	78	10	W	78	19	W	78	19	W	78	19	W	78	19	
325222	Nonwoven Organic Fibers	77	8	8	62	7	W	62	7	W	67	W	0	69	8	W	69	8	W	69	8	W	69	8	W	69	8	
325311	Nitrogenous Fertilizers	65	16	10	51	4	5	54	5	W	54	58	W	54	58	W	54	58	W	54	58	W	54	58	W	54	58	
325312	Phosphate Fertilizers	32	19	W	17	W	W	28	W	W	28	W	0	28	W	W	19	W	W	19	W	W	19	W	W	19	W	
3254	Pharmaceuticals and Medicines	1,123	37	22	952	149	18	953	152	9	954	158	W	954	158	4	964	155	W	964	155	W	964	155	W	964	155	
325412	Pharmaceutical Preparation	580	29	16	497	67	16	500	133	13	500	133	W	500	133	0	504	72	W	504	72	W	504	72	W	504	72	
325492	Plastic, Rubber, and Glass	1,747	17	18	2,824	446	6	2,809	474	W	2,824	446	11	2,795	478	11	2,827	452	W	2,827	452	W	2,827	452	W	2,827	452	
327211	Flat Glass	42	0	0	W	W	0	39	3	0	39	3	W	38	4	0	39	3	W	38	4	0	39	3	W	38	4	
327212	Other Pressed and Blown Glass and Glassware	158	0	0	140	17	0	137	20	0	137	20	W	137	20	0	138	19	W	138	19	W	138	19	W	138	19	
327315	Glass Containers	54	9	W	52	3	0	50	5	W	50	3	W	50</td														

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

Level: National Data;

Row: Specific Energy-Management Activities within NAICS Codes;

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
<b>Total United States</b>					
<b>311 - 339</b>	<b>ALL MANUFACTURING INDUSTRIES</b>				
	Full-Time Energy Manager (c)	159,258	9,922	25,553	--
	Set Goals for Improving Energy Efficiency	116,335	38,397	40,001	--
	Measure and Monitor Steam Used (d)	147,525	6,012	34,276	6,920
	Dedicated Staff that Performs Insulation Inspections (e)	143,630	10,769	33,910	6,424
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	137,708	13,589	36,533	6,903
	Maintaining a Steam Trap Database	145,043	5,382	37,353	6,954
	Annual Inspections and Repairs of Steam Leaks	132,617	18,654	36,489	6,974
	Measure Oxygen and Carbon Dioxide Levels (f)	130,893	20,047	43,793	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	145,356	8,716	40,661	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	97,023	53,857	43,853	--
	Cleaning of Heat Transfer Equipment (i)	94,116	53,180	47,437	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	93,532	55,433	45,767	--
	Keep an Inventory of All Motors	105,966	44,733	44,034	--
	Identify the Major Energy Consuming Pumps (k)	137,048	14,858	42,827	--
	Detect and Control Compressed Air Leaks (l)	118,206	35,898	40,629	--
	Track the Amount of Energy Spent in Compressed Air Systems	147,714	6,987	40,032	--
<b>311</b>	<b>FOOD</b>				
	Full-Time Energy Manager (c)	10,660	1,121	2,348	--
	Set Goals for Improving Energy Efficiency	6,689	4,125	3,314	--
	Measure and Monitor Steam Used (d)	9,165	1,589	3,190	184
	Dedicated Staff that Performs Insulation Inspections (e)	8,325	2,537	3,101	165
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	7,063	3,403	3,520	142
	Maintaining a Steam Trap Database	8,819	1,268	3,899	142
	Annual Inspections and Repairs of Steam Leaks	6,171	4,421	3,394	142
	Measure Oxygen and Carbon Dioxide Levels (f)	6,616	3,779	3,733	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	9,075	1,439	3,614	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	4,958	5,453	3,718	--
	Cleaning of Heat Transfer Equipment (i)	4,562	5,922	3,644	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	4,614	5,821	3,694	--
	Keep an Inventory of All Motors	5,577	5,014	3,538	--
	Identify the Major Energy Consuming Pumps (k)	8,570	1,676	3,882	--
	Detect and Control Compressed Air Leaks (l)	7,388	3,429	3,312	--
	Track the Amount of Energy Spent in Compressed Air Systems	10,210	623	3,296	--
<b>3112</b>	<b>Grain and Oilseed Milling</b>				
	Full-Time Energy Manager (c)	440	125	15	--
	Set Goals for Improving Energy Efficiency	262	292	26	--
	Measure and Monitor Steam Used (d)	302	234	W	W
	Dedicated Staff that Performs Insulation Inspections (e)	374	167	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	296	241	W	W
	Maintaining a Steam Trap Database	384	141	W	W
	Annual Inspections and Repairs of Steam Leaks	221	324	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	220	310	51	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	362	154	64	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	232	313	35	--
	Cleaning of Heat Transfer Equipment (i)	253	289	38	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	199	349	31	--
	Keep an Inventory of All Motors	121	415	Q	--
	Identify the Major Energy Consuming Pumps (k)	382	154	45	--
	Detect and Control Compressed Air Leaks (l)	320	227	32	--
	Track the Amount of Energy Spent in Compressed Air Systems	475	72	33	--
<b>311221</b>	<b>Wet Corn Milling</b>				
	Full-Time Energy Manager (c)	W	20	W	--
	Set Goals for Improving Energy Efficiency	9	35	3	--
	Measure and Monitor Steam Used (d)	6	38	3	0
	Dedicated Staff that Performs Insulation Inspections (e)	32	9	6	0
	Formal Steam Maintenance Program that Includes the Following:				

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

Level: National Data;

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Annual Testing of All Steam Traps	10	25	12	0
	Maintaining a Steam Trap Database	15	20	12	0
	Annual Inspections and Repairs of Steam Leaks	12	26	9	0
	Measure Oxygen and Carbon Dioxide Levels (f)	9	28	10	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	15	24	9	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	8	28	11	--
	Cleaning of Heat Transfer Equipment (i)	3	28	16	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	7	30	10	--
	Keep an Inventory of All Motors	7	35	6	--
	Identify the Major Energy Consuming Pumps (k)	18	21	8	--
	Detect and Control Compressed Air Leaks (l)	27	12	8	--
	Track the Amount of Energy Spent in Compressed Air Systems	28	15	4	--
31131	<b>Sugar</b>				
	Full-Time Energy Manager (c)	61	9	7	--
	Set Goals for Improving Energy Efficiency	15	54	9	--
	Measure and Monitor Steam Used (d)	9	61	7	0
	Dedicated Staff that Performs Insulation Inspections (e)	50	22	6	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	46	22	9	0
	Maintaining a Steam Trap Database	45	22	11	0
	Annual Inspections and Repairs of Steam Leaks	11	58	9	0
	Measure Oxygen and Carbon Dioxide Levels (f)	19	48	11	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	28	37	13	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	11	59	7	--
	Cleaning of Heat Transfer Equipment (i)	9	58	11	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	9	58	11	--
	Keep an Inventory of All Motors	7	61	9	--
	Identify the Major Energy Consuming Pumps (k)	45	22	11	--
	Detect and Control Compressed Air Leaks (l)	46	19	13	--
	Track the Amount of Energy Spent in Compressed Air Systems	43	20	15	--
3114	<b>Fruit and Vegetable Preserving and Specialty Foods</b>				
	Full-Time Energy Manager (c)	818	132	175	--
	Set Goals for Improving Energy Efficiency	472	383	269	--
	Measure and Monitor Steam Used (d)	697	196	W	W
	Dedicated Staff that Performs Insulation Inspections (e)	587	282	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	553	314	W	W
	Maintaining a Steam Trap Database	716	134	W	W
	Annual Inspections and Repairs of Steam Leaks	392	503	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	342	455	328	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	700	194	231	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	362	507	256	--
	Cleaning of Heat Transfer Equipment (i)	230	668	227	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	279	591	255	--
	Keep an Inventory of All Motors	469	385	272	--
	Identify the Major Energy Consuming Pumps (k)	660	170	295	--
	Detect and Control Compressed Air Leaks (l)	594	288	244	--
	Track the Amount of Energy Spent in Compressed Air Systems	818	64	243	--
3115	<b>Dairy Products</b>				
	Full-Time Energy Manager (c)	744	155	146	--
	Set Goals for Improving Energy Efficiency	473	415	156	--
	Measure and Monitor Steam Used (d)	633	243	169	0
	Dedicated Staff that Performs Insulation Inspections (e)	599	300	145	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	426	459	159	0
	Maintaining a Steam Trap Database	674	181	189	0
	Annual Inspections and Repairs of Steam Leaks	242	653	148	0
	Measure Oxygen and Carbon Dioxide Levels (f)	387	489	168	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	644	238	162	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	294	609	141	--
	Cleaning of Heat Transfer Equipment (i)	186	732	126	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	268	636	141	--
	Keep an Inventory of All Motors	406	482	155	--

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Identify the Major Energy Consuming Pumps (k)	600	255	190	--
	Detect and Control Compressed Air Leaks (l)	566	302	175	--
	Track the Amount of Energy Spent in Compressed Air Systems	785	105	154	--
<b>3116</b>	<b>Animal Slaughtering and Processing</b>				
	Full-Time Energy Manager (c)	1,194	259	262	--
	Set Goals for Improving Energy Efficiency	768	609	338	--
	Measure and Monitor Steam Used (d)	1,005	283	407	Q
	Dedicated Staff that Performs Insulation Inspections (e)	783	521	390	22
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	584	640	470	22
	Maintaining a Steam Trap Database	867	227	599	22
	Annual Inspections and Repairs of Steam Leaks	448	790	455	22
	Measure Oxygen and Carbon Dioxide Levels (f)	558	729	428	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	945	279	491	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	425	856	433	--
	Cleaning of Heat Transfer Equipment (i)	419	880	415	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	397	914	404	--
	Keep an Inventory of All Motors	573	795	346	--
	Identify the Major Energy Consuming Pumps (k)	1,069	246	400	--
	Detect and Control Compressed Air Leaks (l)	767	480	468	--
	Track the Amount of Energy Spent in Compressed Air Systems	1,235	74	406	--
<b>312</b>	<b>BEVERAGE AND TOBACCO PRODUCTS</b>				
	Full-Time Energy Manager (c)	1,420	295	114	--
	Set Goals for Improving Energy Efficiency	963	729	139	--
	Measure and Monitor Steam Used (d)	1,288	279	223	Q
	Dedicated Staff that Performs Insulation Inspections (e)	1,134	435	223	Q
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	1,179	394	218	Q
	Maintaining a Steam Trap Database	1,305	167	318	Q
	Annual Inspections and Repairs of Steam Leaks	927	580	284	Q
	Measure Oxygen and Carbon Dioxide Levels (f)	925	558	348	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	1,329	259	242	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	717	819	294	--
	Cleaning of Heat Transfer Equipment (i)	611	853	366	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	539	973	317	--
	Keep an Inventory of All Motors	746	806	278	--
	Identify the Major Energy Consuming Pumps (k)	1,270	270	290	--
	Detect and Control Compressed Air Leaks (l)	934	731	164	--
	Track the Amount of Energy Spent in Compressed Air Systems	1,428	99	304	--
<b>3121</b>	<b>Beverages</b>				
	Full-Time Energy Manager (c)	W	287	W	--
	Set Goals for Improving Energy Efficiency	916	708	133	--
	Measure and Monitor Steam Used (d)	1,237	266	217	Q
	Dedicated Staff that Performs Insulation Inspections (e)	1,091	413	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	1,144	369	W	W
	Maintaining a Steam Trap Database	1,260	152	W	W
	Annual Inspections and Repairs of Steam Leaks	900	542	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	896	526	335	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	1,272	248	238	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	685	785	289	--
	Cleaning of Heat Transfer Equipment (i)	W	812	W	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	508	938	312	--
	Keep an Inventory of All Motors	716	776	266	--
	Identify the Major Energy Consuming Pumps (k)	W	260	W	--
	Detect and Control Compressed Air Leaks (l)	W	708	W	--
	Track the Amount of Energy Spent in Compressed Air Systems	1,369	92	297	--
<b>3122</b>	<b>Tobacco</b>				
	Full-Time Energy Manager (c)	W	8	W	--
	Set Goals for Improving Energy Efficiency	46	20	5	--
	Measure and Monitor Steam Used (d)	50	12	5	4
	Dedicated Staff that Performs Insulation Inspections (e)	43	22	W	W

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	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	35	24	W	W
	Maintaining a Steam Trap Database	45	15	W	W
	Annual Inspections and Repairs of Steam Leaks	27	38	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	29	31	12	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	57	11	4	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	33	34	5	--
	Cleaning of Heat Transfer Equipment (i)	W	41	W	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	31	35	5	--
	Keep an Inventory of All Motors	30	30	12	--
	Identify the Major Energy Consuming Pumps (k)	W	10	W	--
	Detect and Control Compressed Air Leaks (l)	W	23	W	--
	Track the Amount of Energy Spent in Compressed Air Systems	58	7	7	--
313	<b>TEXTILE MILLS</b>				
	Full-Time Energy Manager (c)	1,514	212	239	--
	Set Goals for Improving Energy Efficiency	1,076	652	237	--
	Measure and Monitor Steam Used (d)	1,245	344	328	Q
	Dedicated Staff that Performs Insulation Inspections (e)	1,260	342	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	1,169	421	W	W
	Maintaining a Steam Trap Database	1,362	194	W	W
	Annual Inspections and Repairs of Steam Leaks	910	604	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	982	485	499	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	1,304	123	539	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	802	665	498	--
	Cleaning of Heat Transfer Equipment (i)	791	767	408	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	760	788	418	--
	Keep an Inventory of All Motors	935	731	300	--
	Identify the Major Energy Consuming Pumps (k)	1,263	295	408	--
	Detect and Control Compressed Air Leaks (l)	1,007	581	378	--
	Track the Amount of Energy Spent in Compressed Air Systems	1,446	135	385	--
314	<b>TEXTILE PRODUCT MILLS</b>				
	Full-Time Energy Manager (c)	2,612	127	593	--
	Set Goals for Improving Energy Efficiency	1,949	662	721	--
	Measure and Monitor Steam Used (d)	2,495	108	640	89
	Dedicated Staff that Performs Insulation Inspections (e)	2,442	211	590	89
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	2,326	254	662	89
	Maintaining a Steam Trap Database	2,397	142	704	89
	Annual Inspections and Repairs of Steam Leaks	2,322	239	683	89
	Measure Oxygen and Carbon Dioxide Levels (f)	2,360	228	744	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	2,541	197	594	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	1,885	660	787	--
	Cleaning of Heat Transfer Equipment (i)	1,835	751	746	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	1,874	672	785	--
	Keep an Inventory of All Motors	2,044	696	592	--
	Identify the Major Energy Consuming Pumps (k)	2,413	75	844	--
	Detect and Control Compressed Air Leaks (l)	2,279	337	715	--
	Track the Amount of Energy Spent in Compressed Air Systems	2,655	34	643	--
315	<b>APPAREL</b>				
	Full-Time Energy Manager (c)	4,497	W	W	--
	Set Goals for Improving Energy Efficiency	3,489	775	1,304	--
	Measure and Monitor Steam Used (d)	4,188	22	1,087	270
	Dedicated Staff that Performs Insulation Inspections (e)	3,837	423	1,104	203
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	3,223	615	1,391	338
	Maintaining a Steam Trap Database	3,641	249	1,339	338
	Annual Inspections and Repairs of Steam Leaks	3,046	861	1,322	338
	Measure Oxygen and Carbon Dioxide Levels (f)	3,424	541	1,602	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	3,946	Q	1,466	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	2,603	1,157	1,807	--
	Cleaning of Heat Transfer Equipment (i)	2,550	1,166	1,850	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	2,536	1,242	1,789	--

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

Level: National Data;

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Keep an Inventory of All Motors	2,927	980	1,661	--
	Identify the Major Energy Consuming Pumps (k)	3,951	220	1,396	--
	Detect and Control Compressed Air Leaks (l)	3,776	544	1,247	--
	Track the Amount of Energy Spent in Compressed Air Systems	4,164	Q	1,328	--
<b>316</b>	<b>LEATHER AND ALLIED PRODUCTS</b>				
	Full-Time Energy Manager (c)	544	W	W	--
	Set Goals for Improving Energy Efficiency	378	165	144	--
	Measure and Monitor Steam Used (d)	534	W	W	0
	Dedicated Staff that Performs Insulation Inspections (e)	472	Q	179	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	441	66	181	0
	Maintaining a Steam Trap Database	471	0	216	0
	Annual Inspections and Repairs of Steam Leaks	405	76	206	0
	Measure Oxygen and Carbon Dioxide Levels (f)	358	40	289	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	383	Q	274	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	270	137	280	--
	Cleaning of Heat Transfer Equipment (i)	313	110	264	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	268	159	260	--
	Keep an Inventory of All Motors	318	160	209	--
	Identify the Major Energy Consuming Pumps (k)	474	8	205	--
	Detect and Control Compressed Air Leaks (l)	376	101	209	--
	Track the Amount of Energy Spent in Compressed Air Systems	460	Q	192	--
<b>321</b>	<b>WOOD PRODUCTS</b>				
	Full-Time Energy Manager (c)	9,018	377	1,390	--
	Set Goals for Improving Energy Efficiency	6,608	1,802	2,375	--
	Measure and Monitor Steam Used (d)	7,919	481	1,747	638
	Dedicated Staff that Performs Insulation Inspections (e)	7,601	665	1,866	653
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	7,448	781	1,922	634
	Maintaining a Steam Trap Database	7,708	267	2,141	669
	Annual Inspections and Repairs of Steam Leaks	7,122	1,038	1,956	669
	Measure Oxygen and Carbon Dioxide Levels (f)	7,496	850	2,439	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	7,985	418	2,382	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	5,482	2,591	2,711	--
	Cleaning of Heat Transfer Equipment (i)	5,329	2,603	2,852	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	5,530	2,482	2,773	--
	Keep an Inventory of All Motors	5,401	2,913	2,471	--
	Identify the Major Energy Consuming Pumps (k)	7,628	695	2,461	--
	Detect and Control Compressed Air Leaks (l)	6,305	2,152	2,328	--
	Track the Amount of Energy Spent in Compressed Air Systems	8,256	157	2,372	--
<b>321113</b>	<b>Sawmills</b>				
	Full-Time Energy Manager (c)	1,792	134	356	--
	Set Goals for Improving Energy Efficiency	1,313	429	540	--
	Measure and Monitor Steam Used (d)	1,617	190	368	107
	Dedicated Staff that Performs Insulation Inspections (e)	1,585	177	422	98
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	1,439	266	466	111
	Maintaining a Steam Trap Database	1,607	83	478	114
	Annual Inspections and Repairs of Steam Leaks	1,373	322	474	114
	Measure Oxygen and Carbon Dioxide Levels (f)	1,433	284	565	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	1,616	148	518	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	1,088	619	575	--
	Cleaning of Heat Transfer Equipment (i)	1,111	611	560	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	1,214	489	579	--
	Keep an Inventory of All Motors	829	964	488	--
	Identify the Major Energy Consuming Pumps (k)	1,521	122	639	--
	Detect and Control Compressed Air Leaks (l)	1,155	524	603	--
	Track the Amount of Energy Spent in Compressed Air Systems	1,668	27	587	--
<b>3212</b>	<b>Veneer, Plywood, and Engineered Woods</b>				
	Full-Time Energy Manager (c)	1,215	61	186	--
	Set Goals for Improving Energy Efficiency	794	349	319	--
	Measure and Monitor Steam Used (d)	975	139	230	117

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

Level: National Data;

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Dedicated Staff that Performs Insulation Inspections (e)	881	173	291	117
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	872	179	294	117
	Maintaining a Steam Trap Database	903	67	375	117
	Annual Inspections and Repairs of Steam Leaks	780	262	304	117
	Measure Oxygen and Carbon Dioxide Levels (f)	794	196	472	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	940	131	391	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	537	525	401	--
	Cleaning of Heat Transfer Equipment (i)	547	504	411	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	538	540	384	--
	Keep an Inventory of All Motors	576	523	363	--
	Identify the Major Energy Consuming Pumps (k)	963	99	400	--
	Detect and Control Compressed Air Leaks (l)	880	370	212	--
	Track the Amount of Energy Spent in Compressed Air Systems	1,063	36	363	--
3219	<b>Other Wood Products</b>				
	Full-Time Energy Manager (c)	5,703	150	835	--
	Set Goals for Improving Energy Efficiency	4,342	892	1,454	--
	Measure and Monitor Steam Used (d)	5,086	102	1,090	410
	Dedicated Staff that Performs Insulation Inspections (e)	4,898	262	1,094	434
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	4,924	262	1,101	402
	Maintaining a Steam Trap Database	4,961	82	1,211	434
	Annual Inspections and Repairs of Steam Leaks	4,771	366	1,117	434
	Measure Oxygen and Carbon Dioxide Levels (f)	5,015	302	1,371	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	5,129	127	1,432	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	3,654	1,336	1,698	--
	Cleaning of Heat Transfer Equipment (i)	3,505	1,345	1,838	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	3,620	1,302	1,766	--
	Keep an Inventory of All Motors	3,803	1,317	1,569	--
	Identify the Major Energy Consuming Pumps (k)	4,919	398	1,372	--
	Detect and Control Compressed Air Leaks (l)	4,045	1,166	1,476	--
	Track the Amount of Energy Spent in Compressed Air Systems	5,215	89	1,384	--
322	<b>PAPER</b>				
	Full-Time Energy Manager (c)	2,939	447	572	--
	Set Goals for Improving Energy Efficiency	2,027	1,144	786	--
	Measure and Monitor Steam Used (d)	2,676	558	641	82
	Dedicated Staff that Performs Insulation Inspections (e)	2,542	664	691	60
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	2,123	930	854	Q
	Maintaining a Steam Trap Database	2,560	382	965	Q
	Annual Inspections and Repairs of Steam Leaks	1,924	1,185	799	Q
	Measure Oxygen and Carbon Dioxide Levels (f)	1,977	1,040	940	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	2,641	507	809	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	1,228	1,729	1,000	--
	Cleaning of Heat Transfer Equipment (i)	1,294	1,520	1,143	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	1,126	1,783	1,048	--
	Keep an Inventory of All Motors	1,268	1,738	951	--
	Identify the Major Energy Consuming Pumps (k)	2,287	680	990	--
	Detect and Control Compressed Air Leaks (l)	2,054	1,104	799	--
	Track the Amount of Energy Spent in Compressed Air Systems	2,815	376	766	--
322110	<b>Pulp Mills</b>				
	Full-Time Energy Manager (c)	16	11	5	--
	Set Goals for Improving Energy Efficiency	4	23	5	--
	Measure and Monitor Steam Used (d)	4	25	4	0
	Dedicated Staff that Performs Insulation Inspections (e)	11	17	4	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	15	14	4	0
	Maintaining a Steam Trap Database	16	12	4	0
	Annual Inspections and Repairs of Steam Leaks	6	22	4	0
	Measure Oxygen and Carbon Dioxide Levels (f)	W	26	W	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	4	22	6	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	0	26	6	--
	Cleaning of Heat Transfer Equipment (i)	0	26	6	--

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	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	W	25	W	--
	Keep an Inventory of All Motors	W	25	W	--
	Identify the Major Energy Consuming Pumps (k)	6	21	5	--
	Detect and Control Compressed Air Leaks (l)	11	17	4	--
	Track the Amount of Energy Spent in Compressed Air Systems	15	14	4	--
<b>322121</b>	<b>Paper Mills, except Newsprint</b>				
	Full-Time Energy Manager (c)	150	107	30	--
	Set Goals for Improving Energy Efficiency	77	178	33	--
	Measure and Monitor Steam Used (d)	67	191	W	W
	Dedicated Staff that Performs Insulation Inspections (e)	163	66	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	103	113	W	W
	Maintaining a Steam Trap Database	115	100	W	W
	Annual Inspections and Repairs of Steam Leaks	70	166	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	67	166	54	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	95	152	42	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	42	203	43	--
	Cleaning of Heat Transfer Equipment (i)	46	193	49	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	34	208	46	--
	Keep an Inventory of All Motors	40	202	46	--
	Identify the Major Energy Consuming Pumps (k)	133	116	39	--
	Detect and Control Compressed Air Leaks (l)	150	85	53	--
	Track the Amount of Energy Spent in Compressed Air Systems	179	67	42	--
<b>322122</b>	<b>Newsprint Mills</b>				
	Full-Time Energy Manager (c)	9	8	3	--
	Set Goals for Improving Energy Efficiency	W	15	W	--
	Measure and Monitor Steam Used (d)	0	17	3	0
	Dedicated Staff that Performs Insulation Inspections (e)	11	6	3	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	3	12	5	0
	Maintaining a Steam Trap Database	5	9	6	0
	Annual Inspections and Repairs of Steam Leaks	3	14	3	0
	Measure Oxygen and Carbon Dioxide Levels (f)	3	12	5	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	5	8	8	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	W	14	W	--
	Cleaning of Heat Transfer Equipment (i)	0	17	3	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	W	15	W	--
	Keep an Inventory of All Motors	0	17	3	--
	Identify the Major Energy Consuming Pumps (k)	6	11	3	--
	Detect and Control Compressed Air Leaks (l)	8	9	3	--
	Track the Amount of Energy Spent in Compressed Air Systems	6	9	5	--
<b>322130</b>	<b>Paperboard Mills</b>				
	Full-Time Energy Manager (c)	116	55	29	--
	Set Goals for Improving Energy Efficiency	47	122	31	--
	Measure and Monitor Steam Used (d)	35	141	24	0
	Dedicated Staff that Performs Insulation Inspections (e)	102	67	31	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	85	72	43	0
	Maintaining a Steam Trap Database	106	33	61	0
	Annual Inspections and Repairs of Steam Leaks	39	128	33	0
	Measure Oxygen and Carbon Dioxide Levels (f)	64	101	35	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	75	78	47	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	44	119	37	--
	Cleaning of Heat Transfer Equipment (i)	38	120	42	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	41	125	34	--
	Keep an Inventory of All Motors	24	142	34	--
	Identify the Major Energy Consuming Pumps (k)	78	77	44	--
	Detect and Control Compressed Air Leaks (l)	95	64	41	--
	Track the Amount of Energy Spent in Compressed Air Systems	124	35	41	--
<b>323</b>	<b>PRINTING AND RELATED SUPPORT</b>				
	Full-Time Energy Manager (c)	15,871	610	2,436	--
	Set Goals for Improving Energy Efficiency	11,798	3,290	3,829	--

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	Measure and Monitor Steam Used (d)	15,241	28	3,341	308
	Dedicated Staff that Performs Insulation Inspections (e)	14,951	296	3,362	308
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	14,924	307	3,465	Q
	Maintaining a Steam Trap Database	15,349	Q	3,220	Q
	Annual Inspections and Repairs of Steam Leaks	14,635	413	3,648	Q
	Measure Oxygen and Carbon Dioxide Levels (f)	14,282	621	4,014	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	15,189	Q	3,583	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	10,883	3,952	4,083	--
	Cleaning of Heat Transfer Equipment (i)	10,357	4,033	4,527	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	10,248	3,594	5,075	--
	Keep an Inventory of All Motors	11,511	3,122	4,284	--
	Identify the Major Energy Consuming Pumps (k)	14,335	522	4,060	--
	Detect and Control Compressed Air Leaks (l)	13,297	1,928	3,691	--
	Track the Amount of Energy Spent in Compressed Air Systems	15,132	72	3,714	--
324	<b>PETROLEUM AND COAL PRODUCTS</b>				
	Full-Time Energy Manager (c)	1,127	483	203	--
	Set Goals for Improving Energy Efficiency	642	893	278	--
	Measure and Monitor Steam Used (d)	1,193	257	335	Q
	Dedicated Staff that Performs Insulation Inspections (e)	1,178	242	367	Q
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	1,155	342	290	Q
	Maintaining a Steam Trap Database	1,241	200	346	Q
	Annual Inspections and Repairs of Steam Leaks	1,110	353	325	Q
	Measure Oxygen and Carbon Dioxide Levels (f)	548	837	429	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	1,118	322	374	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	530	960	324	--
	Cleaning of Heat Transfer Equipment (i)	319	1,119	375	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	297	1,147	369	--
	Keep an Inventory of All Motors	568	887	358	--
	Identify the Major Energy Consuming Pumps (k)	853	441	520	--
	Detect and Control Compressed Air Leaks (l)	1,151	273	389	--
	Track the Amount of Energy Spent in Compressed Air Systems	1,421	58	335	--
32410	<b>Petroleum Refineries</b>				
	Full-Time Energy Manager (c)	98	107	4	--
	Set Goals for Improving Energy Efficiency	34	164	12	--
	Measure and Monitor Steam Used (d)	80	115	13	0
	Dedicated Staff that Performs Insulation Inspections (e)	111	82	16	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	50	139	20	0
	Maintaining a Steam Trap Database	48	134	26	0
	Annual Inspections and Repairs of Steam Leaks	48	148	13	0
	Measure Oxygen and Carbon Dioxide Levels (f)	16	181	12	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	37	158	15	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	23	171	15	--
	Cleaning of Heat Transfer Equipment (i)	12	184	13	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	9	178	22	--
	Keep an Inventory of All Motors	23	165	20	--
	Identify the Major Energy Consuming Pumps (k)	89	92	28	--
	Detect and Control Compressed Air Leaks (l)	148	37	25	--
	Track the Amount of Energy Spent in Compressed Air Systems	159	26	23	--
324199	<b>Other Petroleum and Coal Products</b>				
	Full-Time Energy Manager (c)	41	W	W	--
	Set Goals for Improving Energy Efficiency	23	17	8	--
	Measure and Monitor Steam Used (d)	20	12	W	W
	Dedicated Staff that Performs Insulation Inspections (e)	27	11	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	24	12	W	W
	Maintaining a Steam Trap Database	33	W	11	W
	Annual Inspections and Repairs of Steam Leaks	23	16	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	23	16	9	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	24	15	9	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	15	28	5	--

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	Cleaning of Heat Transfer Equipment (i)	16	24	8	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	13	27	8	--
	Keep an Inventory of All Motors	15	27	7	--
	Identify the Major Energy Consuming Pumps (k)	24	9	15	--
	Detect and Control Compressed Air Leaks (l)	31	8	9	--
	Track the Amount of Energy Spent in Compressed Air Systems	36	W	W	--
<b>325</b>	<b>CHEMICALS</b>				
	Full-Time Energy Manager (c)	6,683	1,056	887	--
	Set Goals for Improving Energy Efficiency	4,608	2,535	1,482	--
	Measure and Monitor Steam Used (d)	6,044	1,116	1,207	259
	Dedicated Staff that Performs Insulation Inspections (e)	5,979	1,249	1,175	222
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	5,267	1,749	1,386	223
	Maintaining a Steam Trap Database	5,935	1,049	1,386	255
	Annual Inspections and Repairs of Steam Leaks	4,515	2,478	1,377	255
	Measure Oxygen and Carbon Dioxide Levels (f)	4,689	2,130	1,806	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	6,067	951	1,608	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	3,441	3,724	1,461	--
	Cleaning of Heat Transfer Equipment (i)	3,374	3,568	1,684	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	3,029	4,075	1,521	--
	Keep an Inventory of All Motors	3,240	3,681	1,705	--
	Identify the Major Energy Consuming Pumps (k)	5,345	1,578	1,702	--
	Detect and Control Compressed Air Leaks (l)	4,971	2,050	1,604	--
	Track the Amount of Energy Spent in Compressed Air Systems	6,408	673	1,544	--
<b>32510</b>	<b>Petrochemicals</b>				
	Full-Time Energy Manager (c)	23	16	6	--
	Set Goals for Improving Energy Efficiency	16	24	5	--
	Measure and Monitor Steam Used (d)	13	25	W	W
	Dedicated Staff that Performs Insulation Inspections (e)	19	19	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	14	24	W	W
	Maintaining a Steam Trap Database	12	26	W	W
	Annual Inspections and Repairs of Steam Leaks	8	29	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	9	31	5	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	13	23	9	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	5	31	9	--
	Cleaning of Heat Transfer Equipment (i)	8	31	6	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	5	32	8	--
	Keep an Inventory of All Motors	W	35	W	--
	Identify the Major Energy Consuming Pumps (k)	18	17	10	--
	Detect and Control Compressed Air Leaks (l)	28	9	8	--
	Track the Amount of Energy Spent in Compressed Air Systems	24	11	9	--
<b>325120</b>	<b>Industrial Gases</b>				
	Full-Time Energy Manager (c)	221	308	31	--
	Set Goals for Improving Energy Efficiency	139	340	82	--
	Measure and Monitor Steam Used (d)	445	35	W	W
	Dedicated Staff that Performs Insulation Inspections (e)	457	20	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	430	48	W	W
	Maintaining a Steam Trap Database	446	31	W	W
	Annual Inspections and Repairs of Steam Leaks	419	58	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	368	100	92	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	409	69	82	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	313	164	83	--
	Cleaning of Heat Transfer Equipment (i)	312	162	86	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	140	340	81	--
	Keep an Inventory of All Motors	151	331	78	--
	Identify the Major Energy Consuming Pumps (k)	203	269	87	--
	Detect and Control Compressed Air Leaks (l)	334	139	87	--
	Track the Amount of Energy Spent in Compressed Air Systems	412	66	83	--
<b>325181</b>	<b>Alkalies and Chlorine</b>				
	Full-Time Energy Manager (c)	28	4	0	--

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

Level: National Data;

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Set Goals for Improving Energy Efficiency	7	25	0	--
	Measure and Monitor Steam Used (d)	7	25	0	0
	Dedicated Staff that Performs Insulation Inspections (e)	W	12	W	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	W	10	W	0
	Maintaining a Steam Trap Database	17	10	4	0
	Annual Inspections and Repairs of Steam Leaks	W	20	W	0
	Measure Oxygen and Carbon Dioxide Levels (f)	12	16	4	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	W	12	W	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	12	16	4	--
	Cleaning of Heat Transfer Equipment (i)	12	16	4	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	W	20	W	--
	Keep an Inventory of All Motors	W	25	W	--
	Identify the Major Energy Consuming Pumps (k)	13	13	6	--
	Detect and Control Compressed Air Leaks (l)	W	9	W	--
	Track the Amount of Energy Spent in Compressed Air Systems	W	12	W	--
325182	<b>Carbon Black</b>				
	Full-Time Energy Manager (c)	14	6	4	--
	Set Goals for Improving Energy Efficiency	W	16	W	--
	Measure and Monitor Steam Used (d)	18	W	W	0
	Dedicated Staff that Performs Insulation Inspections (e)	16	W	W	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	13	7	4	0
	Maintaining a Steam Trap Database	16	W	W	0
	Annual Inspections and Repairs of Steam Leaks	10	7	7	0
	Measure Oxygen and Carbon Dioxide Levels (f)	W	16	W	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	W	20	W	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	W	20	W	--
	Cleaning of Heat Transfer Equipment (i)	W	17	W	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	W	21	W	--
	Keep an Inventory of All Motors	W	18	W	--
	Identify the Major Energy Consuming Pumps (k)	10	7	7	--
	Detect and Control Compressed Air Leaks (l)	16	W	W	--
	Track the Amount of Energy Spent in Compressed Air Systems	W	6	W	--
325188	<b>Other Basic Inorganic Chemicals</b>				
	Full-Time Energy Manager (c)	407	21	45	--
	Set Goals for Improving Energy Efficiency	266	135	72	--
	Measure and Monitor Steam Used (d)	333	103	W	W
	Dedicated Staff that Performs Insulation Inspections (e)	361	67	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	294	103	W	W
	Maintaining a Steam Trap Database	330	64	W	W
	Annual Inspections and Repairs of Steam Leaks	252	156	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	239	121	113	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	320	74	79	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	225	180	68	--
	Cleaning of Heat Transfer Equipment (i)	182	202	89	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	177	234	62	--
	Keep an Inventory of All Motors	170	237	66	--
	Identify the Major Energy Consuming Pumps (k)	320	101	52	--
	Detect and Control Compressed Air Leaks (l)	321	109	43	--
	Track the Amount of Energy Spent in Compressed Air Systems	369	62	43	--
325192	<b>Cyclic Crudes and Intermediates</b>				
	Full-Time Energy Manager (c)	15	7	3	--
	Set Goals for Improving Energy Efficiency	6	15	4	--
	Measure and Monitor Steam Used (d)	9	13	W	W
	Dedicated Staff that Performs Insulation Inspections (e)	13	9	3	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	8	10	6	0
	Maintaining a Steam Trap Database	11	9	4	0
	Annual Inspections and Repairs of Steam Leaks	5	16	4	0
	Measure Oxygen and Carbon Dioxide Levels (f)	6	15	4	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	13	6	6	--
	Process Heating Maintenance Program that Includes the Following:				

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

Level: National Data;

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Column: Participation;

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Furnace Inspections (h)	8	11	5	--
	Cleaning of Heat Transfer Equipment (i)	8	10	6	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	5	15	5	--
	Keep an Inventory of All Motors	3	17	5	--
	Identify the Major Energy Consuming Pumps (k)	10	8	6	--
	Detect and Control Compressed Air Leaks (l)	11	9	4	--
	Track the Amount of Energy Spent in Compressed Air Systems	16	3	6	--
<b>325193</b>	<b>Ethyl Alcohol</b>				
	Full-Time Energy Manager (c)	W	11	W	--
	Set Goals for Improving Energy Efficiency	12	44	9	--
	Measure and Monitor Steam Used (d)	15	45	5	0
	Dedicated Staff that Performs Insulation Inspections (e)	30	31	5	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	14	39	12	0
	Maintaining a Steam Trap Database	30	19	17	0
	Annual Inspections and Repairs of Steam Leaks	7	51	7	0
	Measure Oxygen and Carbon Dioxide Levels (f)	8	45	12	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	13	44	8	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	7	47	11	--
	Cleaning of Heat Transfer Equipment (i)	W	57	W	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	4	53	8	--
	Keep an Inventory of All Motors	6	51	8	--
	Identify the Major Energy Consuming Pumps (k)	27	25	13	--
	Detect and Control Compressed Air Leaks (l)	27	27	11	--
	Track the Amount of Energy Spent in Compressed Air Systems	46	6	13	--
<b>325199</b>	<b>Other Basic Organic Chemicals</b>				
	Full-Time Energy Manager (c)	305	110	73	--
	Set Goals for Improving Energy Efficiency	172	257	58	--
	Measure and Monitor Steam Used (d)	243	188	57	0
	Dedicated Staff that Performs Insulation Inspections (e)	293	134	61	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	208	182	98	0
	Maintaining a Steam Trap Database	313	100	74	0
	Annual Inspections and Repairs of Steam Leaks	156	274	58	0
	Measure Oxygen and Carbon Dioxide Levels (f)	214	200	74	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	279	131	77	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	162	254	71	--
	Cleaning of Heat Transfer Equipment (i)	59	332	96	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	59	363	66	--
	Keep an Inventory of All Motors	118	273	96	--
	Identify the Major Energy Consuming Pumps (k)	259	152	76	--
	Detect and Control Compressed Air Leaks (l)	307	96	85	--
	Track the Amount of Energy Spent in Compressed Air Systems	349	59	80	--
<b>325211</b>	<b>Plastics Materials and Resins</b>				
	Full-Time Energy Manager (c)	395	83	80	--
	Set Goals for Improving Energy Efficiency	243	228	87	--
	Measure and Monitor Steam Used (d)	284	179	W	W
	Dedicated Staff that Performs Insulation Inspections (e)	318	136	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	293	148	W	W
	Maintaining a Steam Trap Database	324	115	W	W
	Annual Inspections and Repairs of Steam Leaks	214	231	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	266	153	139	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	297	132	129	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	219	216	124	--
	Cleaning of Heat Transfer Equipment (i)	212	196	150	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	200	247	110	--
	Keep an Inventory of All Motors	117	318	123	--
	Identify the Major Energy Consuming Pumps (k)	270	171	117	--
	Detect and Control Compressed Air Leaks (l)	312	134	113	--
	Track the Amount of Energy Spent in Compressed Air Systems	336	95	126	--
<b>325212</b>	<b>Synthetic Rubber</b>				

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Full-Time Energy Manager (c)	75	13	4	--
	Set Goals for Improving Energy Efficiency	45	36	11	--
	Measure and Monitor Steam Used (d)	50	31	W	W
	Dedicated Staff that Performs Insulation Inspections (e)	60	20	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	59	18	W	W
	Maintaining a Steam Trap Database	60	18	W	W
	Annual Inspections and Repairs of Steam Leaks	46	33	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	49	26	17	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	63	17	13	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	47	33	11	--
	Cleaning of Heat Transfer Equipment (i)	39	40	13	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	25	52	15	--
	Keep an Inventory of All Motors	33	46	13	--
	Identify the Major Energy Consuming Pumps (k)	53	24	15	--
	Detect and Control Compressed Air Leaks (l)	60	20	13	--
	Track the Amount of Energy Spent in Compressed Air Systems	64	15	13	--
325222	<b>Noncellulosic Organic Fibers</b>				
	Full-Time Energy Manager (c)	46	24	7	--
	Set Goals for Improving Energy Efficiency	32	36	8	--
	Measure and Monitor Steam Used (d)	32	36	W	W
	Dedicated Staff that Performs Insulation Inspections (e)	48	21	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	28	39	10	0
	Maintaining a Steam Trap Database	34	35	8	0
	Annual Inspections and Repairs of Steam Leaks	22	48	7	0
	Measure Oxygen and Carbon Dioxide Levels (f)	36	29	11	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	43	25	8	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	28	38	11	--
	Cleaning of Heat Transfer Equipment (i)	25	42	10	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	14	53	10	--
	Keep an Inventory of All Motors	32	41	4	--
	Identify the Major Energy Consuming Pumps (k)	35	29	13	--
	Detect and Control Compressed Air Leaks (l)	41	31	6	--
	Track the Amount of Energy Spent in Compressed Air Systems	45	27	6	--
325311	<b>Nitrogenous Fertilizers</b>				
	Full-Time Energy Manager (c)	47	13	5	--
	Set Goals for Improving Energy Efficiency	27	28	10	--
	Measure and Monitor Steam Used (d)	26	31	W	W
	Dedicated Staff that Performs Insulation Inspections (e)	34	22	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	33	18	W	W
	Maintaining a Steam Trap Database	33	16	W	W
	Annual Inspections and Repairs of Steam Leaks	23	32	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	16	38	11	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	30	25	10	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	12	43	10	--
	Cleaning of Heat Transfer Equipment (i)	14	40	11	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	12	42	11	--
	Keep an Inventory of All Motors	15	39	11	--
	Identify the Major Energy Consuming Pumps (k)	30	25	10	--
	Detect and Control Compressed Air Leaks (l)	40	17	8	--
	Track the Amount of Energy Spent in Compressed Air Systems	47	9	10	--
325312	<b>Phosphatic Fertilizers</b>				
	Full-Time Energy Manager (c)	W	8	W	--
	Set Goals for Improving Energy Efficiency	15	13	4	--
	Measure and Monitor Steam Used (d)	8	16	8	0
	Dedicated Staff that Performs Insulation Inspections (e)	15	12	5	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	13	13	5	0
	Maintaining a Steam Trap Database	12	15	5	0
	Annual Inspections and Repairs of Steam Leaks	9	17	5	0
	Measure Oxygen and Carbon Dioxide Levels (f)	13	13	5	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	9	16	7	--

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	5	23	4	--
	Cleaning of Heat Transfer Equipment (i)	5	23	4	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	5	23	4	--
	Keep an Inventory of All Motors	W	27	W	--
	Identify the Major Energy Consuming Pumps (k)	12	9	11	--
	Detect and Control Compressed Air Leaks (l)	15	11	7	--
	Track the Amount of Energy Spent in Compressed Air Systems	21	W	W	--
3254	<b>Pharmaceuticals and Medicines</b>				
	Full-Time Energy Manager (c)	868	161	93	--
	Set Goals for Improving Energy Efficiency	636	275	212	
	Measure and Monitor Steam Used (d)	826	68	219	10
	Dedicated Staff that Performs Insulation Inspections (e)	699	241	178	6
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	648	295	174	6
	Maintaining a Steam Trap Database	745	198	174	6
	Annual Inspections and Repairs of Steam Leaks	466	452	200	6
	Measure Oxygen and Carbon Dioxide Levels (f)	467	377	279	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	796	118	209	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	267	653	203	--
	Cleaning of Heat Transfer Equipment (i)	230	690	202	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	206	768	149	--
	Keep an Inventory of All Motors	427	493	203	--
	Identify the Major Energy Consuming Pumps (k)	741	221	161	--
	Detect and Control Compressed Air Leaks (l)	599	334	190	--
	Track the Amount of Energy Spent in Compressed Air Systems	816	102	205	--
325412	<b>Pharmaceutical Preparation</b>				
	Full-Time Energy Manager (c)	444	71	66	--
	Set Goals for Improving Energy Efficiency	303	159	119	--
	Measure and Monitor Steam Used (d)	437	42	92	9
	Dedicated Staff that Performs Insulation Inspections (e)	354	117	105	4
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	316	180	80	4
	Maintaining a Steam Trap Database	385	105	86	4
	Annual Inspections and Repairs of Steam Leaks	224	240	112	4
	Measure Oxygen and Carbon Dioxide Levels (f)	230	220	130	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	429	67	84	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	109	397	74	--
	Cleaning of Heat Transfer Equipment (i)	105	365	111	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	66	419	95	--
	Keep an Inventory of All Motors	226	245	109	--
	Identify the Major Energy Consuming Pumps (k)	380	116	84	--
	Detect and Control Compressed Air Leaks (l)	338	127	115	--
	Track the Amount of Energy Spent in Compressed Air Systems	437	35	108	--
325992	<b>Photographic Film, Paper, Plate, and Chemicals</b>				
	Full-Time Energy Manager (c)	119	17	10	--
	Set Goals for Improving Energy Efficiency	75	49	21	--
	Measure and Monitor Steam Used (d)	103	10	20	13
	Dedicated Staff that Performs Insulation Inspections (e)	108	10	17	11
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	90	23	20	13
	Maintaining a Steam Trap Database	98	13	23	13
	Annual Inspections and Repairs of Steam Leaks	85	29	20	13
	Measure Oxygen and Carbon Dioxide Levels (f)	97	33	16	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	113	14	18	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	85	43	18	--
	Cleaning of Heat Transfer Equipment (i)	83	37	26	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	77	49	20	--
	Keep an Inventory of All Motors	84	46	16	--
	Identify the Major Energy Consuming Pumps (k)	104	21	21	--
	Detect and Control Compressed Air Leaks (l)	88	36	23	--
	Track the Amount of Energy Spent in Compressed Air Systems	110	14	21	--

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Full-Time Energy Manager (c)	8,263	482	1,079	--
	Set Goals for Improving Energy Efficiency	5,398	2,416	2,009	--
	Measure and Monitor Steam Used (d)	7,356	353	1,748	365
	Dedicated Staff that Performs Insulation Inspections (e)	7,260	557	1,641	365
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	6,784	966	1,707	365
	Maintaining a Steam Trap Database	7,304	277	1,876	365
	Annual Inspections and Repairs of Steam Leaks	6,393	1,301	1,764	365
	Measure Oxygen and Carbon Dioxide Levels (f)	6,309	1,120	2,394	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	6,958	567	2,298	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	4,577	3,132	2,114	--
	Cleaning of Heat Transfer Equipment (i)	4,323	3,263	2,237	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	3,614	4,048	2,161	--
	Keep an Inventory of All Motors	4,365	3,388	2,070	--
	Identify the Major Energy Consuming Pumps (k)	6,095	1,448	2,281	--
	Detect and Control Compressed Air Leaks (l)	4,598	3,190	2,035	--
	Track the Amount of Energy Spent in Compressed Air Systems	7,077	601	2,145	--
327	<b>NONMETALLIC MINERAL PRODUCTS</b>				
	Full-Time Energy Manager (c)	9,293	666	2,017	--
	Set Goals for Improving Energy Efficiency	6,789	2,236	2,951	--
	Measure and Monitor Steam Used (d)	8,687	190	2,630	469
	Dedicated Staff that Performs Insulation Inspections (e)	8,406	431	2,660	478
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	8,021	547	2,818	591
	Maintaining a Steam Trap Database	8,546	121	2,750	560
	Annual Inspections and Repairs of Steam Leaks	7,892	846	2,649	590
	Measure Oxygen and Carbon Dioxide Levels (f)	7,259	1,160	3,557	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	8,127	780	3,069	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	5,024	3,628	3,324	--
	Cleaning of Heat Transfer Equipment (i)	5,159	3,453	3,364	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	4,597	4,032	3,347	--
	Keep an Inventory of All Motors	5,528	3,301	3,147	--
	Identify the Major Energy Consuming Pumps (k)	7,621	1,009	3,346	--
	Detect and Control Compressed Air Leaks (l)	6,295	2,379	3,302	--
	Track the Amount of Energy Spent in Compressed Air Systems	8,456	268	3,252	--
327211	<b>Flat Glass</b>				
	Full-Time Energy Manager (c)	29	9	4	--
	Set Goals for Improving Energy Efficiency	20	18	4	--
	Measure and Monitor Steam Used (d)	32	W	8	W
	Dedicated Staff that Performs Insulation Inspections (e)	33	0	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	29	4	W	W
	Maintaining a Steam Trap Database	31	W	9	W
	Annual Inspections and Repairs of Steam Leaks	28	4	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	8	27	8	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	10	25	7	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	3	32	7	--
	Cleaning of Heat Transfer Equipment (i)	9	25	8	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	4	32	6	--
	Keep an Inventory of All Motors	10	25	7	--
	Identify the Major Energy Consuming Pumps (k)	19	18	6	--
	Detect and Control Compressed Air Leaks (l)	20	15	7	--
	Track the Amount of Energy Spent in Compressed Air Systems	25	10	7	--
327212	<b>Other Pressed and Blown Glass and Glassware</b>				
	Full-Time Energy Manager (c)	113	25	19	--
	Set Goals for Improving Energy Efficiency	83	45	29	--
	Measure and Monitor Steam Used (d)	134	W	19	W
	Dedicated Staff that Performs Insulation Inspections (e)	111	W	42	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	116	Q	W	W
	Maintaining a Steam Trap Database	120	Q	W	W
	Annual Inspections and Repairs of Steam Leaks	115	Q	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	62	54	41	--

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

Level: National Data;

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Use Flue Gas to Preheat Other Equipment or Processes (g)	103	17	36	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	34	90	33	--
	Cleaning of Heat Transfer Equipment (i)	46	84	27	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	34	100	23	--
	Keep an Inventory of All Motors	75	59	24	--
	Identify the Major Energy Consuming Pumps (k)	113	16	28	--
	Detect and Control Compressed Air Leaks (l)	79	53	25	--
	Track the Amount of Energy Spent in Compressed Air Systems	96	Q	37	--
327213	<b>Glass Containerers</b>				
	Full-Time Energy Manager (c)	W	17	W	--
	Set Goals for Improving Energy Efficiency	29	22	3	--
	Measure and Monitor Steam Used (d)	48	W	W	0
	Dedicated Staff that Performs Insulation Inspections (e)	47	W	W	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	45	3	7	0
	Maintaining a Steam Trap Database	48	0	7	0
	Annual Inspections and Repairs of Steam Leaks	45	3	7	0
	Measure Oxygen and Carbon Dioxide Levels (f)	3	47	5	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	17	34	3	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	W	52	W	--
	Cleaning of Heat Transfer Equipment (i)	7	45	3	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0	W	W	--
	Keep an Inventory of All Motors	8	26	21	--
	Identify the Major Energy Consuming Pumps (k)	13	18	24	--
	Detect and Control Compressed Air Leaks (l)	23	25	7	--
	Track the Amount of Energy Spent in Compressed Air Systems	26	22	7	--
327215	<b>Glass Products from Purchased Glass</b>				
	Full-Time Energy Manager (c)	658	31	79	--
	Set Goals for Improving Energy Efficiency	504	125	139	--
	Measure and Monitor Steam Used (d)	616	W	W	24
	Dedicated Staff that Performs Insulation Inspections (e)	602	16	126	24
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	527	53	163	25
	Maintaining a Steam Trap Database	580	4	159	25
	Annual Inspections and Repairs of Steam Leaks	526	57	160	25
	Measure Oxygen and Carbon Dioxide Levels (f)	575	34	159	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	590	26	152	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	347	267	154	--
	Cleaning of Heat Transfer Equipment (i)	392	234	142	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	352	274	142	--
	Keep an Inventory of All Motors	443	170	155	--
	Identify the Major Energy Consuming Pumps (k)	593	40	135	--
	Detect and Control Compressed Air Leaks (l)	516	129	123	--
	Track the Amount of Energy Spent in Compressed Air Systems	605	17	145	--
327310	<b>Cements</b>				
	Full-Time Energy Manager (c)	130	38	20	--
	Set Goals for Improving Energy Efficiency	51	115	22	--
	Measure and Monitor Steam Used (d)	121	8	41	18
	Dedicated Staff that Performs Insulation Inspections (e)	121	3	48	16
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	121	4	48	15
	Maintaining a Steam Trap Database	121	W	W	15
	Annual Inspections and Repairs of Steam Leaks	120	3	51	14
	Measure Oxygen and Carbon Dioxide Levels (f)	76	76	36	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	68	70	50	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	47	105	36	--
	Cleaning of Heat Transfer Equipment (i)	56	87	45	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	43	101	44	--
	Keep an Inventory of All Motors	42	108	38	--
	Identify the Major Energy Consuming Pumps (k)	96	37	55	--
	Detect and Control Compressed Air Leaks (l)	91	42	56	--
	Track the Amount of Energy Spent in Compressed Air Systems	104	28	57	--

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

Level: National Data;

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
<b>327410</b>	<b>Lime</b>				
	Full-Time Energy Manager (c)	53	W	W	--
	Set Goals for Improving Energy Efficiency	10	45	7	--
	Measure and Monitor Steam Used (d)	50	W	W	4
	Dedicated Staff that Performs Insulation Inspections (e)	45	W	W	4
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	47	0	11	4
	Maintaining a Steam Trap Database	50	0	9	4
	Annual Inspections and Repairs of Steam Leaks	45	W	W	4
	Measure Oxygen and Carbon Dioxide Levels (f)	16	30	16	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	22	29	11	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	11	34	17	--
	Cleaning of Heat Transfer Equipment (i)	26	24	12	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	10	40	12	--
	Keep an Inventory of All Motors	10	44	9	--
	Identify the Major Energy Consuming Pumps (k)	41	9	12	--
	Detect and Control Compressed Air Leaks (l)	38	16	9	--
	Track the Amount of Energy Spent in Compressed Air Systems	50	4	9	--
<b>327420</b>	<b>Gypsum</b>				
	Full-Time Energy Manager (c)	128	11	5	--
	Set Goals for Improving Energy Efficiency	44	79	22	--
	Measure and Monitor Steam Used (d)	128	W	13	W
	Dedicated Staff that Performs Insulation Inspections (e)	131	W	W	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	87	W	54	W
	Maintaining a Steam Trap Database	89	0	W	W
	Annual Inspections and Repairs of Steam Leaks	125	3	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	110	24	11	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	79	60	6	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	41	89	Q	--
	Cleaning of Heat Transfer Equipment (i)	48	77	20	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	56	74	16	--
	Keep an Inventory of All Motors	36	95	Q	--
	Identify the Major Energy Consuming Pumps (k)	99	30	16	--
	Detect and Control Compressed Air Leaks (l)	72	57	16	--
	Track the Amount of Energy Spent in Compressed Air Systems	124	13	8	--
<b>327993</b>	<b>Mineral Wool</b>				
	Full-Time Energy Manager (c)	158	16	15	--
	Set Goals for Improving Energy Efficiency	135	39	15	--
	Measure and Monitor Steam Used (d)	167	6	16	0
	Dedicated Staff that Performs Insulation Inspections (e)	156	W	W	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	154	3	31	0
	Maintaining a Steam Trap Database	152	4	32	0
	Annual Inspections and Repairs of Steam Leaks	145	10	33	0
	Measure Oxygen and Carbon Dioxide Levels (f)	132	15	41	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	135	10	43	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	50	104	34	--
	Cleaning of Heat Transfer Equipment (i)	48	105	35	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	47	103	38	--
	Keep an Inventory of All Motors	106	44	38	--
	Identify the Major Energy Consuming Pumps (k)	125	19	44	--
	Detect and Control Compressed Air Leaks (l)	126	26	37	--
	Track the Amount of Energy Spent in Compressed Air Systems	139	11	38	--
<b>331</b>	<b>PRIMARY METALS</b>				
	Full-Time Energy Manager (c)	2,594	316	380	--
	Set Goals for Improving Energy Efficiency	1,763	933	594	--
	Measure and Monitor Steam Used (d)	2,476	107	626	81
	Dedicated Staff that Performs Insulation Inspections (e)	2,391	194	624	81
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	2,279	228	699	85
	Maintaining a Steam Trap Database	2,411	59	735	85
	Annual Inspections and Repairs of Steam Leaks	2,175	375	657	83

**Table 8.4 Number of Establishments by Participation In Specific Energy-Management Activities, 2006:**

Level: National Data;

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Measure Oxygen and Carbon Dioxide Levels (f)	1,828	623	839	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	2,168	433	690	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	1,041	1,655	595	--
	Cleaning of Heat Transfer Equipment (i)	1,152	1,419	719	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	972	1,694	624	--
	Keep an Inventory of All Motors	1,331	1,319	640	--
	Identify the Major Energy Consuming Pumps (k)	2,035	556	698	--
	Detect and Control Compressed Air Leaks (l)	1,662	1,041	588	--
	Track the Amount of Energy Spent in Compressed Air Systems	2,380	280	630	--
331111	<b>Iron and Steel Mills</b>				
	Full-Time Energy Manager (c)	257	58	33	--
	Set Goals for Improving Energy Efficiency	158	148	43	--
	Measure and Monitor Steam Used (d)	236	45	60	7
	Dedicated Staff that Performs Insulation Inspections (e)	W	W	61	7
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	236	40	64	9
	Maintaining a Steam Trap Database	259	13	68	9
	Annual Inspections and Repairs of Steam Leaks	212	65	64	7
	Measure Oxygen and Carbon Dioxide Levels (f)	W	109	W	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	W	99	W	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	94	205	50	--
	Cleaning of Heat Transfer Equipment (i)	115	178	55	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	94	209	45	--
	Keep an Inventory of All Motors	104	189	55	--
	Identify the Major Energy Consuming Pumps (k)	216	72	60	--
	Detect and Control Compressed Air Leaks (l)	189	W	W	--
	Track the Amount of Energy Spent in Compressed Air Systems	240	47	61	--
331112	<b>Electrometallurgical Ferroalloy Products</b>				
	Full-Time Energy Manager (c)	W	W	0	--
	Set Goals for Improving Energy Efficiency	11	7	0	--
	Measure and Monitor Steam Used (d)	14	5	0	0
	Dedicated Staff that Performs Insulation Inspections (e)	W	W	0	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	W	W	0	0
	Maintaining a Steam Trap Database	18	0	0	0
	Annual Inspections and Repairs of Steam Leaks	11	7	0	0
	Measure Oxygen and Carbon Dioxide Levels (f)	W	5	W	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	W	0	W	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	5	14	0	--
	Cleaning of Heat Transfer Equipment (i)	W	9	W	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	W	W	0	--
	Keep an Inventory of All Motors	0	18	0	--
	Identify the Major Energy Consuming Pumps (k)	18	0	0	--
	Detect and Control Compressed Air Leaks (l)	14	W	W	--
	Track the Amount of Energy Spent in Compressed Air Systems	W	W	0	--
3312	<b>Steel Products from Purchased Steel</b>				
	Full-Time Energy Manager (c)	W	W	72	--
	Set Goals for Improving Energy Efficiency	263	87	96	--
	Measure and Monitor Steam Used (d)	335	5	83	23
	Dedicated Staff that Performs Insulation Inspections (e)	305	28	91	23
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	295	34	94	23
	Maintaining a Steam Trap Database	328	5	90	23
	Annual Inspections and Repairs of Steam Leaks	265	59	99	23
	Measure Oxygen and Carbon Dioxide Levels (f)	254	75	116	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	304	44	98	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	174	176	96	--
	Cleaning of Heat Transfer Equipment (i)	192	151	103	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	W	W	100	--
	Keep an Inventory of All Motors	173	190	83	--
	Identify the Major Energy Consuming Pumps (k)	283	75	87	--
	Detect and Control Compressed Air Leaks (l)	237	114	94	--
	Track the Amount of Energy Spent in Compressed Air Systems	W	W	105	--

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NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
<b>3313</b>	<b>Alumina and Aluminum</b>				
	Full-Time Energy Manager (c)	287	40	57	--
	Set Goals for Improving Energy Efficiency	171	120	93	--
	Measure and Monitor Steam Used (d)	280	11	79	14
	Dedicated Staff that Performs Insulation Inspections (e)	263	26	82	13
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	W	W	93	13
	Maintaining a Steam Trap Database	256	16	99	13
	Annual Inspections and Repairs of Steam Leaks	228	46	97	13
	Measure Oxygen and Carbon Dioxide Levels (f)	172	112	101	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	216	74	94	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	61	246	77	--
	Cleaning of Heat Transfer Equipment (i)	W	207	W	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	66	247	71	--
	Keep an Inventory of All Motors	135	165	84	--
	Identify the Major Energy Consuming Pumps (k)	210	65	109	--
	Detect and Control Compressed Air Leaks (l)	189	106	89	--
	Track the Amount of Energy Spent in Compressed Air Systems	260	40	84	--
<b>331314</b>	<b>Secondary Smelting and Alloying of Aluminum</b>				
	Full-Time Energy Manager (c)	82	6	10	--
	Set Goals for Improving Energy Efficiency	39	33	25	--
	Measure and Monitor Steam Used (d)	71	W	W	0
	Dedicated Staff that Performs Insulation Inspections (e)	68	4	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	65	W	28	W
	Maintaining a Steam Trap Database	67	W	28	W
	Annual Inspections and Repairs of Steam Leaks	60	7	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	44	30	22	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	60	14	24	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	21	62	14	--
	Cleaning of Heat Transfer Equipment (i)	21	58	18	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	21	62	14	--
	Keep an Inventory of All Motors	30	43	24	--
	Identify the Major Energy Consuming Pumps (k)	58	11	28	--
	Detect and Control Compressed Air Leaks (l)	49	26	22	--
	Track the Amount of Energy Spent in Compressed Air Systems	71	4	22	--
<b>331315</b>	<b>Aluminum Sheet, Plate and Foils</b>				
	Full-Time Energy Manager (c)	35	16	5	--
	Set Goals for Improving Energy Efficiency	24	27	5	--
	Measure and Monitor Steam Used (d)	38	5	W	W
	Dedicated Staff that Performs Insulation Inspections (e)	36	9	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	32	11	W	W
	Maintaining a Steam Trap Database	35	5	W	W
	Annual Inspections and Repairs of Steam Leaks	31	11	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	17	25	14	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	32	15	9	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	4	45	7	--
	Cleaning of Heat Transfer Equipment (i)	12	36	7	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	5	46	5	--
	Keep an Inventory of All Motors	14	36	6	--
	Identify the Major Energy Consuming Pumps (k)	23	19	15	--
	Detect and Control Compressed Air Leaks (l)	24	20	12	--
	Track the Amount of Energy Spent in Compressed Air Systems	33	9	15	--
<b>331316</b>	<b>Aluminum Extruded Products</b>				
	Full-Time Energy Manager (c)	106	9	35	--
	Set Goals for Improving Energy Efficiency	74	22	54	--
	Measure and Monitor Steam Used (d)	101	0	38	11
	Dedicated Staff that Performs Insulation Inspections (e)	93	7	40	10
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	92	8	40	10
	Maintaining a Steam Trap Database	97	W	W	10

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	Annual Inspections and Repairs of Steam Leaks	92	8	40	10
	Measure Oxygen and Carbon Dioxide Levels (f)	73	30	48	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	76	25	49	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	26	79	45	--
	Cleaning of Heat Transfer Equipment (i)	38	60	52	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	26	81	43	--
	Keep an Inventory of All Motors	62	41	46	--
	Identify the Major Energy Consuming Pumps (k)	83	18	49	--
	Detect and Control Compressed Air Leaks (l)	71	36	42	--
	Track the Amount of Energy Spent in Compressed Air Systems	102	10	38	--
3314	<b>Nonferrous Metals, except Aluminum</b>				
	Full-Time Energy Manager (c)	477	60	37	--
	Set Goals for Improving Energy Efficiency	304	160	110	--
	Measure and Monitor Steam Used (d)	485	23	56	10
	Dedicated Staff that Performs Insulation Inspections (e)	451	21	94	8
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	414	48	103	8
	Maintaining a Steam Trap Database	448	15	102	8
	Annual Inspections and Repairs of Steam Leaks	441	56	69	8
	Measure Oxygen and Carbon Dioxide Levels (f)	333	82	159	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	398	58	118	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	275	173	126	--
	Cleaning of Heat Transfer Equipment (i)	262	192	120	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	238	217	119	--
	Keep an Inventory of All Motors	229	277	68	--
	Identify the Major Energy Consuming Pumps (k)	386	99	89	--
	Detect and Control Compressed Air Leaks (l)	316	174	83	--
	Track the Amount of Energy Spent in Compressed Air Systems	414	49	111	--
3315	<b>Foundries</b>				
	Full-Time Energy Manager (c)	1,196	143	181	--
	Set Goals for Improving Energy Efficiency	855	411	253	--
	Measure and Monitor Steam Used (d)	1,126	18	348	28
	Dedicated Staff that Performs Insulation Inspections (e)	1,108	86	296	30
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	1,072	73	344	32
	Maintaining a Steam Trap Database	1,103	10	376	32
	Annual Inspections and Repairs of Steam Leaks	1,019	141	328	32
	Measure Oxygen and Carbon Dioxide Levels (f)	884	241	395	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	1,038	157	325	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	432	841	247	--
	Cleaning of Heat Transfer Equipment (i)	490	682	348	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	426	805	289	--
	Keep an Inventory of All Motors	691	480	350	--
	Identify the Major Energy Consuming Pumps (k)	921	245	354	--
	Detect and Control Compressed Air Leaks (l)	716	542	262	--
	Track the Amount of Energy Spent in Compressed Air Systems	1,131	120	269	--
331511	<b>Iron Foundries</b>				
	Full-Time Energy Manager (c)	315	34	31	--
	Set Goals for Improving Energy Efficiency	240	97	41	--
	Measure and Monitor Steam Used (d)	300	8	57	13
	Dedicated Staff that Performs Insulation Inspections (e)	290	6	70	13
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	288	8	66	16
	Maintaining a Steam Trap Database	288	6	69	16
	Annual Inspections and Repairs of Steam Leaks	278	14	70	16
	Measure Oxygen and Carbon Dioxide Levels (f)	268	43	68	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	294	23	62	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	156	172	51	--
	Cleaning of Heat Transfer Equipment (i)	183	139	57	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	153	166	59	--
	Keep an Inventory of All Motors	189	139	51	--
	Identify the Major Energy Consuming Pumps (k)	252	63	63	--
	Detect and Control Compressed Air Leaks (l)	223	107	49	--

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	Track the Amount of Energy Spent in Compressed Air Systems	287	39	53	--
<b>331521</b>	<b>Aluminum Die-Casting Foundries</b>				
	Full-Time Energy Manager (c)	127	32	Q	--
	Set Goals for Improving Energy Efficiency	86	59	Q	--
	Measure and Monitor Steam Used (d)	121	3	56	Q
	Dedicated Staff that Performs Insulation Inspections (e)	132	W	46	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	122	W	57	W
	Maintaining a Steam Trap Database	123	W	56	W
	Annual Inspections and Repairs of Steam Leaks	121	W	57	W
	Measure Oxygen and Carbon Dioxide Levels (f)	95	44	47	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	103	37	45	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	23	127	Q	--
	Cleaning of Heat Transfer Equipment (i)	50	100	Q	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	28	119	Q	--
	Keep an Inventory of All Motors	100	40	45	--
	Identify the Major Energy Consuming Pumps (k)	83	52	50	--
	Detect and Control Compressed Air Leaks (l)	79	65	Q	--
	Track the Amount of Energy Spent in Compressed Air Systems	114	17	54	--
<b>331524</b>	<b>Aluminum Foundries, except Die-Casting</b>				
	Full-Time Energy Manager (c)	247	26	37	--
	Set Goals for Improving Energy Efficiency	162	88	60	--
	Measure and Monitor Steam Used (d)	235	W	68	W
	Dedicated Staff that Performs Insulation Inspections (e)	234	10	61	5
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	227	5	73	5
	Maintaining a Steam Trap Database	220	W	83	W
	Annual Inspections and Repairs of Steam Leaks	213	7	84	5
	Measure Oxygen and Carbon Dioxide Levels (f)	181	42	86	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	205	33	71	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	70	178	61	--
	Cleaning of Heat Transfer Equipment (i)	80	151	77	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	73	173	63	--
	Keep an Inventory of All Motors	144	82	83	--
	Identify the Major Energy Consuming Pumps (k)	202	29	78	--
	Detect and Control Compressed Air Leaks (l)	144	105	60	--
	Track the Amount of Energy Spent in Compressed Air Systems	227	16	66	--
<b>332</b>	<b>FABRICATED METAL PRODUCTS</b>				
	Full-Time Energy Manager (c)	30,669	804	4,127	--
	Set Goals for Improving Energy Efficiency	23,685	4,670	7,245	--
	Measure and Monitor Steam Used (d)	28,478	Q	5,487	1,455
	Dedicated Staff that Performs Insulation Inspections (e)	27,792	731	5,780	1,296
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	27,677	608	5,860	1,455
	Maintaining a Steam Trap Database	27,953	Q	6,019	1,455
	Annual Inspections and Repairs of Steam Leaks	27,268	844	6,032	1,455
	Measure Oxygen and Carbon Dioxide Levels (f)	25,724	2,218	7,658	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	27,220	905	7,475	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	19,884	8,393	7,323	--
	Cleaning of Heat Transfer Equipment (i)	19,505	7,813	8,282	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	20,319	7,465	7,816	--
	Keep an Inventory of All Motors	21,771	5,887	7,942	--
	Identify the Major Energy Consuming Pumps (k)	26,553	1,544	7,503	--
	Detect and Control Compressed Air Leaks (l)	21,941	6,163	7,495	--
	Track the Amount of Energy Spent in Compressed Air Systems	27,424	1,094	7,082	--
<b>333</b>	<b>MACHINERY</b>				
	Full-Time Energy Manager (c)	14,447	300	1,548	--
	Set Goals for Improving Energy Efficiency	10,952	2,437	2,907	--
	Measure and Monitor Steam Used (d)	13,450	Q	2,174	650
	Dedicated Staff that Performs Insulation Inspections (e)	13,078	359	2,209	650
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	12,921	348	2,377	650

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

Level: National Data;

Row: Specific Energy-Management Activities within NAICS Codes;

Column: Participation;

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Maintaining a Steam Trap Database	13,356	Q	2,153	650
	Annual Inspections and Repairs of Steam Leaks	12,692	718	2,237	650
	Measure Oxygen and Carbon Dioxide Levels (f)	12,445	984	2,867	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	13,674	303	2,319	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	8,595	4,281	3,419	--
	Cleaning of Heat Transfer Equipment (i)	8,053	4,689	3,554	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	8,963	4,140	3,193	--
	Keep an Inventory of All Motors	9,807	2,883	3,607	--
	Identify the Major Energy Consuming Pumps (k)	12,154	959	3,184	--
	Detect and Control Compressed Air Leaks (l)	10,326	2,920	3,050	--
	Track the Amount of Energy Spent in Compressed Air Systems	12,773	367	3,156	--
334	<b>COMPUTER AND ELECTRONIC PRODUCTS</b>				
	Full-Time Energy Manager (c)	6,788	624	776	--
	Set Goals for Improving Energy Efficiency	5,504	1,377	1,307	--
	Measure and Monitor Steam Used (d)	6,779	71	1,024	315
	Dedicated Staff that Performs Insulation Inspections (e)	6,598	254	1,055	281
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	6,362	354	1,127	344
	Maintaining a Steam Trap Database	6,495	233	1,116	344
	Annual Inspections and Repairs of Steam Leaks	6,160	593	1,090	344
	Measure Oxygen and Carbon Dioxide Levels (f)	6,553	558	1,076	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	6,820	204	1,163	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	4,472	2,127	1,589	--
	Cleaning of Heat Transfer Equipment (i)	4,381	1,892	1,914	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	4,094	2,337	1,757	--
	Keep an Inventory of All Motors	5,421	1,159	1,608	--
	Identify the Major Energy Consuming Pumps (k)	6,336	671	1,182	--
	Detect and Control Compressed Air Leaks (l)	5,965	982	1,241	--
	Track the Amount of Energy Spent in Compressed Air Systems	6,618	425	1,145	--
334413	<b>Semiconductors and Related Devices</b>				
	Full-Time Energy Manager (c)	343	51	127	--
	Set Goals for Improving Energy Efficiency	239	128	156	--
	Measure and Monitor Steam Used (d)	356	22	141	4
	Dedicated Staff that Performs Insulation Inspections (e)	330	47	141	4
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	324	48	W	W
	Maintaining a Steam Trap Database	336	39	W	W
	Annual Inspections and Repairs of Steam Leaks	316	62	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	240	90	192	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	344	25	152	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	125	220	178	--
	Cleaning of Heat Transfer Equipment (i)	147	194	182	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	119	217	186	--
	Keep an Inventory of All Motors	181	150	191	--
	Identify the Major Energy Consuming Pumps (k)	289	96	137	--
	Detect and Control Compressed Air Leaks (l)	226	132	164	--
	Track the Amount of Energy Spent in Compressed Air Systems	302	55	165	--
335	<b>ELEC. EQUIP., APPLIANCES, COMPONENTS</b>				
	Full-Time Energy Manager (c)	3,160	264	172	--
	Set Goals for Improving Energy Efficiency	2,377	938	281	--
	Measure and Monitor Steam Used (d)	2,860	Q	412	294
	Dedicated Staff that Performs Insulation Inspections (e)	2,785	139	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	2,652	243	W	W
	Maintaining a Steam Trap Database	2,887	8	W	W
	Annual Inspections and Repairs of Steam Leaks	2,590	270	W	W
	Measure Oxygen and Carbon Dioxide Levels (f)	2,735	278	583	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	2,995	63	539	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	1,910	1,166	520	--
	Cleaning of Heat Transfer Equipment (i)	2,072	1,042	482	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	1,818	1,281	497	--
	Keep an Inventory of All Motors	2,384	742	470	--
	Identify the Major Energy Consuming Pumps (k)	2,771	444	380	--

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

Level: National Data;

Row: Specific Energy-Management Activities within NAICS Codes;

Column: Participation;

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Detect and Control Compressed Air Leaks (l)	2,318	920	358	--
	Track the Amount of Energy Spent in Compressed Air Systems	2,977	307	312	--
<b>336</b>	<b>TRANSPORTATION EQUIPMENT</b>				
	Full-Time Energy Manager (c)	5,370	771	883	--
	Set Goals for Improving Energy Efficiency	3,517	2,322	1,185	--
	Measure and Monitor Steam Used (d)	5,185	209	1,421	208
	Dedicated Staff that Performs Insulation Inspections (e)	5,297	326	1,285	116
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	5,158	316	1,390	160
	Maintaining a Steam Trap Database	5,232	188	1,428	175
	Annual Inspections and Repairs of Steam Leaks	4,980	436	1,432	177
	Measure Oxygen and Carbon Dioxide Levels (f)	4,705	798	1,522	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	5,212	316	1,496	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	3,205	2,316	1,503	--
	Cleaning of Heat Transfer Equipment (i)	3,130	2,220	1,674	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	3,155	2,224	1,645	--
	Keep an Inventory of All Motors	3,291	1,983	1,750	--
	Identify the Major Energy Consuming Pumps (k)	4,329	1,059	1,636	--
	Detect and Control Compressed Air Leaks (l)	3,844	1,841	1,340	--
	Track the Amount of Energy Spent in Compressed Air Systems	5,073	707	1,244	--
<b>336111</b>	<b>Automobiles</b>				
	Full-Time Energy Manager (c)	42	27	8	--
	Set Goals for Improving Energy Efficiency	22	43	12	--
	Measure and Monitor Steam Used (d)	46	14	13	3
	Dedicated Staff that Performs Insulation Inspections (e)	53	8	W	W
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	50	8	14	4
	Maintaining a Steam Trap Database	53	5	14	4
	Annual Inspections and Repairs of Steam Leaks	49	10	13	4
	Measure Oxygen and Carbon Dioxide Levels (f)	35	29	14	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	52	12	13	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	29	32	16	--
	Cleaning of Heat Transfer Equipment (i)	19	37	21	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	19	41	17	--
	Keep an Inventory of All Motors	35	27	14	--
	Identify the Major Energy Consuming Pumps (k)	33	30	14	--
	Detect and Control Compressed Air Leaks (l)	33	33	12	--
	Track the Amount of Energy Spent in Compressed Air Systems	31	34	12	--
<b>336112</b>	<b>Light Trucks and Utility Vehicles</b>				
	Full-Time Energy Manager (c)	14	27	6	--
	Set Goals for Improving Energy Efficiency	5	36	6	--
	Measure and Monitor Steam Used (d)	19	19	9	0
	Dedicated Staff that Performs Insulation Inspections (e)	28	10	9	0
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	24	14	9	0
	Maintaining a Steam Trap Database	24	10	13	0
	Annual Inspections and Repairs of Steam Leaks	15	22	10	0
	Measure Oxygen and Carbon Dioxide Levels (f)	9	28	10	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	24	13	10	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	6	33	8	--
	Cleaning of Heat Transfer Equipment (i)	5	32	10	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	4	34	9	--
	Keep an Inventory of All Motors	14	20	13	--
	Identify the Major Energy Consuming Pumps (k)	11	27	9	--
	Detect and Control Compressed Air Leaks (l)	18	20	9	--
	Track the Amount of Energy Spent in Compressed Air Systems	6	32	9	--
<b>3364</b>	<b>Aerospace Products</b>				
	Full-Time Energy Manager (c)	643	112	154	--
	Set Goals for Improving Energy Efficiency	426	311	173	--
	Measure and Monitor Steam Used (d)	669	13	186	42
	Dedicated Staff that Performs Insulation Inspections (e)	640	45	185	40
	Formal Steam Maintenance Program that Includes the Following:				

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

Level: National Data;

Row: Specific Energy-Management Activities within NAICS Codes;

Column: Participation;

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Annual Testing of All Steam Traps	626	59	202	22
	Maintaining a Steam Trap Database	646	29	198	37
	Annual Inspections and Repairs of Steam Leaks	600	76	195	39
	Measure Oxygen and Carbon Dioxide Levels (f)	512	133	265	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	614	27	269	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	334	362	214	--
	Cleaning of Heat Transfer Equipment (i)	313	338	259	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	339	314	257	--
	Keep an Inventory of All Motors	378	188	343	--
	Identify the Major Energy Consuming Pumps (k)	483	166	261	--
	Detect and Control Compressed Air Leaks (l)	499	206	205	--
	Track the Amount of Energy Spent in Compressed Air Systems	674	68	169	--
336411	<b>Aircraft</b>				
	Full-Time Energy Manager (c)	73	24	8	--
	Set Goals for Improving Energy Efficiency	38	47	20	--
	Measure and Monitor Steam Used (d)	87	5	11	3
	Dedicated Staff that Performs Insulation Inspections (e)	82	9	11	3
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	73	11	14	8
	Maintaining a Steam Trap Database	81	3	15	6
	Annual Inspections and Repairs of Steam Leaks	70	12	15	8
	Measure Oxygen and Carbon Dioxide Levels (f)	62	23	20	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	72	11	23	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	38	43	24	--
	Cleaning of Heat Transfer Equipment (i)	40	41	24	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	38	40	27	--
	Keep an Inventory of All Motors	52	27	26	--
	Identify the Major Energy Consuming Pumps (k)	58	20	27	--
	Detect and Control Compressed Air Leaks (l)	53	30	21	--
	Track the Amount of Energy Spent in Compressed Air Systems	70	12	23	--
337	<b>FURNITURE AND RELATED PRODUCTS</b>				
	Full-Time Energy Manager (c)	9,369	476	1,700	--
	Set Goals for Improving Energy Efficiency	6,283	2,033	3,228	--
	Measure and Monitor Steam Used (d)	8,691	Q	2,261	530
	Dedicated Staff that Performs Insulation Inspections (e)	8,634	261	2,208	442
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	8,340	311	2,364	530
	Maintaining a Steam Trap Database	8,487	54	2,474	530
	Annual Inspections and Repairs of Steam Leaks	8,017	536	2,462	530
	Measure Oxygen and Carbon Dioxide Levels (f)	8,285	638	2,622	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	8,466	443	2,636	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	6,521	2,436	2,588	--
	Cleaning of Heat Transfer Equipment (i)	6,177	2,401	2,967	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	6,579	1,940	3,026	--
	Keep an Inventory of All Motors	7,586	1,276	2,683	--
	Identify the Major Energy Consuming Pumps (k)	8,901	422	2,221	--
	Detect and Control Compressed Air Leaks (l)	7,042	1,912	2,592	--
	Track the Amount of Energy Spent in Compressed Air Systems	8,490	442	2,613	--
339	<b>MISCELLANEOUS</b>				
	Full-Time Energy Manager (c)	12,420	375	2,992	--
	Set Goals for Improving Energy Efficiency	9,842	2,263	3,683	--
	Measure and Monitor Steam Used (d)	11,576	W	W	603
	Dedicated Staff that Performs Insulation Inspections (e)	11,668	416	3,100	603
	Formal Steam Maintenance Program that Includes the Following:				
	Annual Testing of All Steam Traps	11,195	406	3,582	603
	Maintaining a Steam Trap Database	11,582	Q	3,515	603
	Annual Inspections and Repairs of Steam Leaks	11,363	489	3,332	603
	Measure Oxygen and Carbon Dioxide Levels (f)	11,396	560	3,831	--
	Use Flue Gas to Preheat Other Equipment or Processes (g)	12,138	Q	3,493	--
	Process Heating Maintenance Program that Includes the Following:				
	Furnace Inspections (h)	8,995	2,877	3,915	--
	Cleaning of Heat Transfer Equipment (i)	8,826	2,576	4,385	--
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	8,598	3,536	3,653	--
	Keep an Inventory of All Motors	9,949	2,067	3,771	--

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2006:**

Level: National Data;

Row: Specific Energy-Management Activities within NAICS Codes;

Column: Participation;

Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know	Not Applicable
	Identify the Major Energy Consuming Pumps (k)	11,864	286	3,636	--
	Detect and Control Compressed Air Leaks (l)	10,677	1,319	3,791	--
	Track the Amount of Energy Spent in Compressed Air Systems	12,052	Q	3,575	--

(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 2006.

(c) 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.

(d) The amount of steam used is the amount needed to produce a unit of product.

(e) The insulation inspections are to monitor and maintain the condition of the steam system insulation.

(f) "Tuning" the burners requires the measuring of oxygen and carbon dioxide levels in boilers and other fuel fired heating equipment flue gases.

(g) The use of flue gases from fuel fired heating equipment to preheat combustion air, preheat charge equipment/materials, or provide heat for other processes.

(h) Furnace inspections are necessary to seal openings and repair cracks and damaged insulation in furnace walls, doors, etc.

(i) The cleaning of heat transfer surfaces avoids build up of soot, scale, or other material.

(j) Process heating equipment includes, but is not limited to, temperature and pressure sensors, controllers, valve operators, etc.

(k) A plant-wide study conducted to identify the major energy consuming pump systems.

(l) The staff or equipment dedicated to detecting and controlling compressed air system leaks.

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, '2006 Manufacturing Energy Consumption Survey.'

**Table 9.1 Enclosed Floorspace and Number of Establishment Buildings, 2006;**

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)
<b>Total United States</b>						
311	Food	821	14,128	102,497.4	28,279	2.9
3112	Grain and Oilseed Milling	68	580	226,619.4	4,154	7.7
311221	Wet Corn Milling	6	47	367,049.1	759	22.5
31131	Sugar Manufacturing	12	77	459,093.1	602	15.1
3114	Fruit and Vegetable Preserving and Specialty Foods	219	1,125	266,270.5	4,156	4.7
3115	Dairy Products	78	1,044	90,707.7	2,675	2.8
3116	Animal Slaughtering and Processing	126	1,715	118,310.3	4,618	3.5
312	Beverage and Tobacco Products	232	1,830	202,959.1	4,827	3.9
3121	Beverages	206	1,758	188,113.6	4,439	3.7
3122	Tobacco	26	72	531,507.9	388	7.7
313	Textile Mills	237	1,966	209,822.7	3,618	2.7
314	Textile Product Mills	132	3,332	88,302.3	2,816	1.5
315	Apparel	111	5,567	43,721.9	4,402	1.5
316	Leather and Allied Products	21	687	45,661.2	739	1.3
321	Wood Products	372	10,785	62,093.3	30,321	3.7
321113	Sawmills	62	2,282	59,999.7	10,150	5.6
3212	Veneer, Plywood, and Engineered Woods	69	1,461	90,044.6	3,999	3.8
3219	Other Wood Products	233	6,688	57,958.6	14,584	2.9
322	Paper	449	3,957	183,201.7	8,639	3.0
322110	Pulp Mills	4	32	289,109.6	308	17.7
322121	Paper Mills, except Newsprint	78	288	599,544.3	2,676	16.7
322122	Newsprint Mills	5	20	407,073.5	163	11.3
322130	Paperboard Mills	32	200	335,562.4	1,403	10.9
323	Printing and Related Support	407	18,916	37,046.7	15,315	1.2
324	Petroleum and Coal Products	65	1,814	68,347.2	8,453	5.9
324110	Petroleum Refineries	34	209	499,492.0	4,184	38.8
324199	Other Petroleum and Coal Products	4	48	145,533.1	329	8.1
325	Chemicals	682	8,625	125,283.3	38,328	5.9
325110	Petrochemicals	2	45	138,841.2	493	21.8
325120	Industrial Gases	5	560	28,793.8	914	5.6
325181	Alkalies and Chlorine	2	32	179,794.9	469	25.6
325182	Carbon Black	2	23	212,847.6	210	14.2
325188	Other Basic Inorganic Chemicals	63	473	176,224.0	6,054	12.8
325192	Cyclic Crudes and Intermediates	1	25	81,631.2	282	14.1
325193	Ethyl Alcohol	2	65	70,845.1	498	7.5
325199	Other Basic Organic Chemicals	56	488	210,818.4	5,858	15.9
325211	Plastics Materials and Resins	52	558	164,306.1	3,630	9.2
325212	Synthetic Rubber	10	92	148,586.7	1,359	17.8
325222	Noncellulosic Organic Fibers	29	77	617,525.7	619	11.5
325311	Nitrogenous Fertilizers	2	65	79,528.0	542	12.2
325312	Phosphatic Fertilizers	2	32	206,119.9	258	17.1
3254	Pharmaceuticals and Medicines	161	1,123	220,952.6	4,986	6.2
325412	Pharmaceutical Preparation	109	580	317,366.5	2,466	6.0
325992	Photographic Film, Paper, Plate, and Chemicals	34	147	296,376.2	553	4.3
326	Plastics and Rubber Products	759	9,823	108,891.5	14,293	1.8
327	Nonmetallic Mineral Products	362	11,975	56,826.8	24,108	2.7

**Table 9.1 Enclosed Floorspace and Number of Establishment Buildings, 2006;**

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	Establishments(b)	Average Enclosed Floorspace per Establishment (sq ft)	Approximate Number of All Buildings	Average Number of Buildings Onsite per Establishment (counts)
		Onsite (million sq ft)			Onsite (counts)	
327211	Flat Glass	34	42	997,112.2	139	4.1
327212	Other Pressed and Blown Glass and Glassware	42	158	299,234.6	558	3.5
327213	Glass Containers	27	54	606,697.6	385	7.9
327215	Glass Products from Purchased Glass	54	769	94,094.2	1,038	1.5
327310	Cements	11	188	174,456.7	1,355	9.6
327410	Lime	1	62	55,575.8	400	10.1
327420	Gypsum	23	144	216,945.8	506	4.2
327993	Mineral Wool	22	188	145,019.1	309	1.9
331	Primary Metals	471	3,290	185,438.5	13,264	4.7
331111	Iron and Steel Mills	103	348	540,693.8	2,826	12.8
331112	Electrometallurgical Ferroalloy Products	3	18	252,113.7	239	19.8
3312	Steel Products from Purchased Steel	65	446	172,835.4	1,184	2.9
3313	Alumina and Aluminum	102	384	367,187.3	1,930	5.8
331314	Secondary Smelting and Alloying of Aluminum	8	96	129,902.5	562	6.5
331315	Aluminum Sheet, Plate and Foils	26	56	781,240.0	160	4.1
331316	Aluminum Extruded Products	30	150	218,062.1	427	2.7
3314	Nonferrous Metals, except Aluminum	72	574	154,667.1	2,935	5.9
3315	Foundries	125	1,520	102,984.4	4,149	3.0
331511	Iron Foundries	52	379	184,550.0	1,554	4.8
331521	Aluminum Die-Casting Foundries	20	185	107,741.9	427	2.1
331524	Aluminum Foundries, except Die-Casting	15	309	61,026.9	677	2.3
332	Fabricated Metal Products	1,238	35,601	49,484.3	48,156	1.7
333	Machinery	854	16,296	75,473.9	24,656	1.9
334	Computer and Electronic Products	472	8,189	78,098.6	10,880	1.7
334413	Semiconductors and Related Devices	80	523	176,006.4	1,080	2.5
335	Electrical Equip., Appliances, and Components	296	3,595	110,499.5	4,848	1.7
336	Transportation Equipment	1,328	7,024	251,215.6	23,308	3.9
336111	Automobiles	77	77	1,473,820.0	7,316	5.8
336112	Light Trucks and Utility Vehicles	97	48	2,737,072.0	7,413	11.3
3364	Aerospace Product and Parts	298	910	314,374.2	7,533	7.8
336411	Aircraft	113	104	990,383.3	1,839	14.7
337	Furniture and Related Products	557	11,545	80,696.4	12,021	1.5
339	Miscellaneous	408	15,787	39,119.4	Q	Q
	Total	10,274	194,733	82,750.5	474,065	3.3

(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 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, '2006 Manufacturing Energy Consumption Survey.'

Released: June 2010

Next MECS will be conducted in 2010

**Table 10.1 Nonswitchable Minimum and Maximum Consumption, 2006;**

**Level: National and Regional Data;**

**Row: Energy Sources;**

**Column: Consumption Potential;**

**Unit: Physical Units.**

Energy Sources	Actual Consumption	Minimum Consumption(a)	Maximum Consumption(b)
<b>Total United States</b>			
Electricity Receipts(c) (million kilowatthours)	854,102	826,077	889,281
Natural Gas (billion cubic feet)	5,357	4,442	5,649
Distillate Fuel Oil (thousand barrels)	22,139	19,251	101,340
Residual Fuel Oil (thousand barrels)	39,925	25,176	85,318
Coal (thousand short tons)	45,729	35,069	48,146
LPG (thousand barrels)	20,669	17,154	110,964
<b>Northeast Census Region</b>			
Electricity Receipts(c) (million kilowatthours)	92,090	89,368	97,762
Natural Gas (billion cubic feet)	480	344	509
Distillate Fuel Oil (thousand barrels)	4,065	3,448	18,053
Residual Fuel Oil (thousand barrels)	10,195	5,317	28,947
Coal (thousand short tons)	3,420	2,432	3,456
LPG (thousand barrels)	3,386	2,915	15,051
<b>Midwest Census Region</b>			
Electricity Receipts(c) (million kilowatthours)	273,828	266,039	281,075
Natural Gas (billion cubic feet)	1,537	1,281	1,657
Distillate Fuel Oil (thousand barrels)	4,387	4,152	27,319
Residual Fuel Oil (thousand barrels)	5,950	3,483	12,352
Coal (thousand short tons)	18,143	13,600	19,162
LPG (thousand barrels)	5,431	4,916	33,268
<b>South Census Region</b>			
Electricity Receipts(c) (million kilowatthours)	383,995	370,234	402,854
Natural Gas (billion cubic feet)	2,709	2,278	2,813
Distillate Fuel Oil (thousand barrels)	8,237	6,987	43,459
Residual Fuel Oil (thousand barrels)	20,887	15,330	39,761

Released: June 2010

Next MECS will be conducted in 2010

**Table 10.1 Nonswitchable Minimum and Maximum Consumption, 2006;**

**Level: National and Regional Data;**

**Row: Energy Sources;**

**Column: Consumption Potential;**

**Unit: Physical Units.**

<b>Energy Sources</b>	<b>Actual Consumption</b>	<b>Minimum Consumption(a)</b>	<b>Maximum Consumption(b)</b>
Coal (thousand short tons)	18,478	14,258	19,818
LPG (thousand barrels)	7,123	5,999	47,265
<b>West Census Region</b>			
Electricity Receipts(c) (million kilowatthours)	104,188	100,437	107,590
Natural Gas (billion cubic feet)	631	539	670
Distillate Fuel Oil (thousand barrels)	5,450	4,663	12,508
Residual Fuel Oil (thousand barrels)	2,894	1,046	4,257
Coal (thousand short tons)	5,688	4,779	5,711
LPG (thousand barrels)	4,728	3,324	15,380

(a) Minimum consumption represents actual 2006 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 2006 consumption for which switching capability was not ascertained.

(b) Maximum consumption represents actual 2006 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 2006 output remained constant.

(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.

Released: June 2010

Next MECS will be conducted in 2010

**Table 10.1 Nonswitchable Minimum and Maximum Consumption, 2006;**

**Level: National and Regional Data;**

**Row: Energy Sources;**

**Column: Consumption Potential;**

**Unit: Physical Units.**

Energy Sources	Actual Consumption	Minimum Consumption(a)	Maximum Consumption(b)
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\* 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, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2006;**

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)
<b>Total United States</b>										
311	Food	6,603	1,013	5,373	27	981	303	93	271	86
3112	Grain and Oilseed Milling	5,099	658	4,323	27	630	200	0	271	82
311221	Wet Corn Milling	4,243	474	3,770	0	474	44	0	271	0
31131	Sugar Manufacturing	1,395	346	1,050	0	341	93	93	0	4
3114	Fruit and Vegetable Preserving and Specialty Foods	50	0	0	0	0	0	0	0	0
3115	Dairy Products	10	10	0	0	10	10	0	0	0
3116	Animal Slaughtering and Processing	0	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	883	271	612	0	248	95	30	0	0
3121	Beverages	700	175	524	0	175	0	0	0	0
3122	Tobacco	183	95	88	0	73	95	30	0	0
313	Textile Mills	1,428	Q	1,098	0	Q	0	0	0	0
314	Textile Product Mills	138	66	Q	0	33	54	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	Q	Q	56	0	Q	0	0	0	0
321113	Sawmills	0	0	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	83	0	56	0	0	0	0	0	0
3219	Other Wood Products	Q	Q	0	0	Q	0	0	0	0
322	Paper	9,953	3,090	6,596	294	1,705	451	1,219	57	527
322110	Pulp Mills	278	0	278	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	5,512	1,854	3,588	201	909	324	758	57	132
322122	Newsprint Mills	611	0	581	0	0	0	0	0	0
322130	Paperboard Mills	3,290	1,221	1,903	92	779	117	461	0	395
323	Printing and Related Support	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	2,387	10	96	7	10	0	0	0	0
324110	Petroleum Refineries	37	3	34	0	3	0	0	0	0
324199	Other Petroleum and Coal Products	2,351	7	62	7	7	0	0	0	0
325	Chemicals	7,535	2,111	3,704	207	1,216	479	444	Q	0
325110	Petrochemicals	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	742	0	297	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	1,030	194	19	168	26	0	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	855	442	97	0	407	198	0	0	0
325199	Other Basic Organic Chemicals	2,446	442	1,862	0	442	0	0	0	0
325211	Plastics Materials and Resins	482	0	482	0	0	0	0	0	0
325212	Synthetic Rubber	289	149	140	0	52	97	0	0	0
325222	Noncellulosic Organic Fibers	390	238	151	39	26	35	191	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	76	0	76	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	284	163	121	0	163	Q	0	Q	0
325412	Pharmaceutical Preparation	227	163	64	0	163	Q	0	Q	0
325992	Photographic Film, Paper, Plate, and Chemicals	711	384	327	0	0	131	253	0	0
326	Plastics and Rubber Products	Q	Q	Q	0	Q	0	0	0	0
327	Nonmetallic Mineral Products	14,429	2,584	10,365	0	1,955	367	27	0	264
327211	Flat Glass	0	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	Q	0	Q	0	0	0	0	0	0
327310	Cements	10,577	2,011	7,659	0	1,521	332	27	0	162
327410	Lime	3,539	540	2,465	0	402	36	0	0	102
327420	Gypsum	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0
331	Primary Metals	950	427	395	0	422	16	0	0	6
331111	Iron and Steel Mills	640	382	251	0	381	0	0	0	1
331112	Electrometallurgical Ferroalloy Products	97	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	10	10	0	0	10	0	0	0	0
3313	Alumina and Aluminum	4	0	4	0	0	0	0	0	0

**Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2006.**

### Level: National Data and Regional Totals

**Row: NAICS Codes, Value of Shipments and Employment Sizes**

### Column: Energy Sources:

Column: Energy Sources,  
Unit: Thousand Short Tons.

Coal		Alternative Energy Sources(b)						
Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(e)
4	0	4	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
200	36	140	0	31	16	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
54	28	26	9	19	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
231	Q	173	0	Q	0	0	0	0
88	3	85	0	3	0	0	0	0
54	0	54	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
114	86	29	0	39	0	15	0	0
0	0	0	0	0	0	0	0	0
45.729	10.660	28.935	543	7.602	1.765	1.828	347	92

## Northeast Census Region

**Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2006;**

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)
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	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	0	0	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	0	0	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	711	384	327	0	0	131	253	0	0
326	Plastics and Rubber Products	0	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	1,763	33	1,579	0	33	0	0	0	0
327211	Flat Glass	0	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	Q	0	Q	0	0	0	0	0	0
327310	Cements	1,464	0	1,312	0	0	0	0	0	0
327410	Lime	126	0	126	0	0	0	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0
331	Primary Metals	132	37	95	0	31	16	0	0	6
331111	Iron and Steel Mills	2	1	1	0	0	0	0	0	1
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum	0	0	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	130	36	94	0	31	16	0	0	4
3315	Foundries	0	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0
333	Machinery	0	0	0	0	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
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	0	0	0	0	0	0	0	0	0
336111	Automobiles	0	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	0	0	0	0	0	0	0	0	0
336411	Aircraft	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	0	0	0	0	0	0	0	0	0
	Total	3,420	988	2,280	8	129	325	658	57	6

**Midwest Census Region**

311	Food	5,373	856	4,317	27	829	303	93	271	82
3112	Grain and Oilseed Milling	4,650	620	3,928	27	593	200	0	271	82
311221	Wet Corn Milling	3,968	436	3,531	0	436	44	0	271	0
3113	Sugar Manufacturing	614	226	388	0	226	93	93	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	50	0	0	0	0	0	0	0	0
3115	Dairy Products	10	10	0	0	10	10	0	0	0
3116	Animal Slaughtering and Processing	0	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	223	152	71	0	152	0	0	0	0
3121	Beverages	223	152	71	0	152	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	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	Q	Q	54	0	Q	0	0	0	0

**Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2006**

### Level: National Data and Regional Totals

**Row: NAICS Codes, Value of Shipments and Employment Sizes**

### Column: Energy Sources:

**Column: Energy Sources,  
Unit: Thousand Short Tons**

**Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2006;**

Level: National Data and Regional Totals;

Row: NAICS Codes, Value of Shipments and Employment Sizes;

Column: Energy Sources;

Unit: Thousand Short Tons.

NAICS Code(a)	Subsector and Industry	Coal		Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(e)
337	Furniture and Related Products	59	41	18	0	39	0	15	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0	0
	Total	18,143	4,542	9,935	230	4,211	626	224	290	270

**South Census Region**

311	Food	534	37	479	0	37	0	0	0	0
3112	Grain and Oilseed Milling	449	37	394	0	37	0	0	0	0
311221	Wet Corn Milling	276	37	238	0	37	0	0	0	0
31131	Sugar Manufacturing	85	0	85	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	0	0	0	0	0	0	0	0	0
3115	Dairy Products	0	0	0	0	0	0	0	0	0
3116	Animal Slaughtering and Processing	0	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	333	119	214	0	97	95	30	0	0
3121	Beverages	150	Q	126	0	Q	0	0	0	0
3122	Tobacco	183	95	88	0	73	95	30	0	0
313	Textile Mills	1,428	Q	1,098	0	Q	0	0	0	0
314	Textile Product Mills	Q	32	Q	0	32	20	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	29	0	Q	0	0	0	0	0	0
321113	Sawmills	0	0	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	29	0	Q	0	0	0	0	0	0
3219	Other Wood Products	0	0	0	0	0	0	0	0	0
322	Paper	5,785	1,609	4,006	99	715	296	709	0	433
322110	Pulp Mills	278	0	278	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	2,762	718	1,978	6	233	179	248	0	70
322122	Newsprint Mills	30	0	0	0	0	0	0	0	0
322130	Paperboard Mills	2,715	891	1,751	92	482	117	461	0	362
323	Printing and Related Support	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	0	0	0	0	0	0	0	0	0
324110	Petroleum Refineries	0	0	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0	0	0
325	Chemicals	3,601	709	2,223	207	329	35	191	0	0
325110	Petrochemicals	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	444	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	269	168	19	168	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	1,929	303	1,484	0	303	0	0	0	0
325211	Plastics Materials and Resins	222	0	222	0	0	0	0	0	0
325212	Synthetic Rubber	140	0	140	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	390	238	151	39	26	35	191	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	76	0	76	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	0	0	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	Q	Q	Q	0	Q	0	0	0	0
327	Nonmetallic Mineral Products	5,940	1,276	3,982	0	846	332	16	0	112
327211	Flat Glass	0	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	*	0	*	0	0	0	0	0	0
327310	Cements	4,456	1,101	3,246	0	692	332	16	0	92
327410	Lime	1,344	174	636	0	154	0	0	0	20
327420	Gypsum	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0
331	Primary Metals	237	0	206	0	0	0	0	0	0

**Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Thousand Short Tons.**

NAICS Code(a)	Subsector and Industry	Coal		Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(e)
331111	Iron and Steel Mills	163	0	156	0	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum	4	0	4	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	4	0	4	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	70	0	46	0	0	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0
333	Machinery	0	0	0	0	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
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	27	0	13	0	0	0	0	0	0
336111	Automobiles	13	0	13	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	14	0	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	Q	Q	Q	0	0	0	0	0	Q
339	Miscellaneous	0	0	0	0	0	0	0	0	0
	Total	18,478	4,220	12,648	305	2,450	779	945	0	590

**West Census Region**

311	Food	696	120	576	0	115	0	0	0	4
3112	Grain and Oilseed Milling	0	0	0	0	0	0	0	0	0
311221	Wet Corn Milling	0	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	696	120	576	0	115	0	0	0	4
3114	Fruit and Vegetable Preserving and Specialty Foods	0	0	0	0	0	0	0	0	0
3115	Dairy Products	0	0	0	0	0	0	0	0	0
3116	Animal Slaughtering and Processing	0	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	326	0	326	0	0	0	0	0	0
3121	Beverages	326	0	326	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
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	0	0	0	0	0	0	0	0	0
321113	Sawmills	0	0	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	0	0	0	0	0	0	0	0	0
3219	Other Wood Products	0	0	0	0	0	0	0	0	0
322	Paper	642	61	581	0	28	0	0	0	33
322110	Pulp Mills	0	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	0	0	0	0	0	0	0	0	0
322122	Newsprint Mills	581	0	581	0	0	0	0	0	0
322130	Paperboard Mills	61	61	0	0	28	0	0	0	33
323	Printing and Related Support	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	0	0	0	0	0	0	0	0	0
324110	Petroleum Refineries	0	0	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0	0	0
325	Chemicals	1,029	26	297	0	26	0	0	0	0
325110	Petrochemicals	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	297	0	297	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	732	26	0	0	26	0	0	0	0

**Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2006;**

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)
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	0	0	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	0	0	0	0	0	0	0	0	0
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	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	0	0	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	0	0	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	0	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	2,995	703	2,292	0	642	36	0	0	26
327211	Flat Glass	0	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0	0
327310	Cements	2,442	W	W	0	625	0	0	0	26
327410	Lime	553	W	W	0	16	36	0	0	*
327420	Gypsum	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0
331	Primary Metals	0	0	0	0	0	0	0	0	0
331111	Iron and Steel Mills	0	0	0	0	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum	0	0	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	0	0	0	0	0	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0
333	Machinery	0	0	0	0	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
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	0	0	0	0	0	0	0	0	0
336111	Automobiles	0	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	0	0	0	0	0	0	0	0	0
336411	Aircraft	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	0	0	0	0	0	0	0	0	0
	Total	5,688	909	4,073	0	811	36	0	0	63

**Economic Characteristic (f)****Value of Shipments and Receipts  
(million dollars)**

Under 20	925	115	771	0	106	0	0	0	0	9
20-49	4,182	590	2,475	7	442	131	62	19	112	
50-99	7,007	1,591	4,296	0	1,463	114	47	0	63	
100-249	11,829	3,291	8,317	28	2,525	874	68	57	302	
250-499	10,971	2,447	5,384	136	1,305	206	1,107	271	354	
500 and Over	10,815	2,626	7,692	371	1,761	441	544	0	88	
Total	45,729	10,660	28,935	543	7,602	1,765	1,828	347	928	

**Table 10.10 Capability to Switch Coal to Alternative Energy Sources, 2006;**

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)
<b>Employment Size</b>										
Under 50		1,430	118	1,312	0	90	23	0	0	5
50-99		2,879	373	2,207	0	302	104	0	19	0
100-249		15,210	3,926	7,569	34	3,302	744	120	0	353
250-499		10,956	1,937	8,407	102	1,441	370	182	57	119
500-999		8,205	2,451	4,419	37	1,353	364	997	271	363
1000 and Over		7,050	1,855	5,020	371	1,113	161	529	0	88
Total		45,729	10,660	28,935	543	7,602	1,765	1,828	347	928

(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 2006. 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.

\* 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, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 10.11 Number of Establishments with Capability to Switch Coal to Alternative Energy Sources, 2006:**

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)
<b>Total United States</b>										
311	Food	67	21	49	W	19	10	W	W	W
3112	Grain and Oilseed Milling	35	7	29	W	7	3	0	W	W
311221	Wet Corn Milling	18	4	17	0	4	W	0	W	0
31131	Sugar Manufacturing	26	13	20	0	11	W	W	0	W
3114	Fruit and Vegetable Preserving and Specialty Foods	W	0	0	0	0	0	0	0	0
3115	Dairy Products	W	W	0	0	W	W	0	0	0
3116	Animal Slaughtering and Processing	0	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	17	9	13	0	7	4	W	0	0
3121	Beverages	10	4	9	0	W	0	0	0	0
3122	Tobacco	7	4	4	0	W	4	W	0	0
313	Textile Mills	51	W	32	0	W	0	0	0	0
314	Textile Product Mills	Q	Q	W	0	Q	W	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	Q	W	Q	0	W	0	0	0	0
321113	Sawmills	0	0	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	Q	0	Q	0	0	0	0	0	0
3219	Other Wood Products	W	W	0	0	W	0	0	0	0
322	Paper	107	56	67	8	40	15	14	W	14
322110	Pulp Mills	W	0	W	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	59	33	39	4	21	9	7	W	9
322122	Newsprint Mills	3	0	W	0	0	0	0	0	0
322130	Paperboard Mills	38	20	21	4	16	5	7	0	5
323	Printing and Related Support	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	7	W	W	W	W	0	0	0	0
324110	Petroleum Refineries	W	W	W	0	W	0	0	0	0
324199	Other Petroleum and Coal Products	4	W	W	W	W	0	0	0	0
325	Chemicals	61	29	27	W	24	12	4	W	0
325110	Petrochemicals	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	4	0	W	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	6	W	W	W	W	0	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	7	4	W	0	4	W	0	0	0
325199	Other Basic Organic Chemicals	9	4	4	0	4	0	0	0	0
325211	Plastics Materials and Resins	5	0	5	0	0	0	0	0	0
325212	Synthetic Rubber	W	W	W	0	W	W	0	0	0
325222	Noncellulosic Organic Fibers	8	6	W	W	W	4	W	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	W	0	W	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	10	7	W	0	7	W	0	W	0
325412	Pharmaceutical Preparation	8	7	W	0	7	W	0	W	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	W	0	0	W	W	0	0
326	Plastics and Rubber Products	W	W	W	0	W	0	0	0	0
327	Nometallic Mineral Products	194	45	133	0	29	3	W	0	18
327211	Flat Glass	0	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	Q	0	Q	0	0	0	0	0	0
327310	Cements	81	31	63	0	17	W	W	0	14
327410	Lime	46	12	36	0	10	W	0	0	4
327420	Gypsum	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0
331	Primary Metals	24	6	15	0	W	W	0	0	W

**Table 10.11 Number of Establishments with Capability to Switch Coal to Alternative Energy Sources, 2006:**

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)
331111	Iron and Steel Mills	14	W	W	0	W	0	0	0	W
331112	Electrometallurgical Ferroalloy Products	W	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	W	W	0	0	W	0	0	0	0
3313	Alumina and Aluminum	W	0	W	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	W	0	W	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	5	W	W	0	W	W	0	0	W
3315	Foundries	0	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0
333	Machinery	W	W	W	W	W	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
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	13	7	9	0	7	0	0	0	0
336111	Automobiles	4	W	4	0	W	0	0	0	0
336112	Light Trucks and Utility Vehicles	W	0	W	0	0	0	0	0	0
3364	Aerospace Product and Parts	W	0	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	29	Q	Q	0	W	0	W	0	W
339	Miscellaneous	0	0	0	0	0	0	0	0	0
	Total	694	297	426	16	230	52	29	5	56

(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 2006.

(c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for coal during 2006. 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

**Table 10.11 Number of Establishments with Capability to Switch Coal to Alternative Energy Sources, 2006;**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Energy Sources;  
 Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Coal(b)		Alternative Energy Sources(c)					
		Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG

Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2006;**

Level: National Data and Regional Totals;

Row: NAICS Codes, Value of Shipments and Employment Sizes;

Column: Energy Sources;

Unit: Thousand Barrels.

NAICS Code(a)	Subsector and Industry	LPG		Alternative Energy Sources(b)							
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)
<b>Total United States</b>											
311	Food	850	159	549	Q	86	8	*	0	0	Q
3112	Grain and Oilseed Milling	Q	2	Q	1	Q	*	*	0	0	*
311221	Wet Corn Milling	3	*	2	*	*	0	0	0	0	0
31131	Sugar Manufacturing	10	*	9	0	*	0	*	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	147	8	92	Q	6	5	0	0	0	0
3115	Dairy Products	28	2	21	0	2	0	0	0	0	0
3116	Animal Slaughtering and Processing	239	Q	147	Q	Q	Q	0	0	0	*
312	Beverage and Tobacco Products	251	Q	177	Q	5	*	0	0	0	0
3121	Beverages	244	Q	171	Q	4	*	0	0	0	0
3122	Tobacco	7	*	6	*	*	0	0	0	0	0
313	Textile Mills	72	11	52	Q	Q	0	0	0	0	0
314	Textile Product Mills	167	Q	Q	Q	Q	0	0	0	0	*
315	Apparel	6	1	Q	*	*	0	0	0	0	0
316	Leather and Allied Products	14	1	5	0	1	0	0	0	0	0
321	Wood Products	1,368	172	732	12	47	Q	*	*	0	Q
321113	Sawmills	113	28	62	2	Q	22	*	*	0	Q
3212	Veneer, Plywood, and Engineered Woods	850	Q	416	1	7	Q	0	0	0	Q
3219	Other Wood Products	346	52	200	8	35	Q	*	0	0	Q
322	Paper	1,339	132	1,007	38	110	Q	1	*	0	0
322110	Pulp Mills	29	*	28	0	*	*	0	0	0	0
322121	Paper Mills, except Newsprint	182	5	149	5	1	3	*	*	0	0
322122	Newsprint Mills	47	38	8	0	38	0	0	0	0	0
322130	Paperboard Mills	117	3	97	2	1	1	1	0	0	0
323	Printing and Related Support	183	Q	104	Q	Q	0	0	0	0	0
324	Petroleum and Coal Products	7,424	2,209	4,267	Q	2,161	Q	0	0	0	22
324110	Petroleum Refineries	7,307	2,183	4,179	0	2,161	0	0	0	0	22
324199	Other Petroleum and Coal Products	2	*	*	*	0	0	0	0	0	*
325	Chemicals	1,907	79	1,717	Q	63	Q	0	0	0	*
325110	Petrochemicals	1	0	1	0	0	0	0	0	0	0
325120	Industrial Gases	Q	*	Q	*	0	0	0	0	0	0
325181	Alkalies and Chlorine	2	0	2	0	0	0	0	0	0	0
325182	Carbon Black	*	0	*	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	26	4	18	1	1	*	0	0	0	*
325192	Cyclic Crudes and Intermediates	*	0	*	0	0	0	0	0	0	0
325193	Ethyl Alcohol	10	8	2	0	8	0	0	0	0	*
325199	Other Basic Organic Chemicals	76	29	11	*	26	3	0	0	0	*
325211	Plastics Materials and Resins	1,520	1	1,496	*	*	*	0	0	0	0
325212	Synthetic Rubber	9	1	8	1	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	9	*	7	*	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	9	*	9	*	*	*	0	0	0	0
325312	Phosphatic Fertilizers	3	*	2	0	*	*	0	0	0	0
3254	Pharmaceuticals and Medicines	49	*	Q	*	0	0	0	0	0	0
325412	Pharmaceutical Preparation	44	*	Q	*	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	3	*	3	*	0	0	0	0	0	0
326	Plastics and Rubber Products	1,316	57	898	33	Q	Q	Q	0	0	Q
327	Nonmetallic Mineral Products	1,327	39	1,095	13	17	18	Q	0	0	Q
327211	Flat Glass	11	2	8	1	1	*	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	92	1	Q	*	1	*	0	0	0	0
327213	Glass Containers	31	0	29	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	68	5	37	Q	Q	*	Q	0	0	Q
327310	Cements	12	3	6	1	3	3	0	0	0	0
327410	Lime	6	*	5	0	*	0	0	0	0	0
327420	Gypsum	70	Q	61	Q	0	0	0	0	0	0
327993	Mineral Wool	27	4	22	1	0	3	0	0	0	0
331	Primary Metals	979	238	596	206	17	16	Q	0	0	1
331111	Iron and Steel Mills	43	3	28	*	1	2	*	0	0	0
331112	Electrometallurgical Ferroalloy Products	1	*	1	0	0	*	0	0	0	0
3312	Steel Products from Purchased Steel	69	7	50	1	Q	1	0	0	0	*

**Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Thousand Barrels.**

NAICS Code(a)	Subsector and Industry	LPG		Alternative Energy Sources(b)							
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)
3313	Alumina and Aluminum	266	186	66	178	6	2	0	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	13	1	10	*	0	*	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	27	1	26	0	0	1	0	0	0	0
331316	Aluminum Extruded Products	214	184	23	177	6	*	0	0	0	*
3314	Nonferrous Metals, except Aluminum	335	2	284	Q	1	0	Q	0	0	0
3315	Foundries	265	40	167	24	5	Q	0	0	0	Q
331511	Iron Foundries	95	6	69	2	2	2	0	0	0	Q
331521	Aluminum Die-Casting Foundries	47	14	16	Q	2	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	49	10	29	10	*	0	0	0	0	0
332	Fabricated Metal Products	1,178	95	729	Q	Q	Q	0	0	0	Q
333	Machinery	725	8	581	Q	Q	Q	Q	0	0	*
334	Computer and Electronic Products	Q	Q	9	*	Q	0	0	0	0	*
334413	Semiconductors and Related Devices	Q	*	Q	*	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	229	Q	133	Q	Q	Q	0	0	0	0
336	Transportation Equipment	1,008	78	626	Q	Q	Q	0	0	0	Q
336111	Automobiles	63	*	14	*	0	*	0	0	0	0
336112	Light Trucks and Utility Vehicles	10	3	5	*	3	0	0	0	0	0
3364	Aerospace Product and Parts	116	Q	85	1	0	Q	0	0	0	1
336411	Aircraft	12	1	11	1	0	0	0	0	0	1
337	Furniture and Related Products	140	34	91	Q	Q	Q	Q	0	0	Q
339	Miscellaneous	152	Q	51	*	Q	Q	0	0	0	0
	Total	20,669	3,515	13,530	539	2,774	239	21	*	0	70

**Northeast Census Region**

311	Food	95	Q	Q	*	Q	0	0	0	0	0
3112	Grain and Oilseed Milling	1	0	*	0	0	0	0	0	0	0
311221	Wet Corn Milling	0	0	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	*	*	0	0	*	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	4	*	1	*	*	0	0	0	0	0
3115	Dairy Products	Q	0	Q	0	0	0	0	0	0	0
3116	Animal Slaughtering and Processing	Q	0	Q	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	11	*	10	*	0	0	0	0	0	0
3121	Beverages	10	0	9	0	0	0	0	0	0	0
3122	Tobacco	1	*	1	*	0	0	0	0	0	0
313	Textile Mills	Q	0	Q	0	0	0	0	0	0	0
314	Textile Product Mills	Q	0	Q	0	0	0	0	0	0	0
315	Apparel	Q	0	Q	0	0	0	0	0	0	0
316	Leather and Allied Products	10	0	1	0	0	0	0	0	0	0
321	Wood Products	104	Q	83	*	Q	*	*	*	0	*
321113	Sawmills	15	Q	10	*	Q	*	*	*	0	*
3212	Veneer, Plywood, and Engineered Woods	51	0	49	0	0	0	0	0	0	0
3219	Other Wood Products	36	Q	24	0	Q	0	0	0	0	0
322	Paper	450	11	396	8	Q	3	0	0	0	0
322110	Pulp Mills	8	0	8	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	38	4	33	4	1	3	0	0	0	0
322122	Newsprint Mills	1	0	1	0	0	0	0	0	0	0
322130	Paperboard Mills	10	1	9	1	0	1	0	0	0	0
323	Printing and Related Support	Q	*	Q	*	0	0	0	0	0	0
324	Petroleum and Coal Products	1,550	391	912	*	391	0	0	0	0	0
324110	Petroleum Refineries	1,493	391	855	0	391	0	0	0	0	0
324199	Other Petroleum and Coal Products	*	0	*	0	0	0	0	0	0	0
325	Chemicals	69	*	Q	*	*	0	0	0	0	0
325110	Petrochemicals	1	0	1	0	0	0	0	0	0	0
325120	Industrial Gases	*	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	*	0	*	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	2	*	Q	0	*	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	*	0	*	0	0	0	0	0	0	0
325193	Ethyl Alcohol	1	0	1	0	0	0	0	0	0	0

**Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Thousand Barrels.**

NAICS Code(a)	Subsector and Industry	LPG		Alternative Energy Sources(b)						Coal Coke and Breeze	Other(e)
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal		
325199	Other Basic Organic Chemicals	2	0	2	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	13	*	7	*	0	0	0	0	0	0
325212	Synthetic Rubber	*	0	*	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	3	0	3	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	1	*	1	*	0	0	0	0	0	0
325412	Pharmaceutical Preparation	1	*	1	*	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	1	0	1	0	0	0	0	0	0	0
326	Plastics and Rubber Products	Q	Q	Q	Q	0	Q	Q	0	0	0
327	Nonmetallic Mineral Products	95	4	90	Q	*	Q	0	0	0	0
327211	Flat Glass	1	*	1	*	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	22	*	21	0	*	0	0	0	0	0
327213	Glass Containers	4	0	3	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	19	*	19	*	*	*	0	0	0	0
327310	Cements	2	1	2	1	0	1	0	0	0	0
327410	Lime	1	0	1	0	0	0	0	0	0	0
327420	Gypsum	10	0	10	0	0	0	0	0	0	0
327993	Mineral Wool	4	0	4	0	0	0	0	0	0	0
331	Primary Metals	146	22	84	Q	1	Q	0	0	0	*
331111	Iron and Steel Mills	20	1	11	*	1	*	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	Q	*	Q	0	0	0	0	0	0	*
3313	Alumina and Aluminum	14	*	13	*	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	*	0	*	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	5	0	5	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	5	0	4	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	Q	0	10	0	0	0	0	0	0	0
3315	Foundries	72	21	44	Q	*	Q	0	0	0	0
331511	Iron Foundries	14	*	14	*	*	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	Q	Q	3	Q	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	8	0	2	0	0	0	0	0	0	0
332	Fabricated Metal Products	58	0	45	0	0	0	0	0	0	0
333	Machinery	Q	0	Q	0	0	0	0	0	0	0
334	Computer and Electronic Products	Q	*	Q	*	0	0	0	0	0	0
334413	Semiconductors and Related Devices	Q	0	Q	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	Q	Q	Q	0	Q	0	0	0	0	0
336	Transportation Equipment	Q	0	Q	0	0	0	0	0	0	0
336111	Automobiles	*	0	*	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	3	0	3	0	0	0	0	0	0	0
336411	Aircraft	*	0	*	0	0	0	0	0	0	0
337	Furniture and Related Products	Q	0	Q	0	0	0	0	0	0	0
339	Miscellaneous	Q	Q	Q	0	Q	0	Q	0	0	0
	Total	3,386	471	2,274	25	422	18	Q	*	0	*

**Midwest Census Region**

311	Food	272	44	176	Q	Q	5	*	0	0	*
3112	Grain and Oilseed Milling	17	Q	14	1	Q	*	*	0	0	*
311221	Wet Corn Milling	3	*	2	*	0	0	0	0	0	0
31131	Sugar Manufacturing	3	0	3	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	68	4	Q	0	4	4	0	0	0	0
3115	Dairy Products	Q	2	Q	0	2	0	0	0	0	0
3116	Animal Slaughtering and Processing	44	Q	12	0	Q	Q	0	0	0	0
312	Beverage and Tobacco Products	23	5	10	*	4	0	0	0	0	0
3121	Beverages	23	5	10	*	4	0	0	0	0	0
3122	Tobacco	0	0	0	0	0	0	0	0	0	0
313	Textile Mills	Q	0	Q	0	0	0	0	0	0	0
314	Textile Product Mills	Q	0	Q	0	0	0	0	0	0	0

**Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2006;**

Level: National Data and Regional Totals;

Row: NAICS Codes, Value of Shipments and Employment Sizes;

Column: Energy Sources;

Unit: Thousand Barrels.

NAICS Code(a)	Subsector and Industry	LPG		Alternative Energy Sources(b)							
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)
315	Apparel	0	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	4	1	3	0	1	0	0	0	0	0
321	Wood Products	Q	6	100	Q	*	Q	*	0	0	*
321113	Sawmills	24	Q	15	*	0	*	*	0	0	*
3212	Veneer, Plywood, and Engineered Woods	Q	*	11	0	0	0	0	0	0	*
3219	Other Wood Products	94	Q	74	Q	*	Q	0	0	0	0
322	Paper	200	Q	159	Q	0	*	0	0	0	0
322110	Pulp Mills	*	*	*	0	0	*	0	0	0	0
322121	Paper Mills, except Newsprint	47	1	44	1	0	0	0	0	0	0
322122	Newsprint Mills	*	0	*	0	0	0	0	0	0	0
322130	Paperboard Mills	15	0	12	0	0	0	0	0	0	0
323	Printing and Related Support	89	Q	61	Q	Q	0	0	0	0	0
324	Petroleum and Coal Products	757	217	240	Q	208	0	0	0	0	*
324110	Petroleum Refineries	732	207	226	0	207	0	0	0	0	0
324199	Other Petroleum and Coal Products	*	*	*	*	0	0	0	0	0	*
325	Chemicals	1,272	56	1,192	3	Q	Q	0	0	0	*
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	1	*	1	*	0	0	0	0	0	0
325181	Alkalies and Chlorine	1	0	1	0	0	0	0	0	0	0
325182	Carbon Black	*	0	*	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	2	1	1	1	*	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	*	0	*	0	0	0	0	0	0	0
325193	Ethyl Alcohol	9	8	1	0	8	0	0	0	0	*
325199	Other Basic Organic Chemicals	21	18	3	*	15	3	0	0	0	0
325211	Plastics Materials and Resins	1,183	0	1,167	0	0	0	0	0	0	0
325212	Synthetic Rubber	1	1	*	1	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	2	0	1	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	5	*	4	*	0	0	0	0	0	0
325412	Pharmaceutical Preparation	*	0	*	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	*	*	*	*	0	0	0	0	0	0
326	Plastics and Rubber Products	195	20	66	Q	Q	0	0	0	0	Q
327	Nonmetallic Mineral Products	228	15	168	3	Q	7	Q	0	0	Q
327211	Flat Glass	2	1	1	1	*	*	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	Q	0	Q	0	0	0	0	0	0	0
327213	Glass Containers	8	0	8	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	21	2	9	Q	*	*	Q	0	0	Q
327310	Cements	5	0	2	0	0	0	0	0	0	0
327410	Lime	1	*	*	0	*	0	0	0	0	0
327420	Gypsum	17	0	16	0	0	0	0	0	0	0
327993	Mineral Wool	14	4	9	*	0	3	0	0	0	0
331	Primary Metals	382	18	324	10	5	4	Q	0	0	Q
331111	Iron and Steel Mills	13	2	8	*	*	2	*	0	0	0
331112	Electrometallurgical Ferroalloy Products	1	0	1	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	27	2	23	1	0	0	0	0	0	*
3313	Alumina and Aluminum	24	2	16	2	0	*	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	5	*	3	*	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	5	*	5	0	0	*	0	0	0	0
331316	Aluminum Extruded Products	11	1	6	1	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	212	Q	207	Q	1	0	Q	0	0	0
3315	Foundries	107	10	69	4	4	2	0	0	0	Q
331511	Iron Foundries	45	5	38	1	2	2	0	0	0	Q
331521	Aluminum Die-Casting Foundries	27	2	8	1	2	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	13	2	8	2	*	0	0	0	0	0
332	Fabricated Metal Products	518	Q	262	Q	Q	0	0	0	0	*
333	Machinery	305	Q	221	Q	*	Q	0	0	0	*
334	Computer and Electronic Products	Q	Q	*	0	Q	0	0	0	0	0
334413	Semiconductors and Related Devices	*	0	*	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	44	0	33	0	0	0	0	0	0	0
336	Transportation Equipment	625	Q	403	Q	Q	Q	0	0	0	Q

**Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2006;**

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)
336111	Automobiles	9	*	4	0	0	*	0	0	0	0
336112	Light Trucks and Utility Vehicles	6	1	5	0	1	0	0	0	0	0
3364	Aerospace Product and Parts	12	0	2	0	0	0	0	0	0	0
336411	Aircraft	*	0	*	0	0	0	0	0	0	0
337	Furniture and Related Products	65	13	49	6	Q	0	0	0	0	0
339	Miscellaneous	10	0	Q	0	0	0	0	0	0	0
	Total	5,431	515	3,477	109	378	55	Q	0	0	Q
<b>South Census Region</b>											
311	Food	234	Q	162	Q	Q	Q	0	0	0	Q
3112	Grain and Oilseed Milling	7	*	5	0	*	0	0	0	0	0
311221	Wet Corn Milling	*	*	0	0	*	0	0	0	0	0
31131	Sugar Manufacturing	6	0	5	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	15	*	11	*	0	*	0	0	0	0
3115	Dairy Products	*	0	*	0	0	0	0	0	0	0
3116	Animal Slaughtering and Processing	187	Q	128	Q	Q	*	0	0	0	*
312	Beverage and Tobacco Products	62	1	32	1	*	*	0	0	0	0
3121	Beverages	56	1	26	*	0	*	0	0	0	0
3122	Tobacco	6	*	5	*	*	0	0	0	0	0
313	Textile Mills	66	11	48	Q	Q	0	0	0	0	0
314	Textile Product Mills	Q	Q	Q	Q	Q	0	0	0	0	*
315	Apparel	Q	1	*	*	*	0	0	0	0	0
316	Leather and Allied Products	*	0	*	0	0	0	0	0	0	0
321	Wood Products	517	61	389	7	Q	6	*	0	0	Q
321113	Sawmills	25	1	13	Q	0	*	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	326	Q	284	1	Q	5	0	0	0	Q
3219	Other Wood Products	113	38	43	Q	0	*	0	0	0	0
322	Paper	481	71	320	26	Q	Q	1	*	0	0
322110	Pulp Mills	21	0	20	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	75	*	52	*	*	0	*	*	0	0
322122	Newsprint Mills	1	0	*	0	0	0	0	0	0	0
322130	Paperboard Mills	62	2	54	1	1	*	1	0	0	0
323	Printing and Related Support	69	Q	21	Q	Q	0	0	0	0	0
324	Petroleum and Coal Products	2,075	475	1,232	0	454	Q	0	0	0	4
324110	Petroleum Refineries	2,042	458	1,217	0	454	0	0	0	0	4
324199	Other Petroleum and Coal Products	1	0	*	0	0	0	0	0	0	0
325	Chemicals	530	21	436	Q	12	*	0	0	0	*
325110	Petrochemicals	*	0	*	0	0	0	0	0	0	0
325120	Industrial Gases	Q	0	Q	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	1	0	*	0	0	0	0	0	0	0
325182	Carbon Black	*	0	*	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	13	1	10	0	1	*	0	0	0	0
325192	Cyclic Crudes and Intermediates	*	0	*	0	0	0	0	0	0	0
325193	Ethyl Alcohol	*	0	*	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	51	11	4	*	11	*	0	0	0	*
325211	Plastics Materials and Resins	320	*	318	0	*	*	0	0	0	0
325212	Synthetic Rubber	8	*	7	*	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	6	*	3	*	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	*	0	*	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	2	*	2	0	*	0	0	0	0	0
3254	Pharmaceuticals and Medicines	43	0	Q	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	43	0	Q	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	Q	0	Q	0	0	0	0	0	0	0
326	Plastics and Rubber Products	345	27	254	Q	Q	Q	0	0	0	0
327	Nonmetallic Mineral Products	Q	13	Q	Q	8	3	0	0	0	0
327211	Flat Glass	5	*	4	0	*	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	6	1	5	*	1	0	0	0	0	0
327213	Glass Containers	7	0	6	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	26	Q	7	*	Q	0	0	0	0	0

**Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2006;**

Level: National Data and Regional Totals;

Row: NAICS Codes, Value of Shipments and Employment Sizes;

Column: Energy Sources;

Unit: Thousand Barrels.

NAICS Code(a)	Subsector and Industry	LPG		Alternative Energy Sources(b)							
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)
327310	Cements	4	3	1	0	3	3	0	0	0	0
327410	Lime	*	0	*	0	0	0	0	0	0	0
327420	Gypsum	31	Q	26	Q	0	0	0	0	0	0
327993	Mineral Wool	6	*	5	*	0	*	0	0	0	0
331	Primary Metals	335	189	99	176	11	2	0	0	0	*
331111	Iron and Steel Mills	9	*	8	0	*	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	25	5	14	*	Q	1	0	0	0	*
3313	Alumina and Aluminum	213	182	26	175	6	1	0	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	2	*	2	0	0	*	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	15	0	15	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	191	182	8	175	6	*	0	0	0	*
3314	Nonferrous Metals, except Aluminum	38	0	21	0	0	0	0	0	0	0
3315	Foundries	49	1	30	1	*	*	0	0	0	0
331511	Iron Foundries	33	*	16	0	*	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	4	0	4	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	5	1	4	1	0	0	0	0	0	0
332	Fabricated Metal Products	501	Q	371	Q	Q	*	0	0	0	Q
333	Machinery	Q	Q	Q	Q	Q	*	Q	0	0	0
334	Computer and Electronic Products	3	*	3	*	0	0	0	0	0	*
334413	Semiconductors and Related Devices	*	*	*	*	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	120	Q	72	Q	Q	Q	0	0	0	0
336	Transportation Equipment	240	Q	111	Q	4	Q	0	0	0	*
336111	Automobiles	47	*	9	*	0	*	0	0	0	0
336112	Light Trucks and Utility Vehicles	4	2	*	*	2	0	0	0	0	0
3364	Aerospace Product and Parts	46	Q	26	0	0	Q	0	0	0	*
336411	Aircraft	7	*	7	0	0	0	0	0	0	*
337	Furniture and Related Products	60	Q	29	Q	0	Q	Q	0	0	Q
339	Miscellaneous	90	Q	19	*	Q	Q	0	0	0	0
	Total	7,123	1,124	4,767	280	774	69	Q	*	0	25

**West Census Region**

311	Food	249	Q	136	Q	2	1	*	0	0	0
3112	Grain and Oilseed Milling	Q	*	Q	*	*	0	0	0	0	0
311221	Wet Corn Milling	*	0	*	0	0	0	0	0	0	0
31131	Sugar Manufacturing	1	*	1	0	0	0	*	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	61	4	36	Q	2	1	0	0	0	0
3115	Dairy Products	Q	0	Q	0	0	0	0	0	0	0
3116	Animal Slaughtering and Processing	2	*	*	*	0	0	0	0	0	0
312	Beverage and Tobacco Products	155	Q	125	Q	0	*	0	0	0	0
3121	Beverages	155	Q	125	Q	0	*	0	0	0	0
3122	Tobacco	0	0	0	0	0	0	0	0	0	0
313	Textile Mills	*	0	*	0	0	0	0	0	0	0
314	Textile Product Mills	Q	0	Q	0	0	0	0	0	0	0
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
321	Wood Products	327	Q	159	3	8	Q	0	0	0	Q
321113	Sawmills	49	22	24	1	1	21	0	0	0	Q
3212	Veneer, Plywood, and Engineered Woods	170	Q	72	0	5	Q	0	0	0	0
3219	Other Wood Products	104	7	59	Q	Q	0	0	0	0	Q
322	Paper	209	45	133	0	45	0	0	0	0	0
322110	Pulp Mills	1	*	1	0	*	0	0	0	0	0
322121	Paper Mills, except Newsprint	22	0	20	0	0	0	0	0	0	0
322122	Newsprint Mills	44	38	7	0	38	0	0	0	0	0
322130	Paperboard Mills	30	0	22	0	0	0	0	0	0	0
323	Printing and Related Support	Q	0	Q	0	0	0	0	0	0	0
324	Petroleum and Coal Products	3,043	1,127	1,883	0	1,109	0	0	0	0	18
324110	Petroleum Refineries	3,040	1,127	1,882	0	1,109	0	0	0	0	18
324199	Other Petroleum and Coal Products	*	0	*	0	0	0	0	0	0	0

**Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2006;**

Level: National Data and Regional Totals;

Row: NAICS Codes, Value of Shipments and Employment Sizes;

Column: Energy Sources;

Unit: Thousand Barrels.

NAICS Code(a)	Subsector and Industry	LPG		Alternative Energy Sources(b)							
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)
325	Chemicals	36	2	29	*	*	*	0	0	0	*
325110	Petrochemicals	*	0	*	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	*	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	8	2	6	*	0	0	0	0	0	*
325192	Cyclic Crudes and Intermediates	*	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	*	0	*	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	3	0	3	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	4	*	3	0	0	*	0	0	0	0
325212	Synthetic Rubber	*	*	*	*	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	7	*	7	*	*	*	0	0	0	0
325312	Phosphatic Fertilizers	*	*	*	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
325992	Photographic Film, Paper, Plate, and Chemicals	1	0	1	0	0	0	0	0	0	0
326	Plastics and Rubber Products	Q	Q	Q	Q	*	0	0	0	0	0
327	Nonmetallic Mineral Products	101	Q	84	Q	Q	Q	0	0	0	0
327211	Flat Glass	2	*	2	0	*	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	1	*	1	0	0	*	0	0	0	0
327213	Glass Containers	11	0	11	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	2	*	2	0	0	*	0	0	0	0
327310	Cements	1	*	1	0	0	*	0	0	0	0
327410	Lime	3	0	3	0	0	0	0	0	0	0
327420	Gypsum	11	0	8	0	0	0	0	0	0	0
327993	Mineral Wool	4	0	4	0	0	0	0	0	0	0
331	Primary Metals	116	9	89	8	1	1	0	0	0	0
331111	Iron and Steel Mills	1	*	1	0	0	*	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	*	*	0	0	0	*	0	0	0	0
3312	Steel Products from Purchased Steel	10	0	Q	0	0	0	0	0	0	0
3313	Alumina and Aluminum	14	1	11	1	0	*	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	5	0	5	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	1	*	1	0	0	*	0	0	0	0
331316	Aluminum Extruded Products	7	1	4	1	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	Q	*	Q	0	*	0	0	0	0	0
3315	Foundries	38	8	24	7	*	*	0	0	0	0
331511	Iron Foundries	2	*	2	0	*	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	1	0	1	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	24	7	15	7	*	0	0	0	0	0
332	Fabricated Metal Products	101	Q	51	Q	Q	0	0	0	0	*
333	Machinery	Q	0	Q	0	0	0	0	0	0	0
334	Computer and Electronic Products	4	0	Q	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	*	0	*	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	Q	0	Q	0	0	0	0	0	0	0
336	Transportation Equipment	93	2	61	2	0	*	0	0	0	1
336111	Automobiles	6	0	1	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	55	1	54	1	0	0	0	0	0	1
336411	Aircraft	5	1	4	1	0	0	0	0	0	1
337	Furniture and Related Products	Q	Q	Q	Q	0	0	0	0	0	0
339	Miscellaneous	Q	0	Q	0	0	0	0	0	0	0
	Total	4,728	1,405	3,011	Q	1,199	Q	*	0	0	20

**Economic Characteristic (f)****Value of Shipments and Receipts  
(million dollars)**

Under 20

3,761

373

2,363

100

158

Q

Q

0

0

Q

**Table 10.12 Capability to Switch LPG to Alternative Energy Sources, 2006;**

Level: National Data and Regional Totals;

Row: NAICS Codes, Value of Shipments and Employment Sizes;

Column: Energy Sources;

Unit: Thousand Barrels.

NAICS Code(a)	Subsector and Industry	LPG		Alternative Energy Sources(b)							
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(e)
20-49		2,077	266	1,131	118	96	76	Q	0	0	Q
50-99		2,672	355	1,913	259	129	Q	*	*	0	2
100-249		3,052	279	2,436	49	186	24	Q	0	0	Q
250-499		950	51	818	3	48	1	*	*	0	0
500 and Over		8,156	2,191	4,869	12	2,156	3	0	0	0	23
Total		20,669	3,515	13,530	539	2,774	239	21	*	0	70
<b>Employment Size</b>											
Under 50		2,592	274	1,922	65	82	Q	Q	0	0	Q
50-99		1,838	262	760	Q	136	70	Q	*	0	Q
100-249		6,130	350	4,854	132	239	36	Q	0	0	8
250-499		3,965	859	2,796	207	622	14	1	0	0	Q
500-999		4,052	1,132	2,043	26	1,087	Q	Q	*	0	*
1000 and Over		2,092	637	1,155	12	607	*	0	0	0	19
Total		20,669	3,515	13,530	539	2,774	239	21	*	0	70

(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 2006. 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 and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 10.13 Number of Establishments with Capability to Switch LPG to Alternative Energy Sources, 2006:**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Energy Sources;  
 Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	LPG(b)			Alternative Energy Sources(c)						
		Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(f)
<b>Total United States</b>											
311	Food	2,920	325	1,945	171	174	25	W	0	0	15
3112	Grain and Oilseed Milling	269	36	152	Q	Q	W	W	0	0	W
311221	Wet Corn Milling	19	W	11	W	W	0	0	0	0	0
31131	Sugar Manufacturing	35	4	24	0	W	0	W	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	325	37	230	Q	Q	5	0	0	0	0
3115	Dairy Products	147	5	106	0	5	0	0	0	0	0
3116	Animal Slaughtering and Processing	352	67	214	Q	27	12	0	0	0	W
312	Beverage and Tobacco Products	790	143	434	139	W	Q	0	0	0	0
3121	Beverages	758	139	408	W	W	Q	0	0	0	0
3122	Tobacco	33	4	26	W	W	0	0	0	0	0
313	Textile Mills	630	53	488	Q	Q	0	0	0	0	0
314	Textile Product Mills	687	157	398	W	117	0	0	0	0	W
315	Apparel	360	W	Q	W	W	0	0	0	0	0
316	Leather and Allied Products	57	W	21	0	W	0	0	0	0	0
321	Wood Products	4,477	629	2,706	233	233	175	Q	W	0	47
321113	Sawmills	534	63	333	29	Q	26	4	W	0	9
3212	Veneer, Plywood, and Engineered Woods	712	103	398	W	18	53	0	0	0	33
3219	Other Wood Products	3,138	457	1,906	196	186	97	W	0	0	W
322	Paper	2,032	236	1,311	140	124	24	W	W	0	0
322110	Pulp Mills	14	W	11	0	W	W	0	0	0	0
322121	Paper Mills, except Newsprint	176	13	130	11	7	4	W	W	0	0
322122	Newsprint Mills	12	W	9	0	W	0	0	0	0	0
322130	Paperboard Mills	123	5	97	4	W	W	W	0	0	0
323	Printing and Related Support	2,177	417	1,208	Q	229	0	0	0	0	0
324	Petroleum and Coal Products	467	89	316	10	51	W	0	0	0	4
324110	Petroleum Refineries	96	37	42	0	34	0	0	0	0	W
324199	Other Petroleum and Coal Products	13	W	7	W	0	0	0	0	0	W
325	Chemicals	2,268	228	1,583	161	Q	Q	0	0	0	4
325110	Petrochemicals	9	0	8	0	0	0	0	0	0	0
325120	Industrial Gases	36	W	34	W	0	0	0	0	0	0
325181	Alkalies and Chlorine	12	0	10	0	0	0	0	0	0	0
325182	Carbon Black	7	0	4	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	194	20	125	Q	3	W	0	0	0	W
325192	Cyclic Crudes and Intermediates	7	0	5	0	0	0	0	0	0	0
325193	Ethyl Alcohol	14	4	11	0	W	0	0	0	0	W
325199	Other Basic Organic Chemicals	177	18	148	10	8	5	0	0	0	W
325211	Plastics Materials and Resins	241	11	149	W	W	Q	0	0	0	0
325212	Synthetic Rubber	36	6	22	6	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	32	4	21	W	W	0	0	0	0	0
325311	Nitrogenous Fertilizers	23	W	15	W	W	W	0	0	0	0
325312	Phosphatic Fertilizers	11	W	8	0	W	W	0	0	0	0
3254	Pharmaceuticals and Medicines	157	Q	117	Q	0	0	0	0	0	0
325412	Pharmaceutical Preparation	92	4	81	4	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	31	W	25	W	0	0	0	0	0	0
326	Plastics and Rubber Products	3,474	590	2,151	394	112	Q	W	0	0	W
327	Nonmetallic Mineral Products	3,229	351	2,138	132	124	170	W	0	0	W
327211	Flat Glass	28	7	20	4	3	W	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	98	Q	46	W	Q	W	0	0	0	0
327213	Glass Containers	29	0	27	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	300	28	200	14	16	5	W	0	0	W
327310	Cements	36	W	26	W	W	W	0	0	0	0
327410	Lime	27	W	21	0	W	0	0	0	0	0
327420	Gypsum	95	W	79	W	0	0	0	0	0	0
327993	Mineral Wool	93	6	71	3	0	W	0	0	0	0
331	Primary Metals	1,599	163	1,073	70	60	31	Q	0	0	16
331111	Iron and Steel Mills	134	17	89	4	W	9	W	0	0	0
331112	Electrometallurgical Ferroalloy Products	9	W	7	0	0	W	0	0	0	0

**Table 10.13 Number of Establishments with Capability to Switch LPG to Alternative Energy Sources, 2006:**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Energy Sources;  
 Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	LPG(b)			Alternative Energy Sources(c)						
		Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other(f)
3312	Steel Products from Purchased Steel	210	17	172	4	7	4	0	0	0	5
3313	Alumina and Aluminum	194	24	136	13	4	W	0	0	0	W
331314	Secondary Smelting and Alloying of Aluminum	43	4	26	W	0	W	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	30	W	25	0	0	W	0	0	0	0
331316	Aluminum Extruded Products	80	9	60	6	W	W	0	0	0	W
3314	Nonferrous Metals, except Aluminum	263	W	170	Q	W	0	W	0	0	0
3315	Foundries	789	84	498	30	41	10	0	0	0	W
331511	Iron Foundries	219	21	170	5	9	W	0	0	0	Q
331521	Aluminum Die-Casting Foundries	62	8	47	4	4	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	156	25	85	12	8	0	0	0	0	0
332	Fabricated Metal Products	13,059	1,099	8,478	622	370	Q	0	0	0	Q
333	Machinery	4,894	399	2,649	315	Q	Q	W	0	0	W
334	Computer and Electronic Products	992	132	533	Q	W	0	0	0	0	W
334413	Semiconductors and Related Devices	45	W	40	W	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	965	73	682	W	73	W	0	0	0	0
336	Transportation Equipment	2,754	401	1,736	154	121	127	0	0	0	Q
336111	Automobiles	42	W	30	W	0	W	0	0	0	0
336112	Light Trucks and Utility Vehicles	17	4	10	W	4	0	0	0	0	0
3364	Aerospace Product and Parts	426	12	267	3	0	Q	0	0	0	3
336411	Aircraft	38	5	29	3	0	0	0	0	0	3
337	Furniture and Related Products	3,139	341	2,013	239	Q	Q	W	0	0	W
339	Miscellaneous	3,097	347	1,478	Q	Q	W	W	0	0	0
	Total	54,065	6,242	33,483	3,298	2,052	1,216	215	W	0	559

(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 2006.

(c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for LPG during 2006. 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.

NA=Not 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, 2006 Manufacturing Energy Consumption Survey.'

**Table 10.14 Percent of Establishments by Levels of Lowest Price Difference that Would Cause Fuel Switching from Electricity to a Less Expensive Substitute, 2006**

Level: National Data;

Row: NAICS Codes;

Column: Levels of Lowest Price Difference;

Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Levels of Lowest Price Difference that Would Cause a Switch from Electricity(c)						Would Switch to More Expensive Substitute
			Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent	Estimate Cannot Be Provided	
<b>Total United States</b>									
311	Food	708	212	Q	76	Q	110	156	Q
3112	Grain and Oilseed Milling	27	Q	W	W	0	0	Q	0
311221	Wet Corn Milling	W	0	0	0	0	0	W	0
31131	Sugar Manufacturing	11	7	0	0	0	0	W	0
3114	Fruit and Vegetable Preserving and Specialty Foods	Q	W	4	W	0	0	Q	0
3115	Dairy Products	57	7	7	6	6	0	Q	8
3116	Animal Slaughtering and Processing	33	13	0	0	0	0	3	Q
312	Beverage and Tobacco Products	177	W	W	Q	Q	0	7	Q
3121	Beverages	177	W	W	Q	Q	0	7	Q
3122	Tobacco	0	0	0	0	0	0	0	0
313	Textile Mills	77	0	Q	0	0	0	Q	0
314	Textile Product Mills	165	Q	W	0	0	W	Q	0
315	Apparel	203	203	0	0	0	0	0	0
316	Leather and Allied Products	Q	W	0	Q	W	0	0	Q
321	Wood Products	353	175	Q	6	9	Q	92	0
321113	Sawmills	94	Q	Q	W	9	Q	11	0
3212	Veneer, Plywood, and Engineered Woods	Q	Q	0	0	0	0	0	0
3219	Other Wood Products	223	105	Q	W	0	W	80	0
322	Paper	89	4	21	11	3	6	20	6
322110	Pulp Mills	4	0	0	0	0	0	4	0
322121	Paper Mills, except Newsprint	27	3	10	6	W	3	W	0
322122	Newsprint Mills	3	0	W	0	0	W	0	0
322130	Paperboard Mills	21	W	7	4	W	W	5	W
323	Printing and Related Support	566	Q	W	0	W	Q	Q	0
324	Petroleum and Coal Products	203	44	14	Q	Q	W	75	W
324110	Petroleum Refineries	44	9	12	4	7	W	6	W
324199	Other Petroleum and Coal Products	5	0	3	0	W	0	W	0
325	Chemicals	394	184	17	24	Q	3	133	0
325110	Petrochemicals	4	0	W	W	0	0	W	0
325120	Industrial Gases	4	0	0	4	0	0	0	0
325181	Alkalies and Chlorine	3	W	0	W	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	7	W	W	0	0	W	3	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	5	W	W	0	W	0	0	0
325199	Other Basic Organic Chemicals	20	W	0	0	W	0	13	0
325211	Plastics Materials and Resins	11	W	0	0	0	0	W	0
325212	Synthetic Rubber	4	0	0	W	0	0	W	0
325222	Noncellulosic Organic Fibers	13	W	6	3	0	0	W	0
325311	Nitrogenous Fertilizers	4	0	0	W	W	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	88	Q	6	10	0	0	Q	0
325412	Pharmaceutical Preparation	31	3	5	9	0	0	12	0
325992	Photographic Film, Paper, Plate, and Chemicals	4	W	W	W	0	0	0	0
326	Plastics and Rubber Products	341	112	Q	Q	0	Q	Q	Q
327	Nonmetallic Mineral Products	376	138	10	Q	Q	0	102	Q
327211	Flat Glass	6	3	W	0	W	0	0	0
327212	Other Pressed and Blown Glass and Glassware	3	W	0	0	0	0	W	0
327213	Glass Containers	12	W	6	0	0	0	W	0
327215	Glass Products from Purchased Glass	17	3	W	Q	0	0	5	W
327310	Cements	10	0	0	W	8	0	W	0
327410	Lime	W	W	0	0	0	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	W	W	W	0	0	0	0	0
331	Primary Metals	150	53	Q	15	6	Q	35	W
331111	Iron and Steel Mills	W	6	0	0	0	0	W	0
331112	Electrometallurgical Ferroalloy Products	W	W	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	13	W	0	W	0	0	6	0
3313	Alumina and Aluminum	18	12	W	W	0	0	W	0
331314	Secondary Smelting and Alloying of Aluminum	4	W	0	W	0	0	0	0

**Table 10.14 Percent of Establishments by Levels of Lowest Price Difference that Would****Cause Fuel Switching from Electricity to a Less Expensive Substitute, 2006;**

Level: National Data;

Row: NAICS Codes;

Column: Levels of Lowest Price Difference;

Unit: Establishment Counts.

		Levels of Lowest Price Difference that Would Cause a Switch from Electricity(c)							
NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent	Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
331315	Aluminum Sheet, Plate and Foils	W	W	0	0	0	0	0	0
331316	Aluminum Extruded Products	8	8	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	60	Q	Q	3	Q	0	Q	0
3315	Foundries	48	17	W	5	3	Q	12	W
331511	Iron Foundries	15	W	0	W	0	0	W	0
331521	Aluminum Die-Casting Foundries	7	W	W	W	0	0	W	W
331524	Aluminum Foundries, except Die-Casting	24	W	0	3	W	Q	9	0
332	Fabricated Metal Products	1,729	398	Q	Q	Q	Q	608	0
333	Machinery	638	Q	Q	248	0	0	Q	0
334	Computer and Electronic Products	461	138	W	Q	0	W	190	W
334413	Semiconductors and Related Devices	17	8	0	W	0	W	5	W
335	Electrical Equip., Appliances, and Components	101	Q	Q	0	0	0	Q	0
336	Transportation Equipment	350	57	Q	Q	Q	Q	98	0
336111	Automobiles	3	0	0	0	W	W	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	79	Q	4	Q	W	Q	10	0
336411	Aircraft	14	3	3	W	W	0	5	0
337	Furniture and Related Products	362	0	Q	Q	Q	0	Q	0
339	Miscellaneous	966	406	Q	Q	Q	0	Q	0
	Total	8,440	2,535	964	1,246	515	495	2,180	130

(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 2006.

(c) These levels of price difference were estimates at which establishments

perceived that they would switch. These levels were not actual values at which switching occurred. The percentage of price difference is computed as the quantity of (current fuel price minus alternative fuel price) divided by the current fuel price, expressed as a percent.

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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, 2006 Manufacturing Energy Consumption Survey.'

**Table 10.15 Percent of Establishments by Levels of Lowest Price Difference that Would Cause Fuel Switching from Natural Gas to a Less Expensive Substitute, 2006;**  
**Level: National Data;**  
**Row: NAICS Codes;**  
**Column: Levels of Lowest Price Difference;**  
**Unit: Establishment Counts.**

		Levels of Lowest Price Difference that Would Cause a Switch from Natural Gas(c)							
NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent	Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
<b>Total United States</b>									
311	Food	1,830	369	306	415	236	143	303	Q
3112	Grain and Oilseed Milling	90	Q	27	18	10	W	16	W
311221	Wet Corn Milling	11	W	3	W	0	W	3	0
31131	Sugar Manufacturing	13	W	0	0	0	0	W	0
3114	Fruit and Vegetable Preserving and Specialty Foods	153	Q	41	34	W	W	41	0
3115	Dairy Products	182	9	33	32	56	W	45	W
3116	Animal Slaughtering and Processing	361	Q	76	75	Q	Q	79	13
312	Beverage and Tobacco Products	118	13	Q	13	Q	4	14	0
3121	Beverages	94	Q	Q	9	Q	0	10	0
3122	Tobacco	24	4	5	4	3	4	4	0
313	Textile Mills	426	Q	136	157	0	Q	79	Q
314	Textile Product Mills	314	84	82	92	0	0	W	W
315	Apparel	237	Q	Q	Q	Q	0	3	0
316	Leather and Allied Products	42	0	0	Q	5	0	Q	0
321	Wood Products	509	90	24	45	Q	Q	182	Q
321113	Sawmills	75	4	3	6	6	Q	Q	Q
3212	Veneer, Plywood, and Engineered Woods	61	W	Q	11	0	Q	W	0
3219	Other Wood Products	352	83	10	11	Q	0	140	0
322	Paper	616	179	117	101	27	Q	123	17
322110	Pulp Mills	11	0	W	W	W	0	4	W
322121	Paper Mills, except Newsprint	95	9	29	39	7	W	7	W
322122	Newsprint Mills	5	0	W	0	0	0	W	0
322130	Paperboard Mills	76	7	33	18	3	0	13	3
323	Printing and Related Support	1,406	Q	Q	450	Q	Q	Q	Q
324	Petroleum and Coal Products	226	35	55	56	6	5	58	11
324110	Petroleum Refineries	66	9	25	12	0	3	13	4
324199	Other Petroleum and Coal Products	5	W	W	W	W	0	0	0
325	Chemicals	923	141	133	228	97	Q	252	4
325110	Petrochemicals	8	0	W	W	3	W	W	0
325120	Industrial Gases	53	W	0	W	0	0	0	0
325181	Alkalies and Chlorine	9	W	0	0	W	0	3	3
325182	Carbon Black	6	0	W	W	0	0	0	0
325188	Other Basic Inorganic Chemicals	73	Q	16	8	W	Q	W	0
325192	Cyclic Crudes and Intermediates	5	W	0	W	W	0	0	0
325193	Ethyl Alcohol	9	W	W	0	W	W	5	0
325199	Other Basic Organic Chemicals	63	14	11	10	5	3	20	0
325211	Plastics Materials and Resins	107	8	14	24	Q	8	Q	0
325212	Synthetic Rubber	20	W	4	6	3	0	3	W
325222	Noncellulosic Organic Fibers	32	0	15	11	0	0	6	0
325311	Nitrogenous Fertilizers	4	0	W	W	0	0	0	0
325312	Phosphate Fertilizers	W	0	0	W	0	0	0	0
3254	Pharmaceuticals and Medicines	116	17	26	42	W	W	23	0
325412	Pharmaceutical Preparation	81	16	20	24	W	W	15	0
325992	Photographic Film, Paper, Plate, and Chemicals	25	4	3	9	0	0	3	0
326	Plastics and Rubber Products	1,377	197	153	446	119	Q	322	0
327	Nonmetallic Mineral Products	900	209	Q	102	183	Q	228	Q
327211	Flat Glass	18	6	W	3	W	0	4	0
327212	Other Pressed and Blown Glass and Glassware	26	Q	W	W	Q	0	4	0
327213	Glass Containers	19	0	0	6	W	0	8	0
327215	Glass Products from Purchased Glass	49	Q	0	4	W	0	9	4
327310	Cements	22	W	5	4	3	W	4	0
327410	Lime	4	W	W	0	0	0	0	0
327420	Gypsum	18	Q	0	0	0	0	10	0
327993	Mineral Wool	8	W	0	W	0	0	W	W
331	Primary Metals	387	61	46	79	30	49	107	7

**Table 10.15 Percent of Establishments by Levels of Lowest Price Difference that Would Cause Fuel Switching from Natural Gas to a Less Expensive Substitute, 2006;**  
**Level: National Data;**  
**Row: NAICS Codes;**  
**Column: Levels of Lowest Price Difference;**  
**Unit: Establishment Counts.**

		Levels of Lowest Price Difference that Would Cause a Switch from Natural Gas(c)							
NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent	Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
331111	Iron and Steel Mills	43	4	W	9	4	W	17	W
331112	Electrometallurgical Ferroalloy Products	W	W	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	71	16	13	14	W	18	W	0
3313	Alumina and Aluminum	63	11	10	16	W	7	12	W
331314	Secondary Smelting and Alloying of Aluminum	8	0	0	4	0	0	4	0
331315	Aluminum Sheet, Plate and Foils	7	0	0	W	0	0	W	0
331316	Aluminum Extruded Products	22	6	W	W	Q	4	3	0
3314	Nonferrous Metals, except Aluminum	W	W	W	13	0	W	W	0
3315	Foundries	171	24	17	28	12	19	66	4
331511	Iron Foundries	46	13	10	7	Q	W	8	W
331521	Aluminum Die-Casting Foundries	29	3	3	Q	W	W	10	W
331524	Aluminum Foundries, except Die-Casting	34	4	4	4	W	Q	Q	W
332	Fabricated Metal Products	3,212	447	Q	480	Q	Q	1,221	318
333	Machinery	1,479	330	Q	262	310	Q	299	Q
334	Computer and Electronic Products	688	162	108	9	Q	148	195	W
334413	Semiconductors and Related Devices	60	23	5	W	0	19	8	W
335	Electrical Equip., Appliances, and Components	353	Q	73	54	81	0	109	0
336	Transportation Equipment	667	69	43	147	101	93	W	W
336111	Automobiles	14	4	4	W	W	0	W	0
336112	Light Trucks and Utility Vehicles	14	4	W	0	5	W	W	0
3364	Aerospace Product and Parts	120	3	11	Q	W	W	Q	W
336411	Aircraft	9	0	W	0	W	0	5	W
337	Furniture and Related Products	677	Q	Q	Q	Q	Q	Q	0
339	Miscellaneous	1,184	Q	0	Q	Q	Q	374	0
	Total	17,573	3,048	1,920	3,527	1,971	1,548	4,375	637

(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 2006.

(c) These levels of price difference were estimates at which establishments

perceived that they would switch. These levels were not actual values at which switching occurred. The percentage of price difference is computed as the quantity of (current fuel price minus alternative fuel price) divided by the current fuel price, expressed as a percent.

NF=Not 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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.16 Percent of Establishments by Levels of Lowest Price Difference that Would Cause Fuel Switching from Coal to a Less Expensive Substitute, 2006;**

Level: National Data;

Row: NAICS Codes;

Column: Levels of Lowest Price Difference;

Unit: Establishment Counts.

		Levels of Lowest Price Difference that Would Cause a Switch from Coal(c)							
NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent	Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
<b>Total United States</b>									
311	Food	21	W	3	3	W	W	9	W
3112	Grain and Oilseed Milling	7	W	W	W	0	W	W	0
311221	Wet Corn Milling	4	W	W	0	0	W	W	0
31131	Sugar Manufacturing	13	0	0	W	W	0	7	W
3114	Fruit and Vegetable Preserving and Specialty Foods	0	0	0	0	0	0	0	0
3115	Dairy Products	W	0	W	0	0	0	0	0
3116	Animal Slaughtering and Processing	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	9	W	W	4	0	0	W	0
3121	Beverages	4	W	0	W	0	0	0	0
3122	Tobacco	4	0	W	W	0	0	W	0
313	Textile Mills	Q	0	0	0	Q	0	0	Q
314	Textile Product Mills	Q	0	W	W	0	0	0	Q
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	0	0	W	0	0	0	0
321113	Sawmills	0	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	0	0	0	0	0	0	0	0
3219	Other Wood Products	Q	0	0	Q	0	0	0	0
322	Paper	56	W	19	17	6	W	8	W
	Pulp Mills	0	0	0	0	0	0	0	0
322110	Paper Mills, except Newsprint	33	0	10	10	4	W	4	W
322121	Newsprint Mills	0	0	0	0	0	0	0	0
322130	Paperboard Mills	20	W	8	5	W	0	4	0
323	Printing and Related Support	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	3	W	W	0	0	0	0	0
324110	Petroleum Refineries	W	W	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	W	0	W	0	0	0	0	0
325	Chemicals	29	W	13	Q	0	0	7	W
325110	Petrochemicals	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	W	0	0	0	0	0	W	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	4	0	W	0	0	0	W	0
325199	Other Basic Organic Chemicals	4	0	W	0	0	0	0	W
325211	Plastics Materials and Resins	0	0	0	0	0	0	0	0
325212	Synthetic Rubber	W	0	W	0	0	0	0	0
325222	Noncellulosic Organic Fibers	6	W	W	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0
325312	Phosphate Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	7	0	W	W	0	0	4	0
325412	Pharmaceutical Preparation	7	0	W	W	0	0	4	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	W	0	0	0	0	0
326	Plastics and Rubber Products	Q	0	0	0	Q	0	0	0
327	Nonmetallic Mineral Products	45	4	6	6	3	0	20	4
327211	Flat Glass	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0
327310	Cements	31	W	3	4	W	0	16	3
327410	Lime	12	W	W	W	W	0	4	W
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0
331	Primary Metals	6	W	0	W	0	0	W	0

**Table 10.16 Percent of Establishments by Levels of Lowest Price Difference that Would Cause Fuel Switching from Coal to a Less Expensive Substitute, 2006;**  
**Level: National Data;**  
**Row: NAICS Codes;**  
**Column: Levels of Lowest Price Difference;**  
**Unit: Establishment Counts.**

		Levels of Lowest Price Difference that Would Cause a Switch from Coal(c)							
NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent	Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
331111	Iron and Steel Mills	3	W	0	W	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	W	0	0	W	0	0	0	0
3313	Alumina and Aluminum	0	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	W	0	0	W	0	0	W	0
3315	Foundries	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
333	Machinery	W	0	0	0	0	0	W	0
334	Computer and Electronic Products	0	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0
336	Transportation Equipment	7	Q	W	0	W	0	0	0
336111	Automobiles	W	0	W	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	0	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	Q	0	W	0	W	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	297	15	50	47	64	3	48	69

(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 2006.

(c) These levels of price difference were estimates at which establishments perceived that they would switch. These levels were not actual values at which switching occurred. The percentage of price difference is computed as the quantity of (current fuel price minus alternative fuel price) divided by the current fuel price, expressed as a percent.

NF=Not 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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.17 Percent of Establishments by Levels of Lowest Price Difference that Would****Cause Fuel Switching from LPG to a Less Expensive Substitute, 2006;****Level: National Data;****Row: NAICS Codes;****Column: Levels of Lowest Price Difference;****Unit: Establishment Counts.**

		Levels of Lowest Price Difference that Would Cause a Switch from LPG(c)							
NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent	Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
<b>Total United States</b>									
311	Food	325	63	W	Q	Q	W	W	Q
3112	Grain and Oilseed Milling	36	Q	0	Q	W	W	Q	0
311221	Wet Corn Milling	W	0	0	0	W	0	W	0
31131	Sugar Manufacturing	4	4	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	37	0	W	Q	W	0	Q	0
3115	Dairy Products	5	0	W	0	0	0	W	0
3116	Animal Slaughtering and Processing	67	Q	Q	Q	Q	0	Q	0
312	Beverage and Tobacco Products	143	0	4	Q	Q	Q	Q	0
3121	Beverages	139	0	4	Q	W	Q	W	0
3122	Tobacco	4	0	0	0	W	0	W	0
313	Textile Mills	W	0	Q	W	0	Q	0	Q
314	Textile Product Mills	157	W	69	0	0	Q	Q	W
315	Apparel	Q	0	W	0	0	0	W	0
316	Leather and Allied Products	W	0	0	W	0	0	0	0
321	Wood Products	629	83	66	85	140	Q	211	0
321113	Sawmills	63	Q	W	6	W	W	18	0
3212	Veneer, Plywood, and Engineered Woods	103	4	Q	Q	Q	0	Q	0
3219	Other Wood Products	457	Q	Q	Q	95	Q	149	0
322	Paper	236	Q	64	28	21	W	68	W
	Pulp Mills	W	0	W	0	0	0	0	W
322110	Paper Mills, except Newsprint	13	W	W	3	4	W	0	0
322121	Newsprint Mills	W	0	W	0	0	0	0	0
322122	Paperboard Mills	5	0	W	W	W	0	W	0
323	Printing and Related Support	417	Q	Q	Q	Q	Q	Q	0
324	Petroleum and Coal Products	89	25	W	Q	W	0	13	9
324110	Petroleum Refineries	37	6	W	7	W	0	12	3
324199	Other Petroleum and Coal Products	3	0	0	W	0	0	W	0
325	Chemicals	228	Q	W	Q	Q	8	79	W
325110	Petrochemicals	0	0	0	0	0	0	0	0
325120	Industrial Gases	W	0	0	0	0	W	0	0
325181	Alkalies and Chlorine	0	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	20	W	W	0	Q	W	7	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	4	0	W	0	0	0	W	0
325199	Other Basic Organic Chemicals	18	3	Q	W	0	W	9	0
325211	Plastics Materials and Resins	11	Q	0	0	W	W	0	0
325212	Synthetic Rubber	6	W	0	0	0	0	0	W
325222	Noncellulosic Organic Fibers	4	W	W	0	0	0	W	0
325311	Nitrogenous Fertilizers	3	0	0	0	W	0	W	0
325312	Phosphate Fertilizers	3	W	0	0	W	0	0	0
3254	Pharmaceuticals and Medicines	Q	W	0	0	0	W	Q	0
325412	Pharmaceutical Preparation	4	W	0	0	0	W	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	0	0	0	0	W	0
326	Plastics and Rubber Products	590	Q	Q	Q	0	Q	281	Q
327	Nonmetallic Mineral Products	351	93	W	79	Q	Q	Q	W
327211	Flat Glass	7	W	W	0	0	0	3	0
327212	Other Pressed and Blown Glass and Glassware	Q	W	0	W	0	Q	W	0
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	28	Q	0	Q	W	W	10	W
327310	Cements	3	W	W	W	0	0	0	0
327410	Lime	W	0	0	W	0	0	0	0
327420	Gypsum	Q	Q	0	0	0	0	0	0
327993	Mineral Wool	6	3	0	W	0	0	W	0
331	Primary Metals	163	38	14	31	18	22	22	7

**Table 10.17 Percent of Establishments by Levels of Lowest Price Difference that Would****Cause Fuel Switching from LPG to a Less Expensive Substitute, 2006;****Level: National Data;****Row: NAICS Codes;****Column: Levels of Lowest Price Difference;****Unit: Establishment Counts.**

		Levels of Lowest Price Difference that Would Cause a Switch from LPG(c)							
NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent	Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
331111	Iron and Steel Mills	17	W	0	3	W	4	W	W
331112	Electrometallurgical Ferroalloy Products	W	W	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	W	7	W	5	0	0	W	0
3313	Alumina and Aluminum	24	5	W	6	W	3	W	W
331314	Secondary Smelting and Alloying of Aluminum	4	W	0	W	0	W	0	0
331315	Aluminum Sheet, Plate and Foils	W	0	0	W	0	0	0	W
331316	Aluminum Extruded Products	9	W	W	3	0	0	0	0
3314	Nonferrous Metals, except Aluminum	Q	W	0	Q	Q	0	W	0
3315	Foundries	84	Q	9	5	7	Q	15	W
331511	Iron Foundries	21	W	4	4	W	0	W	W
331521	Aluminum Die-Casting Foundries	8	W	W	W	0	0	3	0
331524	Aluminum Foundries, except Die-Casting	25	W	W	0	W	Q	3	Q
332	Fabricated Metal Products	1,099	Q	Q	0	Q	Q	Q	Q
333	Machinery	399	Q	0	Q	Q	0	Q	0
334	Computer and Electronic Products	132	W	Q	Q	W	0	0	0
334413	Semiconductors and Related Devices	W	W	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	73	0	Q	0	0	0	Q	Q
336	Transportation Equipment	401	W	88	90	W	89	96	0
336111	Automobiles	3	0	0	0	W	0	W	0
336112	Light Trucks and Utility Vehicles	4	0	0	0	0	0	3	0
3364	Aerospace Product and Parts	12	W	0	0	Q	W	Q	0
336411	Aircraft	5	W	0	0	W	W	0	0
337	Furniture and Related Products	341	Q	Q	43	Q	Q	Q	0
339	Miscellaneous	347	Q	0	0	0	Q	Q	Q
	Total	6,242	1,170	653	741	602	823	1,705	292

(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 2006.

(c) These levels of price difference were estimates at which establishments

perceived that they would switch. These levels were not actual values at which switching occurred. The percentage of price difference is computed as the quantity of (current fuel price minus alternative fuel price) divided by the current fuel price, expressed as a percent.

NF=Not 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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.18 Percent of Establishments by Levels of Lowest Price Difference that Would Cause****Fuel Switching from Distillate Fuel Oil to a Less Expensive Substitute, 2006;****Level: National Data;****Row: NAICS Codes;****Column: Levels of Lowest Price Difference;****Unit: Establishment Counts.**

		Levels of Lowest Price Difference that Would Cause a Switch from Distillate Fuel Oil(c)							
NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent	Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
<b>Total United States</b>									
311	Food	276	67	Q	24	Q	Q	Q	Q
3112	Grain and Oilseed Milling	10	0	5	W	0	0	W	0
311221	Wet Corn Milling	W	0	W	0	0	0	0	0
31131	Sugar Manufacturing	4	0	0	0	0	0	4	0
3114	Fruit and Vegetable Preserving and Specialty Foods	13	W	W	Q	0	0	Q	0
3115	Dairy Products	17	7	6	0	0	0	W	W
3116	Animal Slaughtering and Processing	62	Q	Q	14	Q	Q	0	Q
312	Beverage and Tobacco Products	Q	3	6	7	W	Q	W	0
3121	Beverages	Q	W	W	7	0	Q	W	0
3122	Tobacco	8	W	W	0	W	3	0	0
313	Textile Mills	Q	0	0	0	0	0	Q	0
314	Textile Product Mills	24	W	W	W	0	0	0	0
315	Apparel	5	0	0	5	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0
321	Wood Products	159	Q	60	W	W	Q	53	W
321113	Sawmills	57	Q	9	W	0	0	7	W
3212	Veneer, Plywood, and Engineered Woods	Q	0	0	0	0	Q	Q	0
3219	Other Wood Products	63	0	Q	0	0	0	Q	0
322	Paper	50	4	21	13	0	W	8	0
	Pulp Mills	4	0	0	W	0	0	W	0
322110	Paper Mills, except Newsprint	16	W	7	W	0	W	3	0
322121	Newsprint Mills	W	0	0	0	0	0	W	0
322122	Paperboard Mills	18	W	8	7	0	0	W	0
323	Printing and Related Support	Q	0	Q	Q	Q	0	0	0
324	Petroleum and Coal Products	177	Q	5	94	Q	0	55	Q
324110	Petroleum Refineries	10	W	4	W	0	0	W	0
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0	0
325	Chemicals	169	23	27	16	Q	Q	Q	5
325110	Petrochemicals	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	W	0	W	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	Q	W	W	0	0	Q	3	0
325192	Cyclic Crudes and Intermediates	W	W	0	W	0	0	0	0
325193	Ethyl Alcohol	4	W	W	0	0	0	W	0
325199	Other Basic Organic Chemicals	14	7	W	W	W	0	W	W
325211	Plastics Materials and Resins	12	0	Q	0	0	0	4	0
325212	Synthetic Rubber	4	0	0	W	0	0	0	W
325222	Noncellulosic Organic Fibers	10	W	4	W	0	0	W	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0
325312	Phosphate Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	34	W	6	9	0	0	11	W
325412	Pharmaceutical Preparation	21	W	W	6	0	0	5	0
325992	Photographic Film, Paper, Plate, and Chemicals	6	W	W	0	0	0	0	W
326	Plastics and Rubber Products	157	Q	Q	Q	0	0	Q	0
327	Nonmetallic Mineral Products	150	Q	W	97	W	W	Q	0
327211	Flat Glass	W	0	0	0	0	0	W	0
327212	Other Pressed and Blown Glass and Glassware	W	0	0	W	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	9	W	0	0	0	W	Q	0
327310	Cements	8	Q	W	W	W	0	0	0
327410	Lime	W	0	W	0	0	W	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	W	W	0	0	0	0	0	0
331	Primary Metals	52	5	7	W	5	11	6	W

**Table 10.18 Percent of Establishments by Levels of Lowest Price Difference that Would Cause Fuel Switching from Distillate Fuel Oil to a Less Expensive Substitute, 2006;**  
**Level: National Data;**  
**Row: NAICS Codes;**  
**Column: Levels of Lowest Price Difference;**  
**Unit: Establishment Counts.**

Levels of Lowest Price Difference that Would Cause a Switch from Distillate Fuel Oil(c)									
NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent	Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
331111	Iron and Steel Mills	9	0	0	0	W	W	3	W
331112	Electrometallurgical Ferroalloy Products	W	W	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	W	0	W	0	0	0	0	0
3313	Alumina and Aluminum	4	0	W	0	0	W	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	W	0	W	0	0	W	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	W	0	0	W	0	0	W	0
3315	Foundries	33	W	Q	W	W	7	W	0
331511	Iron Foundries	13	W	0	0	W	0	W	0
331521	Aluminum Die-Casting Foundries	3	0	0	W	W	W	0	0
331524	Aluminum Foundries, except Die-Casting	Q	0	0	0	0	4	0	0
332	Fabricated Metal Products	Q	0	Q	0	0	Q	0	0
333	Machinery	Q	Q	0	Q	0	0	Q	0
334	Computer and Electronic Products	Q	W	Q	3	Q	0	W	0
334413	Semiconductors and Related Devices	8	W	3	W	0	0	W	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0
336	Transportation Equipment	Q	0	Q	0	W	0	W	Q
336111	Automobiles	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	9	0	Q	0	W	0	W	0
336411	Aircraft	3	0	0	0	W	0	W	0
337	Furniture and Related Products	Q	0	Q	Q	Q	0	Q	0
339	Miscellaneous	Q	0	0	0	0	0	Q	0
	Total	2,120	239	459	417	231	Q	530	55

(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 2006.

(c) These levels of price difference were estimates at which establishments perceived that they would switch. These levels were not actual values at which switching occurred. The percentage of price difference is computed as the quantity of (current fuel price minus alternative fuel price) divided by the current fuel price, expressed as a percent.

NF=Not 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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.19 Percent of Establishments by Levels of Lowest Price Difference that Would Cause****Fuel Switching from Residual Fuel Oil to a Less Expensive Substitute, 2006;****Level: National Data;****Row: NAICS Codes;****Column: Levels of Lowest Price Difference;****Unit: Establishment Counts.**

		Levels of Lowest Price Difference that Would Cause a Switch from Residual Fuel Oil(c)							
NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent	Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
<b>Total United States</b>									
311	Food	178	0	127	25	W	0	W	0
3112	Grain and Oilseed Milling	8	0	W	0	0	0	W	0
311221	Wet Corn Milling	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	6	0	0	0	0	0	6	0
3114	Fruit and Vegetable Preserving and Specialty Foods	10	0	6	W	W	0	0	0
3115	Dairy Products	19	0	0	4	0	0	Q	0
3116	Animal Slaughtering and Processing	Q	0	Q	Q	0	0	0	0
312	Beverage and Tobacco Products	12	0	W	0	0	0	W	0
3121	Beverages	8	0	8	0	0	0	0	0
3122	Tobacco	4	0	W	0	0	0	W	0
313	Textile Mills	90	0	90	0	0	0	0	0
314	Textile Product Mills	10	W	W	0	0	0	Q	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	Q	W	0	W	0	0	0	0
321113	Sawmills	0	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	0	0	0	0	0	0	0	0
3219	Other Wood Products	Q	0	0	Q	0	0	0	0
322	Paper	105	W	57	20	0	0	W	Q
	Pulp Mills	5	0	W	0	0	0	W	0
322110	Paper Mills, except Newsprint	46	W	30	W	0	0	0	0
322121	Newsprint Mills	0	0	0	0	0	0	0	0
322122	Paperboard Mills	37	0	22	W	0	0	9	W
323	Printing and Related Support	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	77	W	70	3	0	0	W	0
324110	Petroleum Refineries	16	W	9	3	0	0	W	0
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0	0
325	Chemicals	54	W	34	9	4	0	W	Q
325110	Petrochemicals	W	0	W	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0	0	0	0	0
325182	Carbon Black	W	0	W	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	4	0	4	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	W	W	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	8	0	W	W	W	0	W	Q
325211	Plastics Materials and Resins	4	0	W	0	W	0	0	0
325212	Synthetic Rubber	3	0	W	0	W	0	0	0
325222	Noncellulosic Organic Fibers	13	0	10	3	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0
325312	Phosphate Fertilizers	0	0	0	0	0	0	0	0
325412	Pharmaceuticals and Medicines	Q	W	W	0	0	0	0	0
325412	Pharmaceutical Preparation	Q	W	W	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	W	0	0	0	0	0
326	Plastics and Rubber Products	55	0	27	0	0	0	0	Q
327	Nonmetallic Mineral Products	Q	0	Q	W	W	0	W	0
327211	Flat Glass	W	0	0	0	0	0	W	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0
327310	Cements	Q	0	0	W	W	0	0	0
327410	Lime	W	0	W	0	0	0	W	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0
331	Primary Metals	5	0	3	0	0	0	3	0

**Table 10.19 Percent of Establishments by Levels of Lowest Price Difference that Would Cause Fuel Switching from Residual Fuel Oil to a Less Expensive Substitute, 2006;**  
**Level: National Data;**  
**Row: NAICS Codes;**  
**Column: Levels of Lowest Price Difference;**  
**Unit: Establishment Counts.**

Levels of Lowest Price Difference that Would Cause a Switch from Residual Fuel Oil(c)								
NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent	Estimate Cannot Be Provided
								Would Switch to More Expensive Substitute
331111	Iron and Steel Mills	W	0	W	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0
3313	Alumina and Aluminum	3	0	0	0	0	0	3
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	W	0	0	0	0	0	W
3314	Nonferrous Metals, except Aluminum	W	0	W	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0
332	Fabricated Metal Products	0	0	0	0	0	0	0
333	Machinery	Q	0	Q	0	0	0	0
334	Computer and Electronic Products	6	0	6	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0
336	Transportation Equipment	18	0	Q	W	0	0	W
336111	Automobiles	W	0	W	0	0	0	0
336112	Light Trucks and Utility Vehicles	W	0	0	W	0	0	0
3364	Aerospace Product and Parts	5	0	W	0	0	0	W
336411	Aircraft	0	0	0	0	0	0	0
337	Furniture and Related Products	Q	0	0	0	0	0	Q
339	Miscellaneous	Q	0	W	0	0	0	0
	Total	839	11	510	93	9	0	Q
								Q

(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 2006.

(c) These levels of price difference were estimates at which establishments perceived that they would switch. These levels were not actual values at which switching occurred. The percentage of price difference is computed as the quantity of (current fuel price minus alternative fuel price) divided by the current fuel price, expressed as a percent.

NF=Not 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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Billion Cubic Feet.**

NAICS Code(a)	Subsector and Industry	Natural Gas			Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
		Total United States									
311	Food	618	165	379	8	109	12	1	38	0	10
3112	Grain and Oilseed Milling	115	24	81	0	16	4	1	5	0	3
311221	Wet Corn Milling	51	4	44	0	2	0	1	2	0	*
31131	Sugar Manufacturing	17	5	10	0	5	1	0	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Foods	123	Q	58	2	Q	2	0	2	0	1
3115	Dairy Products	80	13	58	*	7	1	0	5	0	*
3116	Animal Slaughtering and Processing	141	32	92	*	19	2	0	9	0	6
312	Beverage and Tobacco Products	40	18	16	*	11	5	*	1	0	1
3121	Beverages	37	16	16	*	9	4	*	1	0	1
3122	Tobacco	3	2	1	0	2	1	*	*	0	0
313	Textile Mills	63	20	32	Q	8	Q	0	7	0	Q
314	Textile Product Mills	45	Q	7	*	Q	2	*	Q	0	Q
315	Apparel	7	1	2	*	1	0	0	0	0	0
316	Leather and Allied Products	1	*	1	*	*	0	0	*	0	0
321	Wood Products	84	23	47	*	1	*	Q	3	0	1
321113	Sawmills	12	*	5	*	*	*	0	*	0	*
3212	Veneer, Plywood, and Engineered Woods	44	3	35	*	1	*	0	2	0	*
3219	Other Wood Products	27	Q	6	*	*	*	Q	1	0	*
322	Paper	461	105	324	19	41	34	6	11	2	9
322110	Pulp Mills	13	4	7	1	2	2	0	*	0	*
322121	Paper Mills, except Newsprint	169	34	120	5	9	11	3	1	0	6
322122	Newsprint Mills	8	6	3	4	1	1	0	0	0	0
322130	Paperboard Mills	138	40	91	7	19	11	3	1	2	2
323	Printing and Related Support	38	7	24	*	*	Q	0	Q	0	0
324	Petroleum and Coal Products	825	112	632	6	20	10	0	64	0	27
324110	Petroleum Refineries	766	98	595	6	15	7	0	59	0	25
324199	Other Petroleum and Coal Products	3	1	2	*	*	0	1	0	0	*
325	Chemicals	1,355	153	1,121	39	68	36	1	11	*	3
325110	Petrochemicals	107	2	98	*	*	*	0	1	0	1
325120	Industrial Gases	13	*	12	*	0	0	0	*	0	0
325181	Alkalies and Chlorine	103	27	76	27	*	0	0	*	0	*
325182	Carbon Black	10	2	8	0	1	1	0	0	0	0
325188	Other Basic Inorganic Chemicals	52	6	40	*	3	1	0	2	0	*
325192	Cyclic Crudes and Intermediates	15	*	8	*	*	0	0	0	0	*
325193	Ethyl Alcohol	80	3	60	0	1	*	*	2	0	1
325199	Other Basic Organic Chemicals	298	29	251	8	15	5	*	1	0	*
325211	Plastics Materials and Resins	324	21	289	*	15	3	0	Q	0	*
325212	Synthetic Rubber	25	4	21	*	2	2	0	*	0	1
325222	Noncellulosic Organic Fibers	33	23	10	*	7	17	0	*	0	*
325311	Nitrogenous Fertilizers	113	1	112	*	1	0	0	0	0	0
325312	Phosphatic Fertilizers	11	*	10	0	*	*	0	*	0	*
3254	Pharmaceuticals and Medicines	45	20	21	2	15	1	*	1	0	*
325412	Pharmaceutical Preparation	30	13	15	2	10	1	*	*	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	7	1	5	*	1	*	0	*	0	0
326	Plastics and Rubber Products	124	48	50	Q	30	20	0	Q	0	Q
327	Nonmetallic Mineral Products	446	98	271	3	29	2	1	63	*	3
327211	Flat Glass	50	19	21	0	9	0	0	10	0	*
327212	Other Pressed and Blown Glass and Glassware	Q	6	Q	0	2	0	0	4	0	3
327213	Glass Containers	49	8	34	1	4	*	0	5	0	0
327215	Glass Products from Purchased Glass	50	Q	13	*	0	*	*	Q	0	0
327310	Cements	19	2	11	*	1	*	1	*	*	*
327410	Lime	5	*	5	0	*	*	*	*	0	0
327420	Gypsum	74	10	62	*	8	1	0	1	0	0
327993	Mineral Wool	33	4	22	*	*	0	0	3	0	0
331	Primary Metals	568	52	444	2	8	5	1	29	4	3
331111	Iron and Steel Mills	317	22	258	*	2	3	*	10	4	1
331112	Electrometallurgical Ferroalloy Products	1	*	1	*	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	25	1	20	*	*	*	*	1	*	0
3313	Alumina and Aluminum	113	11	89	*	3	2	0	6	0	1
331314	Secondary Smelting and Alloying of Aluminum	17	1	13	*	1	0	0	*	0	0
331315	Aluminum Sheet, Plate and Foils	36	1	28	*	1	*	0	*	0	0
331316	Aluminum Extruded Products	17	5	9	*	*	1	0	3	0	1
3314	Nonferrous Metals, except Aluminum	42	7	28	*	1	*	0	5	0	0
3315	Foundries	70	10	48	1	1	*	*	7	0	2

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Billion Cubic Feet.**

NAICS Code(a)	Subsector and Industry	Natural Gas			Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
331511	Iron Foundries	23	5	16	*	1	*	*	3	0	2
331521	Aluminum Die-Casting Foundries	15	2	10	*	*	0	2	0	0	*
331524	Aluminum Foundries, except Die-Casting	13	1	6	*	*	0	0	1	0	0
332	Fabricated Metal Products	234	17	167	Q	Q	*	*	12	0	*
333	Machinery	82	15	46	1	Q	Q	0	Q	0	*
334	Computer and Electronic Products	44	9	25	Q	6	3	0	Q	0	*
334413	Semiconductors and Related Devices	18	3	12	*	1	2	0	*	0	*
335	Electrical Equip., Appliances, and Components	40	8	26	*	2	Q	*	4	*	*
336	Transportation Equipment	242	25	188	Q	7	6	*	13	*	*
336111	Automobiles	21	2	15	*	1	1	0	*	*	0
336112	Light Trucks and Utility Vehicles	24	4	19	0	2	*	0	3	0	*
3364	Aerospace Product and Parts	30	7	20	*	3	3	*	2	0	*
336411	Aircraft	8	3	5	*	2	1	0	1	0	*
337	Furniture and Related Products	16	1	10	*	*	0	*	Q	*	*
339	Miscellaneous	24	2	18	Q	*	*	0	*	0	0
	Total	5,357	915	3,828	94	363	152	27	295	6	61

**Northeast Census Region**

311	Food	32	10	17	Q	5	3	0	2	0	*
3112	Grain and Oilseed Milling	2	1	1	0	*	0	0	0	0	0
311221	Wet Corn Milling	0	0	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	3	3	*	0	3	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	3	1	1	0	*	1	0	*	0	0
3115	Dairy Products	7	1	5	*	1	*	0	0	0	0
3116	Animal Slaughtering and Processing	2	1	1	0	0	*	0	1	0	*
312	Beverage and Tobacco Products	6	3	1	0	1	2	0	0	0	0
3121	Beverages	6	3	1	0	1	2	0	0	0	0
3122	Tobacco	*	*	*	0	*	*	0	0	0	0
313	Textile Mills	7	Q	3	*	*	*	0	Q	0	*
314	Textile Product Mills	1	0	1	0	0	0	0	0	0	0
315	Apparel	*	*	*	*	*	0	0	0	0	0
316	Leather and Allied Products	*	*	*	*	0	0	0	0	0	0
321	Wood Products	6	*	4	0	0	*	0	*	0	*
321113	Sawmills	Q	*	*	0	0	*	0	0	0	*
3212	Veneer, Plywood, and Engineered Woods	3	0	3	0	0	0	0	0	0	0
3219	Other Wood Products	2	*	1	0	0	*	0	*	0	0
322	Paper	63	20	41	3	10	12	0	*	0	0
322110	Pulp Mills	*	0	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	39	9	30	3	2	3	0	*	0	0
322122	Newsprint Mills	0	0	0	0	0	0	0	0	0	0
322130	Paperboard Mills	10	5	5	0	2	3	0	0	0	0
323	Printing and Related Support	5	2	3	*	0	Q	0	W	0	0
324	Petroleum and Coal Products	45	19	24	5	10	6	0	W	0	*
324110	Petroleum Refineries	37	16	21	5	6	6	0	W	0	0
324199	Other Petroleum and Coal Products	*	*	*	*	0	0	0	0	0	*
325	Chemicals	64	24	34	2	15	6	0	0	0	*
325110	Petrochemicals	*	*	*	*	0	0	0	0	0	0
325120	Industrial Gases	1	0	1	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	1	0	1	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	2	*	2	*	*	*	0	0	0	0
325192	Cyclic Crudes and Intermediates	4	*	2	0	0	0	0	0	0	*
325193	Ethyl Alcohol	*	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	5	1	4	0	*	1	0	0	0	0
325211	Plastics Materials and Resins	7	4	2	0	Q	*	0	0	0	*
325212	Synthetic Rubber	*	0	*	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	*	*	*	0	0	*	0	0	0	0
325311	Nitrogenous Fertilizers	1	0	1	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	24	13	9	2	10	1	0	0	0	0
325412	Pharmaceutical Preparation	19	10	9	2	7	1	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	3	*	3	*	*	*	0	0	0	0
326	Plastics and Rubber Products	21	Q	6	*	Q	Q	0	Q	0	0
327	Nonmetallic Mineral Products	56	14	28	Q	9	Q	*	2	*	*
327211	Flat Glass	9	7	*	0	5	0	0	2	0	0

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Billion Cubic Feet.**

NAICS Code(a)	Subsector and Industry	Natural Gas			Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
327212	Other Pressed and Blown Glass and Glassware	4	*	2	0	0	0	0	*	0	0
327213	Glass Containers	10	*	7	*	*	*	0	*	0	0
327215	Glass Products from Purchased Glass	1	*	1	*	0	0	*	*	0	0
327310	Cements	*	*	*	0	0	0	0	0	*	0
327410	Lime	0	0	0	0	0	0	0	0	0	0
327420	Gypsum	8	4	5	0	3	1	0	0	0	0
327993	Mineral Wool	6	*	5	0	*	0	0	*	0	0
331	Primary Metals	80	16	58	1	3	2	0	9	2	*
331111	Iron and Steel Mills	48	9	37	*	1	0	0	6	2	*
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	7	*	5	*	*	*	0	0	0	0
3313	Alumina and Aluminum	12	4	8	*	1	2	0	2	0	0
331314	Secondary Smelting and Alloying of Aluminum	*	*	*	*	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	5	1	4	0	1	0	0	*	0	0
331316	Aluminum Extruded Products	4	3	*	0	*	1	0	1	0	0
3314	Nonferrous Metals, except Aluminum	8	2	4	0	1	*	0	1	0	0
3315	Foundries	6	*	4	*	*	*	0	*	0	0
331511	Iron Foundries	2	*	1	*	0	0	0	*	0	0
331521	Aluminum Die-Casting Foundries	2	*	1	*	*	*	0	*	0	0
331524	Aluminum Foundries, except Die-Casting	1	*	1	*	*	0	0	*	0	0
332	Fabricated Metal Products	29	Q	23	*	Q	*	0	*	0	*
333	Machinery	Q	Q	5	*	*	Q	0	0	0	0
334	Computer and Electronic Products	9	3	4	*	*	2	0	*	0	*
334413	Semiconductors and Related Devices	4	2	2	*	*	2	0	0	0	*
335	Electrical Equip., Appliances, and Components	3	*	2	*	0	*	0	0	0	0
336	Transportation Equipment	Q	3	Q	*	Q	2	0	0	0	0
336111	Automobiles	*	*	*	*	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	5	2	3	0	*	2	0	0	0	0
336411	Aircraft	*	0	*	0	0	0	0	0	0	0
337	Furniture and Related Products	2	*	Q	0	*	0	0	0	0	0
339	Miscellaneous	6	*	4	0	0	0	0	0	0	0
	Total	480	135	288	14	60	51	*	34	2	1

**Midwest Census Region**

311	Food	289	97	169	Q	Q	6	*	22	0	6
3112	Grain and Oilseed Milling	89	18	65	0	12	3	*	4	0	2
311221	Wet Corn Milling	48	4	41	0	2	0	*	2	0	*
31131	Sugar Manufacturing	5	2	2	0	2	1	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	Q	Q	9	0	Q	*	0	1	0	1
3115	Dairy Products	29	9	18	*	5	1	0	4	0	*
3116	Animal Slaughtering and Processing	76	17	55	*	9	1	0	7	0	3
312	Beverage and Tobacco Products	8	3	3	0	Q	*	*	1	0	*
3121	Beverages	8	3	3	0	Q	*	*	1	0	*
3122	Tobacco	*	0	*	0	0	0	0	0	0	0
313	Textile Mills	*	0	*	0	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	1	*	*	*	*	0	0	*	0	0
321	Wood Products	38	Q	19	*	*	*	Q	1	0	*
321113	Sawmills	1	*	*	*	*	*	0	*	0	*
3212	Veneer, Plywood, and Engineered Woods	16	*	15	*	0	*	0	*	0	*
3219	Other Wood Products	Q	Q	3	*	*	0	Q	*	0	*
322	Paper	74	17	52	2	8	5	2	2	0	1
322110	Pulp Mills	*	*	*	0	*	0	0	0	0	*
322121	Paper Mills, except Newsprint	35	8	26	1	4	2	1	1	0	1
322122	Newsprint Mills	*	0	*	0	0	0	0	0	0	0
322130	Paperboard Mills	12	3	8	0	2	1	*	*	0	0
323	Printing and Related Support	12	Q	6	*	0	*	0	W	0	0
324	Petroleum and Coal Products	105	27	62	*	1	5	0	W	0	7
324110	Petroleum Refineries	85	18	54	*	*	2	0	W	0	6
324199	Other Petroleum and Coal Products	1	*	*	0	*	*	0	*	0	*
325	Chemicals	196	16	155	*	10	1	*	5	0	1
325110	Petrochemicals	2	0	2	0	0	0	0	0	0	0
325120	Industrial Gases	1	*	1	*	0	0	0	*	0	0

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2006;****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)
325181	Alkalies and Chlorine	*	*	*	0	0	0	0	*	0	0
325182	Carbon Black	*	0	*	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	11	*	10	0	*	*	0	*	0	0
325192	Cyclic Crudes and Intermediates	1	*	*	0	*	*	0	0	0	0
325193	Ethyl Alcohol	78	2	58	0	*	0	*	2	0	*
325199	Other Basic Organic Chemicals	29	2	24	0	2	0	*	1	0	0
325211	Plastics Materials and Resins	19	Q	15	0	1	*	0	Q	0	0
325212	Synthetic Rubber	1	*	*	*	*	0	0	*	0	*
325222	Noncellulosic Organic Fibers	*	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	14	*	13	0	*	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	9	3	6	0	2	0	*	*	0	*
325412	Pharmaceutical Preparation	5	1	3	0	1	0	*	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	*	*	*	0	*	0	0	*	0	0
326	Plastics and Rubber Products	48	11	23	Q	Q	*	0	Q	0	0
327	Nonmetallic Mineral Products	128	14	91	1	1	*	*	12	0	*
327211	Flat Glass	15	5	8	0	*	0	0	5	0	0
327212	Other Pressed and Blown Glass and Glassware	Q	*	Q	0	0	0	0	*	0	0
327213	Glass Containers	12	2	9	*	1	0	0	1	0	0
327215	Glass Products from Purchased Glass	3	*	2	*	0	*	0	*	0	0
327310	Cements	10	1	3	*	*	*	*	*	0	*
327410	Lime	2	*	2	0	*	0	0	*	0	0
327420	Gypsum	13	1	12	0	0	0	0	1	0	0
327993	Mineral Wool	14	3	8	*	0	0	0	2	0	0
331	Primary Metals	279	15	222	1	1	2	*	9	3	*
331111	Iron and Steel Mills	184	7	150	*	0	2	*	2	3	*
331112	Electrometallurgical Ferroalloy Products	1	*	*	*	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	13	1	11	*	*	*	0	*	0	0
3313	Alumina and Aluminum	26	1	22	*	*	0	0	1	0	0
331314	Secondary Smelting and Alloying of Aluminum	10	*	7	*	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	9	0	9	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	5	1	4	*	0	0	0	1	0	0
3314	Nonferrous Metals, except Aluminum	12	1	9	0	*	0	0	1	0	0
3315	Foundries	43	6	29	1	*	*	*	5	0	*
331511	Iron Foundries	13	2	11	*	*	*	*	2	0	0
331521	Aluminum Die-Casting Foundries	10	1	7	*	0	*	0	1	0	*
331524	Aluminum Foundries, except Die-Casting	9	1	3	*	0	0	0	1	0	0
332	Fabricated Metal Products	118	15	89	Q	0	0	0	11	0	*
333	Machinery	46	Q	24	1	Q	0	0	*	0	0
334	Computer and Electronic Products	9	Q	5	Q	Q	Q	0	Q	0	*
334413	Semiconductors and Related Devices	1	*	*	*	*	0	0	0	0	*
335	Electrical Equip., Appliances, and Components	12	2	8	*	Q	Q	*	1	*	*
336	Transportation Equipment	157	10	127	Q	1	Q	0	6	*	*
336111	Automobiles	14	1	12	*	*	1	0	0	*	0
336112	Light Trucks and Utility Vehicles	16	2	12	0	*	0	0	1	0	*
3364	Aerospace Product and Parts	5	*	5	*	0	*	0	*	0	0
336411	Aircraft	2	*	2	0	0	0	0	*	0	0
337	Furniture and Related Products	10	Q	6	*	*	0	*	Q	*	*
339	Miscellaneous	8	*	6	0	*	0	0	0	0	0
	Total	1,537	256	1,070	17	108	23	Q	89	3	16

**South Census Region**

311	Food	165	47	91	3	30	3	Q	9	0	3
3112	Grain and Oilseed Milling	19	5	11	0	Q	1	*	1	0	1
311221	Wet Corn Milling	3	1	2	0	0	0	*	0	0	*
31131	Sugar Manufacturing	8	*	6	0	0	0	0	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Foods	19	4	13	2	*	1	0	*	0	0
3115	Dairy Products	6	1	2	0	1	0	0	*	0	0
3116	Animal Slaughtering and Processing	48	13	25	0	10	Q	0	Q	0	2
312	Beverage and Tobacco Products	17	9	6	0	Q	2	*	*	0	0
3121	Beverages	14	Q	5	0	Q	1	0	*	0	0
3122	Tobacco	3	2	*	0	2	1	*	*	0	0
313	Textile Mills	53	16	28	Q	8	Q	0	5	0	Q
314	Textile Product Mills	Q	Q	5	0	Q	2	0	Q	0	*
315	Apparel	6	1	2	0	1	0	0	0	0	0

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2006;****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)
316	Leather and Allied Products	*	*	*	*	0	0	0	0	0	0
321	Wood Products	23	2	15	*	*	0	1	0	0	*
321113	Sawmills	2	*	1	*	*	0	*	0	0	*
3212	Veneer, Plywood, and Engineered Woods	17	1	13	0	*	0	0	1	0	0
3219	Other Wood Products	2	Q	1	*	0	0	0	*	0	*
322	Paper	243	45	185	8	10	11	5	Q	2	8
322110	Pulp Mills	W	4	W	1	2	2	0	0	0	0
322121	Paper Mills, except Newsprint	69	15	49	1	2	3	2	*	0	5
322122	Newsprint Mills	*	*	*	0	*	0	0	0	0	0
322130	Paperboard Mills	78	18	57	5	4	5	3	*	2	2
323	Printing and Related Support	19	Q	Q	*	*	Q	0	Q	0	0
324	Petroleum and Coal Products	490	36	404	*	8	*	0	21	0	7
324110	Petroleum Refineries	478	35	395	*	8	*	0	20	0	7
324199	Other Petroleum and Coal Products	1	*	1	0	0	0	0	*	0	0
325	Chemicals	1,055	110	901	36	42	29	*	5	0	2
325110	Petrochemicals	104	1	96	0	0	*	0	1	0	1
325120	Industrial Gases	10	0	10	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	91	27	63	27	*	0	0	*	0	*
325182	Carbon Black	10	2	8	0	1	1	0	0	0	0
325188	Other Basic Inorganic Chemicals	29	4	24	*	2	1	0	1	0	*
325192	Cyclic Crudes and Intermediates	10	*	5	*	*	0	0	0	0	0
325193	Ethyl Alcohol	2	*	2	0	*	*	0	*	0	0
325199	Other Basic Organic Chemicals	262	25	222	8	13	4	*	1	0	*
325211	Plastics Materials and Resins	296	13	271	*	10	3	0	1	0	*
325212	Synthetic Rubber	25	4	21	*	2	2	0	0	0	*
325222	Noncellulosic Organic Fibers	33	23	10	*	7	17	0	*	0	*
325311	Nitrogenous Fertilizers	95	1	94	*	1	0	0	0	0	0
325312	Phosphatic Fertilizers	W	*	W	0	*	*	0	*	0	*
3254	Pharmaceuticals and Medicines	8	4	3	*	3	1	0	*	0	0
325412	Pharmaceutical Preparation	4	2	1	*	2	1	0	*	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	1	W	*	*	*	0	*	0	0
326	Plastics and Rubber Products	51	26	18	*	19	13	0	Q	0	Q
327	Nonmetallic Mineral Products	206	64	105	Q	17	*	*	Q	*	3
327211	Flat Glass	20	4	10	0	3	0	0	1	0	0
327212	Other Pressed and Blown Glass and Glassware	17	6	6	0	2	0	0	3	0	3
327213	Glass Containers	17	3	12	*	1	0	0	2	0	0
327215	Glass Products from Purchased Glass	Q	Q	10	*	0	0	0	Q	0	0
327310	Cements	5	*	5	*	*	*	*	*	*	*
327410	Lime	3	*	3	0	0	0	*	0	0	0
327420	Gypsum	31	5	23	*	5	0	0	0	0	0
327993	Mineral Wool	11	1	7	0	0	0	0	1	0	0
331	Primary Metals	165	17	128	*	4	1	*	9	*	3
331111	Iron and Steel Mills	68	5	58	*	2	1	*	2	0	*
331112	Electrometallurgical Ferroalloy Products	*	0	*	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	5	*	3	*	0	0	*	*	*	0
3313	Alumina and Aluminum	67	6	52	*	1	*	0	3	0	1
331314	Secondary Smelting and Alloying of Aluminum	6	1	4	0	1	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	19	*	13	*	*	0	0	0	0	0
331316	Aluminum Extruded Products	5	2	3	*	0	0	0	1	0	1
3314	Nonferrous Metals, except Aluminum	8	2	5	*	1	0	0	1	0	0
3315	Foundries	17	4	10	*	1	*	0	1	0	2
331511	Iron Foundries	7	4	3	*	*	0	0	1	0	2
331521	Aluminum Die-Casting Foundries	3	*	1	*	*	*	0	*	0	0
331524	Aluminum Foundries, except Die-Casting	3	*	2	*	0	0	0	*	0	0
332	Fabricated Metal Products	71	Q	41	*	*	*	*	Q	0	0
333	Machinery	20	Q	16	*	0	*	0	Q	0	*
334	Computer and Electronic Products	9	1	6	*	1	0	0	*	0	0
334413	Semiconductors and Related Devices	4	1	3	*	1	0	0	*	0	0
335	Electrical Equip., Appliances, and Components	23	6	14	*	Q	Q	0	3	0	0
336	Transportation Equipment	38	9	24	Q	3	3	*	7	0	*
336111	Automobiles	5	1	3	0	1	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	9	2	6	0	1	*	0	2	0	0
3364	Aerospace Product and Parts	9	3	5	*	*	1	*	2	0	*
336411	Aircraft	3	1	2	0	0	1	0	1	0	0
337	Furniture and Related Products	4	*	2	*	0	0	0	*	0	0
339	Miscellaneous	9	1	Q	*	*	0	0	*	0	0
	Total	2,709	431	2,013	52	166	72	7	139	2	28

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Billion Cubic Feet.**

NAICS Code(a)	Subsector and Industry	Natural Gas			Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
<b>West Census Region</b>											
311	Food	131	11	102	2	4	*	0	5	0	1
3112	Grain and Oilseed Milling	5	*	4	0	0	0	0	*	0	0
311221	Wet Corn Milling	1	*	1	0	0	0	0	*	0	0
31131	Sugar Manufacturing	2	0	2	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	46	4	35	*	2	*	0	Q	0	*
3115	Dairy Products	38	2	33	*	Q	*	0	1	0	0
3116	Animal Slaughtering and Processing	15	1	11	*	*	0	0	0	0	Q
312	Beverage and Tobacco Products	9	3	6	*	1	0	0	0	0	1
3121	Beverages	9	3	6	*	1	0	0	0	0	1
3122	Tobacco	0	0	0	0	0	0	0	0	0	0
313	Textile Mills	Q	0	*	0	0	0	0	0	0	0
314	Textile Product Mills	1	1	*	*	0	0	*	*	0	Q
315	Apparel	*	0	*	0	0	0	0	0	0	0
316	Leather and Allied Products	*	*	*	*	0	0	0	0	0	0
321	Wood Products	17	2	10	*	1	*	0	1	0	*
321113	Sawmills	8	*	4	*	0	0	0	0	0	*
3212	Veneer, Plywood, and Engineered Woods	7	2	5	0	*	0	0	1	0	*
3219	Other Wood Products	2	*	1	*	0	*	0	0	0	*
322	Paper	82	24	45	6	13	6	0	2	0	*
322110	Pulp Mills	W	1	W	0	0	1	0	*	0	*
322121	Paper Mills, except Newsprint	25	3	15	0	*	2	0	*	0	*
322122	Newsprint Mills	8	5	3	4	1	1	0	0	0	0
322130	Paperboard Mills	38	14	21	2	11	2	0	1	0	0
323	Printing and Related Support	2	*	Q	*	0	0	0	0	0	0
324	Petroleum and Coal Products	185	30	141	1	*	*	0	16	0	13
324110	Petroleum Refineries	166	29	126	1	*	*	0	16	0	13
324199	Other Petroleum and Coal Products	*	0	*	0	0	0	0	0	0	0
325	Chemicals	40	3	31	*	1	*	*	1	*	*
325110	Petrochemicals	*	0	*	0	0	0	0	0	0	0
325120	Industrial Gases	*	0	*	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	12	0	12	0	0	0	0	0	0	0
325182	Carbon Black	*	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	10	2	4	*	0	0	0	Q	0	0
325192	Cyclic Crudes and Intermediates	*	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	*	*	*	0	*	0	0	0	0	*
325199	Other Basic Organic Chemicals	2	*	1	0	0	*	0	0	0	0
325211	Plastics Materials and Resins	1	*	1	0	*	0	0	0	0	0
325212	Synthetic Rubber	*	*	*	*	*	*	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	4	0	4	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	W	0	W	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	4	*	3	0	0	0	0	*	0	0
325412	Pharmaceutical Preparation	3	0	2	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	*	W	0	*	0	0	*	0	0
326	Plastics and Rubber Products	4	*	2	*	0	0	0	*	0	*
327	Nonmetallic Mineral Products	57	7	46	*	3	*	*	4	0	*
327211	Flat Glass	6	3	3	0	1	0	0	2	0	*
327212	Other Pressed and Blown Glass and Glassware	1	*	1	0	0	0	0	*	0	0
327213	Glass Containers	10	3	6	0	1	0	0	2	0	0
327215	Glass Products from Purchased Glass	*	*	*	*	0	0	0	*	0	0
327310	Cements	4	1	3	0	*	0	*	0	0	0
327410	Lime	*	*	*	0	*	0	0	0	0	0
327420	Gypsum	22	0	22	0	0	0	0	0	0	0
327993	Mineral Wool	3	*	3	0	*	0	0	0	0	0
331	Primary Metals	45	4	35	*	*	*	0	3	0	*
331111	Iron and Steel Mills	18	0	13	0	0	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	*	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	1	*	1	*	0	0	0	0	0	0
3313	Alumina and Aluminum	8	1	7	0	*	*	0	*	0	0
331314	Secondary Smelting and Alloying of Aluminum	2	*	1	0	0	0	0	*	0	0
331315	Aluminum Sheet, Plate and Foils	2	*	1	0	*	*	0	*	0	0
331316	Aluminum Extruded Products	3	0	3	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	14	3	10	*	0	*	0	3	0	0

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2006;****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)
3315	Foundries	5	*	4	*	0	0	0	*	0	*
331511	Iron Foundries	1	*	1	0	0	0	0	*	0	0
331521	Aluminum Die-Casting Foundries	*	*	*	*	0	0	0	0	0	*
331524	Aluminum Foundries, except Die-Casting	1	*	*	*	0	0	0	0	0	0
332	Fabricated Metal Products	16	*	14	0	0	*	0	0	0	0
333	Machinery	2	*	1	*	0	0	0	*	0	0
334	Computer and Electronic Products	17	Q	10	*	Q	0	0	*	0	*
334413	Semiconductors and Related Devices	9	*	6	*	*	0	0	*	0	0
335	Electrical Equip., Appliances, and Components	Q	0	Q	0	0	0	0	0	0	0
336	Transportation Equipment	16	3	9	Q	2	*	0	*	0	*
336111	Automobiles	1	*	*	*	0	*	0	*	0	0
336112	Light Trucks and Utility Vehicles	*	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	10	2	8	*	2	0	0	*	0	*
336411	Aircraft	2	2	1	*	2	0	0	*	0	*
337	Furniture and Related Products	1	*	*	*	0	0	0	*	0	0
339	Miscellaneous	1	*	1	*	0	0	0	0	0	0
	Total	631	92	456	11	28	7	*	32	*	17

**Economic Characteristic (f)****Value of Shipments and Receipts (million dollars)**

Under 20	520	99	294	9	Q	7	*	15	*	4
20-49	515	103	329	7	28	16	*	61	*	3
50-99	534	106	357	7	40	14	Q	32	0	2
100-249	966	208	654	14	94	25	3	76	1	7
250-499	615	112	428	6	58	28	3	27	1	7
500 and Over	2,207	286	1,766	50	70	63	3	84	5	38
Total	5,357	915	3,828	94	363	152	27	295	6	61

**Employment Size**

Under 50	534	98	357	5	42	7	Q	46	*	4
50-99	505	113	301	6	78	12	*	21	*	5
100-249	995	161	683	10	61	29	Q	45	*	14
250-499	1,103	180	818	19	63	23	3	75	2	8
500-999	1,121	206	797	20	57	44	2	86	0	19
1000 and Over	1,099	157	872	35	61	37	3	23	5	10
Total	5,357	915	3,828	94	363	152	27	295	6	61

(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 2006. 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.

**Table 10.2 Capability to Switch Natural Gas to Alternative Energy Sources, 2006;**

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)

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, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 10.20 Reasons that Made Electricity Unswitchable, 2006:**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Reasons that Made Quantity Unswitchable;  
 Unit: Million kWh.

NAICS Code(a)	Subsector and Industry	Reasons that Made Electricity Unswitchable											
		Total Amount of Electricity Consumed as a Fuel	Total Amount of Electricity Fuel Used	Equipment is Not Capable of Using Another Fuel	Switching the Products	Unavailable Fuel Supply	Long-Term Contract Fuel Supply	Unavailable Storage for Fuel	Combinations of Alternative Fuels	Columns F, G, and H	Reasons I, J, and K	Don't Know	
		Total United States											
311	Food	73,551	55,824	47,583	162	597	556	849	106	0	1,467	4,505	
3112	Grain and Oilseed Milling	15,536	13,245	11,752	W	0	*	Q	Q	0	0	W	
311221	Wet Corn Milling	6,801	5,875	W	W	0	0	0	0	0	0	W	
31131	Sugar Manufacturing	974	616	477	0	0	16	101	0	0	0	22	
3114	Fruit and Vegetable Preserving and Specialty Foo	9,721	6,866	6,322	0	Q	Q	Q	0	0	Q	444	
3115	Dairy Products	10,079	7,361	6,730	0	0	146	167	31	0	0	287	
3116	Animal Slaughtering and Processing	17,545	13,775	10,384	Q	154	Q	314	Q	0	1,360	1,467	
312	Beverage and Tobacco Products	8,822	6,018	5,340	122	4	0	0	*	0	108	444	
3121	Beverages	7,572	4,810	W	122	0	0	0	0	0	108	W	
3122	Tobacco	1,250	1,208	W	0	4	0	0	*	0	0	W	
313	Textile Mills	19,486	14,432	12,052	W	569	0	0	W	0	Q	943	
314	Textile Product Mills	5,919	4,988	4,582	W	Q	W	0	0	0	48	Q	
315	Apparel	2,013	1,541	1,227	0	Q	0	0	0	0	Q	305	
316	Leather and Allied Products	413	315	280	0	0	0	Q	0	0	0	25	
321	Wood Products	27,564	21,260	19,013	157	73	192	121	26	0	239	1,439	
321113	Sawmills	7,563	5,281	4,390	Q	68	18	57	0	0	128	614	
3212	Veneer, Plywood, and Engineered Woods	9,902	7,601	6,991	Q	Q	161	64	0	0	92	267	
3219	Other Wood Products	9,736	8,096	7,402	128	Q	13	0	26	0	Q	506	
322	Paper	76,719	63,495	52,610	296	401	438	3,601	Q	0	250	5,779	
322110	Pulp Mills	1,683	1,515	W	0	3	0	0	0	0	0	W	
322121	Paper Mills, except Newsprint	25,561	21,624	18,086	2	188	0	594	0	0	51	2,703	
322122	Newsprint Mills	9,294	6,430	6,430	0	0	0	0	0	0	0	0	
322130	Paperboard Mills	23,515	19,223	14,551	187	210	438	3,007	0	0	83	746	
323	Printing and Related Support	12,995	8,281	6,925	Q	0	0	0	Q	0	Q	1,215	
324	Petroleum and Coal Products	43,983	36,773	31,871	W	145	W	1,603	W	0	57	1,729	
324110	Petroleum Refineries	40,527	34,189	29,473	W	W	W	1,603	W	0	31	W	
324199	Other Petroleum and Coal Products	594	549	523	0	6	5	0	15	0	0	*	
325	Chemicals	158,176	116,287	100,718	1,937	1,610	708	2,394	643	0	3,136	5,142	
325110	Petrochemicals	W	4,251	4,058	0	0	0	0	0	0	W	W	
325120	Industrial Gases	20,925	9,872	9,145	0	0	0	314	0	0	0	413	
325181	Alkalies and Chlorine	8,893	8,302	7,706	0	597	0	0	0	0	0	0	
325182	Carbon Black	690	690	614	0	76	0	0	0	0	0	0	
325188	Other Basic Inorganic Chemicals	24,171	8,519	7,466	72	0	367	0	106	0	165	344	
325192	Cyclic Crudes and Intermediates	2,566	592	583	0	0	0	0	0	0	0	9	
325193	Ethyl Alcohol	2,717	2,002	1,913	0	1	31	15	0	0	0	43	
325199	Other Basic Organic Chemicals	W	20,138	16,527	1,188	0	0	153	0	0	1,146	1,124	
325211	Plastics Materials and Resins	20,536	18,583	15,317	0	W	Q	1,236	Q	0	Q	W	
325212	Synthetic Rubber	1,715	1,234	1,202	0	8	0	0	0	0	*	25	
325222	Noncellulosic Organic Fibers	4,911	4,329	3,372	56	123	0	0	317	0	348	114	
325311	Nitrogenous Fertilizers	2,448	2,369	1,788	0	0	7	494	0	0	27	53	
325312	Phosphate Fertilizers	1,827	1,827	W	W	W	0	0	*	0	0	W	
3254	Pharmaceuticals and Medicines	9,224	7,301	5,867	0	0	293	83	0	0	404	654	
325412	Pharmaceutical Preparation	6,350	5,110	4,467	0	0	110	19	0	0	286	228	
325992	Photographic Film, Paper, Plate, and Chemicals	1,059	756	696	0	Q	0	43	0	0	*	16	
326	Plastics and Rubber Products	53,404	37,726	31,978	1,347	Q	W	Q	W	0	Q	3,070	
327	Nonmetallic Mineral Products	43,914	35,038	31,170	183	54	154	244	Q	0	719	2,452	
327211	Flat Glass	1,903	1,565	1,292	0	W	0	0	0	0	W	W	
327212	Other Pressed and Blown Glass and Glassware	5,121	Q	Q	0	0	0	0	Q	0	43	102	
327213	Glass Containers	3,944	3,518	3,289	142	0	0	0	0	0	0	88	
327215	Glass Products from Purchased Glass	3,670	2,886	2,723	27	0	0	14	Q	0	33	88	
327310	Cements	12,931	11,120	9,794	0	0	126	193	0	0	286	721	
327410	Lime	1,431	1,183	1,029	0	0	W	W	0	0	0	W	
327420	Gypsum	1,845	1,757	1,756	0	*	0	0	0	0	*	1	
327993	Mineral Wool	4,032	2,734	2,135	0	*	0	Q	0	0	256	335	
331	Primary Metals	136,216	111,967	100,815	859	164	199	1,074	275	0	4,540	4,040	

**Table 10.20 Reasons that Made Electricity Unswitchable, 2006:**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Reasons that Made Quantity Unswitchable;  
 Unit: Million kWh.

Reasons that Made Electricity Unswitchable

NAICS Code(a)	Subsector and Industry	Total Amount of Electricity Consumer as a Fuel	Total Amount of Electricity Fuel Use	Equipment is Not Capable of Using Another Fuel	Adversely Affects the Products	Unavailable	Long-Term Contract	Unavailable Storage for Fuel Supply	Combinations of Columns F, G, (b) in Place	Alternative Fuels(d)	Reason H, I, J, and K	Don't Know
		Unswitchable	Another Fuel	Switching	Environmental	Contract	Another	Reason				
331111	Iron and Steel Mills	51,381	43,551	38,929	809	2	2	924	0	0	4	2,882
331112	Electrometallurgical Ferroalloy Products	3,178	2,120	2,113	7	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	4,396	3,428	3,034	0	0	0	0	0	0	Q	338
3313	Alumina and Aluminum	45,796	35,335	31,180	39	23	0	15	1	0	3,937	140
331314	Secondary Smelting and Alloying of Aluminum	611	473	383	0	0	0	0	0	0	28	62
331315	Aluminum Sheet, Plate and Foils	3,871	2,916	2,901	0	2	0	0	0	0	0	13
331316	Aluminum Extruded Products	1,994	1,442	1,275	12	21	0	0	0	0	88	47
3314	Nonferrous Metals, except Aluminum	14,683	12,681	11,952	0	75	W	0	0	0	396	W
3315	Foundries	16,781	14,852	13,606	5	65	W	135	274	0	149	W
331511	Iron Foundries	8,563	8,047	7,366	0	58	Q	0	225	0	149	240
331521	Aluminum Die-Casting Foundries	1,937	1,644	1,324	0	7	72	135	49	0	0	58
331524	Aluminum Foundries, except Die-Casting	1,134	843	662	2	0	2	0	0	0	0	177
332	Fabricated Metal Products	41,965	30,508	26,208	Q	Q	Q	1,685	Q	0	Q	1,438
333	Machinery	32,394	17,757	12,279	Q	Q	Q	Q	0	0	Q	Q
334	Computer and Electronic Products	27,508	20,094	12,798	Q	Q	1,037	1,036	Q	0	1,685	3,247
334413	Semiconductors and Related Devices	12,746	11,308	5,992	24	0	1,037	390	0	0	1,334	2,530
335	Electrical Equip., Appliances, and Components	12,869	9,373	8,469	Q	Q	0	Q	0	0	Q	731
336	Transportation Equipment	57,250	44,838	38,346	Q	1,132	260	839	Q	0	Q	2,256
336111	Automobiles	3,899	2,813	2,266	0	1	W	0	0	0	*	W
336112	Light Trucks and Utility Vehicles	4,495	3,920	W	0	0	0	0	0	0	0	W
3364	Aerospace Product and Parts	11,519	8,742	6,972	Q	518	157	Q	Q	0	108	959
336411	Aircraft	3,446	2,994	2,224	0	518	0	0	0	0	23	229
337	Furniture and Related Products	9,264	4,544	3,973	Q	0	0	Q	0	0	Q	539
339	Miscellaneous	9,677	6,532	5,137	Q	Q	Q	Q	0	0	Q	891
	Total	854,102	647,591	553,374	6,926	5,696	5,951	13,575	2,478	0	15,528	44,064

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

(b) The environmental restrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.

(c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.

(d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.

NA=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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.21 Reasons that Made Natural Gas Unswitchable, 2006;**

Level: National Data;

Row: NAICS Codes;

Column: Reasons that Made Quantity Unswitchable;

Unit: Billion cubic feet.

NAICS Code(a)	Subsector and Industry	Reasons that Made Natural Gas Unswitchable											
		Total Amount of Natural Gas Consumed as a Fuel	Total Amount of Natural Gas Unswitchable	Equipment is Not Capable of Using Natural Gas Fuel Use	Switching to Another Fuel	Unavailable for the Products	Long-Term Fuel Supply	Unavailable	Contract Storage for	Storage for Another Place	Combinations of Alternative Fuels	Columns F, G, H, I, J, and K	Don't Know
		Total United States											
311	Food	618	379	275	Q	4	50	3	1	0	12	28	
3112	Grain and Oilseed Milling	115	81	67	*	0	4	*	*	0	1	8	
311221	Wet Corn Milling	51	44	37	*	0	1	0	0	0	*	6	
31131	Sugar Manufacturing	17	10	6	0	0	0	0	0	0	2	1	
3114	Fruit and Vegetable Preserving and Specialty Food	123	58	50	*	*	3	*	0	0	1	2	
3115	Dairy Products	80	58	48	Q	*	*	*	1	0	1	2	
3116	Animal Slaughtering and Processing	141	92	48	*	1	30	1	*	0	4	6	
312	Beverage and Tobacco Products	40	16	11	0	*	1	0	*	0	3	Q	
3121	Beverages	37	16	10	0	0	1	0	*	0	3	Q	
3122	Tobacco	3	1	*	0	*	*	0	0	0	0	*	
313	Textile Mills	63	32	Q	0	*	0	0	0	0	2	Q	
314	Textile Product Mills	45	7	5	0	Q	*	0	0	0	*	*	
315	Apparel	7	2	2	0	0	0	*	0	0	0	*	
316	Leather and Allied Products	1	1	1	0	0	0	0	0	0	0	*	
321	Wood Products	84	47	39	1	Q	1	0	*	0	1	4	
321113	Sawmills	12	5	4	*	*	1	0	*	0	*	*	
3212	Veneer, Plywood, and Engineered Woods	44	35	30	*	Q	*	0	0	0	1	Q	
3219	Other Wood Products	27	6	5	*	*	*	0	0	0	*	1	
322	Paper	461	324	246	1	8	21	1	*	0	31	17	
322110	Pulp Mills	13	7	4	0	0	2	0	0	0	1	*	
322121	Paper Mills, except Newsprint	169	120	84	*	7	5	0	*	0	17	6	
322122	Newsprint Mills	8	3	3	0	0	0	0	0	0	0	0	
322130	Paperboard Mills	138	91	64	1	1	10	1	*	0	9	6	
323	Printing and Related Support	38	24	18	Q	*	0	0	0	0	Q	2	
324	Petroleum and Coal Products	825	632	558	*	4	16	*	4	0	32	18	
324110	Petroleum Refineries	766	595	528	*	4	16	0	2	0	31	15	
324199	Other Petroleum and Coal Products	3	2	1	*	*	*	0	0	0	*	*	
325	Chemicals	1,355	1,121	954	2	3	31	13	2	0	68	49	
325110	Petrochemicals	107	98	61	0	*	0	0	0	0	W	W	
325120	Industrial Gases	13	12	9	0	0	1	1	0	0	0	1	
325181	Alkalies and Chlorine	103	76	76	0	*	0	0	0	0	0	*	
325182	Carbon Black	10	8	4	1	0	2	0	0	0	2	0	
325188	Other Basic Inorganic Chemicals	52	40	30	*	*	1	Q	*	0	3	4	
325192	Cyclic Crudes and Intermediates	15	8	5	0	0	0	0	0	0	2	*	
325193	Ethyl Alcohol	80	60	53	1	0	1	0	0	0	3	2	
325199	Other Basic Organic Chemicals	298	251	211	0	1	7	8	*	0	8	15	
325211	Plastics Materials and Resins	324	289	277	*	*	3	1	1	0	2	6	
325212	Synthetic Rubber	25	21	18	0	0	*	0	*	0	2	*	
325222	Noncellulosic Organic Fibers	33	10	3	0	0	*	*	*	0	6	0	
325311	Nitrogenous Fertilizers	113	112	100	0	0	0	0	0	0	5	7	
325312	Phosphate Fertilizers	11	10	10	0	*	0	0	*	0	1	*	
3254	Pharmaceuticals and Medicines	45	21	15	0	*	2	2	*	0	1	1	
325412	Pharmaceutical Preparation	30	15	11	0	*	1	2	*	0	*	*	
325992	Photographic Film, Paper, Plate, and Chemicals	7	5	3	0	0	2	*	0	0	0	*	
326	Plastics and Rubber Products	124	50	39	1	*	Q	*	Q	0	Q	4	
327	Nonmetallic Mineral Products	446	271	231	5	1	3	*	*	0	14	16	
327211	Flat Glass	50	21	17	0	0	3	0	0	0	1	*	
327212	Other Pressed and Blown Glass and Glassware	Q	Q	Q	1	1	0	0	*	0	*	2	
327213	Glass Containers	49	34	31	0	0	0	0	0	0	1	1	
327215	Glass Products from Purchased Glass	50	13	12	*	*	*	*	0	0	*	*	
327310	Cements	19	11	10	0	0	*	*	0	0	*	1	
327410	Lime	5	5	4	*	*	0	0	0	0	*	*	
327420	Gypsum	74	62	61	0	0	*	0	0	0	1	*	
327993	Mineral Wool	33	22	17	*	*	0	*	0	0	1	3	
331	Primary Metals	568	444	369	1	34	10	2	3	0	9	17	

**Table 10.21 Reasons that Made Natural Gas Unswitchable, 2006;**

Level: National Data;

Row: NAICS Codes;

Column: Reasons that Made Quantity Unswitchable;

Unit: Billion cubic feet.

Reasons that Made Natural Gas Unswitchable													
NAICS Code(a)	Subsector and Industry	Total Amount of Natural Gas Consumed as a Fuel	Total Amount of Natural Gas Unswitchable	Equipment is Not Capable of Using Another Fuel	Switching the Products	Unavailable Fuel Supply	Long-Term Fuel Contract	Unavailable Storage for Alternative Fuels	Another Fuel in Place	Combinations of Columns F, G, H, I, J, and K	Reason	Don't Know	
331111	Iron and Steel Mills	317	258	210	0	33	3	0	1	0	3	7	
331112	Electrometallurgical Ferroalloy Products	1	1	1	0	0	0	*	0	0	0	0	
3312	Steel Products from Purchased Steel	25	20	18	*	*	*	*	*	0	*	1	
3313	Alumina and Aluminum	113	89	81	0	*	*	*	0	0	2	4	
331314	Secondary Smelting and Alloying of Aluminum	17	13	10	0	*	*	0	0	0	1	2	
331315	Aluminum Sheet, Plate and Foils	36	28	26	0	*	0	0	0	0	*	2	
331316	Aluminum Extruded Products	17	9	8	0	*	*	*	0	0	1	*	
3314	Nonferrous Metals, except Aluminum	42	28	18	*	0	6	0	1	0	2	1	
3315	Foundries	70	48	41	1	1	*	1	1	0	*	3	
331511	Iron Foundries	23	16	15	*	*	*	*	*	0	*	*	
331521	Aluminum Die-Casting Foundries	15	10	7	*	*	0	1	*	0	*	1	
331524	Aluminum Foundries, except Die-Casting	13	6	5	0	0	0	0	*	0	*	1	
332	Fabricated Metal Products	234	167	145	*	Q	*	*	Q	0	Q	2	
333	Machinery	82	46	33	Q	Q	0	0	0	0	Q	Q	
334	Computer and Electronic Products	44	25	16	*	*	1	*	0	0	2	Q	
334413	Semiconductors and Related Devices	18	12	7	0	*	1	*	0	0	2	Q	
335	Electrical Equip., Appliances, and Components	40	26	21	*	Q	0	0	Q	0	Q	2	
336	Transportation Equipment	242	188	167	*	Q	3	Q	*	0	10	5	
336111	Automobiles	21	15	13	0	*	0	0	0	0	0	2	
336112	Light Trucks and Utility Vehicles	24	19	17	0	0	0	0	0	0	2	*	
3364	Aerospace Product and Parts	30	20	16	0	*	3	*	*	0	*	1	
336411	Aircraft	8	5	2	0	*	2	0	0	0	0	*	
337	Furniture and Related Products	16	10	8	0	0	0	0	Q	0	*	1	
339	Miscellaneous	24	18	14	*	*	0	*	0	0	0	4	
	Total	5,357	3,828	3,178	23	68	141	19	14	0	205	180	

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

(b) The environmental restrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.

(c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.

(d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.

N=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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.22 Reasons that Made Coal Unswitchable, 2006;**

Level: National Data;

Row: NAICS Codes;

Column: Reasons that Made Quantity Unswitchable;

Unit: Million short tons.

NAICS Code(a)	Subsector and Industry	Reasons that Made Coal Unswitchable											
		Total Amount of Coal Consumed as a Fuel	Total Amount of Unswitchable Coal Fuel Use	Equipment is Not Capable of Using Another Fuel	Switching the Products	Unavailable	Long-Term Fuel Supply	Unavailable Storage for Alternative Fuels	Contract	Unavailable Storage for Another Fuel	Combinations of Columns F, G, and H	Reasons I, J, and K	Don't Know
		Total United States											
311	Food	6,603	5,373	4,976	55	0	0	0	0	0	137	204	
3112	Grain and Oilseed Milling	5,099	4,323	4,035	55	0	0	0	0	0	114	119	
311221	Wet Corn Milling	4,243	3,770	3,714	55	0	0	0	0	0	0	0	
31131	Sugar Manufacturing	1,395	1,050	941	0	0	0	0	0	0	23	85	
3114	Fruit and Vegetable Preserving and Specialty Food	50	0	0	0	0	0	0	0	0	0	0	
3115	Dairy Products	10	0	0	0	0	0	0	0	0	0	0	
3116	Animal Slaughtering and Processing	0	0	0	0	0	0	0	0	0	0	0	
312	Beverage and Tobacco Products	883	612	594	Q	0	0	0	0	0	0	1	
3121	Beverages	700	524	507	Q	0	0	0	0	0	0	0	
3122	Tobacco	183	88	87	0	0	0	0	0	0	0	1	
313	Textile Mills	1,428	1,098	Q	0	Q	0	247	0	0	0	0	
314	Textile Product Mills	138	Q	Q	0	0	0	0	0	0	0	0	
315	Apparel	0	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	0	
321	Wood Products	Q	56	56	0	0	0	0	0	0	0	0	
321113	Sawmills	0	0	0	0	0	0	0	0	0	0	0	
3212	Veneer, Plywood, and Engineered Woods	83	56	56	0	0	0	0	0	0	0	0	
3219	Other Wood Products	Q	0	0	0	0	0	0	0	0	0	0	
322	Paper	9,953	6,596	4,570	54	115	881	127	0	0	624	224	
322110	Pulp Mills	278	278	278	0	0	0	0	0	0	0	0	
322121	Paper Mills, except Newsprint	5,512	3,588	3,086	0	2	212	127	0	0	0	161	
322122	Newsprint Mills	611	581	0	0	0	581	0	0	0	0	0	
322130	Paperboard Mills	3,290	1,903	960	54	114	89	0	0	0	624	63	
323	Printing and Related Support	0	0	0	0	0	0	0	0	0	0	0	
324	Petroleum and Coal Products	2,387	96	96	0	0	0	0	0	0	0	0	
324110	Petroleum Refineries	37	34	34	0	0	0	0	0	0	0	0	
324199	Other Petroleum and Coal Products	2,351	62	62	0	0	0	0	0	0	0	0	
325	Chemicals	7,535	3,704	3,594	0	0	53	0	0	0	0	57	
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0	0	
325120	Industrial Gases	0	0	0	0	0	0	0	0	0	0	0	
325181	Alkalies and Chlorine	742	297	297	0	0	0	0	0	0	0	0	
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0	0	
325188	Other Basic Inorganic Chemicals	1,030	19	19	0	0	0	0	0	0	0	0	
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0	0	0	0	
325193	Ethyl Alcohol	855	97	97	0	0	0	0	0	0	0	0	
325199	Other Basic Organic Chemicals	2,446	1,862	1,862	0	0	0	0	0	0	0	0	
325211	Plastics Materials and Resins	482	482	429	0	0	53	0	0	0	0	0	
325212	Synthetic Rubber	289	140	140	0	0	0	0	0	0	0	0	
325222	Noncellulosic Organic Fibers	390	151	151	0	0	0	0	0	0	0	0	
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0	0	0	
325312	Phosphate Fertilizers	76	76	76	0	0	0	0	0	0	0	0	
3254	Pharmaceuticals and Medicines	284	121	64	0	0	0	0	0	0	0	57	
325412	Pharmaceutical Preparation	227	64	64	0	0	0	0	0	0	0	0	
325992	Photographic Film, Paper, Plate, and Chemicals	711	327	327	0	0	0	0	0	0	0	0	
326	Plastics and Rubber Products	Q	Q	Q	0	0	0	0	0	0	0	0	
327	Nonmetallic Mineral Products	14,429	10,365	7,414	235	46	919	200	0	0	1,339	212	
327211	Flat Glass	0	0	0	0	0	0	0	0	0	0	0	
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0	0	0	
327213	Glass Containers	0	0	0	0	0	0	0	0	0	0	0	
327215	Glass Products from Purchased Glass	Q	Q	Q	0	0	0	0	0	0	0	0	
327310	Cements	10,577	7,659	5,772	194	0	677	200	0	0	606	212	
327410	Lime	3,539	2,465	1,402	41	46	242	0	0	0	734	0	
327420	Gypsum	0	0	0	0	0	0	0	0	0	0	0	
327993	Mineral Wool	0	0	0	0	0	0	0	0	0	0	0	
331	Primary Metals	950	395	305	0	31	0	0	0	0	59	0	

**Table 10.22 Reasons that Made Coal Unswitchable, 2006;**

Level: National Data;

Row: NAICS Codes;

Column: Reasons that Made Quantity Unswitchable;

Unit: Million short tons.

Reasons that Made Coal Unswitchable												
NAICS Code(a)	Subsector and Industry	Total Amount of Coal Consumed as a Fuel	Total Amount of Coal Fuel Use	Equipment is Not Capable of Using Another Fuel	Switching the Products	Unavailable	Long-Term Fuel Supply/Restrictions(b in Place)	Unavailable Storage for Another Fuel	Contract	Combinations of Columns F, G, H, I, J, and K	Reasons	Don't Know
331111	Iron and Steel Mills	640	251	161	0	31	0	0	0	0	59	0
331112	Electrometallurgical Ferroalloy Products	97	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	10	0	0	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum	4	4	4	0	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	4	4	4	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	200	140	140	0	0	0	0	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	0	0	0	0	0	0	0	0	0	0	0
333	Machinery	54	26	26	0	0	0	0	0	0	0	0
334	Computer and Electronic Products	0	0	0	0	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	231	173	160	0	13	0	0	0	0	0	0
336111	Automobiles	88	85	72	0	13	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	54	54	54	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	14	0	0	0	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	114	29	18	0	0	0	0	0	0	0	Q
339	Miscellaneous	0	0	0	0	0	0	0	0	0	0	0
	Total	45,729	28,935	22,814	362	465	1,853	573	0	0	2,160	708

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

(b) The environmental restrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.

(c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.

(d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.

N=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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.23 Reasons that Made LPG Unswitchable, 2006;**

Level: National Data;

Row: NAICS Codes;

Column: Reasons that Made Quantity Unswitchable;

Unit: Million barrels.

NAICS Code(a)	Subsector and Industry	Reasons that Made LPG Unswitchable											
		Total Amount of LPG Consumed as a Fuel	Total Amount of LPG Fuel Use	Equipment is No Longer Capable of Using LPG Fuel Use	Equipment is No Longer Capable of Using Another Fuel	Switching to Another Fuel	Unavailable for the Products	Long-Term Alternative Fuel Supply	Unavailable Storage for the Products	Contract Fuel Supply Restrictions	Combinations of Alternative Fuels(d)	Reasons H, I, J, and K	
		Total United States											
311	Food	850	549	351	Q	96	8	1	*	0	*	92	
3112	Grain and Oilseed Milling	Q	Q	Q	*	0	Q	1	0	0	0	3	
311221	Wet Corn Milling	3	2	1	*	0	0	0	0	0	0	1	
31131	Sugar Manufacturing	10	9	5	0	0	0	0	0	0	0	4	
3114	Fruit and Vegetable Preserving and Specialty Food	147	92	66	*	1	2	0	0	0	*	22	
3115	Dairy Products	28	21	Q	0	0	*	*	0	0	0	Q	
3116	Animal Slaughtering and Processing	239	147	32	*	67	Q	0	0	0	0	Q	
312	Beverage and Tobacco Products	251	177	129	Q	Q	0	0	*	0	1	Q	
3121	Beverages	244	171	124	Q	Q	0	0	*	0	1	Q	
3122	Tobacco	7	6	6	0	*	0	0	0	0	*	0	
313	Textile Mills	72	52	51	Q	0	0	0	0	0	0	Q	
314	Textile Product Mills	167	Q	Q	*	0	1	0	0	0	0	*	
315	Apparel	6	Q	*	0	0	0	0	0	0	0	Q	
316	Leather and Allied Products	14	5	4	0	1	0	0	0	0	0	0	
321	Wood Products	1,368	732	513	12	66	4	Q	*	0	Q	130	
321113	Sawmills	113	62	51	0	*	*	Q	0	0	*	5	
3212	Veneer, Plywood, and Engineered Woods	850	416	284	Q	64	Q	0	0	0	0	Q	
3219	Other Wood Products	346	200	163	Q	2	Q	Q	*	0	Q	23	
322	Paper	1,339	1,007	848	Q	0	8	0	Q	0	Q	42	
322110	Pulp Mills	29	28	28	0	0	*	0	0	0	0	*	
322121	Paper Mills, except Newsprint	182	149	133	0	0	4	0	2	0	0	10	
322122	Newsprint Mills	47	8	5	0	0	0	0	0	0	0	3	
322130	Paperboard Mills	117	97	91	0	0	2	0	0	0	0	3	
323	Printing and Related Support	183	104	87	*	Q	0	0	Q	0	0	Q	
324	Petroleum and Coal Products	7,424	4,267	1,314	975	143	0	0	823	0	*	1,012	
324110	Petroleum Refineries	7,307	4,179	1,227	975	143	0	0	823	0	*	1,012	
324199	Other Petroleum and Coal Products	2	*	*	0	0	0	0	0	0	0	0	
325	Chemicals	1,907	1,717	1,220	*	4	256	195	*	0	Q	12	
325110	Petrochemicals	1	1	*	0	1	0	0	0	0	0	0	
325120	Industrial Gases	Q	Q	Q	0	*	0	*	0	0	0	*	
325181	Alkalies and Chlorine	2	2	2	0	*	*	0	0	0	0	0	
325182	Carbon Black	*	*	*	0	0	0	0	0	0	0	0	
325188	Other Basic Inorganic Chemicals	26	18	12	0	1	Q	*	0	0	0	Q	
325192	Cyclic Crudes and Intermediates	*	*	*	0	0	0	0	0	0	0	*	
325193	Ethyl Alcohol	10	2	2	0	0	*	0	0	0	0	*	
325199	Other Basic Organic Chemicals	76	11	10	0	0	0	*	0	0	*	1	
325211	Plastics Materials and Resins	1,520	1,496	1,046	0	0	252	194	0	0	0	4	
325212	Synthetic Rubber	9	8	8	0	0	0	0	*	0	0	*	
325222	Noncellulosic Organic Fibers	9	7	7	0	0	*	0	0	0	0	0	
325311	Nitrogenous Fertilizers	9	9	1	0	*	0	0	0	0	7	*	
325312	Phosphate Fertilizers	3	2	2	0	0	0	0	0	0	0	0	
3254	Pharmaceuticals and Medicines	49	Q	Q	0	0	0	*	0	0	0	*	
325412	Pharmaceutical Preparation	44	Q	Q	0	0	0	*	0	0	0	0	
325992	Photographic Film, Paper, Plate, and Chemicals	3	3	3	0	0	0	0	0	0	0	0	
326	Plastics and Rubber Products	1,316	898	325	0	Q	Q	Q	0	0	Q	Q	
327	Nonmetallic Mineral Products	1,327	1,095	Q	*	16	Q	0	5	0	Q	Q	
327211	Flat Glass	11	8	8	0	*	0	0	0	0	0	*	
327212	Other Pressed and Blown Glass and Glassware	92	Q	Q	0	13	0	0	0	0	Q	3	
327213	Glass Containers	31	29	27	0	0	0	0	1	0	*	0	
327215	Glass Products from Purchased Glass	68	37	35	*	0	1	0	0	0	*	1	
327310	Cements	12	6	5	0	0	0	0	0	0	*	*	
327410	Lime	6	5	2	0	0	*	0	3	0	0	*	
327420	Gypsum	70	61	61	0	0	0	0	0	0	0	*	
327993	Mineral Wool	27	22	16	*	2	*	0	1	0	0	3	
331	Primary Metals	979	596	344	4	2	12	2	4	0	3	225	

**Table 10.23 Reasons that Made LPG Unswitchable, 2006;**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Reasons that Made Quantity Unswitchable;  
 Unit: Million barrels.

Reasons that Made LPG Unswitchable														
NAICS Code(a)	Subsector and Industry	Total Amount of LPG Consumed as a Fuel	Total Amount of LPG Fuel Use	Equipment is Not Capable of Using Another Fuel	Switching Adversely Affects the Products	Unavailable	Long-Term Alternative Fuel Supply	Unavailable Storage for Fuel	Unavailable Fuel Supply	Contract	Storage for Another Fuel	Combinations of Columns F, G, and H	Reasons H, I, J, and K	Don't Know
		(b) in Place	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
331111	Iron and Steel Mills	43	28	23	*	*	1	0	0	0	0	1	3	
331112	Electrometallurgical Ferroalloy Products	1	1	1	0	0	0	0	0	0	0	0	*	
3312	Steel Products from Purchased Steel	69	50	38	2	*	4	Q	*	0	0	0	5	
3313	Alumina and Aluminum	266	66	54	Q	*	3	*	*	0	0	*	8	
331314	Secondary Smelting and Alloying of Aluminum	13	10	6	0	0	0	0	0	0	0	0	4	
331315	Aluminum Sheet, Plate and Foils	27	26	21	0	0	2	*	*	0	0	*	3	
331316	Aluminum Extruded Products	214	23	20	Q	0	1	0	0	0	0	0	1	
3314	Nonferrous Metals, except Aluminum	335	284	100	0	0	Q	0	1	0	2	179		
3315	Foundries	265	167	129	1	1	2	1	2	0	1	31		
331511	Iron Foundries	95	69	65	*	0	2	0	*	0	0	0	2	
331521	Aluminum Die-Casting Foundries	47	16	13	1	1	*	0	0	0	0	1	*	
331524	Aluminum Foundries, except Die-Casting	49	29	13	0	0	*	1	*	0	0	0	15	
332	Fabricated Metal Products	1,178	729	360	Q	*	Q	Q	Q	0	0	0	Q	
333	Machinery	725	581	535	Q	0	0	0	0	0	0	Q	Q	
334	Computer and Electronic Products	Q	9	7	0	0	0	0	*	0	0	0	Q	
334413	Semiconductors and Related Devices	Q	Q	Q	0	0	0	0	*	0	0	0	*	
335	Electrical Equip., Appliances, and Components	229	133	96	Q	Q	Q	0	0	0	0	0	Q	
336	Transportation Equipment	1,008	626	536	12	Q	6	Q	*	0	0	12	43	
336111	Automobiles	63	14	13	*	0	0	0	*	0	0	1	*	
336112	Light Trucks and Utility Vehicles	10	5	4	0	0	0	0	*	0	0	0	1	
3364	Aerospace Product and Parts	116	85	58	12	0	4	0	0	0	0	5	7	
336411	Aircraft	12	11	2	0	0	3	0	0	0	0	1	6	
337	Furniture and Related Products	140	91	68	0	0	0	Q	0	0	0	0	16	
339	Miscellaneous	152	51	28	*	Q	0	Q	0	0	0	0	8	
	Total	20,669	13,530	7,809	1,040	397	328	238	870	0	Q	2,517		

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

(b) The environmental restrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.

(c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.

(d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.

NA=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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.24 Reasons that Made Distillate Fuel Oil Unswitchable, 2006;**

Level: National Data;

Row: NAICS Codes;

Column: Reasons that Made Quantity Unswitchable;

Unit: Million barrels.

Reasons that Made Distillate Fuel Oil Unswitchable												
NAICS Code(a)	Subsector and Industry	Total Amount of Distillate Fuel Oil Consumed as a Fuel	Total Amount of Distillate Fuel Oil Unswitchable	Equipment is Not Capable of Using Distillate Fuel Use	Switching Another Fuel	Unavailable the Products	Long-Term Fuel Supply	Unavailable Restrictions	Contract Storage for	Unavailable Another Fuel	Combinations of Columns F, G, (b) in Place	Reason H, I, J, and K
												Don't Know
Total United States												
311	Food	2,723	2,141	1,595	10	Q	1	Q	20	0	0	287
3112	Grain and Oilseed Milling	153	144	134	1	0	0	Q	0	0	0	7
311221	Wet Corn Milling	32	31	24	1	0	0	0	0	0	0	6
31131	Sugar Manufacturing	148	116	68	9	0	0	0	0	0	0	38
3114	Fruit and Vegetable Preserving and Specialty Foods	210	43	42	0	0	0	0	*	0	0	*
3115	Dairy Products	235	229	226	0	0	1	0	0	0	0	Q
3116	Animal Slaughtering and Processing	789	618	435	0	7	0	0	20	0	0	Q
312	Beverage and Tobacco Products	204	104	59	*	33	*	0	Q	0	Q	*
3121	Beverages	171	75	42	*	21	*	0	Q	0	Q	*
3122	Tobacco	33	29	17	0	12	0	0	0	0	0	0
313	Textile Mills	43	Q	Q	0	0	Q	0	0	0	0	0
314	Textile Product Mills	36	31	29	0	1	0	0	0	0	0	0
315	Apparel	7	0	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	10	Q	Q	0	0	0	0	0	0	0	0
321	Wood Products	2,635	2,167	1,913	24	27	8	1	4	0	0	190
321113	Sawmills	1,422	1,126	976	10	25	0	0	4	0	0	110
3212	Veneer, Plywood, and Engineered Woods	234	194	169	Q	0	5	0	0	0	0	13
3219	Other Wood Products	775	718	675	Q	Q	Q	1	0	0	0	32
322	Paper	2,181	881	847	0	2	4	0	0	0	0	29
322110	Pulp Mills	648	44	44	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	372	262	238	0	2	*	0	0	0	0	21
322122	Newsprint Mills	20	14	14	0	0	0	0	0	0	0	0
322130	Paperboard Mills	1,054	482	471	0	1	3	0	0	0	0	7
323	Printing and Related Support	Q	3	3	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	4,275	2,760	2,530	1	1	Q	0	0	0	0	Q
324110	Petroleum Refineries	1,387	839	805	0	1	0	0	0	0	0	32
324199	Other Petroleum and Coal Products	30	23	18	1	0	0	0	0	0	0	4
325	Chemicals	1,616	1,211	930	1	Q	26	0	*	0	7	Q
325110	Petrochemicals	103	103	103	0	0	0	0	0	0	0	0
325120	Industrial Gases	6	6	6	0	0	0	0	0	0	0	*
325181	Alkalies and Chlorine	15	12	11	0	0	0	0	0	0	0	1
325182	Carbon Black	1	*	*	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	178	94	91	*	0	0	0	*	0	1	1
325192	Cyclic Crudes and Intermediates	18	6	6	0	0	1	0	*	0	0	*
325193	Ethyl Alcohol	11	4	4	0	0	0	0	0	0	1	*
325199	Other Basic Organic Chemicals	387	272	250	*	Q	*	0	0	0	3	3
325211	Plastics Materials and Resins	226	Q	50	0	0	0	0	*	0	0	Q
325212	Synthetic Rubber	59	6	5	0	1	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	23	17	17	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	24	23	9	*	1	12	0	0	0	0	0
325312	Phosphate Fertilizers	129	129	117	0	0	0	0	0	0	0	11
3254	Pharmaceuticals and Medicines	198	179	178	0	0	*	0	0	0	0	2
325412	Pharmaceutical Preparation	175	160	159	0	0	*	0	0	0	0	1
325992	Photographic Film, Paper, Plate, and Chemicals	11	10	8	0	0	0	0	0	0	2	0
326	Plastics and Rubber Products	540	Q	Q	0	0	0	0	0	0	Q	0
327	Nonmetallic Mineral Products	5,150	4,141	3,795	*	Q	7	*	0	0	Q	250
327211	Flat Glass	10	9	9	*	0	0	0	0	0	0	*
327212	Other Pressed and Blown Glass and Glassware	12	6	5	0	0	0	0	0	0	0	1
327213	Glass Containers	15	15	15	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	Q	Q	Q	0	*	0	0	0	0	0	0
327310	Cements	596	409	371	0	1	7	0	0	0	0	30
327410	Lime	224	190	179	0	0	0	0	0	0	0	11
327420	Gypsum	115	104	104	0	0	0	0	0	0	0	0
327993	Mineral Wool	5	4	3	0	0	0	*	0	0	0	*
331	Primary Metals	1,016	780	563	34	Q	6	2	2	0	4	161

**Table 10.24 Reasons that Made Distillate Fuel Oil Unswitchable, 2006;**

Level: National Data;

Row: NAICS Codes;

Column: Reasons that Made Quantity Unswitchable;

Unit: Million barrels.

Reasons that Made Distillate Fuel Oil Unswitchable													
NAICS Code(a)	Subsector and Industry	Total Amount of Distillate Fuel Oil Consumed as a Fuel	Total Amount of Unswitchable Distillate Fuel Oil Use	Equipment is Not Capable of Using Another Fuel	Switching the Products	Unavailable Fuel Supply	Long-Term Fuel Contract	Unavailable Storage for Alternative Fuels	Combinations of Columns F, G, H, I, J, and K	Reasons(b) in Place	Reasons(c) in Place	Reasons(d) in Place	Reasons(e) in Place
331111	Iron and Steel Mills	529	458	319	10	0	0	2	0	0	0	127	
331112	Electrometallurgical Ferroalloy Products	17	9	9	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	46	18	15	0	0	0	0	0	0	0	0	3
3313	Alumina and Aluminum	136	89	76	4	*	0	0	1	0	3	5	
331314	Secondary Smelting and Alloying of Aluminum	37	32	23	4	0	0	0	1	0	0	0	4
331315	Aluminum Sheet, Plate and Foils	58	22	18	0	*	0	0	*	0	3	1	
331316	Aluminum Extruded Products	12	12	11	0	0	0	0	*	0	0	0	*
3314	Nonferrous Metals, except Aluminum	96	87	57	0	Q	0	0	0	0	1	21	
3315	Foundries	193	119	88	20	*	6	*	*	0	0	0	6
331511	Iron Foundries	100	84	58	20	0	6	0	0	0	0	0	2
331521	Aluminum Die-Casting Foundries	45	*	*	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	10	3	2	0	0	0	*	*	0	0	0	*
332	Fabricated Metal Products	410	295	272	0	Q	0	0	0	0	*	Q	
333	Machinery	274	184	181	Q	0	0	0	0	0	*	*	
334	Computer and Electronic Products	155	63	61	0	*	*	0	0	0	0	Q	
334413	Semiconductors and Related Devices	19	5	5	0	*	*	0	0	0	0	*	
335	Electrical Equip., Appliances, and Components	Q	Q	Q	*	0	0	0	0	0	0	*	
336	Transportation Equipment	488	198	162	Q	15	*	Q	*	0	4	9	
336111	Automobiles	4	2	1	0	0	0	0	0	0	0	*	
336112	Light Trucks and Utility Vehicles	5	3	3	0	0	0	0	*	0	0	0	
3364	Aerospace Product and Parts	98	82	66	0	8	0	0	0	0	4	4	
336411	Aircraft	22	21	11	0	5	0	0	0	0	1	4	
337	Furniture and Related Products	Q	Q	Q	0	0	0	0	0	0	0	1	
339	Miscellaneous	28	9	Q	0	*	0	0	0	0	0	Q	
	Total	22,139	15,529	13,252	107	349	Q	9	37	0	Q	1,284	

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

(b) The environmental restrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.

(c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.

(d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.

N=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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.25 Reasons that Made Residual Fuel Oil Unswitchable, 2006;**

Level: National Data;

Row: NAICS Codes;

Column: Reasons that Made Quantity Unswitchable;

Unit: Million barrels.

		Reasons that Made Residual Fuel Oil Unswitchable											
NAICS Code(a)	Subsector and Industry	Total Amount of Residual Fuel Oil Consumed as a Fuel	Total Amount of Unswitchable Residual Fuel Oil Use	Equipment is Not Capable of Using Another Fuel	Switching to Another Fuel	Unavailable the Products	Unswitchable Fuel Supply	Long-Term Environmental Contract	Unavailable Storage for Alternative Fuels	Combinations of Columns F, G, in Place(c)	Reasons H, I, J, and K	Don't Know	
<b>Total United States</b>													
311	Food	4,124	454	280	16	27	35	0	0	0	0	Q	
3112	Grain and Oilseed Milling	260	45	29	16	0	0	0	0	0	0	0	
311221	Wet Corn Milling	27	27	27	0	0	0	0	0	0	0	0	
31131	Sugar Manufacturing	1,359	48	48	0	0	0	0	0	0	0	0	
3114	Fruit and Vegetable Preserving and Specialty Foods	393	27	0	0	27	0	0	0	0	0	0	
3115	Dairy Products	209	Q	Q	0	0	0	0	0	0	0	0	
3116	Animal Slaughtering and Processing	539	172	Q	0	0	35	0	0	0	0	Q	
312	Beverage and Tobacco Products	431	107	48	0	58	0	0	0	0	0	1	
3121	Beverages	290	58	0	0	58	0	0	0	0	0	0	
3122	Tobacco	141	49	48	0	0	0	0	0	0	0	1	
313	Textile Mills	396	228	Q	0	Q	0	0	0	0	0	54	
314	Textile Product Mills	Q	Q	Q	0	0	0	0	0	0	0	0	
315	Apparel	Q	0	0	0	0	0	0	0	0	0	0	
316	Leather and Allied Products	42	19	19	0	0	0	0	0	0	0	0	
321	Wood Products	604	117	87	0	0	0	0	0	0	0	Q	
321113	Sawmills	58	58	28	0	0	0	0	0	0	0	Q	
3212	Veneer, Plywood, and Engineered Woods	64	59	59	0	0	0	0	0	0	0	0	
3219	Other Wood Products	Q	0	0	0	0	0	0	0	0	0	0	
322	Paper	14,528	8,539	6,873	189	417	492	0	0	0	141	427	
322110	Pulp Mills	1,796	1,131	1,073	0	0	58	0	0	0	0	0	
322121	Paper Mills, except Newsprint	7,521	5,290	4,449	0	0	434	0	0	0	5	402	
322122	Newsprint Mills	373	307	307	0	0	0	0	0	0	0	0	
322130	Paperboard Mills	4,555	1,779	1,012	189	417	0	0	0	0	136	25	
323	Printing and Related Support	Q	Q	*	0	0	0	0	0	0	0	Q	
324	Petroleum and Coal Products	9,198	903	802	0	0	88	0	12	0	0	0	
324110	Petroleum Refineries	8,292	903	802	0	0	88	0	12	0	0	0	
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0	0	0	0	0	
325	Chemicals	3,733	1,468	839	0	0	474	128	0	0	0	27	
325110	Petrochemicals	732	593	593	0	0	0	0	0	0	0	0	
325120	Industrial Gases	0	0	0	0	0	0	0	0	0	0	0	
325181	Alkalies and Chlorine	0	0	0	0	0	0	0	0	0	0	0	
325182	Carbon Black	72	0	0	0	0	0	0	0	0	0	0	
325188	Other Basic Inorganic Chemicals	1,406	622	148	0	0	474	0	0	0	0	0	
325192	Cyclic Crudes and Intermediates	93	8	8	0	0	0	0	0	0	0	0	
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0	0	0	
325199	Other Basic Organic Chemicals	254	59	32	0	0	0	0	0	0	0	27	
325211	Plastics Materials and Resins	58	0	0	0	0	0	0	0	0	0	0	
325212	Synthetic Rubber	5	0	0	0	0	0	0	0	0	0	0	
325222	Noncellulosic Organic Fibers	434	0	0	0	0	0	0	0	0	0	0	
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0	0	0	
325312	Phosphate Fertilizers	39	39	39	0	0	0	0	0	0	0	0	
3254	Pharmaceuticals and Medicines	173	128	*	0	0	0	128	0	0	0	0	
325412	Pharmaceutical Preparation	173	128	*	0	0	0	128	0	0	0	0	
325992	Photographic Film, Paper, Plate, and Chemicals	21	18	18	0	0	0	0	0	0	0	0	
326	Plastics and Rubber Products	1,414	Q	Q	0	0	0	0	0	0	0	0	
327	Nonmetallic Mineral Products	513	129	Q	0	0	0	0	0	0	81	17	
327211	Flat Glass	218	0	0	0	0	0	0	0	0	0	0	
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0	0	0	
327213	Glass Containers	0	0	0	0	0	0	0	0	0	0	0	
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0	0	0	0	
327310	Cements	156	98	0	0	0	0	0	0	0	81	17	
327410	Lime	60	0	0	0	0	0	0	0	0	0	0	
327420	Gypsum	*	0	0	0	0	0	0	0	0	0	0	
327993	Mineral Wool	0	0	0	0	0	0	0	0	0	0	0	
331	Primary Metals	3,097	545	15	530	0	0	0	0	0	0	0	

**Table 10.25 Reasons that Made Residual Fuel Oil Unswitchable, 2006;**

Level: National Data;

Row: NAICS Codes;

Column: Reasons that Made Quantity Unswitchable;

Unit: Million barrels.

Reasons that Made Residual Fuel Oil Unswitchable													
NAICS Code(a)	Subsector and Industry	Total Amount of Residual Fuel Oil Consumed as a Fuel	Total Amount of Unswitchable Residual Fuel Oil Use	Equipment is Not Capable of Using Another Fuel	Switching Aversely Affects the Products	Unavailable Fuel Supply	Environmental Restrictions(b)	Long-Term Contract in Place(c)	Unavailable Storage for Alternative Fuels	Another Column F, G, Reason	Combinations of H, I, J, and K	Don't Know	
331111	Iron and Steel Mills	3,042	539	10	530	0	0	0	0	0	0	0	
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0	0	
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0	0	0	0	
3313	Alumina and Aluminum	43	0	0	0	0	0	0	0	0	0	0	
331314	Secondary Smelting and Alloying of Aluminum	18	0	0	0	0	0	0	0	0	0	0	
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0	0	0	
331316	Aluminum Extruded Products	4	0	0	0	0	0	0	0	0	0	0	
3314	Nonferrous Metals, except Aluminum	10	3	3	0	0	0	0	0	0	0	0	
3315	Foundries	Q	Q	Q	0	0	0	0	0	0	0	0	
331511	Iron Foundries	*	0	0	0	0	0	0	0	0	0	0	
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0	0	0	0	
331524	Aluminum Foundries, except Die-Casting	Q	Q	Q	0	0	0	0	0	0	0	0	
332	Fabricated Metal Products	Q	Q	Q	0	0	0	0	0	0	0	9	
333	Machinery	Q	0	0	0	0	0	0	0	0	0	0	
334	Computer and Electronic Products	58	Q	Q	0	0	0	0	0	0	0	0	
334413	Semiconductors and Related Devices	4	4	4	0	0	0	0	0	0	0	0	
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0	0	0	
336	Transportation Equipment	1,038	194	192	0	1	*	0	*	0	0	Q	
336111	Automobiles	27	20	20	0	0	0	0	*	0	0	0	
336112	Light Trucks and Utility Vehicles	6	0	0	0	0	0	0	0	0	0	0	
3364	Aerospace Product and Parts	490	106	104	0	1	0	0	0	0	0	Q	
336411	Aircraft	1	1	0	0	1	0	0	0	0	0	0	
337	Furniture and Related Products	Q	*	*	0	0	0	0	0	0	0	0	
339	Miscellaneous	Q	*	*	0	0	0	0	0	0	0	0	
	Total	39,925	13,283	9,840	734	589	1,089	128	12	0	222	668	

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

(b) The environmental restrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.

(c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.

(d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.

NA=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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.3 Number of Establishments with Capability to Switch Natural Gas to Alternative Energy Sources, 2006;**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Energy Sources;  
 Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Natural Gas(b)			Alternative Energy Sources(c)						
		Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)
		Total United States									
311	Food	11,395	1,830	6,388	484	499	245	Q	555	0	203
3112	Grain and Oilseed Milling	445	90	322	0	49	13	3	28	0	7
311221	Wet Corn Milling	44	11	36	0	W	0	3	4	0	W
31131	Sugar Manufacturing	61	13	46	0	11	W	0	0	0	W
3114	Fruit and Vegetable Preserving and Specialty Foods	961	153	529	Q	61	15	0	23	0	Q
3115	Dairy Products	941	182	601	30	65	47	0	25	0	W
3116	Animal Slaughtering and Processing	1,542	361	1,022	Q	148	Q	0	79	0	94
312	Beverage and Tobacco Products	957	118	562	W	81	20	W	10	0	7
3121	Beverages	900	94	524	W	Q	10	W	4	0	7
3122	Tobacco	57	24	38	0	18	10	W	5	0	0
313	Textile Mills	1,532	426	948	Q	203	35	0	89	0	Q
314	Textile Product Mills	1,925	314	1,122	Q	140	Q	W	156	0	12
315	Apparel	2,977	237	1,621	W	170	0	0	0	0	0
316	Leather and Allied Products	392	42	206	Q	W	0	0	5	0	0
321	Wood Products	4,327	509	2,752	205	49	Q	W	199	0	97
321113	Sawmills	432	75	237	25	Q	5	0	Q	0	15
3212	Veneer, Plywood, and Engineered Woods	804	61	595	W	6	W	0	49	0	6
3219	Other Wood Products	2,908	352	1,806	142	5	9	W	131	0	76
322	Paper	3,215	616	2,048	180	222	157	29	123	W	21
322110	Pulp Mills	27	11	18	W	5	5	0	W	0	W
322121	Paper Mills, except Newsprint	241	95	179	11	33	42	14	10	0	11
322122	Newsprint Mills	14	5	9	W	5	W	0	0	0	0
322130	Paperboard Mills	176	76	124	10	34	30	13	7	W	5
323	Printing and Related Support	12,825	1,406	7,332	1,041	W	Q	0	312	0	0
324	Petroleum and Coal Products	996	226	736	19	65	24	0	107	0	42
324110	Petroleum Refineries	200	66	172	7	18	15	0	37	0	13
324199	Other Petroleum and Coal Products	41	5	28	W	W	0	W	0	W	0
325	Chemicals	6,398	923	4,677	380	413	193	Q	205	W	99
325110	Petrochemicals	37	8	29	W	W	0	W	0	W	0
325120	Industrial Gases	251	53	178	53	0	0	0	W	0	0
325181	Alkalies and Chlorine	26	9	23	W	4	0	0	W	0	W
325182	Carbon Black	23	6	21	0	W	W	0	0	0	0
325188	Other Basic Inorganic Chemicals	326	73	217	Q	Q	11	0	9	0	3
325192	Cyclic Crudes and Intermediates	23	5	13	W	3	W	0	0	0	W
325193	Ethyl Alcohol	64	9	48	0	5	W	W	5	0	W
325199	Other Basic Organic Chemicals	426	63	329	3	43	10	3	4	0	4
325211	Plastics Materials and Resins	510	107	352	W	77	12	0	Q	0	3
325212	Synthetic Rubber	70	20	47	6	10	4	0	W	0	W
325222	Noncellulosic Organic Fibers	63	32	36	W	15	11	0	7	0	W
325311	Nitrogenous Fertilizers	47	4	42	W	W	0	0	0	0	0
325312	Phosphatic Fertilizers	25	W	21	0	W	W	0	W	0	W
3254	Pharmaceuticals and Medicines	878	116	552	6	74	24	W	11	0	W
325412	Pharmaceutical Preparation	452	81	337	6	52	24	W	7	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	107	25	70	Q	12	W	0	4	0	0
326	Plastics and Rubber Products	7,669	1,377	4,874	670	338	97	0	411	0	Q
327	Nonmetallic Mineral Products	6,449	900	4,068	331	84	Q	Q	527	W	10
327211	Flat Glass	41	18	23	0	9	0	0	10	0	W
327212	Other Pressed and Blown Glass and Glassware	113	26	60	0	W	0	0	24	0	W
327213	Glass Containers	55	19	42	10	7	W	0	15	0	0
327215	Glass Products from Purchased Glass	495	49	338	18	0	W	W	17	0	0
327310	Cements	93	22	76	3	7	3	9	3	W	W
327410	Lime	40	W	33	0	W	W	W	W	0	0
327420	Gypsum	112	18	100	W	W	W	0	W	0	0
327993	Mineral Wool	156	8	132	W	W	0	0	4	0	0
331	Primary Metals	2,916	387	2,012	161	74	38	6	209	6	12
331111	Iron and Steel Mills	300	43	227	13	7	W	W	13	W	6
331112	Electrometallurgical Ferroalloy Products	18	W	14	W	0	0	0	0	0	0

**Table 10.3 Number of Establishments with Capability to Switch Natural Gas to Alternative Energy Sources, 2006;**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Energy Sources;  
 Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Natural Gas(b)			Alternative Energy Sources(c)						
		Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)
3312	Steel Products from Purchased Steel	390	71	268	41	29	21	W	35	W	0
3313	Alumina and Aluminum	362	63	259	16	20	7	0	31	0	W
331314	Secondary Smelting and Alloying of Aluminum	90	8	62	4	W	0	0	W	0	0
331315	Aluminum Sheet, Plate and Foils	54	7	45	W	5	W	0	W	0	0
331316	Aluminum Extruded Products	142	22	97	W	W	W	0	15	0	W
3314	Nonferrous Metals, except Aluminum	453	W	305	W	9	W	0	16	0	0
3315	Foundries	1,393	171	941	84	9	W	W	114	0	W
331511	Iron Foundries	333	46	269	8	4	W	W	39	0	W
331521	Aluminum Die-Casting Foundries	172	29	103	9	W	3	0	20	0	W
331524	Aluminum Foundries, except Die-Casting	279	34	183	18	W	0	0	10	0	0
332	Fabricated Metal Products	25,150	3,212	15,608	1,861	320	318	W	1,269	0	Q
333	Machinery	12,891	1,479	7,665	1,020	48	Q	0	Q	0	Q
334	Computer and Electronic Products	5,323	688	3,191	484	62	Q	0	218	0	Q
334413	Semiconductors and Related Devices	462	60	294	40	19	W	0	W	0	W
335	Electrical Equip., Appliances, and Components	2,818	353	1,913	234	26	57	W	144	W	W
336	Transportation Equipment	5,434	667	3,722	391	35	W	W	390	W	12
336111	Automobiles	68	14	52	6	5	W	0	W	W	0
336112	Light Trucks and Utility Vehicles	42	14	29	0	4	W	0	8	0	W
3364	Aerospace Product and Parts	671	120	448	Q	16	6	W	Q	0	4
336411	Aircraft	78	9	53	W	5	W	0	5	0	W
337	Furniture and Related Products	6,753	677	3,125	530	Q	0	W	223	W	W
339	Miscellaneous	9,609	1,184	5,486	967	W	W	0	Q	0	0
	Total	131,949	17,573	80,056	9,220	2,942	1,574	334	5,491	Q	1,057

(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 2006.

(c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for natural gas during 2006. 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=Not 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, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2006;**

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)
<b>Total United States</b>											
311	Food	4,124	2,134	454	0	1,896	284	0	Q	0	Q
3112	Grain and Oilseed Milling	260	186	45	0	186	0	0	0	0	0
311221	Wet Corn Milling	27	0	27	0	0	0	0	0	0	0
31131	Sugar Manufacturing	1,359	162	48	0	162	16	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	393	249	27	0	152	134	0	Q	0	0
3115	Dairy Products	209	Q	Q	0	Q	Q	0	Q	0	0
3116	Animal Slaughtering and Processing	539	324	172	0	274	0	0	0	0	Q
312	Beverage and Tobacco Products	431	325	107	0	325	58	0	0	0	0
3121	Beverages	290	232	58	0	232	0	0	0	0	0
3122	Tobacco	141	93	49	0	93	58	0	0	0	0
313	Textile Mills	396	164	228	0	164	0	0	0	0	0
314	Textile Product Mills	Q	36	Q	0	35	Q	0	0	0	0
315	Apparel	Q	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	42	0	19	0	0	0	0	0	0	0
321	Wood Products	604	427	117	0	355	427	0	0	0	Q
321113	Sawmills	58	0	58	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	64	0	59	0	0	0	0	0	0	0
3219	Other Wood Products	Q	Q	0	0	0	Q	0	0	0	Q
322	Paper	14,528	4,748	8,539	851	3,507	692	660	64	0	97
322110	Pulp Mills	1,796	238	1,131	0	228	10	0	2	0	14
322121	Paper Mills, except Newsprint	7,521	2,134	5,290	850	1,371	156	200	62	0	42
322122	Newsprint Mills	373	0	307	0	0	0	0	0	0	0
322130	Paperboard Mills	4,555	2,304	1,779	1	1,836	526	460	0	0	42
323	Printing and Related Support	Q	0	Q	0	0	0	0	0	0	0
324	Petroleum and Coal Products	9,198	2,121	903	0	429	1,542	0	404	0	19
324110	Petroleum Refineries	8,292	1,244	903	0	429	665	0	404	0	19
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0	0	0	0
325	Chemicals	3,733	2,015	1,468	0	1,799	403	16	0	0	0
325110	Petrochemicals	732	138	593	0	138	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0	0	0	0	0	0	0
325182	Carbon Black	72	72	0	0	72	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	1,406	777	622	0	777	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	93	85	8	0	0	85	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	254	162	59	0	110	65	0	0	0	0
325211	Plastics Materials and Resins	58	58	0	0	58	0	0	0	0	0
325212	Synthetic Rubber	5	5	0	0	2	3	0	0	0	0
325222	Noncellulosic Organic Fibers	434	434	0	0	357	231	16	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	39	0	39	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	173	41	128	0	41	20	0	0	0	0
325412	Pharmaceutical Preparation	173	41	128	0	41	20	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	21	3	18	0	3	0	0	0	0	0
326	Plastics and Rubber Products	1,414	885	Q	0	665	Q	0	0	0	0
327	Nonmetallic Mineral Products	513	384	129	*	130	219	5	*	35	0
327211	Flat Glass	218	218	0	0	0	218	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0	0	0
327310	Cements	156	58	98	*	23	0	5	*	35	0
327410	Lime	60	60	0	0	58	2	0	0	0	0
327420	Gypsum	*	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0	0
331	Primary Metals	3,097	510	545	0	510	0	0	0	0	0

**Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2006:**

## Level: National Data and Regional Totals

**Row: NAICS Codes, Value of Shipments and Employment Sizes:**

### Row: K-1200 Codes, Value

### Column: Energy Sources, Unit: Thousand Barrels

NAICS Code(d)	Subsector and Industry	Residual Fuel Oil			Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
331111	Iron and Steel Mills	3,042	478	539	0	478	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum	43	26	0	0	26	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	18	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	4	4	0	0	4	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	10	6	3	0	6	0	0	0	0	0
3315	Foundries	Q	0	Q	0	0	0	0	0	0	0
331511	Iron Foundries	*	0	0	0	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	Q	0	Q	0	0	0	0	0	0	0
332	Fabricated Metal Products	Q	0	Q	0	0	0	0	0	0	0
333	Machinery	Q	Q	0	0	Q	0	0	0	0	0
334	Computer and Electronic Products	58	45	Q	0	45	Q	0	0	0	0
334413	Semiconductors and Related Devices	4	0	4	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	1,038	427	194	0	427	0	0	0	0	0
336111	Automobiles	27	7	20	0	7	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	6	6	0	0	6	0	0	0	0	0
3364	Aerospace Product and Parts	490	348	106	0	348	0	0	0	0	0
336411	Aircraft	1	0	1	0	0	0	0	0	0	0
337	Furniture and Related Products	Q	Q	*	0	0	Q	0	0	0	0
339	Miscellaneous	Q	Q	*	0	Q	Q	0	0	0	0
	Total	39,925	14,750	13,283	851	10,660	4,057	681	645	35	23

## **Northeast Census Region**

**Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Thousand Barrels.**

NAICS Code(a)	Subsector and Industry	Residual Fuel Oil			Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Distillate Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
325188	Other Basic Inorganic Chemicals	826	697	122	0	697	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	77	53	24	0	1	52	0	0	0	0
325211	Plastics Materials and Resins	19	19	0	0	19	0	0	0	0	0
325212	Synthetic Rubber	0	0	0	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	9	9	0	0	9	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	152	Q	128	0	Q	0	0	0	0	0
325412	Pharmaceutical Preparation	152	Q	128	0	Q	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	21	3	18	0	3	0	0	0	0	0
326	Plastics and Rubber Products	Q	Q	Q	0	Q	0	0	0	0	0
327	Nonmetallic Mineral Products	214	Q	129	0	Q	2	0	0	35	0
327211	Flat Glass	0	0	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0	0	0
327310	Cements	133	35	98	0	0	0	0	0	35	0
327410	Lime	2	2	0	0	0	2	0	0	0	0
327420	Gypsum	*	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0	0
331	Primary Metals	55	32	5	0	32	0	0	0	0	0
331111	Iron and Steel Mills	0	0	0	0	0	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum	43	26	0	0	26	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	18	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	4	4	0	0	4	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	10	6	3	0	6	0	0	0	0	0
3315	Foundries	Q	0	Q	0	0	0	0	0	0	0
331511	Iron Foundries	*	0	0	0	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	Q	0	Q	0	0	0	0	0	0	0
332	Fabricated Metal Products	9	0	9	0	0	0	0	0	0	0
333	Machinery	Q	Q	0	0	Q	0	0	0	0	0
334	Computer and Electronic Products	58	45	Q	0	45	Q	0	0	0	0
334413	Semiconductors and Related Devices	4	0	4	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	410	305	105	0	305	0	0	0	0	0
336111	Automobiles	0	0	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	410	305	105	0	305	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	Q	Q	*	0	0	Q	0	0	0	0
339	Miscellaneous	Q	Q	*	0	0	Q	0	0	0	0
	Total	10,195	4,878	4,321	724	3,115	1,298	62	249	35	0

**Midwest Census Region**

311	Food	1,813	Q	177	0	Q	Q	0	Q	0	0
3112	Grain and Oilseed Milling	175	159	16	0	159	0	0	0	0	0
311221	Wet Corn Milling	0	0	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	210	162	48	0	162	16	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	117	0	0	0	0	0	0	0	0	0
3115	Dairy Products	Q	Q	16	0	0	Q	0	Q	0	0
3116	Animal Slaughtering and Processing	301	205	Q	0	205	0	0	0	0	0
312	Beverage and Tobacco Products	117	117	0	0	117	0	0	0	0	0
3121	Beverages	117	117	0	0	117	0	0	0	0	0

**Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2006;**

### Level: National Data and Regional Totals

**Row: NAICS Codes, Value of Shipments and Employment Sizes:**

### Row Titles (e.g., Value Column: Energy Sources:)

## Column: Energy sources; Unit: Thousand Barrels

**Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2006**

### Level: National Data and Regional Totals

**Row: NAICS Codes, Value of Shipments and Employment Sizes**

### Column: Energy Sources:

### Column: Energy Sources, Unit: Thousand Barrels

**Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2006;****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)
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0	0	0
327310	Cements	23	23	0	*	23	0	5	*	0	0
327410	Lime	0	0	0	0	0	0	0	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0	0
331	Primary Metals	577	478	10	0	478	0	0	0	0	0
331111	Iron and Steel Mills	577	478	10	0	478	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0
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
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	0	0	0	0	0	0	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0	0	0
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	Q	0	Q	0	0	0	0	0	0	0
333	Machinery	0	0	0	0	0	0	0	0	0	0
334	Computer and Electronic Products	0	0	0	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	451	13	21	0	13	0	0	0	0	0
336111	Automobiles	27	7	20	0	7	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	6	6	0	0	6	0	0	0	0	0
3364	Aerospace Product and Parts	38	0	1	0	0	0	0	0	0	0
336411	Aircraft	1	0	1	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0	0	0
	Total	20,887	5,556	6,791	1	4,415	1,404	493	*	0	179

**West Census Region**

311	Food	112	112	0	0	112	0	0	Q	0	0
3112	Grain and Oilseed Milling	0	0	0	0	0	0	0	0	0	0
311221	Wet Corn Milling	0	0	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	0	0	0	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	112	112	0	0	112	0	0	Q	0	0
3115	Dairy Products	0	0	0	0	0	0	0	0	0	0
3116	Animal Slaughtering and Processing	0	0	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	0	0	0	0	0	0	0	0	0	0
3121	Beverages	0	0	0	0	0	0	0	0	0	0
3122	Tobacco	0	0	0	0	0	0	0	0	0	0
313	Textile Mills	0	0	0	0	0	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0	0	0	0
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	428	355	24	0	355	355	0	0	0	0
321113	Sawmills	24	0	24	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	0	0	0	0	0	0	0	0	0	0
3219	Other Wood Products	*	0	0	0	0	0	0	0	0	0
322	Paper	834	277	465	0	275	0	0	2	0	16
322110	Pulp Mills	40	40	0	0	40	0	0	2	0	14
322121	Paper Mills, except Newsprint	546	101	418	0	99	0	0	0	0	2
322122	Newsprint Mills	66	0	0	0	0	0	0	0	0	0
322130	Paperboard Mills	181	135	46	0	135	0	0	0	0	0
323	Printing and Related Support	0	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	1,217	828	285	0	65	566	0	217	0	19

**Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2006;****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)
324110	Petroleum Refineries	1,055	666	285	0	65	403	0	217	0	19
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0	0	0	0
325	Chemicals	26	0	26	0	0	0	0	0	0	0
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	0	0	0	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	26	0	26	0	0	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	0	0	0	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	0	0	0	0	0	0	0	0	0	0
325212	Synthetic Rubber	0	0	0	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	0	0	0	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	0	0	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	276	276	0	0	58	218	0	0	0	0
327211	Flat Glass	218	218	0	0	0	218	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0	0	0
327310	Cements	0	0	0	0	0	0	0	0	0	0
327410	Lime	58	58	0	0	58	0	0	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0	0
331	Primary Metals	0	0	0	0	0	0	0	0	0	0
331111	Iron and Steel Mills	0	0	0	0	0	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0
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
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	0	0	0	0	0	0	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
333	Machinery	0	0	0	0	0	0	0	0	0	0
334	Computer and Electronic Products	0	0	0	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	0	0	0	0	0	0	0	0	0	0
336111	Automobiles	0	0	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	0	0	0	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0	0	0
	Total	2,894	1,848	800	0	865	1,138	0	305	0	35

**Economic Characteristic (f)**

**Table 10.4 Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2006;**

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)
<b>Value of Shipments and Receipts (million dollars)</b>											
Under 20		3,619	2,568	946	*	1,682	1,203	0	*	0	Q
20-49		2,090	968	887	*	569	408	*	Q	35	0
50-99		3,470	1,963	1,198	0	1,524	477	5	0	0	2
100-249		4,031	1,201	2,427	62	862	395	62	64	0	45
250-499		8,364	2,697	3,992	0	2,227	602	482	0	0	0
500 and Over		18,351	5,353	3,833	789	3,796	971	132	404	0	70
Total		39,925	14,750	13,283	851	10,660	4,057	681	645	35	239
<b>Employment Size</b>											
Under 50		1,552	1,176	105	*	296	928	0	Q	0	Q
50-99		2,953	1,868	1,070	0	1,681	481	*	0	35	Q
100-249		5,984	3,286	2,086	*	2,109	1,078	5	286	0	16
250-499		7,029	2,169	3,131	1	1,554	641	17	19	0	51
500-999		9,139	3,663	4,599	724	2,473	851	532	249	0	0
1000 and Over		13,269	2,588	2,292	126	2,548	77	126	0	0	50
Total		39,925	14,750	13,283	851	10,660	4,057	681	645	35	239

(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 2006. 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.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 10.5 Number of Establishments with Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2006**

Level: National Data;  
Row: NAICS Codes;  
Column: Energy Sour  
Unit: Establishment C

**Table 10.5 Number of Establishments with Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2006;**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Energy Sources;  
 Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Residual Fuel Oil(b)			Alternative Energy Sources(c)						
		Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum	4	W	0	0	W	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	W	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	W	W	0	0	W	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	W	W	W	0	W	0	0	0	0	0
3315	Foundries	W	0	W	0	0	0	0	0	0	0
331511	Iron Foundries	W	0	0	0	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	W	0	W	0	0	0	0	0	0	0
332	Fabricated Metal Products	Q	0	Q	0	0	0	0	0	0	0
333	Machinery	W	W	0	0	W	0	0	0	0	0
334	Computer and Electronic Products	7	6	5	0	6	W	0	0	0	0
334413	Semiconductors and Related Devices	W	0	W	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	111	18	89	0	18	0	0	0	0	0
336111	Automobiles	W	W	W	0	W	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	W	W	0	0	W	0	0	0	0	0
3364	Aerospace Product and Parts	Q	5	Q	0	5	0	0	0	0	0
336411	Aircraft	W	0	W	0	0	0	0	0	0	0
337	Furniture and Related Products	Q	W	W	0	0	W	0	0	0	0
339	Miscellaneous	Q	Q	W	0	W	W	0	0	0	0
	Total	2,000	839	838	10	540	347	13	27	W	Q

(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 2006.

(c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for residual fuel oil during 2006. 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.

NA=Not 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, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.6 Capability to Switch Electricity to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Million Kilowatthours.**

NAICS Code(a)	Subsector and Industry	Electricity Receipts			Alternative Energy Sources(b)						
		Total Receipts(c)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(d)
		Total United States									
311	Food	73,551	1,887	55,824	711	823	0	111	45	0	205
3112	Grain and Oilseed Milling	15,536	470	13,245	96	200	0	W	8	0	Q
311221	Wet Corn Milling	6,801	W	5,875	10	W	0	W	8	0	0
31131	Sugar Manufacturing	974	150	616	20	130	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	9,721	311	6,866	186	85	0	0	0	0	Q
3115	Dairy Products	10,079	344	7,361	Q	269	0	0	Q	0	41
3116	Animal Slaughtering and Processing	17,545	161	13,775	Q	36	0	0	0	0	Q
312	Beverage and Tobacco Products	8,822	779	6,018	Q	W	0	0	Q	0	131
3121	Beverages	7,572	779	4,810	Q	W	0	0	Q	0	131
3122	Tobacco	1,250	0	1,208	0	0	0	0	0	0	0
313	Textile Mills	19,486	Q	14,432	Q	0	Q	Q	0	0	0
314	Textile Product Mills	5,919	106	4,988	79	22	Q	0	Q	0	*
315	Apparel	2,013	Q	1,541	Q	Q	0	*	Q	0	0
316	Leather and Allied Products	413	2	315	2	0	0	0	1	0	0
321	Wood Products	27,564	286	21,260	Q	189	0	*	Q	0	31
321113	Sawmills	7,563	104	5,281	1	51	0	*	0	0	30
3212	Veneer, Plywood, and Engineered Woods	9,902	Q	7,601	0	0	0	0	Q	0	0
3219	Other Wood Products	9,736	148	8,096	Q	130	0	0	2	0	*
322	Paper	76,719	4,461	63,495	3,732	789	801	447	Q	25	519
322110	Pulp Mills	1,683	W	1,515	W	W	0	0	0	0	W
322121	Paper Mills, except Newsprint	25,561	1,487	21,624	1,002	75	459	329	0	25	W
322122	Newsprint Mills	9,294	299	6,430	294	5	0	0	0	0	0
322130	Paperboard Mills	23,515	2,384	19,223	2,228	624	342	92	0	0	330
323	Printing and Related Support	12,995	Q	8,281	Q	Q	0	0	0	0	0
324	Petroleum and Coal Products	43,983	2,738	36,773	2,143	441	261	0	550	0	317
324110	Petroleum Refineries	40,527	2,477	34,189	2,035	237	261	0	420	0	297
324199	Other Petroleum and Coal Products	594	21	549	1	0	0	0	0	0	20
325	Chemicals	158,176	3,922	116,287	1,159	689	315	756	Q	Q	282
325110	Petrochemicals	W	W	4,251	W	0	W	0	0	0	0
325120	Industrial Gases	20,925	*	9,872	0	*	0	0	0	0	0
325181	Alkalies and Chlorine	8,893	4	8,302	3	1	0	0	0	0	0
325182	Carbon Black	690	0	690	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	24,171	586	8,519	24	3	*	352	*	0	0
325192	Cyclic Crudes and Intermediates	2,566	0	592	0	0	0	0	0	0	0
325193	Ethyl Alcohol	2,717	116	2,002	53	61	0	39	0	0	37
325199	Other Basic Organic Chemicals	W	434	20,138	258	179	0	0	0	0	173
325211	Plastics Materials and Resins	20,536	25	18,583	Q	3	0	0	0	0	4
325212	Synthetic Rubber	1,715	12	1,234	12	4	0	0	4	0	0
325222	Noncellulosic Organic Fibers	4,911	517	4,329	6	17	W	307	0	0	8
325311	Nitrogenous Fertilizers	2,448	9	2,369	9	*	0	0	*	0	0
325312	Phosphatic Fertilizers	1,827	0	1,827	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	9,224	666	7,301	380	396	0	0	7	0	0
325412	Pharmaceutical Preparation	6,350	493	5,110	248	358	0	0	5	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	1,059	176	756	125	0	0	52	0	0	0
326	Plastics and Rubber Products	53,404	Q	37,726	Q	W	Q	0	Q	0	W
327	Nonmetallic Mineral Products	43,914	1,063	35,038	718	234	Q	0	128	0	W
327211	Flat Glass	1,903	72	1,565	0	72	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	5,121	19	Q	13	6	0	0	0	0	0
327213	Glass Containers	3,944	192	3,518	192	W	0	0	76	0	0
327215	Glass Products from Purchased Glass	3,670	46	2,886	Q	Q	0	0	0	0	Q
327310	Cements	12,931	414	11,120	322	12	0	0	0	0	W
327410	Lime	1,431	3	1,183	3	0	0	0	0	0	0
327420	Gypsum	1,845	0	1,757	0	0	0	0	0	0	0
327993	Mineral Wool	4,032	22	2,734	0	9	0	0	0	0	13
331	Primary Metals	136,216	6,534	111,967	1,071	231	267	4,856	88	12	27
331111	Iron and Steel Mills	51,381	984	43,551	724	2	258	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	3,178	4	2,120	2	2	0	0	0	0	0
3312	Steel Products from Purchased Steel	4,396	73	3,428	38	45	0	0	10	0	0
3313	Alumina and Aluminum	45,796	4,955	35,335	34	48	0	4,856	62	12	0
331314	Secondary Smelting and Alloying of Aluminum	611	11	473	1	11	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	3,871	12	2,916	12	0	0	12	0	12	0
331316	Aluminum Extruded Products	1,994	79	1,442	20	29	0	0	62	0	0
3314	Nonferrous Metals, except Aluminum	14,683	353	12,681	187	102	0	0	*	0	Q
3315	Foundries	16,781	165	14,852	87	31	9	0	17	0	26

**Table 10.6 Capability to Switch Electricity to Alternative Energy Sources, 2006;**

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)
331511	Iron Foundries	8,563	94	8,047	70	11	0	0	2	0	11
331521	Aluminum Die-Casting Foundries	1,937	23	1,644	6	W	9	0	0	0	8
331524	Aluminum Foundries, except Die-Casting	1,134	45	843	8	W	0	0	15	0	7
332	Fabricated Metal Products	41,965	2,784	30,508	Q	Q	Q	0	Q	0	Q
333	Machinery	32,394	205	17,757	Q	Q	0	59	W	0	Q
334	Computer and Electronic Products	27,508	Q	20,094	81	Q	Q	0	Q	0	Q
334413	Semiconductors and Related Devices	12,746	124	11,308	6	114	0	0	0	0	4
335	Electrical Equip., Appliances, and Components	12,869	Q	9,373	Q	Q	Q	Q	Q	Q	Q
336	Transportation Equipment	57,250	972	44,838	592	366	120	0	174	0	153
336111	Automobiles	3,899	1	2,813	*	1	0	0	*	0	0
336112	Light Trucks and Utility Vehicles	4,495	0	3,920	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	11,519	676	8,742	401	259	120	0	102	0	149
336411	Aircraft	3,446	272	2,994	252	113	120	0	102	0	109
337	Furniture and Related Products	9,264	30	4,544	Q	0	W	0	Q	0	0
339	Miscellaneous	9,677	Q	6,532	Q	W	Q	W	0	Q	0
	Total	854,102	28,025	647,591	11,844	6,066	2,349	6,456	1,724	50	3,224

**Northeast Census Region**

311	Food	5,445	82	4,217	Q	9	0	0	Q	0	41
3112	Grain and Oilseed Milling	511	0	396	0	0	0	0	0	0	0
311221	Wet Corn Milling	11	0	11	0	0	0	0	0	0	0
31131	Sugar Manufacturing	6	0	0	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	690	0	577	0	0	0	0	0	0	0
3115	Dairy Products	1,223	75	888	0	6	0	0	Q	0	41
3116	Animal Slaughtering and Processing	586	0	391	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	1,112	210	645	Q	W	0	0	0	0	W
3121	Beverages	1,090	210	626	Q	W	0	0	0	0	W
3122	Tobacco	23	0	19	0	0	0	0	0	0	0
313	Textile Mills	1,378	Q	878	Q	0	Q	0	0	0	0
314	Textile Product Mills	485	0	356	0	0	0	0	0	0	0
315	Apparel	132	Q	49	Q	0	0	0	0	0	0
316	Leather and Allied Products	175	Q	148	Q	0	0	0	0	0	0
321	Wood Products	1,804	42	1,233	0	32	0	0	0	0	2
321113	Sawmills	522	42	371	0	32	0	0	0	0	2
3212	Veneer, Plywood, and Engineered Woods	564	0	432	0	0	0	0	0	0	0
3219	Other Wood Products	704	0	420	0	0	0	0	0	0	0
322	Paper	8,321	322	6,791	36	12	277	14	Q	0	0
322110	Pulp Mills	W	0	3	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	4,365	279	3,928	12	12	277	14	0	0	0
322122	Newsprint Mills	305	0	305	0	0	0	0	0	0	0
322130	Paperboard Mills	1,159	6	718	6	0	0	0	0	0	0
323	Printing and Related Support	1,863	Q	1,323	Q	0	0	0	0	0	0
324	Petroleum and Coal Products	4,095	346	3,682	W	W	W	0	322	0	0
324110	Petroleum Refineries	3,214	W	W	W	W	W	0	W	0	0
324199	Other Petroleum and Coal Products	282	1	270	1	0	0	0	0	0	0
325	Chemicals	11,141	405	8,199	283	67	0	52	0	0	Q
325110	Petrochemicals	19	5	9	5	0	0	0	0	0	0
325120	Industrial Gases	2,048	0	869	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	1,664	0	1,664	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	866	0	746	0	0	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	178	0	178	0	0	0	0	0	0	0
325193	Ethyl Alcohol	1	0	1	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	592	Q	534	0	0	0	0	0	0	Q
325211	Plastics Materials and Resins	1,078	0	778	0	0	0	0	0	0	0
325212	Synthetic Rubber	56	0	54	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	53	0	29	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	39	*	39	*	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	3,010	285	2,200	272	67	0	0	0	0	0
325412	Pharmaceutical Preparation	2,024	159	1,542	146	67	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	310	57	248	6	0	0	52	0	0	0
326	Plastics and Rubber Products	6,856	Q	5,356	Q	W	Q	0	Q	0	W
327	Nonmetallic Mineral Products	5,373	204	4,210	W	40	W	0	34	0	W
327211	Flat Glass	352	1	W	0	1	0	0	0	0	0

**Table 10.6 Capability to Switch Electricity to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Million Kilowatthours.**

NAICS Code(a)	Subsector and Industry	Electricity Receipts			Alternative Energy Sources(b)						
		Total Receipts(c)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(d)
327212	Other Pressed and Blown Glass and Glassware	356	0	331	0	0	0	0	0	0	0
327213	Glass Containers	759	42	645	42	W	0	0	34	0	0
327215	Glass Products from Purchased Glass	374	W	330	*	W	W	0	0	0	0
327310	Cements	1,450	W	1,119	0	0	0	0	0	0	W
327410	Lime	77	0	77	0	0	0	0	0	0	0
327420	Gypsum	201	0	201	0	0	0	0	0	0	0
327993	Mineral Wool	395	0	338	0	0	0	0	0	0	0
331	Primary Metals	17,044	Q	16,153	*	W	0	0	*	0	0
331111	Iron and Steel Mills	7,573	*	7,329	*	0	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	644	11	443	0	11	0	0	0	0	0
3313	Alumina and Aluminum	5,384	0	5,313	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	39	0	15	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	511	0	511	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	288	0	241	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	2,256	Q	2,028	0	W	0	0	*	0	0
3315	Foundries	1,186	0	1,039	0	0	0	0	0	0	0
331511	Iron Foundries	551	0	454	0	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	137	0	137	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	109	0	92	0	0	0	0	0	0	0
332	Fabricated Metal Products	5,267	Q	4,306	Q	W	Q	0	Q	0	0
333	Machinery	5,066	Q	Q	0	0	0	0	0	0	Q
334	Computer and Electronic Products	5,015	124	4,113	Q	Q	Q	0	0	0	0
334413	Semiconductors and Related Devices	2,180	Q	2,024	*	Q	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	1,522	Q	1,034	Q	0	0	0	0	0	0
336	Transportation Equipment	6,703	104	Q	27	0	18	0	0	0	0
336111	Automobiles	1	0	1	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	*	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	1,098	104	888	27	0	18	0	0	0	0
336411	Aircraft	204	18	184	18	0	18	0	0	0	0
337	Furniture and Related Products	673	Q	395	Q	0	0	0	0	0	0
339	Miscellaneous	2,622	Q	1,652	Q	0	Q	0	Q	0	0
	Total	92,090	2,722	74,183	1,044	1,166	999	106	908	0	262

**Midwest Census Region**

311	Food	30,834	891	24,980	209	474	0	111	9	0	Q
3112	Grain and Oilseed Milling	11,421	435	9,915	96	200	0	W	8	0	25
311221	Wet Corn Milling	5,839	W	W	10	W	0	W	8	0	0
31131	Sugar Manufacturing	600	130	307	0	130	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	2,889	4	1,774	0	4	0	0	0	0	0
3115	Dairy Products	3,723	104	2,869	0	104	0	0	0	0	0
3116	Animal Slaughtering and Processing	6,846	108	5,986	Q	36	0	0	0	0	Q
312	Beverage and Tobacco Products	1,488	W	804	0	0	0	0	0	0	W
3121	Beverages	1,471	W	787	0	0	0	0	0	0	W
3122	Tobacco	17	0	17	0	0	0	0	0	0	0
313	Textile Mills	Q	0	Q	0	0	0	0	0	0	0
314	Textile Product Mills	Q	W	Q	W	0	0	0	*	0	*
315	Apparel	48	0	31	0	0	0	0	0	0	0
316	Leather and Allied Products	123	2	103	1	0	0	0	1	0	0
321	Wood Products	7,515	Q	6,527	0	Q	0	0	0	0	*
321113	Sawmills	344	Q	260	0	Q	0	0	0	0	*
3212	Veneer, Plywood, and Engineered Woods	1,149	0	733	0	0	0	0	0	0	0
3219	Other Wood Products	5,976	Q	5,497	0	Q	0	0	0	0	*
322	Paper	14,536	596	12,513	489	99	149	216	0	25	189
322110	Pulp Mills	160	W	W	0	0	0	0	0	0	W
322121	Paper Mills, except Newsprint	7,156	442	5,982	400	43	149	191	0	25	W
322122	Newsprint Mills	515	0	515	0	0	0	0	0	0	0
322130	Paperboard Mills	2,394	33	2,151	33	0	0	0	0	0	0
323	Printing and Related Support	5,222	W	3,489	W	Q	0	0	0	0	0
324	Petroleum and Coal Products	9,124	1,082	7,111	1,000	Q	6	0	W	0	W
324110	Petroleum Refineries	8,061	1,058	6,323	1,000	1	6	0	W	0	W
324199	Other Petroleum and Coal Products	57	0	56	0	0	0	0	0	0	0
325	Chemicals	41,376	225	34,300	49	137	*	39	Q	0	37
325110	Petrochemicals	276	0	276	0	0	0	0	0	0	0
325120	Industrial Gases	7,264	0	3,822	0	0	0	0	0	0	0

**Table 10.6 Capability to Switch Electricity to Alternative Energy Sources, 2006;****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)
325181	Alkalies and Chlorine	209	1	207	0	1	0	0	0	0	0
325182	Carbon Black	62	0	62	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	1,248	4	1,108	4	0	*	0	*	0	0
325192	Cyclic Crudes and Intermediates	193	0	W	0	0	0	0	0	0	0
325193	Ethyl Alcohol	2,624	100	1,931	37	61	0	39	0	0	37
325199	Other Basic Organic Chemicals	4,013	0	3,480	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	3,610	3	3,534	0	3	0	0	0	0	0
325212	Synthetic Rubber	260	4	33	4	4	0	0	4	0	0
325222	Noncellulosic Organic Fibers	5	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	544	0	479	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	*	0	*	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	2,775	78	2,507	3	67	0	0	7	0	0
325412	Pharmaceutical Preparation	2,142	49	2,006	0	44	0	0	5	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	149	1	87	1	0	0	0	0	0	0
326	Plastics and Rubber Products	23,080	Q	15,861	Q	0	0	0	0	0	Q
327	Nonmetallic Mineral Products	12,906	112	10,351	83	30	0	0	18	0	0
327211	Flat Glass	465	W	W	0	W	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	Q	13	Q	13	0	0	0	0	0	0
327213	Glass Containers	885	42	843	42	0	0	0	18	0	0
327215	Glass Products from Purchased Glass	1,708	W	1,345	0	W	0	0	0	0	0
327310	Cements	3,177	W	2,501	24	0	0	0	0	0	0
327410	Lime	459	3	454	3	0	0	0	0	0	0
327420	Gypsum	399	0	399	0	0	0	0	0	0	0
327993	Mineral Wool	1,683	9	1,157	0	9	0	0	0	0	0
331	Primary Metals	47,081	1,168	38,673	805	102	258	12	38	12	21
331111	Iron and Steel Mills	20,686	982	15,609	724	1	258	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	2,147	4	1,092	2	2	0	0	0	0	0
3312	Steel Products from Purchased Steel	2,067	37	1,810	12	34	0	0	10	0	0
3313	Alumina and Aluminum	7,220	60	6,429	33	39	0	12	28	12	0
331314	Secondary Smelting and Alloying of Aluminum	257	2	204	1	2	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	1,178	12	W	12	0	0	12	0	12	0
331316	Aluminum Extruded Products	760	37	462	20	29	0	0	28	0	0
3314	Nonferrous Metals, except Aluminum	5,051	W	4,886	Q	W	0	0	0	0	0
3315	Foundries	9,909	W	8,847	30	W	0	0	0	0	21
331511	Iron Foundries	5,345	36	5,163	16	9	0	0	0	0	11
331521	Aluminum Die-Casting Foundries	1,424	8	1,257	5	0	0	0	0	0	Q
331524	Aluminum Foundries, except Die-Casting	616	26	431	5	9	0	0	0	0	7
332	Fabricated Metal Products	17,626	Q	12,905	Q	Q	0	0	Q	0	W
333	Machinery	18,701	191	7,608	Q	Q	0	57	W	0	Q
334	Computer and Electronic Products	4,232	Q	2,429	Q	Q	0	0	Q	0	0
334413	Semiconductors and Related Devices	645	0	598	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	4,300	Q	3,322	Q	Q	Q	Q	Q	Q	Q
336	Transportation Equipment	29,735	353	25,409	227	Q	0	0	0	0	2
336111	Automobiles	2,324	0	2,062	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	2,468	0	2,039	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	2,017	134	1,763	112	3	0	0	0	0	2
336411	Aircraft	804	33	767	28	3	0	0	0	0	2
337	Furniture and Related Products	2,935	0	2,018	0	0	0	0	0	0	0
339	Miscellaneous	2,719	Q	1,745	Q	Q	0	0	0	0	0
	Total	273,828	7,790	210,399	3,804	1,770	433	442	325	44	1,878

**South Census Region**

311	Food	24,201	446	16,397	298	113	0	0	0	0	Q
3112	Grain and Oilseed Milling	3,027	Q	2,465	0	0	0	0	0	0	Q
311221	Wet Corn Milling	885	0	W	0	0	0	0	0	0	0
31131	Sugar Manufacturing	143	20	92	20	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	2,309	12	1,481	12	0	0	0	0	0	0
3115	Dairy Products	1,399	63	522	0	63	0	0	0	0	0
3116	Animal Slaughtering and Processing	8,550	Q	6,225	Q	*	0	0	0	0	0
312	Beverage and Tobacco Products	4,124	332	2,904	0	W	0	0	Q	0	0
3121	Beverages	2,914	332	1,732	0	W	0	0	Q	0	0
3122	Tobacco	1,210	0	1,172	0	0	0	0	0	0	0
313	Textile Mills	17,917	Q	13,499	0	0	0	Q	0	0	0
314	Textile Product Mills	5,145	W	4,362	W	22	Q	0	*	0	0
315	Apparel	1,686	Q	1,378	Q	Q	0	*	Q	0	0

**Table 10.6 Capability to Switch Electricity to Alternative Energy Sources, 2006;****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)
316	Leather and Allied Products	93	0	49	0	0	0	0	0	0	0
321	Wood Products	12,145	100	9,169	Q	55	0	*	9	0	6
321113	Sawmills	3,674	28	2,520	*	Q	0	*	0	0	6
3212	Veneer, Plywood, and Engineered Woods	6,140	0	5,113	0	0	0	0	0	0	0
3219	Other Wood Products	2,112	63	1,376	Q	Q	0	0	2	0	0
322	Paper	36,288	1,999	30,147	1,690	209	375	217	0	0	330
322110	Pulp Mills	W	W	1,213	W	W	0	0	0	0	0
322121	Paper Mills, except Newsprint	10,805	746	9,026	591	0	33	124	0	0	0
322122	Newsprint Mills	3,468	0	1,488	0	0	0	0	0	0	0
322130	Paperboard Mills	12,651	1,122	10,909	967	W	342	92	0	0	330
323	Printing and Related Support	5,002	W	3,103	W	0	0	0	0	0	0
324	Petroleum and Coal Products	23,782	811	19,821	640	69	0	0	0	0	W
324110	Petroleum Refineries	22,800	732	19,075	615	35	0	0	0	0	W
324199	Other Petroleum and Coal Products	233	20	204	*	0	0	0	0	0	20
325	Chemicals	96,272	2,824	66,768	665	479	W	659	W	0	84
325110	Petrochemicals	W	W	3,964	W	0	W	0	0	0	0
325120	Industrial Gases	9,514	*	3,937	0	*	0	0	0	0	0
325181	Alkalies and Chlorine	5,691	3	5,102	3	0	0	0	0	0	0
325182	Carbon Black	628	0	628	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	18,994	355	4,595	0	3	0	352	0	0	0
325192	Cyclic Crudes and Intermediates	2,191	0	W	0	0	0	0	0	0	0
325193	Ethyl Alcohol	47	0	42	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	W	279	16,031	258	179	0	0	0	0	18
325211	Plastics Materials and Resins	15,614	22	14,064	Q	0	0	0	0	0	4
325212	Synthetic Rubber	1,380	8	1,135	8	*	0	0	*	0	0
325222	Noncellulosic Organic Fibers	4,853	517	4,301	6	17	W	307	0	0	8
325311	Nitrogenous Fertilizers	1,640	9	1,631	9	0	0	0	0	0	0
325312	Phosphatic Fertilizers	W	0	W	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	2,427	299	1,725	101	261	0	0	0	0	0
325412	Pharmaceutical Preparation	1,596	285	1,074	101	247	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	230	0	0	0	0	0	0	0
326	Plastics and Rubber Products	19,701	Q	14,486	Q	0	*	0	0	0	0
327	Nonmetallic Mineral Products	19,041	692	14,783	464	162	W	0	Q	0	13
327211	Flat Glass	868	W	624	0	W	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	1,746	6	905	0	6	0	0	0	0	0
327213	Glass Containers	1,341	65	1,115	65	0	0	0	23	0	0
327215	Glass Products from Purchased Glass	1,299	Q	991	Q	W	0	0	0	Q	0
327310	Cements	5,406	303	4,974	291	12	0	0	0	0	0
327410	Lime	648	0	405	0	0	0	0	0	0	0
327420	Gypsum	848	0	761	0	0	0	0	0	0	0
327993	Mineral Wool	1,416	13	842	0	0	0	0	0	0	13
331	Primary Metals	59,919	5,107	46,173	W	107	9	4,844	33	0	6
331111	Iron and Steel Mills	19,830	2	17,668	*	2	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	1,028	0	1,028	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	1,504	Q	1,017	Q	0	0	0	0	0	0
3313	Alumina and Aluminum	29,070	4,886	19,501	*	0	0	4,844	33	0	0
331314	Secondary Smelting and Alloying of Aluminum	269	0	232	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	1,888	0	1,360	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	708	42	502	0	0	0	0	33	0	0
3314	Nonferrous Metals, except Aluminum	3,662	W	2,678	W	W	0	0	0	0	Q
3315	Foundries	4,825	W	4,282	56	W	9	0	0	0	5
331511	Iron Foundries	2,541	53	2,342	53	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	331	15	205	0	W	9	0	0	0	5
331524	Aluminum Foundries, except Die-Casting	330	W	273	3	W	0	0	0	0	0
332	Fabricated Metal Products	13,937	581	8,853	Q	W	0	0	0	0	W
333	Machinery	7,234	0	5,679	0	0	0	0	0	0	0
334	Computer and Electronic Products	7,673	85	5,161	Q	50	0	0	0	0	4
334413	Semiconductors and Related Devices	3,356	10	2,900	6	0	0	0	0	0	4
335	Electrical Equip., Appliances, and Components	6,326	Q	4,705	Q	0	0	0	0	0	0
336	Transportation Equipment	15,678	399	9,969	230	154	0	0	Q	0	Q
336111	Automobiles	1,360	*	W	0	0	0	0	*	0	0
336112	Light Trucks and Utility Vehicles	2,026	0	1,881	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	4,253	329	3,132	161	154	0	0	0	0	Q
336411	Aircraft	1,502	113	1,341	104	8	0	0	0	0	0
337	Furniture and Related Products	5,112	Q	1,759	Q	0	W	0	Q	0	0
339	Miscellaneous	2,720	W	1,763	W	Q	W	0	W	0	Q
	Total	383,995	13,761	280,929	4,544	1,989	739	5,901	290	0	633

**Table 10.6 Capability to Switch Electricity to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Million Kilowatthours.**

NAICS Code(a)	Subsector and Industry	Electricity Receipts		Alternative Energy Sources(b)							
		Total Receipts(c)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(d)
<b>West Census Region</b>											
311	Food	13,071	468	10,230	203	227	0	0	4	0	Q
3112	Grain and Oilseed Milling	578	0	470	0	0	0	0	0	0	0
311221	Wet Corn Milling	65	0	65	0	0	0	0	0	0	0
31131	Sugar Manufacturing	225	0	217	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	3,834	295	3,034	174	81	0	0	0	0	Q
3115	Dairy Products	3,734	103	Q	Q	Q	0	0	3	0	0
3116	Animal Slaughtering and Processing	1,563	0	1,173	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	2,097	W	1,665	0	W	0	0	0	0	Q
3121	Beverages	2,097	W	1,665	0	W	0	0	0	0	Q
3122	Tobacco	0	0	0	0	0	0	0	0	0	0
313	Textile Mills	Q	0	Q	0	0	0	0	0	0	0
314	Textile Product Mills	103	0	100	0	0	0	0	0	0	0
315	Apparel	147	0	83	0	0	0	0	0	0	0
316	Leather and Allied Products	22	*	14	*	0	0	0	*	0	0
321	Wood Products	6,100	57	4,332	1	17	0	0	Q	0	23
321113	Sawmills	3,023	33	2,129	1	9	0	0	0	0	23
3212	Veneer, Plywood, and Engineered Woods	2,049	Q	1,323	0	0	0	0	Q	0	0
3219	Other Wood Products	943	0	803	0	0	0	0	0	0	0
322	Paper	17,574	1,543	14,044	1,517	469	0	0	0	0	0
322110	Pulp Mills	W	0	W	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	3,234	21	2,688	0	21	0	0	0	0	0
322122	Newsprint Mills	5,006	299	4,122	294	5	0	0	0	0	0
322130	Paperboard Mills	7,311	1,223	5,444	1,223	W	0	0	0	0	0
323	Printing and Related Support	908	Q	366	0	0	0	0	0	0	0
324	Petroleum and Coal Products	6,983	499	6,159	W	W	W	0	W	0	162
324110	Petroleum Refineries	6,453	W	W	W	W	W	0	W	0	162
324199	Other Petroleum and Coal Products	22	0	19	0	0	0	0	0	0	0
325	Chemicals	9,387	468	7,019	163	Q	W	Q	W	Q	103
325110	Petrochemicals	2	0	2	0	0	0	0	0	0	0
325120	Industrial Gases	2,099	0	1,243	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	1,329	0	1,329	0	0	0	0	0	0	0
325182	Carbon Black	*	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	3,062	226	2,069	20	0	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	5	0	4	0	0	0	0	0	0	0
325193	Ethyl Alcohol	44	16	28	16	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	217	98	93	0	0	0	0	0	0	98
325211	Plastics Materials and Resins	234	*	206	0	*	0	0	0	0	0
325212	Synthetic Rubber	19	0	13	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	224	*	220	*	*	0	0	*	0	0
325312	Phosphatic Fertilizers	W	0	W	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	1,012	Q	869	Q	0	0	0	0	0	0
325412	Pharmaceutical Preparation	587	0	488	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	118	191	118	0	0	0	0	0	0
326	Plastics and Rubber Products	3,767	Q	2,023	Q	*	0	0	0	0	0
327	Nonmetallic Mineral Products	6,595	55	5,693	W	Q	0	0	0	0	0
327211	Flat Glass	218	0	217	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	113	0	92	0	0	0	0	0	0	0
327213	Glass Containers	959	43	916	43	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	290	*	219	*	0	0	0	0	0	0
327310	Cements	2,897	7	2,525	7	0	0	0	0	0	0
327410	Lime	248	0	248	0	0	0	0	0	0	0
327420	Gypsum	397	0	396	0	0	0	0	0	0	0
327993	Mineral Wool	537	0	397	0	0	0	0	0	0	0
331	Primary Metals	12,172	184	10,968	W	W	0	0	17	0	0
331111	Iron and Steel Mills	3,292	0	2,945	0	0	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	3	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	181	0	158	0	0	0	0	0	0	0
3313	Alumina and Aluminum	4,122	9	4,092	0	9	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	45	9	22	0	9	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	293	0	W	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	238	0	236	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	3,713	W	3,089	W	0	0	0	0	0	0

**Table 10.6 Capability to Switch Electricity to Alternative Energy Sources, 2006;****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)
3315	Foundries	861	W	684	2	W	0	0	17	0	0
331511	Iron Foundries	126	5	88	1	2	0	0	2	0	0
331521	Aluminum Die-Casting Foundries	45	1	45	1	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	79	W	47	*	0	0	0	15	0	0
332	Fabricated Metal Products	5,135	Q	4,444	Q	0	0	0	0	0	0
333	Machinery	1,393	Q	1,163	Q	0	0	Q	0	0	0
334	Computer and Electronic Products	10,589	89	8,391	Q	78	0	0	0	0	Q
334413	Semiconductors and Related Devices	6,564	72	5,786	0	72	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	720	0	311	0	0	0	0	0	0	0
336	Transportation Equipment	5,134	116	3,325	108	106	102	0	105	0	111
336111	Automobiles	214	1	W	*	1	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	1	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	4,151	108	2,959	102	102	102	0	102	0	108
336411	Aircraft	937	108	702	102	102	102	0	102	0	108
337	Furniture and Related Products	544	Q	371	Q	0	0	0	0	0	0
339	Miscellaneous	1,615	W	1,372	W	Q	0	0	0	0	0
	Total	104,188	3,752	82,080	2,451	1,141	178	Q	201	Q	451

**Economic Characteristic (f)****Value of Shipments and Receipts (million dollars)**

Under 20	107,674	2,343	64,890	881	843	Q	Q	419	Q	332
20-49	97,750	3,460	65,835	1,187	1,060	Q	48	Q	Q	300
50-99	104,524	2,837	83,745	1,513	600	265	42	250	0	Q
100-249	180,116	3,984	139,987	1,231	1,355	30	Q	30	0	Q
250-499	124,414	2,708	101,139	2,307	809	166	184	8	37	Q
500 and Over	239,624	12,692	191,995	4,725	1,399	1,319	5,864	524	0	996
Total	854,102	28,025	647,591	11,844	6,066	2,349	6,456	1,724	50	3,224

**Employment Size**

Under 50	98,324	2,556	58,742	572	726	Q	45	346	Q	177
50-99	69,405	1,709	50,483	852	397	17	22	33	19	368
100-249	195,754	5,074	149,511	2,072	1,540	Q	42	Q	0	Q
250-499	177,432	4,431	140,523	2,433	1,210	435	305	312	0	376
500-999	170,533	9,766	138,083	2,853	1,623	490	5,336	354	25	234
1000 and Over	142,654	4,488	110,248	3,061	571	809	707	105	0	556
Total	854,102	28,025	647,591	11,844	6,066	2,349	6,456	1,724	50	3,224

(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 2006. 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.

**Table 10.6 Capability to Switch Electricity to Alternative Energy Sources, 2006;**

Level: National Data and Regional Totals;

Row: NAICS Codes, Value of Shipments and Employment Sizes;

Column: Energy Sources;

Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Electricity Receipts		Alternative Energy Sources(b)					
		Total Receipts(c)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG

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, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 10.7 Number of Establishments with Capability to Switch Electricity to Alternative Energy Sources, 2006;**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Energy Sources;  
 Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Electricity Receipts(b)			Alternative Energy Sources(c)						
		Total Receipts(d)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
<b>Total United States</b>											
311	Food	14,109	708	8,259	384	162	0	Q	105	0	84
3112	Grain and Oilseed Milling	580	27	472	3	Q	0	W	W	0	W
311221	Wet Corn Milling	47	W	39	W	W	0	W	W	0	0
31131	Sugar Manufacturing	78	11	46	W	9	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	1,125	Q	717	5	5	0	0	0	0	W
3115	Dairy Products	1,044	57	651	5	26	0	0	3	0	Q
3116	Animal Slaughtering and Processing	1,715	33	1,196	Q	9	0	0	0	0	W
312	Beverage and Tobacco Products	1,830	177	952	W	Q	0	0	W	0	Q
3121	Beverages	1,758	177	888	W	Q	0	0	W	0	Q
3122	Tobacco	72	0	64	0	0	0	0	0	0	0
313	Textile Mills	1,966	77	1,320	W	0	W	W	0	0	0
314	Textile Product Mills	3,332	165	2,179	Q	W	W	0	Q	0	W
315	Apparel	5,499	203	3,008	Q	Q	0	W	W	0	0
316	Leather and Allied Products	687	Q	364	10	0	0	0	Q	0	0
321	Wood Products	10,777	353	6,759	17	173	0	W	Q	0	Q
321113	Sawmills	2,274	94	1,494	3	46	0	W	0	0	12
3212	Veneer, Plywood, and Engineered Woods	1,462	W	929	0	0	0	0	W	0	0
3219	Other Wood Products	6,688	223	4,090	12	121	0	0	5	0	W
322	Paper	3,928	89	2,939	70	34	12	17	W	W	5
322110	Pulp Mills	32	4	25	W	W	0	0	0	0	W
322121	Paper Mills, except Newsprint	288	27	236	20	7	7	11	0	W	W
322122	Newsprint Mills	20	3	14	3	W	0	0	0	0	0
322130	Paperboard Mills	200	21	180	17	9	5	4	0	0	W
323	Printing and Related Support	18,830	566	9,599	525	W	0	0	0	0	0
324	Petroleum and Coal Products	1,813	203	1,193	115	157	6	0	80	0	13
324110	Petroleum Refineries	209	44	187	26	12	6	0	6	0	12
324199	Other Petroleum and Coal Products	48	5	33	4	0	0	0	0	0	W
325	Chemicals	8,619	394	6,075	177	129	Q	Q	110	W	Q
325110	Petrochemicals	45	4	39	4	0	W	0	0	0	0
325120	Industrial Gases	560	W	372	0	W	0	0	0	0	0
325181	Alkalies and Chlorine	31	W	29	W	W	0	0	0	0	0
325182	Carbon Black	24	0	23	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	473	7	395	3	W	W	W	W	0	0
325192	Cyclic Crudes and Intermediates	25	0	18	0	0	0	0	0	0	0
325193	Ethyl Alcohol	65	5	47	W	W	0	W	0	0	W
325199	Other Basic Organic Chemicals	488	20	385	7	7	0	0	0	0	Q
325211	Plastics Materials and Resins	555	11	447	W	Q	0	0	0	0	W
325212	Synthetic Rubber	92	4	68	W	W	0	0	W	0	0
325222	Noncellulosic Organic Fibers	77	13	63	W	4	4	6	0	0	W
325311	Nitrogenous Fertilizers	65	4	54	4	W	0	0	W	0	0
325312	Phosphatic Fertilizers	32	0	32	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	1,123	88	746	Q	34	0	0	Q	0	0
325412	Pharmaceutical Preparation	580	31	458	10	26	0	0	W	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	143	4	93	4	0	0	W	0	0	0
326	Plastics and Rubber Products	9,823	341	6,674	173	Q	Q	0	W	0	Q
327	Nonmetallic Mineral Products	11,914	376	7,030	262	157	5	0	Q	0	4
327211	Flat Glass	42	6	34	0	6	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	157	3	94	W	W	0	0	0	0	0
327213	Glass Containers	55	12	52	12	W	0	0	W	0	0
327215	Glass Products from Purchased Glass	768	17	575	8	8	5	0	0	0	W
327310	Cements	188	10	116	W	W	0	0	0	0	W
327410	Lime	62	W	55	W	0	0	0	0	0	0
327420	Gypsum	145	0	128	0	0	0	0	0	0	0
327993	Mineral Wool	188	W	162	0	W	0	0	0	0	W
331	Primary Metals	3,271	150	2,288	71	32	W	W	Q	W	Q
331111	Iron and Steel Mills	347	W	259	6	W	W	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	18	W	14	W	W	0	0	0	0	0

**Table 10.7 Number of Establishments with Capability to Switch Electricity to Alternative Energy Sources, 2006;**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Energy Sources;  
 Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Electricity Receipts(b)			Alternative Energy Sources(c)						
		Total Receipts(d)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Breeze	Other(e)
3312	Steel Products from Purchased Steel	446	13	352	9	W	0	0	W	0	0
3313	Alumina and Aluminum	384	18	290	5	7	0	W	5	W	0
331314	Secondary Smelting and Alloying of Aluminum	97	4	71	W	W	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	56	W	45	W	0	0	W	0	W	0
331316	Aluminum Extruded Products	150	8	106	W	W	0	0	5	0	0
3314	Nonferrous Metals, except Aluminum	574	60	385	W	7	0	0	W	0	W
3315	Foundries	1,503	48	990	27	7	W	0	W	0	6
331511	Iron Foundries	379	15	314	11	4	0	0	W	0	W
331521	Aluminum Die-Casting Foundries	185	7	123	W	W	0	0	0	0	3
331524	Aluminum Foundries, except Die-Casting	309	24	220	10	W	0	0	W	0	W
332	Fabricated Metal Products	35,520	1,729	21,621	986	481	W	0	Q	0	Q
333	Machinery	16,296	638	9,423	388	Q	0	Q	W	0	Q
334	Computer and Electronic Products	8,188	461	4,913	278	84	Q	0	W	0	Q
334413	Semiconductors and Related Devices	522	17	346	4	12	0	0	0	0	W
335	Electrical Equip., Appliances, and Components	3,596	101	2,521	96	9	W	W	W	W	W
336	Transportation Equipment	7,024	350	4,808	227	95	3	0	Q	0	70
336111	Automobiles	77	W	61	W	W	0	0	W	0	0
336112	Light Trucks and Utility Vehicles	47	0	36	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	910	79	581	Q	11	3	0	W	0	Q
336411	Aircraft	105	14	70	6	5	3	0	W	0	5
337	Furniture and Related Products	11,368	362	5,107	265	0	W	0	W	0	0
339	Miscellaneous	15,702	966	8,784	643	493	Q	W	Q	0	W
	Total	194,093	8,440	115,815	4,954	2,388	506	286	1,217	Q	1,003

(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 2006.

(c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for electricity receipts during 2006. 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 Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

**Table 10.8 Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Thousand Barrels.**

NAICS Code(a)	Subsector and Industry	Distillate Fuel Oil		Alternative Energy Sources(b)							
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
<b>Total United States</b>											
311	Food	2,723	127	2,141	4	111	*	0	5	0	7
3112	Grain and Oilseed Milling	153	6	144	*	5	*	0	1	0	*
311221	Wet Corn Milling	32	1	31	0	0	0	0	1	0	0
31131	Sugar Manufacturing	148	24	116	0	23	0	0	0	0	*
3114	Fruit and Vegetable Preserving and Specialty Foods	210	Q	43	*	*	*	0	Q	0	*
3115	Dairy Products	235	6	229	3	Q	*	0	*	0	0
3116	Animal Slaughtering and Processing	789	76	618	*	67	0	0	Q	0	6
312	Beverage and Tobacco Products	204	20	104	Q	19	1	2	0	0	0
3121	Beverages	171	17	75	Q	16	0	0	0	0	0
3122	Tobacco	33	3	29	0	3	1	2	0	0	0
313	Textile Mills	43	Q	Q	0	Q	0	0	0	0	0
314	Textile Product Mills	36	5	31	*	2	*	Q	0	0	0
315	Apparel	7	Q	0	0	Q	0	0	0	0	0
316	Leather and Allied Products	10	0	Q	0	0	0	0	0	0	0
321	Wood Products	2,635	59	2,167	Q	0	5	0	14	0	9
321113	Sawmills	1,422	29	1,126	Q	0	5	0	8	0	7
3212	Veneer, Plywood, and Engineered Woods	234	2	194	0	0	0	0	Q	0	Q
3219	Other Wood Products	775	Q	718	Q	0	0	0	Q	0	Q
322	Paper	2,181	948	881	394	890	169	2	10	0	41
322110	Pulp Mills	648	381	44	381	381	0	0	0	0	1
322121	Paper Mills, except Newsprint	372	80	262	8	33	2	2	2	0	40
322122	Newsprint Mills	20	2	14	0	2	0	0	0	0	0
322130	Paperboard Mills	1,054	475	482	5	470	167	0	4	0	0
323	Printing and Related Support	Q	Q	3	0	Q	0	0	*	0	0
324	Petroleum and Coal Products	4,275	Q	2,760	Q	Q	Q	0	Q	0	28
324110	Petroleum Refineries	1,387	34	839	1	17	0	0	21	0	1
324199	Other Petroleum and Coal Products	30	0	23	0	0	0	0	0	0	0
325	Chemicals	1,616	277	1,211	10	165	Q	18	Q	0	2
325110	Petrochemicals	103	0	103	0	0	0	0	0	0	0
325120	Industrial Gases	6	0	6	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	15	*	12	0	*	0	0	0	0	0
325182	Carbon Black	1	0	*	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	178	13	94	3	10	Q	0	Q	0	0
325192	Cyclic Crudes and Intermediates	18	12	6	0	12	11	0	0	0	0
325193	Ethyl Alcohol	11	6	4	*	5	0	1	0	0	0
325199	Other Basic Organic Chemicals	387	90	272	*	88	*	0	*	0	2
325211	Plastics Materials and Resins	226	Q	Q	*	Q	Q	0	Q	0	0
325212	Synthetic Rubber	59	52	6	0	35	0	17	0	0	0
325222	Noncellulosic Organic Fibers	23	6	17	2	2	*	0	1	0	0
325311	Nitrogenous Fertilizers	24	0	23	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	129	0	129	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	198	11	179	3	7	0	0	0	0	*
325412	Pharmaceutical Preparation	175	10	160	3	6	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	11	1	10	0	1	0	0	0	0	0
326	Plastics and Rubber Products	540	Q	Q	Q	Q	*	0	0	0	0
327	Nonmetallic Mineral Products	5,150	151	4,141	Q	46	34	11	29	0	17
327211	Flat Glass	10	*	9	*	0	*	0	*	0	0
327212	Other Pressed and Blown Glass and Glassware	12	6	6	0	6	0	0	0	0	0
327213	Glass Containers	15	0	15	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	Q	Q	Q	Q	*	0	0	0	0	0
327310	Cements	596	61	409	0	0	34	11	Q	0	17
327410	Lime	224	21	190	0	0	0	0	12	0	0
327420	Gypsum	115	0	104	0	0	0	0	0	0	0
327993	Mineral Wool	5	*	4	0	0	0	0	0	0	*
331	Primary Metals	1,016	104	780	Q	89	2	0	Q	0	*
331111	Iron and Steel Mills	529	1	458	0	*	0	0	*	0	*
331112	Electrometallurgical Ferroalloy Products	17	*	9	0	0	0	0	*	0	0
3312	Steel Products from Purchased Steel	46	8	18	0	8	0	0	0	0	0
3313	Alumina and Aluminum	136	36	89	0	34	2	0	*	0	0
331314	Secondary Smelting and Alloying of Aluminum	37	0	32	0	0	0	0	*	0	0
331315	Aluminum Sheet, Plate and Foils	58	34	22	0	34	*	0	*	0	0
331316	Aluminum Extruded Products	12	0	12	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	96	1	87	0	1	0	0	0	0	0
3315	Foundries	193	58	119	Q	45	0	0	Q	0	0
331511	Iron Foundries	100	1	84	*	*	0	0	Q	0	0
331521	Aluminum Die-Casting Foundries	45	45	*	0	45	0	0	*	0	0
331524	Aluminum Foundries, except Die-Casting	10	Q	3	Q	0	0	0	*	0	0

**Table 10.8 Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2006;****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)
332	Fabricated Metal Products	410	Q	295	Q	Q	Q	0	Q	0	0
333	Machinery	274	18	184	12	Q	0	0	*	0	0
334	Computer and Electronic Products	155	Q	63	Q	9	0	0	0	0	*
334413	Semiconductors and Related Devices	19	10	5	*	9	0	0	0	0	*
335	Electrical Equip., Appliances, and Components	Q	0	Q	0	0	0	0	0	0	0
336	Transportation Equipment	488	3	198	Q	2	*	0	*	0	*
336111	Automobiles	4	0	2	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	5	0	3	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	98	2	82	0	2	*	0	*	0	*
336411	Aircraft	22	*	21	0	*	*	0	*	0	*
337	Furniture and Related Products	Q	Q	Q	Q	Q	Q	0	Q	0	*
339	Miscellaneous	28	Q	9	0	0	0	0	Q	0	0
	Total	22,139	2,888	15,529	701	2,160	367	36	Q	0	105

**Northeast Census Region**

311	Food	432	38	306	*	38	*	0	*	0	*
3112	Grain and Oilseed Milling	2	*	2	0	0	*	0	0	0	0
311221	Wet Corn Milling	1	0	1	0	0	0	0	0	0	0
31131	Sugar Manufacturing	23	23	*	0	23	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	Q	*	*	*	*	*	0	*	0	*
3115	Dairy Products	160	*	160	0	*	0	0	0	0	0
3116	Animal Slaughtering and Processing	Q	Q	Q	0	Q	0	0	0	0	0
312	Beverage and Tobacco Products	85	15	21	0	15	0	0	0	0	0
3121	Beverages	85	15	21	0	15	0	0	0	0	0
3122	Tobacco	*	*	*	0	*	0	0	0	0	0
313	Textile Mills	Q	0	0	0	0	0	0	0	0	0
314	Textile Product Mills	16	Q	13	0	0	*	Q	0	0	0
315	Apparel	*	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	10	0	Q	0	0	0	0	0	0	0
321	Wood Products	210	13	124	Q	0	0	0	0	0	4
321113	Sawmills	148	12	77	Q	0	0	0	0	0	3
3212	Veneer, Plywood, and Engineered Woods	Q	0	Q	0	0	0	0	0	0	0
3219	Other Wood Products	41	Q	27	0	0	0	0	0	0	Q
322	Paper	194	80	107	8	27	2	2	Q	0	40
322110	Pulp Mills	3	0	3	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	112	56	50	8	9	2	2	2	0	40
322122	Newsprint Mills	3	0	3	0	0	0	0	0	0	0
322130	Paperboard Mills	32	19	12	0	19	0	0	0	0	0
323	Printing and Related Support	Q	Q	Q	0	Q	0	0	*	0	0
324	Petroleum and Coal Products	1,187	76	1,046	0	71	Q	0	0	0	0
324110	Petroleum Refineries	208	17	128	0	17	0	0	6	0	0
324199	Other Petroleum and Coal Products	3	0	1	0	0	0	0	0	0	0
325	Chemicals	418	Q	296	0	15	0	0	Q	0	0
325110	Petrochemicals	7	0	7	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	1	0	1	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	37	5	10	0	5	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	*	0	*	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	40	3	36	0	3	*	0	0	0	0
325211	Plastics Materials and Resins	Q	Q	Q	0	Q	Q	0	Q	0	0
325212	Synthetic Rubber	*	0	*	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	5	1	4	0	0	0	0	1	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	120	5	116	0	4	0	0	0	0	0
325412	Pharmaceutical Preparation	101	3	98	0	3	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	9	0	9	0	0	0	0	0	0	0
326	Plastics and Rubber Products	Q	Q	Q	Q	Q	Q	0	0	0	0
327	Nonmetallic Mineral Products	763	20	507	Q	*	6	0	12	0	3
327211	Flat Glass	5	0	5	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	3	0	3	0	0	0	0	0	0	0
327213	Glass Containers	1	0	1	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	Q	Q	Q	Q	*	0	0	0	0	0
327310	Cements	50	6	38	0	0	6	0	0	0	3
327410	Lime	49	12	37	0	0	0	0	12	0	0
327420	Gypsum	8	0	8	0	0	0	0	0	0	0

Table 10.8 Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2000

### Level: National Data and Regional Totals

**Row: NAICS Codes, Value of Shipments and Employment Sizes:**

### Column: Energy Sources:

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)
327993	Mineral Wool	1	0	1	0	0	0	0	0	0	0
331	Primary Metals	185	50	125	Q	44	0	0	0	Q	0
331111	Iron and Steel Mills	77	0	75	0	0	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	9	8	1	0	8	0	0	0	0	0
3313	Alumina and Aluminum	52	34	17	0	34	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	2	0	1	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	38	34	4	0	34	0	0	0	0	0
331316	Aluminum Extruded Products	4	0	4	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	25	1	19	0	1	0	0	0	0	0
3315	Foundries	22	Q	13	Q	*	0	0	0	Q	0
331511	Iron Foundries	9	0	7	0	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	*	*	*	0	*	0	0	*	0	0
331524	Aluminum Foundries, except Die-Casting	3	Q	Q	Q	0	0	0	0	0	0
332	Fabricated Metal Products	Q	Q	34	Q	Q	0	0	0	0	0
333	Machinery	Q	0	Q	0	0	0	0	0	0	0
334	Computer and Electronic Products	66	10	Q	*	9	0	0	0	0	0
334413	Semiconductors and Related Devices	17	9	4	0	9	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	Q	0	Q	0	0	0	0	0	0	0
336	Transportation Equipment	53	2	42	0	2	*	0	0	0	0
336111	Automobiles	0	0	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	*	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	9	2	7	0	2	*	0	0	0	0
336411	Aircraft	*	*	*	0	0	*	0	0	0	0
337	Furniture and Related Products	*	0	*	0	0	0	0	0	0	0
339	Miscellaneous	Q	Q	Q	0	0	0	0	0	Q	0
	Total	4,065	617	2,748	22	429	115	4	135	0	0

Midwest Census Region

**Table 10.8 Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Thousand Barrels.**

NAICS Code(a)	Subsector and Industry	Distillate Fuel Oil			Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
325311	Nitrogenous Fertilizers	*	0	*	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	3	*	2	*	*	0	0	0	0	0
325412	Pharmaceutical Preparation	1	*	1	0	*	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	*	*	*	0	*	0	0	0	0	0
326	Plastics and Rubber Products	Q	*	Q	0	*	0	0	0	0	0
327	Nonmetallic Mineral Products	Q	*	Q	0	0	0	0	*	0	*
327211	Flat Glass	1	*	1	0	0	0	0	*	0	0
327212	Other Pressed and Blown Glass and Glassware	3	0	2	0	0	0	0	0	0	0
327213	Glass Containers	4	0	4	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	1	0	1	0	0	0	0	0	0	0
327310	Cements	103	0	80	0	0	0	0	0	0	0
327410	Lime	49	0	47	0	0	0	0	0	0	0
327420	Gypsum	29	0	29	0	0	0	0	0	0	0
327993	Mineral Wool	2	*	2	0	0	0	0	0	0	*
331	Primary Metals	435	Q	366	*	*	*	0	1	0	*
331111	Iron and Steel Mills	290	*	242	0	*	0	0	*	0	*
331112	Electrometallurgical Ferroalloy Products	11	0	3	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	5	0	5	0	0	0	0	0	0	0
3313	Alumina and Aluminum	26	*	22	0	*	*	0	*	0	0
331314	Secondary Smelting and Alloying of Aluminum	16	0	12	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	8	*	8	0	*	*	0	*	0	0
331316	Aluminum Extruded Products	3	0	3	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	39	0	38	0	0	0	0	0	0	0
3315	Foundries	64	Q	55	*	*	0	0	Q	0	0
331511	Iron Foundries	51	Q	48	*	*	0	0	Q	0	0
331521	Aluminum Die-Casting Foundries	*	*	*	0	*	0	0	*	0	0
331524	Aluminum Foundries, except Die-Casting	Q	Q	1	*	0	0	0	*	0	0
332	Fabricated Metal Products	67	0	51	0	0	0	0	0	0	0
333	Machinery	164	17	125	12	Q	0	0	0	0	0
334	Computer and Electronic Products	Q	Q	Q	Q	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	Q	0	*	0	0	0	0	0	0	0
336	Transportation Equipment	101	Q	68	Q	0	0	0	0	0	0
336111	Automobiles	2	0	1	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	4	0	3	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	2	0	2	0	0	0	0	0	0	0
336411	Aircraft	1	0	1	0	0	0	0	0	0	0
337	Furniture and Related Products	Q	Q	Q	Q	Q	Q	Q	0	0	*
339	Miscellaneous	*	0	*	0	0	0	0	0	0	0
	Total	4,387	234	3,749	Q	Q	Q	18	Q	0	34

**South Census Region**

311	Food	705	65	476	*	60	0	0	Q	0	*
3112	Grain and Oilseed Milling	15	1	13	0	0	0	0	1	0	0
311221	Wet Corn Milling	1	1	0	0	0	0	0	1	0	0
31131	Sugar Manufacturing	97	0	89	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	Q	Q	19	0	0	0	0	Q	0	0
3115	Dairy Products	1	*	*	0	*	0	0	0	0	0
3116	Animal Slaughtering and Processing	342	58	251	*	Q	0	0	Q	0	0
312	Beverage and Tobacco Products	40	3	32	0	3	1	2	0	0	0
3121	Beverages	8	*	3	0	*	0	0	0	0	0
3122	Tobacco	33	3	29	0	3	1	2	0	0	0
313	Textile Mills	34	Q	Q	0	Q	0	0	0	0	0
314	Textile Product Mills	Q	3	Q	*	2	0	0	0	0	0
315	Apparel	7	Q	0	0	Q	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0	0	0
321	Wood Products	824	13	582	Q	0	0	0	Q	0	2
321113	Sawmills	386	7	254	Q	0	0	0	0	0	2
3212	Veneer, Plywood, and Engineered Woods	160	Q	141	0	0	0	0	Q	0	0
3219	Other Wood Products	100	Q	82	0	0	0	0	Q	0	0
322	Paper	1,406	561	582	381	561	17	0	4	0	1
322110	Pulp Mills	637	381	34	381	381	0	0	0	0	1
322121	Paper Mills, except Newsprint	209	24	166	0	24	0	0	0	0	0
322122	Newsprint Mills	4	2	0	0	2	0	0	0	0	0
322130	Paperboard Mills	515	150	344	0	150	17	0	4	0	0
323	Printing and Related Support	2	*	Q	0	*	0	0	0	0	0
324	Petroleum and Coal Products	1,454	Q	885	Q	1	0	0	Q	0	1

Table 10.8 Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2006

### Level: National Data and Regional Totals

**Row: NAICS Codes, Value of Shipments and Employment Sizes:**

### Column: Energy Sources:

Column Energy Sources

		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)
324110	Petroleum Refineries	292	16	149	*	0	0	0	15	0	0
324199	Other Petroleum and Coal Products	18	0	16	0	0	0	0	0	0	0
325	Chemicals	1,047	147	806	8	138	Q	0	Q	0	0
325110	Petrochemicals	93	0	93	0	0	0	0	0	0	0
325120	Industrial Gases	6	0	6	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	12	*	9	0	*	0	0	0	0	0
325182	Carbon Black	1	0	*	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	107	7	54	2	5	Q	0	Q	0	0
325192	Cyclic Crudes and Intermediates	6	1	5	0	1	0	0	0	0	0
325193	Ethyl Alcohol	5	5	*	0	5	0	0	0	0	0
325199	Other Basic Organic Chemicals	335	87	225	*	85	*	0	*	0	0
325211	Plastics Materials and Resins	55	*	46	*	*	0	0	0	0	0
325212	Synthetic Rubber	41	35	5	0	35	0	0	0	0	0
325222	Noncellulosic Organic Fibers	18	4	13	2	2	*	0	0	0	0
325311	Nitrogenous Fertilizers	21	0	20	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	119	0	119	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	Q	6	Q	3	3	0	0	0	0	0
325412	Pharmaceutical Preparation	Q	6	Q	3	3	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	1	1	*	0	1	0	0	0	0	0
326	Plastics and Rubber Products	Q	Q	Q	0	Q	*	0	0	0	0
327	Nonmetallic Mineral Products	1,475	92	998	0	44	26	11	Q	0	0
327211	Flat Glass	3	0	3	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	7	6	1	0	6	0	0	0	0	0
327213	Glass Containers	8	0	8	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	1	0	*	0	0	0	0	0	0	0
327310	Cements	272	39	187	0	0	26	11	Q	0	0
327410	Lime	72	9	63	0	0	0	0	0	0	0
327420	Gypsum	46	0	36	0	0	0	0	0	0	0
327993	Mineral Wool	1	0	1	0	0	0	0	0	0	0
331	Primary Metals	309	47	219	0	45	2	0	*	0	0
331111	Iron and Steel Mills	124	*	111	0	*	0	0	0	*	0
331112	Electrometallurgical Ferroalloy Products	6	0	6	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	30	0	10	0	0	0	0	0	0	0
3313	Alumina and Aluminum	47	2	40	0	0	2	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	17	0	17	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	11	0	10	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	3	0	2	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	8	*	6	0	*	0	0	0	0	0
3315	Foundries	94	45	46	0	45	0	0	*	0	0
331511	Iron Foundries	29	*	26	0	*	0	0	*	0	0
331521	Aluminum Die-Casting Foundries	45	45	*	0	45	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	1	0	1	0	0	0	0	0	0	0
332	Fabricated Metal Products	152	Q	102	Q	0	0	0	0	Q	0
333	Machinery	Q	*	Q	0	*	0	0	*	0	0
334	Computer and Electronic Products	Q	Q	1	Q	*	0	0	0	0	0
334413	Semiconductors and Related Devices	1	*	1	*	*	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	18	0	9	0	0	0	0	0	0	0
336	Transportation Equipment	163	*	46	0	*	0	0	0	0	0
336111	Automobiles	1	0	*	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	1	0	*	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	51	*	37	0	*	0	0	0	0	0
336411	Aircraft	15	0	15	0	0	0	0	0	0	0
337	Furniture and Related Products	Q	*	Q	*	0	0	0	0	*	0
339	Miscellaneous	Q	0	Q	0	0	0	0	0	0	0
	Total	8,237	1,249	5,247	541	891	46	13	Q	0	0

West Census Region

**Table 10.8 Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2006;****Level: National Data and Regional Totals;****Row: NAICS Codes, Value of Shipments and Employment Sizes;****Column: Energy Sources;****Unit: Thousand Barrels.**

NAICS Code(a)	Subsector and Industry	Distillate Fuel Oil			Alternative Energy Sources(b)						
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
314	Textile Product Mills	0	0	0	0	0	0	0	0	0	0
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
321	Wood Products	839	6	774	*	0	0	0	3	0	3
321113	Sawmills	755	5	704	*	0	0	0	3	0	2
3212	Veneer, Plywood, and Engineered Woods	25	Q	15	0	0	0	0	0	0	Q
3219	Other Wood Products	47	0	44	0	0	0	0	0	0	0
322	Paper	449	306	64	5	301	150	0	0	0	0
322110	Pulp Mills	4	0	4	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	11	0	5	0	0	0	0	0	0	0
322122	Newsprint Mills	12	0	11	0	0	0	0	0	0	0
322130	Paperboard Mills	423	306	43	5	301	150	0	0	0	0
323	Printing and Related Support	0	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	1,378	Q	664	0	Q	0	0	Q	0	0
324110	Petroleum Refineries	775	*	498	0	*	0	0	0	0	0
324199	Other Petroleum and Coal Products	1	0	1	0	0	0	0	0	0	0
325	Chemicals	48	1	46	1	1	0	0	0	0	0
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	2	0	2	0	0	0	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	29	1	28	1	0	0	0	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	*	0	*	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	*	0	0	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	*	0	*	0	0	0	0	0	0	0
325212	Synthetic Rubber	0	0	0	0	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	3	0	3	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	9	0	9	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	1	0	1	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	1	0	1	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	1	1	1	0	1	0	0	0	0	0
326	Plastics and Rubber Products	*	0	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	Q	38	Q	Q	Q	2	0	Q	0	14
327211	Flat Glass	1	*	1	*	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	*	0	*	0	0	0	0	0	0	0
327213	Glass Containers	3	0	3	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	*	*	*	*	0	0	0	0	0	0
327310	Cements	171	16	104	0	0	2	0	0	0	14
327410	Lime	54	0	43	0	0	0	0	0	0	0
327420	Gypsum	31	0	31	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	*	0	0	0	0	0	0	0
331	Primary Metals	87	1	70	0	*	0	0	1	0	0
331111	Iron and Steel Mills	37	*	30	0	*	0	0	*	0	0
331112	Electrometallurgical Ferroalloy Products	*	*	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	2	0	2	0	0	0	0	0	0	0
3313	Alumina and Aluminum	10	0	10	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	3	0	3	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	1	0	1	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	2	0	2	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	24	0	24	0	0	0	0	0	0	0
3315	Foundries	13	1	5	0	0	0	0	1	0	0
331511	Iron Foundries	11	0	3	0	0	0	0	0	0	0
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
332	Fabricated Metal Products	Q	0	Q	0	0	0	0	0	0	0
333	Machinery	*	0	*	0	0	0	0	0	0	0
334	Computer and Electronic Products	1	*	1	*	*	0	0	0	0	0
334413	Semiconductors and Related Devices	1	*	1	*	*	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	*	0	*	0	0	0	0	0	0	0
336	Transportation Equipment	Q	*	42	0	*	0	0	*	0	*
336111	Automobiles	1	0	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	36	*	35	0	*	0	0	*	0	*
336411	Aircraft	6	*	5	0	*	0	0	*	0	*
337	Furniture and Related Products	0	0	0	0	0	0	0	0	0	0
339	Miscellaneous	Q	0	Q	0	0	0	0	0	0	0
	Total	5,450	Q	3,785	14	Q	152	0	Q	0	17

**Table 10.8 Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2006;**

Level: National Data and Regional Totals;

Row: NAICS Codes, Value of Shipments and Employment Sizes;

Column: Energy Sources;

Unit: Thousand Barrels.

NAICS Code(a)	Subsector and Industry	Distillate Fuel Oil		Alternative Energy Sources(b)							
		Total Consumed(c)	Switchable	Not Switchable	Electricity Receipts(d)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(e)
<b>Economic Characteristic (f)</b>											
<b>Value of Shipments and Receipts (million dollars)</b>											
Under 20											
20-49		7,689	964	5,634	Q	Q	Q	0	Q	0	4
50-99		3,211	Q	2,407	Q	Q	19	0	31	0	8
100-249		2,863	331	2,118	Q	160	Q	12	Q	0	28
250-499		3,310	562	1,983	213	451	32	4	13	0	55
500 and Over		2,159	653	1,005	193	644	161	0	Q	0	2
Total		2,908	149	2,381	25	79	2	20	21	0	8
Employment Size											
Under 50											
50-99		7,771	916	5,459	Q	Q	Q	0	Q	0	0
100-249		2,492	168	1,938	11	127	33	1	10	0	17
250-499		4,665	660	3,412	191	458	116	11	112	0	39
500-999		3,336	742	1,971	233	640	156	17	8	0	41
1000 and Over		1,913	221	1,406	Q	174	2	6	26	0	2
Total		1,961	182	1,343	13	159	1	*	*	0	6
		22,139	2,888	15,529	701	2,160	367	36	Q	0	105

(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 2006. 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.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 10.9 Number of Establishments with Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2006;**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Energy Sources;  
 Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Distillate Fuel Oil(b)			Alternative Energy Sources(c)						
		Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)
<b>Total United States</b>											
311	Food	1,462	276	900	Q	217	8	0	25	0	16
3112	Grain and Oilseed Milling	174	10	131	W	4	W	0	W	0	W
311221	Wet Corn Milling	17	W	15	0	0	0	0	W	0	0
31131	Sugar Manufacturing	43	4	35	0	W	0	0	0	0	W
3114	Fruit and Vegetable Preserving and Specialty Foods	112	13	70	4	7	4	0	10	0	4
3115	Dairy Products	88	17	72	5	14	W	0	W	0	0
3116	Animal Slaughtering and Processing	393	62	230	W	57	0	0	Q	0	W
312	Beverage and Tobacco Products	348	Q	208	Q	22	W	W	0	0	0
3121	Beverages	319	Q	189	Q	14	0	0	0	0	0
3122	Tobacco	30	8	19	0	8	W	W	0	0	0
313	Textile Mills	179	W	139	0	W	0	0	0	0	0
314	Textile Product Mills	106	24	79	W	5	W	W	0	0	0
315	Apparel	Q	W	0	0	W	0	0	0	0	0
316	Leather and Allied Products	Q	0	Q	0	0	0	0	0	0	0
321	Wood Products	3,302	159	2,590	Q	0	W	0	54	0	18
321113	Sawmills	1,241	57	908	21	0	W	0	4	0	7
3212	Veneer, Plywood, and Engineered Woods	385	Q	288	0	0	0	0	Q	0	W
3219	Other Wood Products	1,474	63	1,226	W	0	0	0	W	0	W
322	Paper	411	50	327	7	41	5	W	7	0	W
322110	Pulp Mills	21	4	12	W	4	0	0	0	0	W
322121	Paper Mills, except Newsprint	113	16	85	W	13	W	W	W	0	W
322122	Newsprint Mills	11	W	6	0	W	0	0	0	0	0
322130	Paperboard Mills	110	18	85	W	17	4	0	W	0	0
323	Printing and Related Support	249	Q	118	0	Q	0	0	W	0	0
324	Petroleum and Coal Products	764	177	575	Q	83	53	0	77	0	6
324110	Petroleum Refineries	95	10	66	W	6	0	0	W	0	W
324199	Other Petroleum and Coal Products	21	0	16	0	0	0	0	0	0	0
325	Chemicals	1,603	169	1,254	78	97	Q	W	Q	0	5
325110	Petrochemicals	14	0	14	0	0	0	0	0	0	0
325120	Industrial Gases	9	0	7	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	19	W	15	0	W	0	0	0	0	0
325182	Carbon Black	7	0	4	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	151	Q	104	Q	Q	W	0	W	0	0
325192	Cyclic Crudes and Intermediates	9	W	8	0	W	W	0	0	0	0
325193	Ethyl Alcohol	26	4	20	W	W	0	W	0	0	0
325199	Other Basic Organic Chemicals	163	14	112	3	9	4	0	W	0	W
325211	Plastics Materials and Resins	181	12	130	W	Q	W	0	W	0	0
325212	Synthetic Rubber	21	4	11	0	W	0	W	0	0	0
325222	Noncellulosic Organic Fibers	27	10	18	W	6	W	0	W	0	0
325311	Nitrogenous Fertilizers	21	0	19	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	20	0	20	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	271	34	211	9	20	0	0	0	0	W
325412	Pharmaceutical Preparation	156	21	134	4	17	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	16	6	10	0	6	0	0	0	0	0
326	Plastics and Rubber Products	647	157	285	W	129	W	0	0	0	0
327	Nonmetallic Mineral Products	3,606	150	2,626	Q	Q	W	W	Q	0	W
327211	Flat Glass	29	W	20	W	0	W	0	W	0	0
327212	Other Pressed and Blown Glass and Glassware	37	W	34	0	W	0	0	0	0	0
327213	Glass Containers	26	0	25	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	94	9	71	8	W	0	0	0	0	0
327310	Cements	85	8	50	0	0	W	W	W	0	W
327410	Lime	51	W	45	0	0	0	0	W	0	0
327420	Gypsum	61	0	57	0	0	0	0	0	0	0
327993	Mineral Wool	35	W	28	0	0	0	0	0	0	W
331	Primary Metals	921	52	700	7	17	W	0	26	0	W
331111	Iron and Steel Mills	145	9	112	0	W	0	0	W	0	W
331112	Electrometallurgical Ferroalloy Products	14	W	9	0	0	0	0	W	0	0

**Table 10.9 Number of Establishments with Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2006;**

Level: National Data;  
 Row: NAICS Codes;  
 Column: Energy Sources;  
 Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Distillate Fuel Oil(b)			Alternative Energy Sources(c)						
		Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)
3312	Steel Products from Purchased Steel	113	W	102	0	W	0	0	0	0	0
3313	Alumina and Aluminum	109	4	90	0	W	W	0	W	0	0
331314	Secondary Smelting and Alloying of Aluminum	40	0	33	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	23	W	19	0	W	W	0	W	0	0
331316	Aluminum Extruded Products	22	0	19	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	168	W	121	0	W	0	0	0	0	0
3315	Foundries	372	33	266	7	7	0	0	19	0	0
331511	Iron Foundries	185	13	143	W	4	0	0	12	0	0
331521	Aluminum Die-Casting Foundries	5	3	3	0	3	0	0	W	0	0
331524	Aluminum Foundries, except Die-Casting	47	Q	31	4	0	0	0	W	0	0
332	Fabricated Metal Products	3,298	Q	2,318	Q	Q	W	0	W	0	0
333	Machinery	1,707	Q	925	W	Q	0	0	Q	0	0
334	Computer and Electronic Products	541	Q	342	Q	5	0	0	0	0	W
334413	Semiconductors and Related Devices	104	8	92	W	5	0	0	0	0	W
335	Electrical Equip., Appliances, and Components	299	0	210	0	0	0	0	0	0	0
336	Transportation Equipment	1,096	Q	767	W	Q	W	0	W	0	W
336111	Automobiles	23	0	16	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	25	0	19	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	70	9	56	0	Q	W	0	W	0	W
336411	Aircraft	24	3	21	0	W	W	0	W	0	W
337	Furniture and Related Products	879	Q	645	Q	W	W	0	Q	0	W
339	Miscellaneous	704	W	358	0	0	0	0	W	0	0
	Total	22,239	2,120	15,376	824	974	324	13	816	0	59

(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 2006.

(c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for distillate fuel oil during 2006. 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.

NA=Not 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, '2006 Manufacturing Energy Consumption Survey.'

**Table 11.1 Electricity: Components of Net Demand, 2006;****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)
<b>Total United States</b>						
311	Food	73,242	309	4,563	111	78,003
3112	Grain and Oilseed Milling	15,283	253	2,845	72	18,310
311221	Wet Corn Milling	6,753	48	2,396	55	9,142
31131	Sugar Manufacturing	920	54	951	7	1,919
3114	Fruit and Vegetable Preserving and Specialty Foo	9,720	1	268	13	9,976
3115	Dairy Products	10,079	0	44	0	10,123
3116	Animal Slaughtering and Processing	17,545	0	17	0	17,562
312	Beverage and Tobacco Products	8,792	Q	659	*	9,480
3121	Beverages	7,542	Q	587	*	8,158
3122	Tobacco	1,250	0	72	0	1,322
313	Textile Mills	19,222	Q	Q	262	19,753
314	Textile Product Mills	5,880	39	54	0	5,972
315	Apparel	2,013	0	Q	*	2,060
316	Leather and Allied Products	413	0	0	0	413
321	Wood Products	27,443	121	2,189	842	28,911
321113	Sawmills	7,445	118	1,967	839	8,691
3212	Veneer, Plywood, and Engineered Woods	9,902	0	75	1	9,976
3219	Other Wood Products	9,732	Q	44	2	9,779
322	Paper	76,538	181	50,544	5,094	122,168
322110	Pulp Mills	1,671	12	4,616	175	6,124
322121	Paper Mills, except Newsprint	25,394	167	23,957	3,220	46,297
322122	Newsprint Mills	9,294	0	1,705	29	10,970
322130	Paperboard Mills	23,515	0	17,456	1,667	39,305
323	Printing and Related Support	12,986	Q	Q	0	13,089
324	Petroleum and Coal Products	43,853	131	20,015	3,849	60,149
324110	Petroleum Refineries	40,434	94	19,389	3,373	56,543
324199	Other Petroleum and Coal Products	557	37	591	477	709
325	Chemicals	156,682	1,494	55,514	6,584	207,107
325110	Petrochemicals	W	0	5,026	282	W
325120	Industrial Gases	20,908	Q	*	87	20,838
325181	Alkalies and Chlorine	8,893	0	9,980	2,807	16,066

**Table 11.1 Electricity: Components of Net Demand, 2006;****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)
325182	Carbon Black	690	0	202	95	797
325188	Other Basic Inorganic Chemicals	24,096	75	828	39	24,959
325192	Cyclic Crudes and Intermediates	2,566	0	0	0	2,566
325193	Ethyl Alcohol	2,715	2	427	0	3,143
325199	Other Basic Organic Chemicals	W	550	10,637	1,229	W
325211	Plastics Materials and Resins	20,089	447	18,176	1,357	37,356
325212	Synthetic Rubber	1,558	156	410	54	2,071
325222	Noncellulosic Organic Fibers	4,762	148	777	70	5,618
325311	Nitrogenous Fertilizers	2,447	1	242	18	2,672
325312	Phosphatic Fertilizers	1,827	0	2,285	338	3,774
3254	Pharmaceuticals and Medicines	9,198	26	4,578	19	13,784
325412	Pharmaceutical Preparation	6,332	19	4,451	19	10,782
325992	Photographic Film, Paper, Plate, and Chemicals	1,059	0	916	16	1,959
326	Plastics and Rubber Products	53,402	Q	Q	0	53,423
327	Nonmetallic Mineral Products	43,854	60	1,808	939	44,783
327211	Flat Glass	1,903	0	*	0	1,903
327212	Other Pressed and Blown Glass and Glassware	5,121	*	Q	*	5,121
327213	Glass Containers	3,944	0	2	0	3,946
327215	Glass Products from Purchased Glass	3,670	*	7	0	3,677
327310	Cements	12,931	0	1,404	939	13,396
327410	Lime	1,431	0	1	0	1,432
327420	Gypsum	1,845	0	29	0	1,874
327993	Mineral Wool	3,978	54	*	0	4,032
331	Primary Metals	133,236	2,980	5,660	1,891	139,985
331111	Iron and Steel Mills	51,206	175	4,141	183	55,339
331112	Electrometallurgical Ferroalloy Products	3,178	0	0	68	3,111
3312	Steel Products from Purchased Steel	4,396	0	*	0	4,396
3313	Alumina and Aluminum	42,998	2,798	391	1,281	44,906
331314	Secondary Smelting and Alloying of Aluminum	611	0	3	0	613
331315	Aluminum Sheet, Plate and Foils	3,871	0	*	0	3,871
331316	Aluminum Extruded Products	1,976	17	*	0	1,994
3314	Nonferrous Metals, except Aluminum	14,683	0	1,110	360	15,434
3315	Foundries	16,774	7	Q	*	16,798
331511	Iron Foundries	8,563	0	1	*	8,564

**Table 11.1 Electricity: Components of Net Demand, 2006;****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)
331521	Aluminum Die-Casting Foundries	1,930	7	*	0	1,937
331524	Aluminum Foundries, except Die-Casting	1,134	0	*	0	1,135
332	Fabricated Metal Products	41,965	0	Q	0	42,238
333	Machinery	32,266	128	Q	0	32,733
334	Computer and Electronic Products	27,399	109	35	2	27,542
334413	Semiconductors and Related Devices	12,637	109	27	2	12,772
335	Electrical Equip., Appliances, and Components	12,869	0	Q	Q	12,870
336	Transportation Equipment	57,241	9	629	174	57,704
336111	Automobiles	3,890	9	44	14	3,929
336112	Light Trucks and Utility Vehicles	4,495	0	93	72	4,516
3364	Aerospace Product and Parts	11,519	0	461	88	11,892
336411	Aircraft	3,446	0	*	47	3,400
337	Furniture and Related Products	9,264	0	Q	0	9,362
339	Miscellaneous	9,677	0	*	0	9,677
	Total	848,235	5,951	142,986	19,750	977,422

**Northeast Census Region**

311	Food	5,445	0	52	4	5,493
3112	Grain and Oilseed Milling	511	0	4	4	511
311221	Wet Corn Milling	11	0	0	0	11
31131	Sugar Manufacturing	6	0	37	0	44
3114	Fruit and Vegetable Preserving and Specialty Foo	690	0	0	0	690
3115	Dairy Products	1,223	0	*	0	1,223
3116	Animal Slaughtering and Processing	586	0	0	0	586
312	Beverage and Tobacco Products	1,112	0	0	0	1,112
3121	Beverages	1,090	0	0	0	1,090
3122	Tobacco	23	0	0	0	23
313	Textile Mills	1,378	0	0	0	1,378
314	Textile Product Mills	447	38	45	0	530
315	Apparel	132	0	0	0	132
316	Leather and Allied Products	175	0	0	0	175
321	Wood Products	1,803	Q	Q	0	2,469

**Table 11.1 Electricity: Components of Net Demand, 2006;****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)
321113	Sawmills	522	0	Q	0	1,084
3212	Veneer, Plywood, and Engineered Woods	564	0	0	0	564
3219	Other Wood Products	703	Q	*	0	705
322	Paper	8,319	2	7,599	2,533	13,387
322110	Pulp Mills	31	0	411	29	413
322121	Paper Mills, except Newsprint	4,364	2	5,856	2,498	7,724
322122	Newsprint Mills	305	0	245	0	550
322130	Paperboard Mills	1,159	0	1,060	4	2,215
323	Printing and Related Support	1,854	Q	0	0	1,947
324	Petroleum and Coal Products	4,095	0	845	227	4,713
324110	Petroleum Refineries	3,214	0	833	227	3,820
324199	Other Petroleum and Coal Products	282	0	12	0	294
325	Chemicals	11,040	101	2,207	32	13,317
325110	Petrochemicals	19	0	0	0	19
325120	Industrial Gases	2,048	0	0	0	2,048
325181	Alkalies and Chlorine	1,664	0	0	0	1,664
325182	Carbon Black	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	791	75	0	0	866
325192	Cyclic Crudes and Intermediates	178	0	0	0	178
325193	Ethyl Alcohol	1	0	0	0	1
325199	Other Basic Organic Chemicals	592	0	Q	0	602
325211	Plastics Materials and Resins	1,078	0	94	0	1,172
325212	Synthetic Rubber	56	0	0	0	56
325222	Noncellulosic Organic Fibers	53	0	0	0	53
325311	Nitrogenous Fertilizers	39	0	0	0	39
325312	Phosphatic Fertilizers	0	0	0	0	0
3254	Pharmaceuticals and Medicines	2,984	26	1,026	15	4,021
325412	Pharmaceutical Preparation	2,006	19	962	15	2,972
325992	Photographic Film, Paper, Plate, and Chemicals	310	0	916	16	1,210
326	Plastics and Rubber Products	6,856	0	Q	0	6,875
327	Nonmetallic Mineral Products	5,367	Q	Q	*	5,670
327211	Flat Glass	352	0	*	0	352
327212	Other Pressed and Blown Glass and Glassware	356	*	Q	*	357
327213	Glass Containers	759	0	0	0	759

**Table 11.1 Electricity: Components of Net Demand, 2006;****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)
327215	Glass Products from Purchased Glass	374	*	Q	0	377
327310	Cements	1,450	0	0	0	1,450
327410	Lime	77	0	0	0	77
327420	Gypsum	201	0	0	0	201
327993	Mineral Wool	395	0	*	0	395
331	Primary Metals	17,020	24	1,288	127	18,205
331111	Iron and Steel Mills	7,566	7	696	0	8,269
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0
3312	Steel Products from Purchased Steel	644	0	0	0	644
3313	Alumina and Aluminum	5,367	17	*	0	5,384
331314	Secondary Smelting and Alloying of Aluminum	39	0	*	0	39
331315	Aluminum Sheet, Plate and Foils	511	0	0	0	511
331316	Aluminum Extruded Products	270	17	*	0	288
3314	Nonferrous Metals, except Aluminum	2,256	0	592	127	2,722
3315	Foundries	1,186	0	0	0	1,186
331511	Iron Foundries	551	0	0	0	551
331521	Aluminum Die-Casting Foundries	137	0	0	0	137
331524	Aluminum Foundries, except Die-Casting	109	0	0	0	109
332	Fabricated Metal Products	5,267	0	0	0	5,267
333	Machinery	5,066	0	*	0	5,066
334	Computer and Electronic Products	4,985	Q	*	0	5,015
334413	Semiconductors and Related Devices	2,151	Q	*	0	2,180
335	Electrical Equip., Appliances, and Components	1,522	0	Q	Q	1,522
336	Transportation Equipment	6,703	0	370	42	7,031
336111	Automobiles	1	0	0	0	1
336112	Light Trucks and Utility Vehicles	*	0	0	0	*
3364	Aerospace Product and Parts	1,098	0	370	42	1,427
336411	Aircraft	204	0	0	0	204
337	Furniture and Related Products	673	0	0	0	673
339	Miscellaneous	2,622	0	0	0	2,622
	Total	91,879	295	13,389	2,966	102,597

Midwest Census Region

**Table 11.1 Electricity: Components of Net Demand, 2006;****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)
311	Food	30,596	238	3,059	61	33,833
3112	Grain and Oilseed Milling	11,236	184	2,710	60	14,071
31121	Wet Corn Milling	5,839	0	2,308	55	8,092
31131	Sugar Manufacturing	546	54	325	1	925
3114	Fruit and Vegetable Preserving and Specialty Foo	2,889	0	0	0	2,889
3115	Dairy Products	3,723	0	3	0	3,726
3116	Animal Slaughtering and Processing	6,846	0	Q	0	6,854
312	Beverage and Tobacco Products	1,488	0	176	*	1,663
3121	Beverages	1,471	0	176	*	1,646
3122	Tobacco	17	0	0	0	17
313	Textile Mills	Q	0	0	0	Q
314	Textile Product Mills	Q	0	0	0	Q
315	Apparel	48	0	0	0	48
316	Leather and Allied Products	123	0	0	0	123
321	Wood Products	7,515	Q	89	1	7,603
321113	Sawmills	344	0	Q	0	357
3212	Veneer, Plywood, and Engineered Woods	1,149	0	74	1	1,222
3219	Other Wood Products	5,976	Q	2	0	5,978
322	Paper	14,386	150	4,943	45	19,434
322110	Pulp Mills	160	0	0	0	160
322121	Paper Mills, except Newsprint	7,006	150	4,235	45	11,347
322122	Newsprint Mills	515	0	53	0	568
322130	Paperboard Mills	2,394	0	508	0	2,902
323	Printing and Related Support	5,222	0	*	0	5,223
324	Petroleum and Coal Products	9,107	17	846	126	9,845
324110	Petroleum Refineries	8,061	0	846	126	8,781
324199	Other Petroleum and Coal Products	40	17	0	0	57
325	Chemicals	41,322	53	4,855	64	46,167
325110	Petrochemicals	276	0	0	0	276
325120	Industrial Gases	7,264	0	0	0	7,264
325181	Alkalies and Chlorine	209	0	*	0	209
325182	Carbon Black	62	0	0	0	62
325188	Other Basic Inorganic Chemicals	1,248	0	7	9	1,246

**Table 11.1 Electricity: Components of Net Demand, 2006;****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)
325192	Cyclic Crudes and Intermediates	193	0	0	0	193
325193	Ethyl Alcohol	2,623	2	425	0	3,050
325199	Other Basic Organic Chemicals	4,011	2	834	36	4,811
325211	Plastics Materials and Resins	3,560	50	0	1	3,609
325212	Synthetic Rubber	260	0	0	0	260
325222	Noncellulosic Organic Fibers	5	0	0	0	5
325311	Nitrogenous Fertilizers	544	0	0	12	532
325312	Phosphatic Fertilizers	*	0	0	0	*
3254	Pharmaceuticals and Medicines	2,775	0	Q	4	6,253
325412	Pharmaceutical Preparation	2,142	0	Q	4	5,583
325992	Photographic Film, Paper, Plate, and Chemicals	149	0	0	0	149
326	Plastics and Rubber Products	23,078	Q	0	0	23,080
327	Nonmetallic Mineral Products	12,906	0	314	9	13,211
327211	Flat Glass	465	0	*	0	465
327212	Other Pressed and Blown Glass and Glassware	Q	0	0	0	Q
327213	Glass Containers	885	0	1	0	886
327215	Glass Products from Purchased Glass	1,708	0	0	0	1,708
327310	Cements	3,177	0	313	9	3,481
327410	Lime	459	0	0	0	459
327420	Gypsum	399	0	0	0	399
327993	Mineral Wool	1,683	0	0	0	1,683
331	Primary Metals	46,913	168	2,787	246	49,622
331111	Iron and Steel Mills	20,518	168	2,786	179	23,294
331112	Electrometallurgical Ferroalloy Products	2,147	0	0	68	2,080
3312	Steel Products from Purchased Steel	2,067	0	*	0	2,067
3313	Alumina and Aluminum	7,220	0	*	0	7,221
331314	Secondary Smelting and Alloying of Aluminum	257	0	*	0	257
331315	Aluminum Sheet, Plate and Foils	1,178	0	*	0	1,178
331316	Aluminum Extruded Products	760	0	0	0	760
3314	Nonferrous Metals, except Aluminum	5,051	0	*	0	5,051
3315	Foundries	9,909	0	*	*	9,909
331511	Iron Foundries	5,345	0	*	*	5,345
331521	Aluminum Die-Casting Foundries	1,424	0	*	0	1,424
331524	Aluminum Foundries, except Die-Casting	616	0	0	0	616

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**Table 11.1 Electricity: Components of Net Demand, 2006;****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)
332	Fabricated Metal Products	17,626	0	Q	0	17,856
333	Machinery	18,573	128	Q	0	19,040
334	Computer and Electronic Products	4,232	0	Q	*	4,240
334413	Semiconductors and Related Devices	645	0	*	*	645
335	Electrical Equip., Appliances, and Components	4,300	0	*	0	4,300
336	Transportation Equipment	29,726	9	173	86	29,822
336111	Automobiles	2,315	9	15	14	2,325
336112	Light Trucks and Utility Vehicles	2,468	0	93	72	2,489
3364	Aerospace Product and Parts	2,017	0	34	0	2,051
336411	Aircraft	804	0	0	0	804
337	Furniture and Related Products	2,935	0	Q	0	3,027
339	Miscellaneous	2,719	0	*	0	2,719
	Total	273,061	768	17,911	639	291,101

**South Census Region**

311	Food	24,180	21	799	32	24,967
3112	Grain and Oilseed Milling	3,006	21	80	8	3,099
311221	Wet Corn Milling	885	0	62	0	947
31131	Sugar Manufacturing	143	*	363	5	501
3114	Fruit and Vegetable Preserving and Specialty Foo	2,309	0	258	13	2,554
3115	Dairy Products	1,399	0	0	0	1,399
3116	Animal Slaughtering and Processing	8,550	0	9	0	8,558
312	Beverage and Tobacco Products	4,124	0	108	0	4,232
3121	Beverages	2,914	0	36	0	2,950
3122	Tobacco	1,210	0	72	0	1,282
313	Textile Mills	17,653	Q	Q	262	18,185
314	Textile Product Mills	5,144	*	Q	0	5,153
315	Apparel	1,686	0	Q	0	1,733
316	Leather and Allied Products	93	0	0	0	93
321	Wood Products	12,077	68	289	126	12,308
321113	Sawmills	3,608	66	259	124	3,809
3212	Veneer, Plywood, and Engineered Woods	6,140	0	*	*	6,140

**Table 11.1 Electricity: Components of Net Demand, 2006;****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)
3219	Other Wood Products	2,110	Q	30	2	2,140
322	Paper	36,274	14	32,773	848	68,212
322110	Pulp Mills	W	12	4,068	145	W
322121	Paper Mills, except Newsprint	10,805	0	12,478	108	23,175
322122	Newsprint Mills	3,468	0	5	0	3,473
322130	Paperboard Mills	12,651	0	13,586	595	25,642
323	Printing and Related Support	5,002	*	*	0	5,002
324	Petroleum and Coal Products	23,668	113	12,343	2,894	33,231
324110	Petroleum Refineries	22,706	94	12,259	2,850	32,209
324199	Other Petroleum and Coal Products	213	20	84	44	273
325	Chemicals	94,950	1,322	47,872	6,350	137,793
325110	Petrochemicals	W	0	5,026	282	W
325120	Industrial Gases	9,514	0	*	87	9,427
325181	Alkalies and Chlorine	5,691	0	9,980	2,807	12,864
325182	Carbon Black	628	0	202	95	735
325188	Other Basic Inorganic Chemicals	18,994	0	446	19	19,421
325192	Cyclic Crudes and Intermediates	2,191	0	0	0	2,191
325193	Ethyl Alcohol	47	0	1	0	49
325199	Other Basic Organic Chemicals	W	548	9,792	1,193	W
325211	Plastics Materials and Resins	15,216	398	18,078	1,356	32,336
325212	Synthetic Rubber	1,223	156	410	54	1,736
325222	Noncellulosic Organic Fibers	4,704	148	777	70	5,560
325311	Nitrogenous Fertilizers	1,640	1	241	6	1,876
325312	Phosphatic Fertilizers	W	0	2,126	210	W
3254	Pharmaceuticals and Medicines	2,427	0	30	0	2,457
325412	Pharmaceutical Preparation	1,596	0	3	0	1,599
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	0	0	W
326	Plastics and Rubber Products	19,701	0	*	0	19,701
327	Nonmetallic Mineral Products	18,986	54	1,002	928	19,115
327211	Flat Glass	868	0	*	0	868
327212	Other Pressed and Blown Glass and Glassware	1,746	0	*	0	1,746
327213	Glass Containers	1,341	0	1	0	1,342
327215	Glass Products from Purchased Glass	1,299	0	*	0	1,299
327310	Cements	5,406	0	929	928	5,407

**Table 11.1 Electricity: Components of Net Demand, 2006;****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)
327410	Lime	648	0	0	0	648
327420	Gypsum	848	0	3	0	851
327993	Mineral Wool	1,362	54	*	0	1,416
331	Primary Metals	57,132	2,787	1,179	1,281	59,817
331111	Iron and Steel Mills	19,830	0	659	0	20,489
331112	Electrometallurgical Ferroalloy Products	1,028	0	0	0	1,028
3312	Steel Products from Purchased Steel	1,504	0	0	0	1,504
3313	Alumina and Aluminum	26,290	2,780	388	1,281	28,177
331314	Secondary Smelting and Alloying of Aluminum	269	0	0	0	269
331315	Aluminum Sheet, Plate and Foils	1,888	0	0	0	1,888
331316	Aluminum Extruded Products	708	0	0	0	708
3314	Nonferrous Metals, except Aluminum	3,662	0	132	0	3,794
3315	Foundries	4,818	7	*	0	4,825
331511	Iron Foundries	2,541	0	0	0	2,541
331521	Aluminum Die-Casting Foundries	324	7	0	0	331
331524	Aluminum Foundries, except Die-Casting	330	0	*	0	330
332	Fabricated Metal Products	13,937	0	Q	0	13,980
333	Machinery	7,234	0	0	0	7,234
334	Computer and Electronic Products	7,593	80	1	0	7,674
334413	Semiconductors and Related Devices	3,277	80	1	0	3,358
335	Electrical Equip., Appliances, and Components	6,326	0	Q	*	6,327
336	Transportation Equipment	15,678	0	29	47	15,660
336111	Automobiles	1,360	0	29	0	1,390
336112	Light Trucks and Utility Vehicles	2,026	0	*	0	2,026
3364	Aerospace Product and Parts	4,253	0	0	47	4,206
336411	Aircraft	1,502	0	0	47	1,455
337	Furniture and Related Products	5,112	0	Q	0	5,118
339	Miscellaneous	2,720	0	0	0	2,720
	Total	379,271	4,725	97,030	12,768	468,258

**West Census Region**

311	Food	13,022	49	653	Q	13,710
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**Table 11.1 Electricity: Components of Net Demand, 2006;****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)
3112	Grain and Oilseed Milling	530	48	50	0	628
311221	Wet Corn Milling	17	48	26	0	91
31131	Sugar Manufacturing	225	0	225	1	449
3114	Fruit and Vegetable Preserving and Specialty Foo	3,832	1	9	0	3,843
3115	Dairy Products	3,734	0	41	0	3,775
3116	Animal Slaughtering and Processing	1,563	0	0	0	1,563
312	Beverage and Tobacco Products	2,067	Q	375	0	2,473
3121	Beverages	2,067	Q	375	0	2,473
3122	Tobacco	0	0	0	0	0
313	Textile Mills	Q	0	0	0	Q
314	Textile Product Mills	102	*	Q	0	104
315	Apparel	147	0	0	*	147
316	Leather and Allied Products	22	0	0	0	22
321	Wood Products	6,049	51	1,146	715	6,532
321113	Sawmills	2,972	51	1,133	715	3,442
3212	Veneer, Plywood, and Engineered Woods	2,049	0	Q	0	2,050
3219	Other Wood Products	943	0	Q	*	955
322	Paper	17,559	15	5,229	1,668	21,135
322110	Pulp Mills	W	0	137	1	W
322121	Paper Mills, except Newsprint	3,219	15	1,387	570	4,051
322122	Newsprint Mills	5,006	0	1,402	29	6,380
322130	Paperboard Mills	7,311	0	2,303	1,068	8,546
323	Printing and Related Support	908	0	Q	0	917
324	Petroleum and Coal Products	6,983	0	5,981	603	12,361
324110	Petroleum Refineries	6,453	0	5,451	170	11,734
324199	Other Petroleum and Coal Products	22	0	495	433	84
325	Chemicals	9,370	Q	580	138	9,829
325110	Petrochemicals	2	0	0	0	2
325120	Industrial Gases	2,081	Q	0	0	2,099
325181	Alkalies and Chlorine	1,329	0	0	0	1,329
325182	Carbon Black	*	0	0	0	*
325188	Other Basic Inorganic Chemicals	3,062	0	374	11	3,426
325192	Cyclic Crudes and Intermediates	5	0	0	0	5
325193	Ethyl Alcohol	44	0	0	0	44

**Table 11.1 Electricity: Components of Net Demand, 2006;****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)
325199	Other Basic Organic Chemicals	217	0	Q	0	218
325211	Plastics Materials and Resins	234	0	Q	0	238
325212	Synthetic Rubber	19	0	0	0	19
325222	Noncellulosic Organic Fibers	0	0	0	0	0
325311	Nitrogenous Fertilizers	224	0	1	0	225
325312	Phosphatic Fertilizers	W	0	159	128	W
3254	Pharmaceuticals and Medicines	1,012	0	41	0	1,053
325412	Pharmaceutical Preparation	587	0	41	0	628
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	*	0	W
326	Plastics and Rubber Products	3,767	0	0	0	3,767
327	Nonmetallic Mineral Products	6,595	0	193	2	6,787
327211	Flat Glass	218	0	*	0	218
327212	Other Pressed and Blown Glass and Glassware	113	0	*	0	113
327213	Glass Containers	959	0	0	0	959
327215	Glass Products from Purchased Glass	290	0	3	0	292
327310	Cements	2,897	0	163	2	3,059
327410	Lime	248	0	1	0	249
327420	Gypsum	397	0	27	0	424
327993	Mineral Wool	537	0	0	0	537
331	Primary Metals	12,172	0	406	237	12,341
331111	Iron and Steel Mills	3,292	0	0	4	3,288
331112	Electrometallurgical Ferroalloy Products	3	0	0	0	3
3312	Steel Products from Purchased Steel	181	0	0	0	181
3313	Alumina and Aluminum	4,122	0	3	0	4,124
331314	Secondary Smelting and Alloying of Aluminum	45	0	3	0	47
331315	Aluminum Sheet, Plate and Foils	293	0	0	0	293
331316	Aluminum Extruded Products	238	0	0	0	238
3314	Nonferrous Metals, except Aluminum	3,713	0	386	233	3,867
3315	Foundries	861	0	Q	0	878
331511	Iron Foundries	126	0	*	0	126
331521	Aluminum Die-Casting Foundries	45	0	0	0	45
331524	Aluminum Foundries, except Die-Casting	79	0	0	0	79
332	Fabricated Metal Products	5,135	0	0	0	5,135
333	Machinery	1,393	0	0	0	1,393

**Table 11.1 Electricity: Components of Net Demand, 2006;**

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)
334	Computer and Electronic Products	10,589	0	26	2	10,612
334413	Semiconductors and Related Devices	6,564	0	26	2	6,588
335	Electrical Equip., Appliances, and Components	720	0	0	0	720
336	Transportation Equipment	5,134	0	57	0	5,191
336111	Automobiles	214	0	0	0	214
336112	Light Trucks and Utility Vehicles	1	0	0	0	1
3364	Aerospace Product and Parts	4,151	0	57	0	4,208
336411	Aircraft	937	0	*	0	937
337	Furniture and Related Products	544	0	0	0	544
339	Miscellaneous	1,615	0	0	0	1,615
	Total	104,025	163	14,656	3,378	115,466

(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.

Source: Energy Information Administration, Office of Energy Markets

Released: October 2009

Next MECS will be conducted in 2010

**Table 11.1 Electricity: Components of Net Demand, 2006;**

**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)
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and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing  
Energy Consumption Survey.'

Released: October 2009

Next MECS will be conducted in 2010

**Table 11.2 Electricity: Components of Net Demand, 2006;**

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)
<b>Total United States</b>					
<b>Value of Shipments and Receipts (million dollars)</b>					
Under 20	107,618	56	1,447	28	109,094
20-49	97,570	181	5,220	307	102,664
50-99	104,082	Q	3,784	2,218	106,089
100-249	179,369	831	17,821	2,647	195,374
250-499	123,961	452	28,464	3,736	149,142
500 and Over	235,635	3,989	86,249	10,814	315,059
Total	848,235	5,951	142,986	19,750	977,422
<b>Employment Size</b>					
Under 50	98,185	139	2,193	516	100,000
50-99	68,671	734	6,617	1,193	74,828
100-249	194,644	1,195	12,403	3,825	204,416
250-499	176,833	599	31,414	3,796	205,050
500-999	170,411	121	39,099	4,311	205,321
1000 and Over	139,491	3,163	51,261	6,108	187,807
Total	848,235	5,951	142,986	19,750	977,422
<b>Northeast Census Region</b>					
<b>Value of Shipments and Receipts (million dollars)</b>					
Under 20	16,175	Q	Q	20	17,046
20-49	W	W	412	Q	13,864
50-99	W	W	416	231	13,093
100-249	19,965	Q	3,914	1,531	22,472
250-499	10,005	7	2,586	810	11,788
500 and Over	19,522	0	5,183	370	24,335

Released: October 2009

Next MECS will be conducted in 2010

**Table 11.2 Electricity: Components of Net Demand, 2006;**

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)
Total	91,879	295	13,389	2,966	102,597
<b>Employment Size</b>					
Under 50	12,141	Q	Q	20	13,026
50-99	W	W	1,127	Q	10,734
100-249	22,211	Q	854	6	23,211
250-499	17,313	36	1,867	1,131	18,085
500-999	W	W	5,366	1,665	19,250
1000 and Over	15,122	0	3,312	142	18,292
Total	91,879	295	13,389	2,966	102,597

**Midwest Census Region**

**Value of Shipments and Receipts**

(million dollars)

Under 20	38,711	4	Q	0	38,843
20-49	W	W	Q	27	34,656
50-99	W	W	148	14	38,835
100-249	69,888	389	2,403	37	72,644
250-499	29,429	17	3,719	96	33,070
500 and Over	65,387	303	7,828	465	73,053
Total	273,061	768	17,911	639	291,101

**Employment Size**

Under 50	38,205	4	206	0	38,416
50-99	W	W	Q	12	25,727
100-249	68,025	151	1,131	37	69,270
250-499	51,433	238	5,128	171	56,629
500-999	W	W	2,689	102	52,023
1000 and Over	43,871	303	5,179	317	49,036
Total	273,061	768	17,911	639	291,101

Released: October 2009

Next MECS will be conducted in 2010

**Table 11.2 Electricity: Components of Net Demand, 2006;**

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)
<b>South Census Region</b>					
<b>Value of Shipments and Receipts (million dollars)</b>					
Under 20	38,012	21	197	6	38,223
20-49	40,267	20	507	112	40,682
50-99	41,424	Q	1,694	1,210	42,275
100-249	67,345	218	8,578	234	75,906
250-499	60,914	413	19,659	1,788	79,199
500 and Over	131,308	3,686	66,396	9,418	191,973
Total	379,271	4,725	97,030	12,768	468,258
<b>Employment Size</b>					
Under 50	35,176	Q	336	52	35,535
50-99	W	W	1,352	967	28,542
100-249	81,938	891	9,085	3,412	88,501
250-499	79,531	258	19,511	792	98,507
500-999	W	W	26,924	2,111	113,654
1000 and Over	66,269	2,860	39,822	5,434	103,518
Total	379,271	4,725	97,030	12,768	468,258
<b>West Census Region</b>					
<b>Value of Shipments and Receipts (million dollars)</b>					
Under 20	14,720	Q	244	1	14,982
20-49	12,980	Q	617	165	13,462
50-99	11,124	0	1,527	764	11,887
100-249	22,170	99	2,926	844	24,351
250-499	23,614	15	2,501	1,043	25,087
500 and Over	19,418	0	6,842	561	25,699

**Table 11.2 Electricity: Components of Net Demand, 2006;**

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)
Total	104,025	163	14,656	3,378	115,466
<b>Employment Size</b>					
Under 50	12,663	Q	787	444	13,024
50-99	9,400	78	561	212	9,826
100-249	22,470	1	1,333	370	23,434
250-499	28,557	66	4,908	1,702	31,829
500-999	16,707	0	4,121	433	20,394
1000 and Over	14,229	0	2,947	216	16,960
Total	104,025	163	14,656	3,378	115,466

(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

Released: October 2009

Next MECS will be conducted in 2010

**Table 11.2 Electricity: Components of Net Demand, 2006;**

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)
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and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 11.3 Electricity: Components of Onsite Generation, 2006:**

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)
Total United States					
311	Food	4,563	4,249	*	313
3112	Grain and Oilseed Milling	2,845	2,819	0	27
311221	Wet Corn Milling	2,396	2,370	0	27
31131	Sugar Manufacturing	951	951	0	*
3114	Fruit and Vegetable Preserving and Specialty Foods	268	268	0	*
3115	Dairy Products	44	31	*	Q
3116	Animal Slaughtering and Processing	17	0	0	17
312	Beverage and Tobacco Products	659	623	Q	*
3121	Beverages	587	551	Q	*
3122	Tobacco	72	72	0	*
313	Textile Mills	Q	Q	0	0
314	Textile Product Mills	54	46	Q	7
315	Apparel	Q	Q	0	0
316	Leather and Allied Products	0	0	0	0
321	Wood Products	2,189	1,627	Q	Q
321113	Sawmills	1,967	1,408	*	Q
3212	Veneer, Plywood, and Engineered Woods	75	74	Q	*
3219	Other Wood Products	44	42	0	2
322	Paper	50,544	49,418	894	232
322110	Pulp Mills	4,616	4,503	113	*
322121	Paper Mills, except Newsprint	23,957	23,425	532	*
322122	Newsprint Mills	1,705	1,485	220	0
322130	Paperboard Mills	17,456	17,230	19	207
323	Printing and Related Support	Q	Q	0	*
324	Petroleum and Coal Products	20,015	19,665	0	349
324110	Petroleum Refineries	19,389	19,074	0	315
324199	Other Petroleum and Coal Products	591	591	0	0
325	Chemicals	55,514	55,195	2	317
325110	Petrochemicals	5,026	5,019	0	7
325120	Industrial Gases	*	0	0	*

**Table 11.3 Electricity: Components of Onsite Generation, 2006:**

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)
325181	Alkalies and Chlorine	9,980	9,980	0	*
325182	Carbon Black	202	202	0	0
325188	Other Basic Inorganic Chemicals	828	758	0	70
325192	Cyclic Crudes and Intermediates	0	0	0	0
325193	Ethyl Alcohol	427	389	0	38
325199	Other Basic Organic Chemicals	10,637	10,589	0	48
325211	Plastics Materials and Resins	18,176	18,069	*	107
325212	Synthetic Rubber	410	410	0	0
325222	Noncellulosic Organic Fibers	777	777	0	0
325311	Nitrogenous Fertilizers	242	241	0	1
325312	Phosphatic Fertilizers	2,285	2,285	0	0
3254	Pharmaceuticals and Medicines	4,578	4,531	2	46
325412	Pharmaceutical Preparation	4,451	4,406	Q	44
325992	Photographic Film, Paper, Plate, and Chemicals	916	915	*	0
326	Plastics and Rubber Products	Q	Q	*	0
327	Nonmetallic Mineral Products	1,808	1,481	Q	Q
327211	Flat Glass	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	Q	0	Q	*
327213	Glass Containers	2	0	0	2
327215	Glass Products from Purchased Glass	7	4	0	Q
327310	Cements	1,404	1,404	0	*
327410	Lime	1	1	0	0
327420	Gypsum	29	27	0	3
327993	Mineral Wool	*	0	0	*
331	Primary Metals	5,660	4,372	*	1,288
331111	Iron and Steel Mills	4,141	3,449	0	693
331112	Electrometallurgical Ferroalloy Products	0	0	0	0
3312	Steel Products from Purchased Steel	*	0	0	*
3313	Alumina and Aluminum	391	391	*	*
331314	Secondary Smelting and Alloying of Aluminum	3	3	0	*
331315	Aluminum Sheet, Plate and Foils	*	0	0	*
331316	Aluminum Extruded Products	*	0	*	0
3314	Nonferrous Metals, except Aluminum	1,110	517	0	594

**Table 11.3 Electricity: Components of Onsite Generation, 2006:**

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)
3315	Foundries	Q	Q	0	1
331511	Iron Foundries	1	*	0	*
331521	Aluminum Die-Casting Foundries	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	*	0	0	*
332	Fabricated Metal Products	Q	Q	0	Q
333	Machinery	Q	Q	0	*
334	Computer and Electronic Products	35	25	3	Q
334413	Semiconductors and Related Devices	27	25	3	*
335	Electrical Equip., Appliances, and Components	Q	0	*	Q
336	Transportation Equipment	629	534	93	2
336111	Automobiles	44	44	0	*
336112	Light Trucks and Utility Vehicles	93	0	93	*
3364	Aerospace Product and Parts	461	460	0	1
336411	Aircraft	*	0	0	*
337	Furniture and Related Products	Q	Q	0	Q
339	Miscellaneous	*	0	0	*
	Total	142,986	138,480	1,030	3,476

**Northeast Census Region**

311	Food	52	42	*	Q
3112	Grain and Oilseed Milling	4	4	0	0
311221	Wet Corn Milling	0	0	0	0
31131	Sugar Manufacturing	37	37	0	*
3114	Fruit and Vegetable Preserving and Specialty Foods	0	0	0	0
3115	Dairy Products	*	0	*	0
3116	Animal Slaughtering and Processing	0	0	0	0
312	Beverage and Tobacco Products	0	0	0	0
3121	Beverages	0	0	0	0
3122	Tobacco	0	0	0	0
313	Textile Mills	0	0	0	0
314	Textile Product Mills	45	38	0	7

**Table 11.3 Electricity: Components of Onsite Generation, 2006;**

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)
315	Apparel	0	0	0	0
316	Leather and Allied Products	0	0	0	0
321	Wood Products	Q	116	0	Q
321113	Sawmills	Q	13	0	Q
3212	Veneer, Plywood, and Engineered Woods	0	0	0	0
3219	Other Wood Products	*	0	0	*
322	Paper	7,599	7,004	570	Q
322110	Pulp Mills	411	298	113	0
322121	Paper Mills, except Newsprint	5,856	5,625	231	0
322122	Newsprint Mills	245	24	220	0
322130	Paperboard Mills	1,060	1,054	6	0
323	Printing and Related Support	0	0	0	0
324	Petroleum and Coal Products	845	689	0	155
324110	Petroleum Refineries	833	677	0	155
324199	Other Petroleum and Coal Products	12	12	0	0
325	Chemicals	2,207	2,069	1	138
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	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	Q	Q	0	0
325211	Plastics Materials and Resins	94	0	0	94
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	1,026	981	1	44
325412	Pharmaceutical Preparation	962	920	0	42
325992	Photographic Film, Paper, Plate, and Chemicals	916	915	*	0
326	Plastics and Rubber Products	Q	Q	0	0

**Table 11.3 Electricity: Components of Onsite Generation, 2006;**

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)
327	Nonmetallic Mineral Products	Q	34	Q	Q
327211	Flat Glass	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	Q	0	Q	0
327213	Glass Containers	0	0	0	0
327215	Glass Products from Purchased Glass	Q	Q	0	Q
327310	Cements	0	0	0	0
327410	Lime	0	0	0	0
327420	Gypsum	0	0	0	0
327993	Mineral Wool	*	0	0	*
331	Primary Metals	1,288	107	*	1,181
331111	Iron and Steel Mills	696	107	0	589
331112	Electrometallurgical Ferroalloy Products	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0
3313	Alumina and Aluminum	*	0	*	*
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	0	0	0	0
331316	Aluminum Extruded Products	*	0	*	0
3314	Nonferrous Metals, except Aluminum	592	0	0	592
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	*	0	0	*
334	Computer and Electronic Products	*	*	0	0
334413	Semiconductors and Related Devices	*	*	0	0
335	Electrical Equip., Appliances, and Components	Q	0	0	Q
336	Transportation Equipment	370	370	0	0
336111	Automobiles	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0
3364	Aerospace Product and Parts	370	370	0	0
336411	Aircraft	0	0	0	0
337	Furniture and Related Products	0	0	0	0

**Table 11.3 Electricity: Components of Onsite Generation, 2006;**

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)
339	Miscellaneous Total	0 13,389	0 10,488	0 572	0 2,330
<b>Midwest Census Region</b>					
311	Food	3,059	3,023	0	36
3112	Grain and Oilseed Milling	2,710	2,684	0	27
311221	Wet Corn Milling	2,308	2,281	0	27
31131	Sugar Manufacturing	325	325	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	0	0	0	0
3115	Dairy Products	3	2	0	1
3116	Animal Slaughtering and Processing	Q	0	0	Q
312	Beverage and Tobacco Products	176	176	0	0
3121	Beverages	176	176	0	0
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
321	Wood Products	89	77	0	Q
321113	Sawmills	Q	3	0	Q
3212	Veneer, Plywood, and Engineered Woods	74	74	0	0
3219	Other Wood Products	2	0	0	2
322	Paper	4,943	4,622	321	0
322110	Pulp Mills	0	0	0	0
322121	Paper Mills, except Newsprint	4,235	3,937	298	0
322122	Newsprint Mills	53	53	0	0
322130	Paperboard Mills	508	494	14	0
323	Printing and Related Support	*	0	0	*
324	Petroleum and Coal Products	846	846	0	*
324110	Petroleum Refineries	846	846	0	0
324199	Other Petroleum and Coal Products	0	0	0	0

**Table 11.3 Electricity: Components of Onsite Generation, 2006;**

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)
325	Chemicals	4,855	4,816	0	39
325110	Petrochemicals	0	0	0	0
325120	Industrial Gases	0	0	0	0
325181	Alkalies and Chlorine	*	0	0	*
325182	Carbon Black	0	0	0	0
325188	Other Basic Inorganic Chemicals	7	7	0	*
325192	Cyclic Crudes and Intermediates	0	0	0	0
325193	Ethyl Alcohol	425	387	0	38
325199	Other Basic Organic Chemicals	834	834	0	0
325211	Plastics Materials and Resins	0	0	0	0
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	Q	Q	0	*
325412	Pharmaceutical Preparation	Q	Q	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	314	313	0	1
327211	Flat Glass	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0
327213	Glass Containers	1	0	0	1
327215	Glass Products from Purchased Glass	0	0	0	0
327310	Cements	313	313	0	0
327410	Lime	0	0	0	0
327420	Gypsum	0	0	0	0
327993	Mineral Wool	0	0	0	0
331	Primary Metals	2,787	2,786	0	1
331111	Iron and Steel Mills	2,786	2,786	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0
3312	Steel Products from Purchased Steel	*	0	0	*
3313	Alumina and Aluminum	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	*

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**Table 11.3 Electricity: Components of Onsite Generation, 2006:**

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)
331315	Aluminum Sheet, Plate and Foils	*	0	0	*
331316	Aluminum Extruded Products	0	0	0	0
3314	Nonferrous Metals, except Aluminum	*	0	0	*
3315	Foundries	*	*	0	*
331511	Iron Foundries	*	*	0	*
331521	Aluminum Die-Casting Foundries	*	0	0	*
331524	Aluminum Foundries, except Die-Casting	0	0	0	0
332	Fabricated Metal Products	Q	Q	0	Q
333	Machinery	Q	Q	0	*
334	Computer and Electronic Products	Q	0	*	Q
334413	Semiconductors and Related Devices	*	0	*	0
335	Electrical Equip., Appliances, and Components	*	0	0	*
336	Transportation Equipment	173	78	93	2
336111	Automobiles	15	15	0	*
336112	Light Trucks and Utility Vehicles	93	0	93	0
3364	Aerospace Product and Parts	34	33	0	1
336411	Aircraft	0	0	0	0
337	Furniture and Related Products	Q	Q	0	Q
339	Miscellaneous	*	0	0	*
	Total	17,911	17,328	414	168

South Census Region					
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311	Food	799	790	0	9
3112	Grain and Oilseed Milling	80	80	0	0
311221	Wet Corn Milling	62	62	0	0
31131	Sugar Manufacturing	363	363	0	*
3114	Fruit and Vegetable Preserving and Specialty Foods	258	258	0	0
3115	Dairy Products	0	0	0	0
3116	Animal Slaughtering and Processing	9	0	0	9
312	Beverage and Tobacco Products	108	108	0	*
3121	Beverages	36	36	0	0

**Table 11.3 Electricity: Components of Onsite Generation, 2006;**

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)
3122	Tobacco	72	72	0	*
313	Textile Mills	Q	Q	0	0
314	Textile Product Mills	Q	Q	0	0
315	Apparel	Q	Q	0	0
316	Leather and Allied Products	0	0	0	0
321	Wood Products	289	289	0	*
321113	Sawmills	259	259	0	0
3212	Veneer, Plywood, and Engineered Woods	*	0	0	*
3219	Other Wood Products	30	30	0	0
322	Paper	32,773	32,565	*	207
322110	Pulp Mills	4,068	4,068	0	*
322121	Paper Mills, except Newsprint	12,478	12,478	0	0
322122	Newsprint Mills	5	5	0	0
322130	Paperboard Mills	13,586	13,379	*	207
323	Printing and Related Support	*	0	0	*
324	Petroleum and Coal Products	12,343	12,267	0	76
324110	Petroleum Refineries	12,259	12,183	0	76
324199	Other Petroleum and Coal Products	84	84	0	0
325	Chemicals	47,872	47,740	*	131
325110	Petrochemicals	5,026	5,019	0	7
325120	Industrial Gases	*	0	0	*
325181	Alkalies and Chlorine	9,980	9,980	0	0
325182	Carbon Black	202	202	0	0
325188	Other Basic Inorganic Chemicals	446	385	0	61
325192	Cyclic Crudes and Intermediates	0	0	0	0
325193	Ethyl Alcohol	1	1	0	0
325199	Other Basic Organic Chemicals	9,792	9,743	0	48
325211	Plastics Materials and Resins	18,078	18,065	*	13
325212	Synthetic Rubber	410	410	0	0
325222	Noncellulosic Organic Fibers	777	777	0	0
325311	Nitrogenous Fertilizers	241	241	0	0
325312	Phosphatic Fertilizers	2,126	2,126	0	0
3254	Pharmaceuticals and Medicines	30	28	0	1

**Table 11.3 Electricity: Components of Onsite Generation, 2006;**

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)
325412	Pharmaceutical Preparation	3	1	0	1
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0
326	Plastics and Rubber Products	*	0	*	0
327	Nonmetallic Mineral Products	1,002	941	0	Q
327211	Flat Glass	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	*	0	0	*
327213	Glass Containers	1	0	0	1
327215	Glass Products from Purchased Glass	*	0	0	*
327310	Cements	929	929	0	*
327410	Lime	0	0	0	0
327420	Gypsum	3	0	0	3
327993	Mineral Wool	*	0	0	*
331	Primary Metals	1,179	1,074	0	105
331111	Iron and Steel Mills	659	556	0	104
331112	Electrometallurgical Ferroalloy Products	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0
3313	Alumina and Aluminum	388	388	0	*
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0
3314	Nonferrous Metals, except Aluminum	132	130	0	2
3315	Foundries	*	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	*
332	Fabricated Metal Products	Q	Q	0	0
333	Machinery	0	0	0	0
334	Computer and Electronic Products	1	0	1	0
334413	Semiconductors and Related Devices	1	0	1	0
335	Electrical Equip., Appliances, and Components	Q	0	*	Q
336	Transportation Equipment	29	29	0	*
336111	Automobiles	29	29	0	0
336112	Light Trucks and Utility Vehicles	*	0	0	*

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**Table 11.3 Electricity: Components of Onsite Generation, 2006:**

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)
3364	Aerospace Product and Parts	0	0	0	0
336411	Aircraft	0	0	0	0
337	Furniture and Related Products	Q	Q	0	0
339	Miscellaneous	0	0	0	0
	Total	97,030	96,437	3	591
<b>West Census Region</b>					
311	Food	653	394	0	259
3112	Grain and Oilseed Milling	50	50	0	0
311221	Wet Corn Milling	26	26	0	0
31131	Sugar Manufacturing	225	225	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	9	9	0	*
3115	Dairy Products	41	30	0	Q
3116	Animal Slaughtering and Processing	0	0	0	0
312	Beverage and Tobacco Products	375	340	Q	*
3121	Beverages	375	340	Q	*
3122	Tobacco	0	0	0	0
313	Textile Mills	0	0	0	0
314	Textile Product Mills	Q	*	Q	0
315	Apparel	0	0	0	0
316	Leather and Allied Products	0	0	0	0
321	Wood Products	1,146	1,145	Q	0
321113	Sawmills	1,133	1,133	*	0
3212	Veneer, Plywood, and Engineered Woods	Q	0	Q	0
3219	Other Wood Products	Q	Q	0	0
322	Paper	5,229	5,227	2	*
322110	Pulp Mills	137	137	0	0
322121	Paper Mills, except Newsprint	1,387	1,385	2	*
322122	Newsprint Mills	1,402	1,402	0	0
322130	Paperboard Mills	2,303	2,303	0	0
323	Printing and Related Support	Q	Q	0	0

**Table 11.3 Electricity: Components of Onsite Generation, 2006;**

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)
324	Petroleum and Coal Products	5,981	5,863	0	118
324110	Petroleum Refineries	5,451	5,368	0	83
324199	Other Petroleum and Coal Products	495	495	0	0
325	Chemicals	580	569	1	10
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	374	365	0	9
325192	Cyclic Crudes and Intermediates	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0
325199	Other Basic Organic Chemicals	Q	Q	0	0
325211	Plastics Materials and Resins	Q	Q	0	0
325212	Synthetic Rubber	0	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0	0
325311	Nitrogenous Fertilizers	1	0	0	1
325312	Phosphatic Fertilizers	159	159	0	0
3254	Pharmaceuticals and Medicines	41	40	1	*
325412	Pharmaceutical Preparation	41	40	Q	*
325992	Photographic Film, Paper, Plate, and Chemicals	*	*	0	0
326	Plastics and Rubber Products	0	0	0	0
327	Nonmetallic Mineral Products	193	193	0	*
327211	Flat Glass	*	0	0	*
327212	Other Pressed and Blown Glass and Glassware	*	0	0	*
327213	Glass Containers	0	0	0	0
327215	Glass Products from Purchased Glass	3	3	0	0
327310	Cements	163	163	0	0
327410	Lime	1	1	0	0
327420	Gypsum	27	27	0	*
327993	Mineral Wool	0	0	0	0
331	Primary Metals	406	405	0	*
331111	Iron and Steel Mills	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0

**Table 11.3 Electricity: Components of Onsite Generation, 2006;**

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)
3312	Steel Products from Purchased Steel	0	0	0	0
3313	Alumina and Aluminum	3	3	0	0
331314	Secondary Smelting and Alloying of Aluminum	3	3	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0
3314	Nonferrous Metals, except Aluminum	386	386	0	*
3315	Foundries	Q	Q	0	*
331511	Iron Foundries	*	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	0	0	0	0
334	Computer and Electronic Products	26	25	1	*
334413	Semiconductors and Related Devices	26	25	1	*
335	Electrical Equip., Appliances, and Components	0	0	0	0
336	Transportation Equipment	57	57	0	*
336111	Automobiles	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0
3364	Aerospace Product and Parts	57	57	0	*
336411	Aircraft	*	0	0	*
337	Furniture and Related Products	0	0	0	0
339	Miscellaneous	0	0	0	0
	Total	14,656	14,227	Q	387

(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

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**Table 11.3 Electricity: Components of Onsite Generation, 2006;**

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)
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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, '2006 Manufacturing Energy Consumption Survey.'

**Table 11.4 Electricity: Components of Onsite Generation, 2006;**

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)			
			and	Other Biomass)				
<b>Total United States</b>								
<b>Value of Shipments and Receipts (million dollars)</b>								
Under 20	1,447	450	Q	Q				
20-49	5,220	5,106	29	Q				
50-99	3,784	3,579	29	Q				
100-249	17,821	17,115	484	222				
250-499	28,464	27,202	334	927				
500 and Over	86,249	85,028	106	1,114				
Total	142,986	138,480	1,030	3,476				
<b>Employment Size</b>								
Under 50	2,193	1,177	Q	Q				
50-99	6,617	6,438	13	166				
100-249	12,403	12,039	266	98				
250-499	31,414	30,722	302	390				
500-999	39,099	37,942	154	1,003				
1000 and Over	51,261	50,161	249	851				
Total	142,986	138,480	1,030	3,476				
<b>Northeast Census Region</b>								
<b>Value of Shipments and Receipts (million dollars)</b>								
Under 20	Q	25	20	Q				
20-49	412	388	14	11				
50-99	416	416	0	*				
100-249	3,914	3,632	W	W				
250-499	2,586	1,632	W	W				
500 and Over	5,183	4,394	1	788				
Total	13,389	10,488	572	2,330				
<b>Employment Size</b>								
Under 50	Q	Q	20	Q				
50-99	1,127	1,023	6	98				
100-249	854	W	W	W				
250-499	1,867	1,694	163	Q				
500-999	5,366	W	0	W				
1000 and Over	3,312	2,524	W	W				
Total	13,389	10,488	572	2,330				

**Table 11.4 Electricity: Components of Onsite Generation, 2006;**

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)
<b>Midwest Census Region</b>				
<b>Value of Shipments and Receipts (million dollars)</b>				
Under 20	Q	Q	0	Q
20-49	Q	Q	15	Q
50-99	148	127	19	1
100-249	2,403	2,185	W	W
250-499	3,719	3,624	W	W
500 and Over	7,828	7,683	105	40
Total	17,911	17,328	414	168
<b>Employment Size</b>				
Under 50	206	127	0	Q
50-99	Q	Q	6	Q
100-249	1,131	1,101	W	W
250-499	5,128	4,928	135	66
500-999	2,689	2,528	152	Q
1000 and Over	5,179	5,082	W	W
Total	17,911	17,328	414	168
<b>South Census Region</b>				
<b>Value of Shipments and Receipts (million dollars)</b>				
Under 20	197	196	*	Q
20-49	507	449	0	Q
50-99	1,694	1,631	0	63
100-249	8,578	8,521	2	55
250-499	19,659	19,446	*	212
500 and Over	66,396	66,193	*	203
Total	97,030	96,437	3	591
<b>Employment Size</b>				
Under 50	336	335	0	Q
50-99	1,352	1,294	*	Q
100-249	9,085	9,023	*	62
250-499	19,511	19,296	2	212
500-999	26,924	26,835	*	89
1000 and Over	39,822	39,653	0	170
Total	97,030	96,437	3	591

**Table 11.4 Electricity: Components of Onsite Generation, 2006;**

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)
<b>West Census Region</b>				
<b>Value of Shipments and Receipts (million dollars)</b>				
Under 20	244	181	Q	Q
20-49	617	608	*	9
50-99	1,527	1,405	Q	Q
100-249	2,926	2,776	3	Q
250-499	2,501	2,499	1	*
500 and Over	6,842	6,758	1	83
Total	14,656	14,227	Q	387
<b>Employment Size</b>				
Under 50	787	704	Q	Q
50-99	561	559	*	1
100-249	1,333	W	Q	W
250-499	4,908	4,804	3	Q
500-999	4,121	W	1	W
1000 and Over	2,947	2,902	1	45
Total	14,656	14,227	Q	387

(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, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'

**Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2006;**

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)
<b>Total United States</b>				
311	Food	111	86	25
3112	Grain and Oilseed Milling	72	51	21
311221	Wet Corn Milling	55	42	13
31131	Sugar Manufacturing	7	3	4
3114	Fruit and Vegetable Preserving and Specialty Foods	13	13	0
3115	Dairy Products	0	0	0
3116	Animal Slaughtering and Processing	0	0	0
312	Beverage and Tobacco Products	*	*	0
3121	Beverages	*	*	0
3122	Tobacco	0	0	0
313	Textile Mills	262	262	0
314	Textile Product Mills	0	0	0
315	Apparel	*	*	0
316	Leather and Allied Products	0	0	0
321	Wood Products	842	828	Q
321113	Sawmills	839	825	Q
3212	Veneer, Plywood, and Engineered Woods	1	1	0
3219	Other Wood Products	2	2	0
322	Paper	5,094	2,714	2,380
322110	Pulp Mills	175	166	9
322121	Paper Mills, except Newsprint	3,220	1,707	1,513
322122	Newsprint Mills	29	29	0
322130	Paperboard Mills	1,667	809	858
323	Printing and Related Support	0	0	0
324	Petroleum and Coal Products	3,849	757	3,092
324110	Petroleum Refineries	3,373	567	2,806
324199	Other Petroleum and Coal Products	477	190	287
325	Chemicals	6,584	3,917	2,667
325110	Petrochemicals	282	192	90
325120	Industrial Gases	87	87	0
325181	Alkalies and Chlorine	2,807	2,224	584
325182	Carbon Black	95	95	0
325188	Other Basic Inorganic Chemicals	39	30	10
325192	Cyclic Crudes and Intermediates	0	0	0
325193	Ethyl Alcohol	0	0	0
325199	Other Basic Organic Chemicals	1,229	538	690
325211	Plastics Materials and Resins	1,357	385	972
325212	Synthetic Rubber	54	*	53
325222	Noncellulosic Organic Fibers	70	9	60
325311	Nitrogenous Fertilizers	18	3	16
325312	Phosphatic Fertilizers	338	338	0
3254	Pharmaceuticals and Medicines	19	15	4
325412	Pharmaceutical Preparation	19	15	4
325992	Photographic Film, Paper, Plate, and Chemicals	16	*	16
326	Plastics and Rubber Products	0	0	0
327	Nonmetallic Mineral Products	939	939	0
327211	Flat Glass	0	0	0
327212	Other Pressed and Blown Glass and Glassware	*	*	0

**Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2006;**

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)
327213	Glass Containers	0	0	0
327215	Glass Products from Purchased Glass	0	0	0
327310	Cements	939	939	0
327410	Lime	0	0	0
327420	Gypsum	0	0	0
327993	Mineral Wool	0	0	0
331	Primary Metals	1,891	1,755	136
331111	Iron and Steel Mills	183	51	132
331112	Electrometallurgical Ferroalloy Products	68	68	0
3312	Steel Products from Purchased Steel	0	0	0
3313	Alumina and Aluminum	1,281	1,281	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0
331316	Aluminum Extruded Products	0	0	0
3314	Nonferrous Metals, except Aluminum	360	356	4
3315	Foundries	*	*	0
331511	Iron Foundries	*	*	0
331521	Aluminum Die-Casting Foundries	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0
332	Fabricated Metal Products	0	0	0
333	Machinery	0	0	0
334	Computer and Electronic Products	2	2	0
334413	Semiconductors and Related Devices	2	2	0
335	Electrical Equip., Appliances, and Components	Q	Q	0
336	Transportation Equipment	174	38	136
336111	Automobiles	14	0	14
336112	Light Trucks and Utility Vehicles	72	38	33
3364	Aerospace Product and Parts	88	0	88
336411	Aircraft	47	0	47
337	Furniture and Related Products	0	0	0
339	Miscellaneous	0	0	0
	Total	19,750	11,301	8,449

**Northeast Census Region**

311	Food	4	4	0
3112	Grain and Oilseed Milling	4	4	0
311221	Wet Corn Milling	0	0	0
31131	Sugar Manufacturing	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	0	0	0
3115	Dairy Products	0	0	0
3116	Animal Slaughtering and Processing	0	0	0
312	Beverage and Tobacco Products	0	0	0
3121	Beverages	0	0	0
3122	Tobacco	0	0	0
313	Textile Mills	0	0	0
314	Textile Product Mills	0	0	0
315	Apparel	0	0	0
316	Leather and Allied Products	0	0	0
321	Wood Products	0	0	0

**Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2006;**

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)
321113	Sawmills	0	0	0
3212	Veneer, Plywood, and Engineered Woods	0	0	0
3219	Other Wood Products	0	0	0
322	Paper	2,533	1,057	1,476
322110	Pulp Mills	29	29	0
322121	Paper Mills, except Newsprint	2,498	1,025	1,473
322122	Newsprint Mills	0	0	0
322130	Paperboard Mills	4	*	3
323	Printing and Related Support	0	0	0
324	Petroleum and Coal Products	227	227	0
324110	Petroleum Refineries	227	227	0
324199	Other Petroleum and Coal Products	0	0	0
325	Chemicals	32	15	17
325110	Petrochemicals	0	0	0
325120	Industrial Gases	0	0	0
325181	Alkalies and Chlorine	0	0	0
325182	Carbon Black	0	0	0
325188	Other Basic Inorganic Chemicals	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0
325193	Ethyl Alcohol	0	0	0
325199	Other Basic Organic Chemicals	0	0	0
325211	Plastics Materials and Resins	0	0	0
325212	Synthetic Rubber	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0
325311	Nitrogenous Fertilizers	0	0	0
325312	Phosphatic Fertilizers	0	0	0
3254	Pharmaceuticals and Medicines	15	15	0
325412	Pharmaceutical Preparation	15	15	0
325992	Photographic Film, Paper, Plate, and Chemicals	16	*	16
326	Plastics and Rubber Products	0	0	0
327	Nonmetallic Mineral Products	*	*	0
327211	Flat Glass	0	0	0
327212	Other Pressed and Blown Glass and Glassware	*	*	0
327213	Glass Containers	0	0	0
327215	Glass Products from Purchased Glass	0	0	0
327310	Cements	0	0	0
327410	Lime	0	0	0
327420	Gypsum	0	0	0
327993	Mineral Wool	0	0	0
331	Primary Metals	127	123	4
331111	Iron and Steel Mills	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0
3312	Steel Products from Purchased Steel	0	0	0
3313	Alumina and Aluminum	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0
331316	Aluminum Extruded Products	0	0	0
3314	Nonferrous Metals, except Aluminum	127	123	4
3315	Foundries	0	0	0
331511	Iron Foundries	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0

**Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2006;**  
 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)
331524	Aluminum Foundries, except Die-Casting	0	0	0
332	Fabricated Metal Products	0	0	0
333	Machinery	0	0	0
334	Computer and Electronic Products	0	0	0
334413	Semiconductors and Related Devices	0	0	0
335	Electrical Equip., Appliances, and Components	Q	Q	0
336	Transportation Equipment	42	0	42
336111	Automobiles	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0
3364	Aerospace Product and Parts	42	0	42
336411	Aircraft	0	0	0
337	Furniture and Related Products	0	0	0
339	Miscellaneous	0	0	0
	Total	2,966	1,427	1,539

**Midwest Census Region**

311	Food	61	48	13
3112	Grain and Oilseed Milling	60	47	13
311221	Wet Corn Milling	55	42	13
31131	Sugar Manufacturing	1	1	0
3114	Fruit and Vegetable Preserving and Specialty Foods	0	0	0
3115	Dairy Products	0	0	0
3116	Animal Slaughtering and Processing	0	0	0
312	Beverage and Tobacco Products	*	*	0
3121	Beverages	*	*	0
3122	Tobacco	0	0	0
313	Textile Mills	0	0	0
314	Textile Product Mills	0	0	0
315	Apparel	0	0	0
316	Leather and Allied Products	0	0	0
321	Wood Products	1	1	0
321113	Sawmills	0	0	0
3212	Veneer, Plywood, and Engineered Woods	1	1	0
3219	Other Wood Products	0	0	0
322	Paper	45	24	21
322110	Pulp Mills	0	0	0
322121	Paper Mills, except Newsprint	45	24	21
322122	Newsprint Mills	0	0	0
322130	Paperboard Mills	0	0	0
323	Printing and Related Support	0	0	0
324	Petroleum and Coal Products	126	*	126
324110	Petroleum Refineries	126	*	126
324199	Other Petroleum and Coal Products	0	0	0
325	Chemicals	64	7	57
325110	Petrochemicals	0	0	0
325120	Industrial Gases	0	0	0
325181	Alkalies and Chlorine	0	0	0
325182	Carbon Black	0	0	0
325188	Other Basic Inorganic Chemicals	9	0	9

**Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2006;**  
 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)
325192	Cyclic Crudes and Intermediates	0	0	0
325193	Ethyl Alcohol	0	0	0
325199	Other Basic Organic Chemicals	36	6	30
325211	Plastics Materials and Resins	1	0	1
325212	Synthetic Rubber	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0
325311	Nitrogenous Fertilizers	12	0	12
325312	Phosphatic Fertilizers	0	0	0
3254	Pharmaceuticals and Medicines	4	0	4
325412	Pharmaceutical Preparation	4	0	4
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0
326	Plastics and Rubber Products	0	0	0
327	Nonmetallic Mineral Products	9	9	0
327211	Flat Glass	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0
327213	Glass Containers	0	0	0
327215	Glass Products from Purchased Glass	0	0	0
327310	Cements	9	9	0
327410	Lime	0	0	0
327420	Gypsum	0	0	0
327993	Mineral Wool	0	0	0
331	Primary Metals	246	119	128
331111	Iron and Steel Mills	179	51	128
331112	Electrometallurgical Ferroalloy Products	68	68	0
3312	Steel Products from Purchased Steel	0	0	0
3313	Alumina and Aluminum	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0
331316	Aluminum Extruded Products	0	0	0
3314	Nonferrous Metals, except Aluminum	0	0	0
3315	Foundries	*	*	0
331511	Iron Foundries	*	*	0
331521	Aluminum Die-Casting Foundries	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0
332	Fabricated Metal Products	0	0	0
333	Machinery	0	0	0
334	Computer and Electronic Products	*	*	0
334413	Semiconductors and Related Devices	*	*	0
335	Electrical Equip., Appliances, and Components	0	0	0
336	Transportation Equipment	86	38	47
336111	Automobiles	14	0	14
336112	Light Trucks and Utility Vehicles	72	38	33
3364	Aerospace Product and Parts	0	0	0
336411	Aircraft	0	0	0
337	Furniture and Related Products	0	0	0
339	Miscellaneous	0	0	0
	Total	639	247	392

South Census Region

**Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2006;**

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)
311	Food	32	21	12
3112	Grain and Oilseed Milling	8	0	8
311221	Wet Corn Milling	0	0	0
31131	Sugar Manufacturing	5	1	4
3114	Fruit and Vegetable Preserving and Specialty Foods	13	13	0
3115	Dairy Products	0	0	0
3116	Animal Slaughtering and Processing	0	0	0
312	Beverage and Tobacco Products	0	0	0
3121	Beverages	0	0	0
3122	Tobacco	0	0	0
313	Textile Mills	262	262	0
314	Textile Product Mills	0	0	0
315	Apparel	0	0	0
316	Leather and Allied Products	0	0	0
321	Wood Products	126	126	0
321113	Sawmills	124	124	0
3212	Veneer, Plywood, and Engineered Woods	*	*	0
3219	Other Wood Products	2	2	0
322	Paper	848	820	28
322110	Pulp Mills	145	136	9
322121	Paper Mills, except Newsprint	108	89	19
322122	Newsprint Mills	0	0	0
322130	Paperboard Mills	595	595	0
323	Printing and Related Support	0	0	0
324	Petroleum and Coal Products	2,894	291	2,603
324110	Petroleum Refineries	2,850	247	2,603
324199	Other Petroleum and Coal Products	44	44	0
325	Chemicals	6,350	3,757	2,593
325110	Petrochemicals	282	192	90
325120	Industrial Gases	87	87	0
325181	Alkalies and Chlorine	2,807	2,224	584
325182	Carbon Black	95	95	0
325188	Other Basic Inorganic Chemicals	19	19	*
325192	Cyclic Crudes and Intermediates	0	0	0
325193	Ethyl Alcohol	0	0	0
325199	Other Basic Organic Chemicals	1,193	532	660
325211	Plastics Materials and Resins	1,356	385	972
325212	Synthetic Rubber	54	*	53
325222	Noncellulosic Organic Fibers	70	9	60
325311	Nitrogenous Fertilizers	6	3	3
325312	Phosphatic Fertilizers	210	210	0
3254	Pharmaceuticals and Medicines	0	0	0
325412	Pharmaceutical Preparation	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0
326	Plastics and Rubber Products	0	0	0
327	Nonmetallic Mineral Products	928	928	0
327211	Flat Glass	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0
327213	Glass Containers	0	0	0
327215	Glass Products from Purchased Glass	0	0	0
327310	Cements	928	928	0

**Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2006;**  
 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)
327410	Lime	0	0	0
327420	Gypsum	0	0	0
327993	Mineral Wool	0	0	0
331	Primary Metals	1,281	1,281	0
331111	Iron and Steel Mills	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0
3312	Steel Products from Purchased Steel	0	0	0
3313	Alumina and Aluminum	1,281	1,281	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0
331316	Aluminum Extruded Products	0	0	0
3314	Nonferrous Metals, except Aluminum	0	0	0
3315	Foundries	0	0	0
331511	Iron Foundries	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0
332	Fabricated Metal Products	0	0	0
333	Machinery	0	0	0
334	Computer and Electronic Products	0	0	0
334413	Semiconductors and Related Devices	0	0	0
335	Electrical Equip., Appliances, and Components	*	*	0
336	Transportation Equipment	47	0	47
336111	Automobiles	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0
3364	Aerospace Product and Parts	47	0	47
336411	Aircraft	47	0	47
337	Furniture and Related Products	0	0	0
339	Miscellaneous	0	0	0
	Total	12,768	7,485	5,282

**West Census Region**

311	Food	Q	Q	0
3112	Grain and Oilseed Milling	0	0	0
311221	Wet Corn Milling	0	0	0
31131	Sugar Manufacturing	1	1	0
3114	Fruit and Vegetable Preserving and Specialty Foods	0	0	0
3115	Dairy Products	0	0	0
3116	Animal Slaughtering and Processing	0	0	0
312	Beverage and Tobacco Products	0	0	0
3121	Beverages	0	0	0
3122	Tobacco	0	0	0
313	Textile Mills	0	0	0
314	Textile Product Mills	0	0	0
315	Apparel	*	*	0
316	Leather and Allied Products	0	0	0
321	Wood Products	715	701	Q
321113	Sawmills	715	701	Q
3212	Veneer, Plywood, and Engineered Woods	0	0	0
3219	Other Wood Products	*	*	0

**Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2006;**  
 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)
322	Paper	1,668	813	854
322110	Pulp Mills	1	1	0
322121	Paper Mills, except Newsprint	570	570	0
322122	Newsprint Mills	29	29	0
322130	Paperboard Mills	1,068	213	854
323	Printing and Related Support	0	0	0
324	Petroleum and Coal Products	603	239	364
324110	Petroleum Refineries	170	93	77
324199	Other Petroleum and Coal Products	433	146	287
325	Chemicals	138	138	0
325110	Petrochemicals	0	0	0
325120	Industrial Gases	0	0	0
325181	Alkalies and Chlorine	0	0	0
325182	Carbon Black	0	0	0
325188	Other Basic Inorganic Chemicals	11	11	0
325192	Cyclic Crudes and Intermediates	0	0	0
325193	Ethyl Alcohol	0	0	0
325199	Other Basic Organic Chemicals	0	0	0
325211	Plastics Materials and Resins	0	0	0
325212	Synthetic Rubber	0	0	0
325222	Noncellulosic Organic Fibers	0	0	0
325311	Nitrogenous Fertilizers	0	0	0
325312	Phosphatic Fertilizers	128	128	0
3254	Pharmaceuticals and Medicines	0	0	0
325412	Pharmaceutical Preparation	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0
326	Plastics and Rubber Products	0	0	0
327	Nonmetallic Mineral Products	2	2	0
327211	Flat Glass	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0
327213	Glass Containers	0	0	0
327215	Glass Products from Purchased Glass	0	0	0
327310	Cements	2	2	0
327410	Lime	0	0	0
327420	Gypsum	0	0	0
327993	Mineral Wool	0	0	0
331	Primary Metals	237	233	4
331111	Iron and Steel Mills	4	0	4
331112	Electrometallurgical Ferroalloy Products	0	0	0
3312	Steel Products from Purchased Steel	0	0	0
3313	Alumina and Aluminum	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0
331316	Aluminum Extruded Products	0	0	0
3314	Nonferrous Metals, except Aluminum	233	233	0
3315	Foundries	0	0	0
331511	Iron Foundries	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0
332	Fabricated Metal Products	0	0	0
333	Machinery	0	0	0

**Table 11.5 Electricity: Sales to Utility and Nonutility Purchasers, 2006;**

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)
334	Computer and Electronic Products	2	2	0
334413	Semiconductors and Related Devices	2	2	0
335	Electrical Equip., Appliances, and Components	0	0	0
336	Transportation Equipment	0	0	0
336111	Automobiles	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0
3364	Aerospace Product and Parts	0	0	0
336411	Aircraft	0	0	0
337	Furniture and Related Products	0	0	0
339	Miscellaneous	0	0	0
	Total	3,378	2,142	1,236

(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.

\* 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, '2006 Manufacturing Energy Consumption Survey.'

Released: October 2009

Next MECS will be conducted in 2010

**Table 11.6 Electricity: Sales to Utility and Nonutility Purchasers, 2006;**

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)
<b>Total United States</b>			
<b>Value of Shipments and Receipts (million dollars)</b>			
Under 20	28	28	0
20-49	307	227	80
50-99	2,218	1,673	545
100-249	2,647	1,437	1,210
250-499	3,736	2,271	1,464
500 and Over	10,814	5,665	5,149
Total	19,750	11,301	8,449
<b>Employment Size</b>			
Under 50	516	230	287
50-99	1,193	1,180	13
100-249	3,825	3,231	594
250-499	3,796	2,675	1,120
500-999	4,311	1,921	2,390
1000 and Over	6,108	2,064	4,045
Total	19,750	11,301	8,449
<b>Northeast Census Region</b>			
<b>Value of Shipments and Receipts (million dollars)</b>			
Under 20	20	20	0
20-49	Q	Q	0
50-99	231	0	231
100-249	1,531	356	1,175
250-499	810	735	75
500 and Over	370	313	57
Total	2,966	1,427	1,539
<b>Employment Size</b>			
Under 50	20	20	0
50-99	Q	Q	0
100-249	6	W	W
250-499	1,131	904	227
500-999	1,665	484	1,181
1000 and Over	142	W	W
Total	2,966	1,427	1,539

Released: October 2009

Next MECS will be conducted in 2010

**Table 11.6 Electricity: Sales to Utility and Nonutility Purchasers, 2006;**

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)
<b>Midwest Census Region</b>			
<b>Value of Shipments and Receipts (million dollars)</b>			
Under 20	0	0	0
20-49	27	6	21
50-99	14	*	14
100-249	37	4	33
250-499	96	83	13
500 and Over	465	154	311
Total	639	247	392
<b>Employment Size</b>			
Under 50	0	0	0
50-99	12	0	12
100-249	37	6	31
250-499	171	60	111
500-999	102	69	33
1000 and Over	317	112	205
Total	639	247	392
<b>South Census Region</b>			
<b>Value of Shipments and Receipts (million dollars)</b>			
Under 20	6	6	0
20-49	112	Q	59
50-99	1,210	1,210	0
100-249	234	233	2
250-499	1,788	1,270	518
500 and Over	9,418	4,714	4,704
Total	12,768	7,485	5,282
<b>Employment Size</b>			
Under 50	52	52	*
50-99	967	966	1
100-249	3,412	2,919	494
250-499	792	499	293
500-999	2,111	1,326	785
1000 and Over	5,434	1,724	3,710
Total	12,768	7,485	5,282

**Table 11.6 Electricity: Sales to Utility and Nonutility Purchasers, 2006;**

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)
<b>West Census Region</b>			
<b>Value of Shipments and Receipts (million dollars)</b>			
Under 20	1	1	0
20-49	165	165	0
50-99	764	463	300
100-249	844	844	0
250-499	1,043	184	858
500 and Over	561	484	77
Total	3,378	2,142	1,236
<b>Employment Size</b>			
Under 50	444	158	287
50-99	212	212	0
100-249	370	W	W
250-499	1,702	1,212	490
500-999	433	42	391
1000 and Over	216	W	W
Total	3,378	2,142	1,236

(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, '2006 Manufacturing Energy Consumption Survey,' and the Bureau of the Census, data files for the '2006 Annual Survey of Manufacturers.'