



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

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

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

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

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

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

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

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

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

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

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

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

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

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





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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	<b>TOTAL FUEL CONSUMPTION</b>	61	W	W	*	29	*	W	3	1.9
	<b>Indirect Uses-Boiler Fuel</b>	--	72	W	*	21	*	W	--	1.2
	Conventional Boiler Use	--	W	W	*	W	*	W	--	1.2
	CHP and/or Cogeneration Process	--	W	W	*	W	0	W	--	1.1
	<b>Direct Uses-Total Process</b>	--	3,589	W	*	8	*	0	--	1.5
	Process Heating	--	643	W	*	8	*	0	--	1.6
	Process Cooling and Refrigeration	--	733	0	0	*	0	0	--	1.2
	Machine Drive	--	2,181	*	*	0	*	0	--	0.9
	Electro-Chemical Processes	--	4	--	--	--	--	--	--	1
	Other Process Use	--	27	0	0	*	0	0	--	1.2
	<b>Direct Uses-Total Nonprocess</b>	--	W	W	*	*	*	0	--	1.7
	Facility HVAC (g)	--	278	W	*	*	*	0	--	1.1
	Facility Lighting	--	276	--	--	--	--	--	--	1
	Other Facility Support	--	W	*	*	*	0	0	--	1.1
	Onsite Transportation	--	0	--	*	0	*	--	--	0.9
	Conventional Electricity Generation	--	--	0	*	*	0	0	--	1.2
	Other Nonprocess Use	--	12	0	*	0	0	0	--	1.2
	<b>End Use Not Reported</b>	3	2	0	*	*	*	0	3	1.1
<b>325311</b>	<b>Nitrogenous Fertilizers</b>									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	<b>TOTAL FUEL CONSUMPTION</b>	205	3,496	0	*	184	*	0	4	1
	<b>Indirect Uses-Boiler Fuel</b>	--	W	0	*	52	*	0	--	1
	Conventional Boiler Use	--	W	0	*	45	*	0	--	1
	CHP and/or Cogeneration Process	--	0	0	0	7	0	0	--	1
	<b>Direct Uses-Total Process</b>	--	3,038	0	*	129	*	0	--	1
	Process Heating	--	82	0	0	121	*	0	--	1
	Process Cooling and Refrigeration	--	320	0	0	0	0	0	--	1
	Machine Drive	--	2,635	0	*	8	*	0	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	1	0	0	*	0	0	--	1
	<b>Direct Uses-Total Nonprocess</b>	--	193	0	*	3	*	0	--	1
	Facility HVAC (g)	--	71	0	0	1	*	0	--	1
	Facility Lighting	--	87	--	--	--	--	--	--	1
	Other Facility Support	--	34	0	0	0	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	0	2	0	0	--	1
	Other Nonprocess Use	--	0	0	*	0	0	0	--	1
	<b>End Use Not Reported</b>	4	263	0	*	0	*	0	4	1
<b>325312</b>	<b>Phosphatic Fertilizers</b>									
	RSE Column Factors:	1	1	1	1	1	1	1	NF	
	<b>TOTAL FUEL CONSUMPTION</b>	27	1,025	*	*	18	*	*	2	1
	<b>Indirect Uses-Boiler Fuel</b>	--	W	*	*	4	0	0	--	1

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

NAICS Code(a)	End Use	Total (trillion Btu)	Net Electricity(b) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(c) (million bbl)	Natural Gas(d) (billion cu ft)	LPG and NGL(e) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(f) (trillion Btu)	RSE Row Factors
	Conventional Boiler Use	--	W	*	*	*	0	0	--	1
	CHP and/or Cogeneration Process	--	0	*	*	*	0	0	--	1
	<b>Direct Uses-Total Process</b>	--	932	*	*	14	*	*	--	1
	Process Heating	--	10	*	*	14	*	*	--	1
	Process Cooling and Refrigeration	--	8	0	0	0	0	0	--	1
	Machine Drive	--	914	0	*	0	0	0	--	1
	Electro-Chemical Processes	--	0	--	--	--	--	--	--	1
	Other Process Use	--	0	0	0	*	0	0	--	1
	<b>Direct Uses-Total Nonprocess</b>	--	83	0	*	*	*	0	--	1
	Facility HVAC (g)	--	22	0	0	*	0	0	--	1
	Facility Lighting	--	20	--	--	--	--	--	--	1
	Other Facility Support	--	24	0	0	0	0	0	--	1
	Onsite Transportation	--	0	--	*	0	*	--	--	1
	Conventional Electricity Generation	--	--	0	*	0	0	0	--	1
	Other Nonprocess Use	--	18	0	*	0	0	0	--	1
	<b>End Use Not Reported</b>	2	6	0	0	0	*	0	2	1
<b>3254</b>	<b>Pharmaceuticals and Medicines</b>									
	RSE Column Factors:	0.4	2.1	0.6	2.9	1.8	1.2	0.3	NF	
	<b>TOTAL FUEL CONSUMPTION</b>	121	10,715	*	*	60	*	*	9	4.3
	<b>Indirect Uses-Boiler Fuel</b>	--	17	*	*	44	*	*	--	4.5
	Conventional Boiler Use	--	17	*	*	27	*	*	--	5.6
	CHP and/or Cogeneration Process	--	0	*	*	17	0	0	--	1
	<b>Direct Uses-Total Process</b>	--	5,485	0	*	9	*	0	--	5.7
	Process Heating	--	350	0	*	8	0	0	--	3
	Process Cooling and Refrigeration	--	1,904	0	*	*	0	0	--	3.1
	Machine Drive	--	3,109	0	*	*	*	0	--	7.4
	Electro-Chemical Processes	--	18	--	--	--	--	--	--	1.5
	Other Process Use	--	Q	0	*	*	0	0	--	5.2
	<b>Direct Uses-Total Nonprocess</b>	--	W	0	*	6	*	0	--	4
	Facility HVAC (g)	--	2,908	0	*	5	*	0	--	3.8
	Facility Lighting	--	W	--	--	--	--	--	--	1.2
	Other Facility Support	--	413	0	*	*	*	0	--	3.6
	Onsite Transportation	--	27	--	*	0	*	--	--	3.5
	Conventional Electricity Generation	--	--	0	*	*	*	0	--	1
	Other Nonprocess Use	--	30	0	*	1	0	0	--	4.2
	<b>End Use Not Reported</b>	W	W	*	*	1	*	0	9	9.4
<b>325412</b>	<b>Pharmaceutical Preparation</b>									
	RSE Column Factors:	0.4	1.9	0.7	1.6	2	1.4	0.4	NF	
	<b>TOTAL FUEL CONSUMPTION</b>	84	8,312	*	*	39	*	*	4	5
	<b>Indirect Uses-Boiler Fuel</b>	--	8	*	*	27	0	*	--	3
	Conventional Boiler Use	--	8	*	*	18	0	*	--	3.6
	CHP and/or Cogeneration Process	--	0	*	*	9	0	0	--	1
	<b>Direct Uses-Total Process</b>	--	4,392	0	*	7	*	0	--	6.4

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

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

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

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

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

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

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

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





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

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

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

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

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

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



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

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

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

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

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

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





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

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

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

(b) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and

**Table 5.1 End Uses of Fuel Consumption, 2002;**

**Level: National Data;**

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

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

**Unit: Physical Units or Btu.**

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

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

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

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

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

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

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

NF=No applicable RSE row/column factor.

\* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

-- Estimation is not applicable.

S=Negative value.

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells.

Allocations to specific end uses are made on the basis of reasonable approximations by respondents.

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