

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Table 1.1 First Use of Energy for All Purposes (Fuel and Nonfuel), 2002;**  
**Level: National and Regional Data;**  
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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)	RSE Row Factors
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normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids '(NGL).'

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

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

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

NF=No applicable RSE row/column factor.

\* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding. The derived estimates presented in this table are for the first use (formerly primary consumption) of energy for heat and power and as feedstocks or raw material inputs. First use is defined as the consumption of the energy that was originally produced offsite or was produced onsite from input materials not classified as energy. Examples of the latter are hydrogen produced from the electrolysis of brine; the output of captive (onsite) mines or wells; woodchips, bark, and woodwaste from wood purchased as a raw material input; and waste materials, such as wastepaper and packing materials. First use excludes quantities of energy that are produced from other energy inputs and, therefore, avoids double counting.

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