

**Table 7.9 Expenditures for Purchased Energy Sources, 2002;**  
**Level: National and Regional Data;**  
**Row: NAICS Codes; Column: Energy Sources;**  
**Unit: Million U.S. Dollars.**

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
<b>Total United States</b>											
	<b>RSE Column Factors:</b>	0.9	0.9	1.1	1.5	0.9	1.4	0.8	0.7	1.2	
311	Food	6,943	3,707	58	135	2,546	38	276	8	175	8
311221	Wet Corn Milling	683	252	2	1	237	*	165	0	26	1.1
31131	Sugar	224	39	11	8	84	*	63	8	10	1
311421	Fruit and Vegetable Canning	333	139	5	8	168	Q	0	0	4	13.5
312	Beverage and Tobacco Products	780	479	8	18	201	9	40	0	25	5.8
3121	Beverages	665	413	4	Q	182	8	16	0	25	5.6
3122	Tobacco	115	66	4	2	19	1	24	0	*	0.9
313	Textile Mills	1,617	1,111	20	W	345	17	W	0	61	15.9
314	Textile Product Mills	438	264	W	Q	128	5	W	0	Q	20.3
315	Apparel	338	241	1	10	85	1	0	0	*	22.6
316	Leather and Allied Products	72	49	1	1	19	*	0	0	*	8.9
321	Wood Products	2,174	1,224	W	87	272	40	W	*	541	5.4
321113	Sawmills	601	376	*	42	46	5	0	0	132	6.3
3212	Veneer, Plywood, and Engineered Woods	925	467	W	13	153	21	W	*	265	6.5
3219	Other Wood Products	585	361	Q	14	59	13	0	0	137	10.5
322	Paper	7,227	3,050	373	69	2,091	57	462	3	1,122	2.9
322110	Pulp Mills	307	100	41	W	93	W	1	0	47	0.9
322121	Paper Mills, except Newsprint	2,768	995	182	23	852	10	265	3	437	2.3
322122	Newsprint Mills	601	401	21	1	62	2	16	0	99	0.9
322130	Paperboard Mills	2,342	766	114	20	754	5	176	0	507	2.8
323	Printing and Related Support	1,231	984	*	2	229	10	0	0	Q	9.5
324	Petroleum and Coal Products	6,621	1,864	14	82	3,110	27	Q	5	930	5.9
324110	Petroleum Refineries	5,147	1,662	0	*	2,855	*	W	0	W	2.9
324199	Other Petroleum and Coal Products	859	22	*	2	18	*	Q	5	270	2.1
325	Chemicals	32,019	6,386	258	74	7,448	15,473	689	24	1,667	6.1
325110	Petrochemicals	5,584	194	W	W	709	4,562	W	0	W	0.9
325120	Industrial Gases	1,349	898	0	W	236	W	0	0	Q	2.8
325181	Alkalies and Chlorine	960	395	Q	1	343	W	31	0	W	1.4
325182	Carbon Black	275	28	163	*	64	*	0	0	20	0.9
325188	Other Basic Inorganic Chemicals	1,241	774	W	14	307	43	21	W	60	2.6
325192	Cyclic Crudes and Intermediates	517	119	2	2	160	113	W	0	W	0.9
325193	Ethyl Alcohol	225	52	0	*	107	1	31	0	33	5
325199	Other Basic Organic Chemicals	8,009	926	33	12	1,983	4,030	Q	0	723	7.5
325211	Plastics Materials and Resins	8,504	919	3	6	941	6,381	W	W	197	4.1
325212	Synthetic Rubber	319	90	*	1	97	57	9	0	65	4.1
325222	Noncellulosic Organic Fibers	333	167	W	1	118	1	W	0	W	1.7
325311	Nitrogenous Fertilizers	1,628	144	0	*	1,474	*	*	0	9	1
325312	Phosphatic Fertilizers	209	88	4	5	102	*	2	1	6	1
3254	Pharmaceuticals and Medicines	967	620	7	4	282	Q	16	0	36	4.5
325412	Pharmaceutical Preparation	699	464	6	4	183	1	16	0	26	6.2
325992	Photographic Film, Paper, Plate, and Chemicals	161	86	W	2	36	Q	W	0	*	7.4
326	Plastics and Rubber Products	3,818	3,002	29	12	640	66	Q	0	16	10.2
327	Nonmetallic Mineral Products	4,906	2,097	12	263	1,773	28	557	14	161	4.8

**Table 7.9 Expenditures for Purchased Energy Sources, 2002;**  
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**Row: NAICS Codes; Column: Energy Sources;**  
**Unit: Million U.S. Dollars.**

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
3272	Glass and Glass Products	1,240	583	W	3	632	5	W	0	10	2.7
327211	Flat Glass	308	84	W	W	210	*	W	0	6	0.9
327213	Glass Containers	399	195	0	1	201	2	0	0	*	0.9
327310	Cements	1,177	553	3	36	83	1	421	3	77	1.8
327410	Lime	247	64	W	8	27	*	118	W	28	1
327993	Mineral Wool	312	159	0	W	137	2	0	W	W	2.6
331	Primary Metals	10,859	4,889	4	70	2,871	26	1,014	1,622	363	2
331111	Iron and Steel Mills	6,106	1,928	3	42	1,623	1	972	1,430	106	2.3
331112	Electrometallurgical Ferroalloy Products	168	112	0	1	32	*	15	1	7	3.6
3312	Steel Products from Purchased Steel	363	230	1	4	110	3	*	W	W	10.3
3313	Alumina and Aluminum	2,204	1,422	W	6	560	5	W	W	211	2.1
331312	Primary Aluminum	1,359	1,082	W	2	75	1	W	0	W	0.9
3314	Nonferrous Metals, except Aluminum	698	422	1	13	190	8	17	31	19	5.1
3315	Foundries	1,319	775	*	6	356	9	10	158	5	2.5
331511	Iron Foundries	673	373	0	4	126	W	W	158	W	2.8
331521	Aluminum Die-Casting Foundries	170	96	W	*	72	W	0	0	*	3
331524	Aluminum Foundries, except Die-Casting	138	72	*	*	64	1	0	0	*	4
332	Fabricated Metal Products	4,050	2,862	Q	38	1,033	44	4	Q	46	13.5
333	Machinery	2,015	1,493	*	24	432	27	1	0	37	10.1
334	Computer and Electronic Products	2,840	2,422	4	7	357	3	*	0	46	19.6
334413	Semiconductors and Related Devices	835	705	*	1	111	*	0	0	17	4.3
335	Electrical Equip., Appliances, and Components	1,191	782	1	4	260	13	1	*	Q	11.4
336	Transportation Equipment	3,675	2,583	26	29	859	38	17	Q	109	5.1
336112	Light Trucks and Utility Vehicles	402	212	W	W	150	1	W	0	29	0.9
337	Furniture and Related Products	653	497	*	W	129	14	3	0	W	10.2
339	Miscellaneous	937	739	W	W	162	8	0	0	W	7
	<b>Total</b>	<b>94,402</b>	<b>40,725</b>	<b>827</b>	<b>960</b>	<b>24,992</b>	<b>15,946</b>	<b>3,777</b>	<b>1,708</b>	<b>5,467</b>	<b>2.8</b>
<b>Northeast Census Region</b>											
	<b>RSE Column Factors:</b>	<b>1</b>	<b>1.2</b>	<b>1</b>	<b>1.6</b>	<b>0.9</b>	<b>1.7</b>	<b>0.7</b>	<b>0.4</b>	<b>1.2</b>	
311	Food	842	488	25	W	274	3	5	0	W	18.8
311221	Wet Corn Milling	W	W	W	W	0	0	0	0	W	0.8
31131	Sugar	W	W	W	W	W	*	0	0	W	0.8
311421	Fruit and Vegetable Canning	44	24	W	W	14	1	0	0	1	10.6
312	Beverage and Tobacco Products	117	70	W	1	37	W	0	0	3	6.7
3121	Beverages	W	W	W	W	36	W	0	0	3	7.1
3122	Tobacco	W	W	W	W	1	*	0	0	*	0.8
313	Textile Mills	191	102	W	W	54	W	0	0	*	19.6
314	Textile Product Mills	44	29	1	1	12	*	1	0	*	4.1
315	Apparel	60	43	0	Q	15	*	0	0	0	27.1
316	Leather and Allied Products	18	10	1	*	6	*	0	0	*	10.3
321	Wood Products	187	115	1	17	19	6	0	0	27	10.4
321113	Sawmills	53	34	*	11	1	*	0	0	7	4.7
3212	Veneer, Plywood, and Engineered Woods	39	20	1	*	9	3	0	0	6	16.9
3219	Other Wood Products	90	61	Q	5	10	4	0	0	10	9.5

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322	Paper	1,262	554	153	W	337	10	W	0	168	3.8
322110	Pulp Mills	W	W	Q	*	W	*	0	0	*	4.3
322121	Paper Mills, except Newsprint	716	245	101	8	203	4	27	0	127	3.4
322122	Newsprint Mills	W	W	W	*	0	0	0	0	0	0.8
322130	Paperboard Mills	191	58	21	1	69	*	2	0	41	2.9
323	Printing and Related Support	309	252	*	1	55	2	0	0	*	17
324	Petroleum and Coal Products	565	194	Q	35	187	1	103	2	38	8.1
324110	Petroleum Refineries	326	W	0	0	146	0	W	0	W	2
324199	Other Petroleum and Coal Products	64	3	*	*	2	*	56	2	*	1
325	Chemicals	1,429	721	30	W	353	174	W	0	91	4.9
325110	Petrochemicals	W	W	0	*	W	0	0	0	*	1.7
325120	Industrial Gases	92	72	0	W	W	0	0	0	14	1.2
325181	Alkalies and Chlorine	W	W	Q	W	W	0	0	0	W	1
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	89	46	7	4	30	*	0	0	3	4.5
325192	Cyclic Crudes and Intermediates	37	W	W	W	W	W	0	0	W	0.8
325193	Ethyl Alcohol	*	*	0	0	*	0	0	0	*	0.9
325199	Other Basic Organic Chemicals	116	52	4	3	34	2	0	0	21	6.2
325211	Plastics Materials and Resins	271	63	W	1	27	W	0	0	14	7.3
325212	Synthetic Rubber	8	3	0	*	*	3	0	0	2	0.8
325222	Noncellulosic Organic Fibers	3	2	*	0	*	*	0	0	*	11.2
325311	Nitrogenous Fertilizers	13	W	0	*	8	*	0	0	W	0.8
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	384	225	5	2	135	Q	0	0	15	7.1
325412	Pharmaceutical Preparation	283	174	W	2	91	*	0	0	W	8.3
325992	Photographic Film, Paper, Plate, and Chemicals	82	28	W	2	16	*	W	0	*	9.1
326	Plastics and Rubber Products	641	534	W	W	81	W	W	0	W	7.7
327	Nonmetallic Mineral Products	832	401	W	22	302	8	W	3	25	8
3272	Glass and Glass Products	249	111	1	1	132	W	W	0	W	2.8
327211	Flat Glass	60	17	0	W	41	*	W	0	W	0.9
327213	Glass Containers	84	41	0	*	42	*	0	0	*	0.8
327310	Cements	157	79	W	W	1	*	53	W	16	1
327410	Lime	14	4	0	W	*	*	W	0	W	0.9
327993	Mineral Wool	32	16	0	W	13	*	0	W	*	3.1
331	Primary Metals	1,410	609	1	10	318	5	406	24	37	3.8
331111	Iron and Steel Mills	848	272	0	6	166	*	392	*	10	3.5
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	W	*	W	0	W	0.9
3312	Steel Products from Purchased Steel	60	35	1	W	16	*	*	W	W	14
3313	Alumina and Aluminum	179	W	W	W	W	W	0	0	W	1.7
331312	Primary Aluminum	W	W	W	W	W	W	0	0	W	0.8
3314	Nonferrous Metals, except Aluminum	178	W	*	W	W	1	W	9	8	4.5
3315	Foundries	135	78	*	1	39	2	*	14	*	4.4
331511	Iron Foundries	64	34	0	1	14	1	*	14	*	4
331521	Aluminum Die-Casting Foundries	7	W	0	*	W	*	0	0	*	2.8
331524	Aluminum Foundries, except Die-Casting	19	9	*	*	9	*	0	0	*	2.6
332	Fabricated Metal Products	736	536	1	14	169	5	*	2	Q	19.3
333	Machinery	348	265	*	3	70	5	0	0	Q	15.2

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NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
334	Computer and Electronic Products	954	788	4	5	133	1	*	0	Q	28.7
334413	Semiconductors and Related Devices	173	W	*	1	W	*	0	0	4	2.8
335	Electrical Equip., Appliances, and Components	206	151	1	2	48	3	0	0	1	13.9
336	Transportation Equipment	369	256	20	2	78	1	0	0	11	5.9
336112	Light Trucks and Utility Vehicles	W	W	0	W	W	W	0	0	W	0.8
337	Furniture and Related Products	99	74	0	1	19	4	0	0	1	15.2
339	Miscellaneous	292	212	W	W	56	3	0	0	W	9.9
	Total	10,910	6,404	276	187	2,622	249	654	31	485	4.2
<b>Midwest Census Region</b>											
	<b>RSE Column Factors:</b>	1	1.1	0.9	1.3	1.1	1.6	0.5	0.7	1.2	
311	Food	2,660	1,286	14	W	1,032	7	225	W	77	10.8
311221	Wet Corn Milling	W	W	W	*	200	*	W	0	21	1
31131	Sugar	80	16	W	*	20	*	35	W	*	1
311421	Fruit and Vegetable Canning	50	24	*	*	23	1	0	0	2	3.1
312	Beverage and Tobacco Products	133	70	W	Q	42	W	12	0	*	7.9
3121	Beverages	W	W	W	W	W	W	12	0	*	6.3
3122	Tobacco	W	W	0	W	W	W	0	0	*	0.8
313	Textile Mills	27	19	0	*	7	*	0	0	*	11.5
314	Textile Product Mills	24	17	0	0	6	*	0	0	*	16.9
315	Apparel	17	13	0	0	4	*	0	0	*	17.2
316	Leather and Allied Products	36	24	0	*	12	*	0	0	*	20.9
321	Wood Products	339	176	W	7	58	W	W	*	87	3.7
321113	Sawmills	40	28	*	2	4	*	0	0	6	5.3
3212	Veneer, Plywood, and Engineered Woods	143	52	W	2	27	W	W	*	55	2.7
3219	Other Wood Products	150	93	0	Q	25	3	0	0	26	8.3
322	Paper	1,509	656	21	4	419	Q	165	3	217	3.7
322110	Pulp Mills	W	W	0	W	W	W	*	0	W	0.9
322121	Paper Mills, except Newsprint	787	318	W	3	221	3	W	3	93	2.4
322122	Newsprint Mills	W	W	0	W	W	W	W	0	W	0.9
322130	Paperboard Mills	338	104	W	1	86	1	W	0	115	6.1
323	Printing and Related Support	386	302	0	*	75	5	0	0	Q	12.7
324	Petroleum and Coal Products	714	253	2	12	377	Q	0	0	60	7.4
324110	Petroleum Refineries	519	208	0	0	301	*	0	0	10	1.4
324199	Other Petroleum and Coal Products	W	3	0	*	2	*	0	0	W	0.8
325	Chemicals	3,233	1,181	23	W	941	601	164	W	307	5.8
325110	Petrochemicals	W	W	0	W	W	W	0	0	W	0.8
325120	Industrial Gases	341	208	0	0	W	0	0	0	W	3.7
325181	Alkalies and Chlorine	W	W	0	*	3	*	W	0	*	4.3
325182	Carbon Black	W	W	W	0	W	W	0	0	W	0.9
325188	Other Basic Inorganic Chemicals	214	82	W	1	77	W	W	*	11	2.4
325192	Cyclic Crudes and Intermediates	35	9	W	W	26	W	0	0	W	0.9
325193	Ethyl Alcohol	212	47	0	*	W	1	31	0	W	5.2
325199	Other Basic Organic Chemicals	320	150	0	2	87	5	12	0	63	2.2
325211	Plastics Materials and Resins	738	159	*	1	84	W	W	W	38	2.6

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NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
325212	Synthetic Rubber	30	8	0	*	5	W	W	0	1	2.2
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	327	W	0	*	279	0	0	0	W	0.9
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	273	174	*	*	78	*	16	0	5	6.4
325412	Pharmaceutical Preparation	224	151	*	*	57	*	16	0	*	3.4
325992	Photographic Film, Paper, Plate, and Chemicals	7	5	0	0	2	*	0	0	0	5.1
326	Plastics and Rubber Products	1,393	1,058	W	*	238	Q	W	0	6	12.1
327	Nonmetallic Mineral Products	1,203	488	*	61	454	10	134	6	51	5
3272	Glass and Glass Products	339	158	0	2	175	1	0	0	3	1.7
327211	Flat Glass	84	21	0	W	59	*	0	0	W	0.8
327213	Glass Containers	91	39	0	*	50	*	0	0	*	0.8
327310	Cements	255	116	*	8	22	*	85	*	23	2.7
327410	Lime	107	27	*	2	W	*	49	W	W	1
327993	Mineral Wool	114	54	0	*	54	*	0	W	W	1.6
331	Primary Metals	5,082	1,852	1	29	1,435	12	494	1,117	142	2.3
331111	Iron and Steel Mills	3,322	785	1	24	939	*	484	1,011	76	3
331112	Electrometallurgical Ferroalloy Products	123	79	0	*	30	*	W	W	W	1
3312	Steel Products from Purchased Steel	174	107	0	*	63	1	*	0	3	8.4
3313	Alumina and Aluminum	487	306	0	1	131	1	0	0	48	3.7
331312	Primary Aluminum	295	233	0	*	19	*	0	0	43	0.8
3314	Nonferrous Metals, except Aluminum	199	113	*	1	60	5	W	W	W	5.2
3315	Foundries	778	461	*	2	213	4	W	92	W	3
331511	Iron Foundries	420	244	0	2	75	W	W	92	W	4
331521	Aluminum Die-Casting Foundries	123	70	W	*	W	W	0	0	*	3
331524	Aluminum Foundries, except Die-Casting	83	44	0	*	38	1	0	0	*	3.6
332	Fabricated Metal Products	1,632	1,090	Q	Q	470	13	4	Q	17	13.6
333	Machinery	907	624	0	16	237	13	1	0	16	10.6
334	Computer and Electronic Products	320	252	0	*	63	*	0	0	4	14.6
334413	Semiconductors and Related Devices	29	W	0	*	W	*	0	0	1	1.4
335	Electrical Equip., Appliances, and Components	353	251	*	Q	91	4	*	0	5	9.6
336	Transportation Equipment	1,837	1,249	1	10	483	16	15	Q	49	10.1
336112	Light Trucks and Utility Vehicles	237	127	W	W	100	W	W	0	5	1
337	Furniture and Related Products	210	144	0	W	60	3	W	0	*	13.7
339	Miscellaneous	219	167	0	*	48	2	0	0	Q	11.7
	Total	22,234	11,172	69	185	6,554	771	1,265	1,172	1,046	5.2
<b>South Census Region</b>											
	<b>RSE Column Factors:</b>	1	1	1	1.3	1	1.5	0.7	0.6	1.1	
311	Food	2,008	1,126	Q	44	741	18	23	0	38	11
311221	Wet Corn Milling	81	36	0	*	W	*	W	0	W	0.9
31131	Sugar	72	14	7	W	39	*	W	0	*	0.9
311421	Fruit and Vegetable Canning	90	30	W	W	47	Q	0	0	1	9.1
312	Beverage and Tobacco Products	306	183	3	Q	79	3	27	0	1	3.3
3121	Beverages	197	120	W	Q	W	W	3	0	1	5.3

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**Row: NAICS Codes; Column: Energy Sources;**  
**Unit: Million U.S. Dollars.**

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
3122	Tobacco	109	63	W	2	W	W	24	0	*	0.9
313	Textile Mills	1,312	927	W	W	261	W	W	0	60	17.4
314	Textile Product Mills	340	195	W	Q	102	5	W	0	Q	22.1
315	Apparel	152	111	1	Q	31	Q	0	0	*	20.3
316	Leather and Allied Products	13	10	0	1	2	*	0	0	*	10.1
321	Wood Products	1,046	621	1	40	117	W	W	0	246	9.1
321113	Sawmills	284	189	0	13	13	2	0	0	68	12.8
3212	Veneer, Plywood, and Engineered Woods	542	280	1	7	81	W	W	0	159	9.4
3219	Other Wood Products	179	140	0	5	14	4	0	0	16	16.1
322	Paper	3,112	1,208	179	47	959	16	266	0	437	2.7
322110	Pulp Mills	244	68	38	20	71	W	1	0	W	0.9
322121	Paper Mills, except Newsprint	893	292	W	11	315	3	W	0	109	2.3
322122	Newsprint Mills	228	149	W	W	38	*	W	0	W	0.9
322130	Paperboard Mills	1,355	441	87	14	414	2	143	0	253	3.4
323	Printing and Related Support	330	264	*	1	61	3	0	0	1	11.1
324	Petroleum and Coal Products	4,043	951	9	27	1,919	Q	Q	3	640	5.3
324110	Petroleum Refineries	3,179	886	0	*	1,832	*	0	0	460	1.4
324199	Other Petroleum and Coal Products	681	11	0	1	7	*	Q	3	172	2.7
325	Chemicals	26,398	3,938	204	39	5,849	14,679	465	1	1,223	4.7
325110	Petrochemicals	5,489	182	W	W	700	W	W	0	W	0.9
325120	Industrial Gases	774	485	0	W	202	W	0	0	W	3.5
325181	Alkalies and Chlorine	766	295	0	W	W	W	W	0	W	0.9
325182	Carbon Black	245	25	140	*	59	*	0	0	20	0.9
325188	Other Basic Inorganic Chemicals	757	564	W	7	146	W	W	0	32	3.6
325192	Cyclic Crudes and Intermediates	441	99	W	*	111	W	W	0	119	0.9
325193	Ethyl Alcohol	W	*	0	*	W	*	0	0	*	0.9
325199	Other Basic Organic Chemicals	7,542	713	Q	7	1,852	4,022	Q	0	630	8.5
325211	Plastics Materials and Resins	7,461	673	W	5	824	5,769	W	0	144	3.5
325212	Synthetic Rubber	278	76	*	*	91	W	W	0	62	4.7
325222	Noncellulosic Organic Fibers	331	165	W	1	118	1	W	0	W	0.9
325311	Nitrogenous Fertilizers	1,162	74	0	*	1,087	*	0	0	1	0.9
325312	Phosphatic Fertilizers	163	W	4	5	84	*	2	1	W	1
3254	Pharmaceuticals and Medicines	191	130	2	2	41	*	0	0	16	9.8
325412	Pharmaceutical Preparation	123	87	W	2	19	*	0	0	W	12.9
325992	Photographic Film, Paper, Plate, and Chemicals	51	39	*	*	11	*	0	0	*	5.5
326	Plastics and Rubber Products	1,319	993	W	W	277	W	0	0	W	12.7
327	Nonmetallic Mineral Products	1,922	769	W	77	756	7	W	5	65	6.6
3272	Glass and Glass Products	475	214	W	*	257	W	W	0	W	2.3
327211	Flat Glass	121	31	W	*	89	*	W	0	2	0.9
327213	Glass Containers	123	52	0	*	70	1	0	0	*	0.9
327310	Cements	454	187	0	W	40	*	187	W	25	3.4
327410	Lime	93	23	0	3	10	*	46	0	12	0.9
327993	Mineral Wool	121	57	0	*	58	1	0	W	W	3.4
331	Primary Metals	3,564	1,870	1	18	939	6	108	470	152	2.5
331111	Iron and Steel Mills	1,673	716	1	10	426	*	91	418	12	1.8
331112	Electrometallurgical Ferroalloy Products	W	W	0	W	W	*	W	W	W	14.1
3312	Steel Products from Purchased Steel	97	64	0	W	23	1	*	0	W	13.7

**Table 7.9 Expenditures for Purchased Energy Sources, 2002;**  
**Level: National and Regional Data;**  
**Row: NAICS Codes; Column: Energy Sources;**  
**Unit: Million U.S. Dollars.**

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
3313	Alumina and Aluminum	1,255	W	0	W	W	W	W	W	W	3.3
331312	Primary Aluminum	766	599	0	W	W	*	W	0	123	0.9
3314	Nonferrous Metals, except Aluminum	196	120	0	1	61	1	5	Q	3	6.6
3315	Foundries	311	171	0	3	W	W	W	47	W	1.8
331511	Iron Foundries	163	81	0	2	32	1	*	47	*	2.1
331521	Aluminum Die-Casting Foundries	31	14	0	*	16	*	0	0	*	1.9
331524	Aluminum Foundries, except Die-Casting	23	11	0	*	12	*	0	0	*	3.3
332	Fabricated Metal Products	1,188	837	*	W	309	21	*	0	W	16.9
333	Machinery	513	393	0	Q	95	7	0	0	Q	10
334	Computer and Electronic Products	494	446	0	Q	42	1	0	0	3	9.7
334413	Semiconductors and Related Devices	181	162	0	*	17	*	0	0	2	2.7
335	Electrical Equip., Appliances, and Components	511	293	*	1	89	6	1	*	Q	13.4
336	Transportation Equipment	939	664	6	15	206	14	2	0	33	5.2
336112	Light Trucks and Utility Vehicles	W	W	0	W	W	W	0	0	W	0.9
337	Furniture and Related Products	243	193	0	W	39	5	W	0	W	17.5
339	Miscellaneous	205	164	*	*	38	3	0	0	*	16.8
	Total	49,958	16,157	450	366	12,911	14,840	1,690	479	3,067	3.3
<b>West Census Region</b>											
	<b>RSE Column Factors:</b>	1.3	1.3	0.7	1.3	1.3	1.8	0.6	0.4	1.2	
311	Food	1,433	807	1	W	499	Q	23	W	W	8.2
311221	Wet Corn Milling	17	1	0	W	W	*	0	0	W	4.2
31131	Sugar	W	W	W	*	W	*	W	W	W	1
311421	Fruit and Vegetable Canning	150	62	*	2	84	1	0	0	1	7.6
312	Beverage and Tobacco Products	224	156	0	1	43	3	0	0	21	5.2
3121	Beverages	224	156	0	1	W	W	0	0	21	5.2
3122	Tobacco	*	*	0	0	0	0	0	0	0	0.8
313	Textile Mills	87	63	0	0	22	*	0	0	1	10.7
314	Textile Product Mills	31	23	0	0	8	*	0	0	0	18.3
315	Apparel	110	75	0	*	Q	*	0	0	*	18.1
316	Leather and Allied Products	4	4	0	*	*	0	0	0	0	28.2
321	Wood Products	602	312	2	23	78	8	0	0	181	7.6
321113	Sawmills	224	125	*	16	29	2	0	0	52	6.7
3212	Veneer, Plywood, and Engineered Woods	201	116	0	4	35	3	0	0	44	4.3
3219	Other Wood Products	167	67	0	2	10	2	0	0	85	13.2
322	Paper	1,344	632	19	W	376	7	W	0	301	2.3
322110	Pulp Mills	30	13	2	*	14	*	0	0	*	0.8
322121	Paper Mills, except Newsprint	372	139	10	1	113	1	0	0	108	2
322122	Newsprint Mills	278	185	W	*	W	W	0	0	65	0.8
322130	Paperboard Mills	458	162	W	5	185	1	W	0	99	1.7
323	Printing and Related Support	205	167	0	*	37	1	0	0	*	13.6
324	Petroleum and Coal Products	1,300	465	0	8	626	Q	0	0	192	9
324110	Petroleum Refineries	1,123	W	0	0	576	0	0	0	W	6.6
324199	Other Petroleum and Coal Products	W	4	0	*	7	0	0	0	W	0.8
325	Chemicals	958	545	1	W	305	19	W	W	45	4.8

**Table 7.9 Expenditures for Purchased Energy Sources, 2002;**  
**Level: National and Regional Data;**  
**Row: NAICS Codes; Column: Energy Sources;**  
**Unit: Million U.S. Dollars.**

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
325110	Petrochemicals	0	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	142	134	0	0	8	*	0	0	0	1.2
325181	Alkalies and Chlorine	130	63	0	*	54	*	9	0	3	0.8
325182	Carbon Black	W	W	W	0	W	W	0	0	W	0.8
325188	Other Basic Inorganic Chemicals	180	83	*	3	54	*	W	W	14	1.9
325192	Cyclic Crudes and Intermediates	4	W	W	W	W	W	0	0	W	0.8
325193	Ethyl Alcohol	W	5	0	*	4	*	0	0	W	0.7
325199	Other Basic Organic Chemicals	31	12	*	*	10	Q	0	0	8	3.3
325211	Plastics Materials and Resins	35	24	0	*	7	4	0	0	*	2.6
325212	Synthetic Rubber	3	3	0	0	*	*	0	0	*	0.7
325222	Noncellulosic Organic Fibers	*	*	0	0	0	*	0	0	0	0.7
325311	Nitrogenous Fertilizers	126	27	0	*	99	*	*	0	*	0.8
325312	Phosphatic Fertilizers	46	W	0	*	18	*	0	0	W	0.7
3254	Pharmaceuticals and Medicines	120	92	0	*	28	*	0	0	*	6
325412	Pharmaceutical Preparation	69	53	0	*	16	*	0	0	*	4
325992	Photographic Film, Paper, Plate, and Chemicals	21	13	0	*	7	*	0	0	0	0.7
326	Plastics and Rubber Products	465	418	0	*	44	3	0	0	*	13
327	Nonmetallic Mineral Products	949	439	8	103	262	5	112	*	20	5.1
3272	Glass and Glass Products	177	100	W	*	68	1	0	0	W	1.7
327211	Flat Glass	44	16	W	*	21	*	0	0	W	0.8
327213	Glass Containers	102	63	0	*	39	*	0	0	*	0.7
327310	Cements	312	171	W	W	20	*	97	*	12	1.4
327410	Lime	33	10	W	W	W	*	W	0	W	0.9
327993	Mineral Wool	45	32	0	*	12	*	0	*	*	1.3
331	Primary Metals	803	559	0	13	179	3	6	11	33	2
331111	Iron and Steel Mills	264	155	0	2	91	*	6	2	8	1.6
331112	Electrometallurgical Ferroalloy Products	2	W	0	W	W	*	0	0	W	0.7
3312	Steel Products from Purchased Steel	32	23	0	*	8	*	0	0	*	3.1
3313	Alumina and Aluminum	283	229	0	1	31	1	0	0	21	1.6
331312	Primary Aluminum	W	W	0	*	7	W	0	0	21	0.9
3314	Nonferrous Metals, except Aluminum	126	W	0	W	W	*	0	W	W	4.7
3315	Foundries	96	66	0	*	W	W	*	5	*	2.8
331511	Iron Foundries	25	14	0	*	5	*	*	5	*	1.3
331521	Aluminum Die-Casting Foundries	10	W	0	0	W	*	0	0	*	12.6
331524	Aluminum Foundries, except Die-Casting	12	7	0	*	5	*	0	0	*	4.6
332	Fabricated Metal Products	494	399	0	W	85	6	0	0	W	10.9
333	Machinery	247	211	0	1	30	2	0	0	Q	12.4
334	Computer and Electronic Products	1,072	936	*	*	119	*	0	0	16	7.3
334413	Semiconductors and Related Devices	451	376	0	*	64	*	0	0	11	7.1
335	Electrical Equip., Appliances, and Components	122	87	0	*	32	Q	0	0	1	6.2
336	Transportation Equipment	530	413	0	3	93	7	0	0	Q	12.4
336112	Light Trucks and Utility Vehicles	*	*	0	*	*	*	0	0	*	0.7
337	Furniture and Related Products	102	86	*	Q	12	2	0	0	*	11.2
339	Miscellaneous	221	196	0	*	20	1	0	0	Q	12.8
	Total	11,300	6,992	32	223	2,905	86	169	26	868	3.8



**Table 7.9 Expenditures for Purchased Energy Sources, 2002;**  
**Level: National and Regional Data;**  
**Row: NAICS Codes; Column: Energy Sources;**  
**Unit: Million U.S. Dollars.**

NAICS Code(a)	Subsector and Industry	Total	Electricity	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)	RSE Row Factors
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(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).

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

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

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

(e) 'Other' energy sources include such combustible energy sources as wood waste, hydrogen, and waste oils and tars.

NF=No applicable RSE row/column factor.

\* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding. To reduce respondent burden, quantities of petroleum-based products (for example, LPG and residual and distillate fuel oil) purchased, and associated expenditures, were not collected from Petroleum Refineries, NAICS 324110. These products are produced by petroleum refineries, rather than purchased by them.

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