

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
<b>Total United States</b>							
<b>311 - 339</b>	<b>ALL MANUFACTURING INDUSTRIES</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	2,886	79	130	5,211	69	868
	<b>Indirect Uses-Boiler Fuel</b>	44	46	19	2,134	10	572
	Conventional Boiler Use	44	20	4	733	3	72
	CHP and/or Cogeneration Process	--	26	15	1,401	7	500
	<b>Direct Uses-Total Process</b>	2,304	26	54	2,623	29	289
	Process Heating	318	25	14	2,362	24	280
	Process Cooling and Refrigeration	208	*	Q	25	*	0
	Machine Drive	1,454	*	28	120	3	1
	Electro-Chemical Processes	263	--	--	--	--	--
	Other Process Use	60	*	10	117	1	8
	<b>Direct Uses-Total Nonprocess</b>	479	3	52	368	26	6
	Facility HVAC (g)	236	Q	4	306	4	3
	Facility Lighting	177	--	--	--	--	--
	Other Facility Support	51	*	1	36	3	*
	Onsite Transportation	5	--	39	1	17	--
	Conventional Electricity Generation	--	1	3	19	*	1
	Other Nonprocess Use	10	*	4	7	1	1
	<b>End Use Not Reported</b>	59	5	5	86	4	1
<b>311</b>	<b>FOOD</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	276	12	22	579	6	182
	<b>Indirect Uses-Boiler Fuel</b>	9	10	3	334	2	162
	Conventional Boiler Use	9	5	1	164	*	25
	CHP and/or Cogeneration Process	--	4	2	170	1	137
	<b>Direct Uses-Total Process</b>	212	1	7	189	2	18
	Process Heating	12	1	Q	175	1	17
	Process Cooling and Refrigeration	74	0	Q	2	*	0
	Machine Drive	124	*	*	4	*	*
	Electro-Chemical Processes	1	--	--	--	--	--
	Other Process Use	1	*	Q	7	*	1
	<b>Direct Uses-Total Nonprocess</b>	50	*	10	50	2	1
	Facility HVAC (g)	21	*	Q	33	*	*
	Facility Lighting	21	--	--	--	--	--
	Other Facility Support	6	*	*	16	*	*
	Onsite Transportation	1	--	5	*	1	--
	Conventional Electricity Generation	--	*	2	*	*	1
	Other Nonprocess Use	1	0	3	1	*	0
	<b>End Use Not Reported</b>	5	1	2	7	*	1
<b>3112</b>	<b>Grain and Oilseed Milling</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	68	*	1	121	*	126
	<b>Indirect Uses-Boiler Fuel</b>	3	*	*	70	*	115
	Conventional Boiler Use	3	*	*	38	*	17

**Table 5.4 End Uses of Fuel Consumption, 2010;**

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**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	CHP and/or Cogeneration Process	--	*	*	32	0	99
	<b>Direct Uses-Total Process</b>	57	*	*	47	*	9
	Process Heating	1	*	0	44	*	8
	Process Cooling and Refrigeration	7	0	0	*	0	0
	Machine Drive	49	*	*	1	*	*
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	1	0	1
	<b>Direct Uses-Total Nonprocess</b>	7	*	*	3	*	1
	Facility HVAC (g)	3	*	*	3	*	*
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	0	*	1	*	*
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	*	1
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	Q	0	*	1	*	1
<b>311221</b>	<b>Wet Corn Milling</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	36	*	*	53	*	110
	<b>Indirect Uses-Boiler Fuel</b>	2	0	*	23	0	102
	Conventional Boiler Use	2	0	0	15	0	13
	CHP and/or Cogeneration Process	--	0	*	8	0	90
	<b>Direct Uses-Total Process</b>	31	*	*	29	*	8
	Process Heating	*	*	0	29	*	8
	Process Cooling and Refrigeration	5	0	0	0	0	0
	Machine Drive	26	*	*	*	*	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	*	0	*	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	3	*	*	1	*	0
	Facility HVAC (g)	1	*	*	*	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	0	0	*	0	0	0
	<b>End Use Not Reported</b>	0	0	0	0	*	0
<b>31131</b>	<b>Sugar</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	9	1	1	15	*	49
	<b>Indirect Uses-Boiler Fuel</b>	1	1	*	12	*	40
	Conventional Boiler Use	1	*	0	3	*	3
	CHP and/or Cogeneration Process	--	1	*	9	*	37
	<b>Direct Uses-Total Process</b>	6	0	*	3	*	8
	Process Heating	*	0	0	3	0	8
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	6	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	1	*	1	*	*	*

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NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Facility HVAC (g)	*	0	0	*	*	*
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	*	*	*	*	*
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	*	0	*	0
<b>3114</b>	<b>Fruit and Vegetable Preserving and Specialty Foods</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	33	1	Q	100	1	2
	<b>Indirect Uses-Boiler Fuel</b>	1	1	*	66	*	2
	Conventional Boiler Use	1	1	*	34	*	1
	CHP and/or Cogeneration Process	--	*	*	32	*	1
	<b>Direct Uses-Total Process</b>	25	*	Q	23	*	0
	Process Heating	1	*	Q	22	*	0
	Process Cooling and Refrigeration	12	0	*	*	*	0
	Machine Drive	11	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	7	*	1	9	1	0
	Facility HVAC (g)	3	*	*	8	*	0
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	0	*	1	*	0
	Onsite Transportation	*	--	1	*	1	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	*	1	*	0
<b>3115</b>	<b>Dairy Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	33	2	2	66	1	*
	<b>Indirect Uses-Boiler Fuel</b>	1	1	1	41	*	*
	Conventional Boiler Use	1	1	*	17	*	*
	CHP and/or Cogeneration Process	--	*	1	24	*	0
	<b>Direct Uses-Total Process</b>	25	*	*	19	*	0
	Process Heating	1	*	*	16	*	0
	Process Cooling and Refrigeration	12	0	*	*	0	0
	Machine Drive	12	0	*	1	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	*	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	6	*	1	5	*	0
	Facility HVAC (g)	2	*	*	3	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	1	0	*	1	*	0
	Onsite Transportation	*	--	1	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	1	Q	*	2	*	0

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NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
3116	<b>Animal Slaughtering and Processing</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	69	5	3	125	2	Q
	<b>Indirect Uses-Boiler Fuel</b>	2	4	1	80	Q	0
	Conventional Boiler Use	2	2	*	45	*	0
	CHP and/or Cogeneration Process	--	2	1	35	Q	0
	<b>Direct Uses-Total Process</b>	53	*	*	29	1	Q
	Process Heating	3	*	*	25	1	Q
	Process Cooling and Refrigeration	29	0	*	1	*	0
	Machine Drive	20	0	*	1	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	13	*	2	15	*	0
	Facility HVAC (g)	5	*	*	9	*	0
	Facility Lighting	6	--	--	--	--	--
	Other Facility Support	2	*	*	6	*	0
	Onsite Transportation	*	--	1	*	*	--
	Conventional Electricity Generation	--	*	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	1	*	*	1	*	0
312	<b>BEVERAGE AND TOBACCO PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	30	1	1	38	1	10
	<b>Indirect Uses-Boiler Fuel</b>	1	*	*	24	*	5
	Conventional Boiler Use	1	*	*	9	*	1
	CHP and/or Cogeneration Process	--	*	*	15	*	4
	<b>Direct Uses-Total Process</b>	20	*	1	9	*	4
	Process Heating	2	*	*	9	*	4
	Process Cooling and Refrigeration	8	0	0	*	*	0
	Machine Drive	10	0	*	*	*	*
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	0	*
	<b>Direct Uses-Total Nonprocess</b>	6	*	*	4	1	1
	Facility HVAC (g)	3	*	*	3	*	*
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	1	0	*	*	*	*
	Onsite Transportation	*	--	*	*	1	--
	Conventional Electricity Generation	--	0	*	0	0	*
	Other Nonprocess Use	*	0	*	*	*	*
	<b>End Use Not Reported</b>	3	0	*	*	*	0
3121	<b>Beverages</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	26	*	1	34	1	8
	<b>Indirect Uses-Boiler Fuel</b>	1	*	*	21	*	3
	Conventional Boiler Use	1	*	*	8	*	*
	CHP and/or Cogeneration Process	--	*	*	13	*	3
	<b>Direct Uses-Total Process</b>	18	*	1	9	*	4

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NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Process Heating	1	*	*	8	*	4
	Process Cooling and Refrigeration	7	0	0	*	*	0
	Machine Drive	9	0	*	*	*	*
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	0	*
	<b>Direct Uses-Total Nonprocess</b>	5	*	*	4	1	1
	Facility HVAC (g)	2	*	*	3	*	*
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	*
	Onsite Transportation	*	--	*	*	1	--
	Conventional Electricity Generation	--	0	*	0	0	*
	Other Nonprocess Use	*	0	*	*	*	*
	<b>End Use Not Reported</b>	3	0	*	*	*	0
<b>3122</b>	<b>Tobacco</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	3	*	*	4	*	2
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	3	*	2
	Conventional Boiler Use	*	*	*	1	*	1
	CHP and/or Cogeneration Process	--	0	*	2	*	1
	<b>Direct Uses-Total Process</b>	2	*	*	*	*	0
	Process Heating	*	*	*	*	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	1	0	0	*	*	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	*	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	1	*	*	*	*	0
	Facility HVAC (g)	1	*	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	0	0	0	0
<b>313</b>	<b>TEXTILE MILLS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	45	2	Q	31	1	8
	<b>Indirect Uses-Boiler Fuel</b>	1	1	*	17	*	7
	Conventional Boiler Use	1	*	*	8	*	Q
	CHP and/or Cogeneration Process	--	1	*	9	*	2
	<b>Direct Uses-Total Process</b>	34	Q	Q	11	*	Q
	Process Heating	3	Q	*	10	*	Q
	Process Cooling and Refrigeration	4	0	*	0	0	0
	Machine Drive	25	*	Q	*	*	*
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	Q	*	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	10	*	*	3	*	*
	Facility HVAC (g)	6	*	*	2	*	*
	Facility Lighting	4	--	--	--	--	--

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NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Other Facility Support	1	0	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	0	0	*	*	*	0
	<b>End Use Not Reported</b>	1	0	0	1	*	0
<b>314</b>	<b>TEXTILE PRODUCT MILLS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	8	*	*	9	Q	Q
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	4	*	0
	Conventional Boiler Use	*	*	*	2	*	0
	CHP and/or Cogeneration Process	--	0	0	2	*	0
	<b>Direct Uses-Total Process</b>	5	0	*	3	*	Q
	Process Heating	1	0	*	3	*	Q
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	4	0	0	*	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	3	0	*	1	Q	*
	Facility HVAC (g)	1	0	*	1	*	*
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	0	0	*	0
	<b>End Use Not Reported</b>	*	0	0	*	*	0
<b>315</b>	<b>APPAREL</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	4	0	*	2	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	1	*	0
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	--	0	*	*	*	0
	<b>Direct Uses-Total Process</b>	2	0	0	1	*	0
	Process Heating	*	0	0	1	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	1	0	0	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	1	*	0
	Facility HVAC (g)	1	0	*	1	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	*	0	0
	Other Nonprocess Use	*	0	0	0	0	0
	<b>End Use Not Reported</b>	*	0	0	*	*	0
<b>316</b>	<b>LEATHER AND ALLIED PRODUCTS</b>						

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	<b>TOTAL FUEL CONSUMPTION</b>	1	*	*	1	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	*	*	0
	Conventional Boiler Use	*	0	*	*	*	0
	CHP and/or Cogeneration Process	--	0	*	*	*	0
	<b>Direct Uses-Total Process</b>	1	0	0	*	*	0
	Process Heating	*	0	0	*	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	*	0	0	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	*	0	*	*	*	0
	Facility HVAC (g)	*	0	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	*	*	0	0
	Onsite Transportation	*	--	0	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	0	0	0	0	0	0
	<b>End Use Not Reported</b>	*	*	0	*	*	0
<b>321</b>	<b>WOOD PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	57	*	22	34	3	1
	<b>Indirect Uses-Boiler Fuel</b>	1	*	Q	8	*	1
	Conventional Boiler Use	1	*	*	2	*	*
	CHP and/or Cogeneration Process	--	*	Q	6	*	*
	<b>Direct Uses-Total Process</b>	45	*	Q	22	1	*
	Process Heating	3	*	*	21	*	*
	Process Cooling and Refrigeration	1	0	0	*	*	0
	Machine Drive	41	0	Q	1	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	*	Q	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	9	*	7	4	2	*
	Facility HVAC (g)	3	*	*	4	*	*
	Facility Lighting	4	--	--	--	--	--
	Other Facility Support	1	*	*	*	*	0
	Onsite Transportation	*	--	7	*	1	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	1	*	Q	*	*	0
<b>321113</b>	<b>Sawmills</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	19	*	Q	5	*	0
	<b>Indirect Uses-Boiler Fuel</b>	1	*	*	1	*	0
	Conventional Boiler Use	1	0	*	*	*	0
	CHP and/or Cogeneration Process	--	*	*	1	*	0
	<b>Direct Uses-Total Process</b>	15	*	Q	4	*	0
	Process Heating	1	*	*	4	*	0
	Process Cooling and Refrigeration	*	0	0	*	*	0

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NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Machine Drive	14	0	Q	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	*	Q	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	2	*	2	*	*	0
	Facility HVAC (g)	1	*	*	*	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	2	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	*	*	Q	*	*	0
<b>3212</b>	<b>Veneer, Plywood, and Engineered Woods</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	22	*	2	19	1	1
	<b>Indirect Uses-Boiler Fuel</b>	1	*	Q	4	*	1
	Conventional Boiler Use	1	*	*	1	*	*
	CHP and/or Cogeneration Process	--	0	Q	3	*	*
	<b>Direct Uses-Total Process</b>	18	*	*	14	*	*
	Process Heating	1	*	*	13	*	*
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	16	0	*	1	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	3	0	1	1	1	*
	Facility HVAC (g)	1	0	*	1	*	*
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	1	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	1	0	*	*	*	0
<b>321219</b>	<b>Reconstituted Wood Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	14	*	Q	14	*	1
	<b>Indirect Uses-Boiler Fuel</b>	*	*	Q	3	*	1
	Conventional Boiler Use	*	*	*	1	*	*
	CHP and/or Cogeneration Process	--	0	Q	2	0	*
	<b>Direct Uses-Total Process</b>	12	*	*	11	*	*
	Process Heating	1	*	*	11	*	*
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	10	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	1	*	0
	Facility HVAC (g)	1	0	*	1	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	*	*	--

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	0	*	*	0
<b>3219</b>	<b>Other Wood Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	15	*	5	7	2	*
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	2	*	0
	Conventional Boiler Use	*	0	*	1	*	0
	CHP and/or Cogeneration Process	--	0	*	1	*	0
	<b>Direct Uses-Total Process</b>	11	0	1	3	*	*
	Process Heating	1	0	*	3	*	*
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	10	0	1	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	3	*	4	2	1	0
	Facility HVAC (g)	1	*	*	2	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	3	0	1	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	*	*	*	*	0
<b>322</b>	<b>PAPER</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	353	35	6	399	4	207
	<b>Indirect Uses-Boiler Fuel</b>	16	23	3	240	*	201
	Conventional Boiler Use	16	7	*	50	*	7
	CHP and/or Cogeneration Process	--	17	2	190	*	194
	<b>Direct Uses-Total Process</b>	290	11	1	132	1	6
	Process Heating	9	10	1	120	*	4
	Process Cooling and Refrigeration	5	0	0	*	0	0
	Machine Drive	263	*	*	10	*	*
	Electro-Chemical Processes	2	--	--	--	--	--
	Other Process Use	10	0	*	2	*	1
	<b>Direct Uses-Total Nonprocess</b>	30	1	2	17	3	*
	Facility HVAC (g)	14	*	*	14	*	*
	Facility Lighting	13	--	--	--	--	--
	Other Facility Support	3	0	*	1	*	0
	Onsite Transportation	*	--	2	*	2	--
	Conventional Electricity Generation	--	1	*	2	0	*
	Other Nonprocess Use	*	*	*	*	*	0
	<b>End Use Not Reported</b>	17	*	*	9	*	0
<b>322110</b>	<b>Pulp Mills</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	24	8	1	19	*	*

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	<b>Indirect Uses-Boiler Fuel</b>	4	6	1	11	*	*
	Conventional Boiler Use	4	0	0	1	0	0
	CHP and/or Cogeneration Process	--	6	1	9	*	*
	<b>Direct Uses-Total Process</b>	18	2	*	9	*	0
	Process Heating	2	2	*	8	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	16	0	*	*	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	0	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	*	*	0
	Facility HVAC (g)	1	0	0	*	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	0	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	0	*	0
<b>322121</b>	<b>Paper Mills, except Newsprint</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	132	13	2	172	1	113
	<b>Indirect Uses-Boiler Fuel</b>	8	8	1	104	*	107
	Conventional Boiler Use	8	3	*	25	*	2
	CHP and/or Cogeneration Process	--	5	1	79	*	105
	<b>Direct Uses-Total Process</b>	104	5	*	60	*	6
	Process Heating	4	5	*	54	*	4
	Process Cooling and Refrigeration	2	0	0	0	0	0
	Machine Drive	97	*	*	5	*	*
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	1	0	1
	<b>Direct Uses-Total Nonprocess</b>	10	1	1	3	1	*
	Facility HVAC (g)	5	*	*	3	*	*
	Facility Lighting	4	--	--	--	--	--
	Other Facility Support	1	0	*	*	*	0
	Onsite Transportation	*	--	1	0	1	--
	Conventional Electricity Generation	--	1	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	11	*	*	5	*	0
<b>322122</b>	<b>Newsprint Mills</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	41	1	1	3	*	23
	<b>Indirect Uses-Boiler Fuel</b>	*	1	*	1	0	23
	Conventional Boiler Use	*	1	*	1	0	2
	CHP and/or Cogeneration Process	--	1	*	*	0	20
	<b>Direct Uses-Total Process</b>	39	0	*	2	*	0
	Process Heating	*	0	0	2	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	31	0	*	0	0	0
	Electro-Chemical Processes	*	--	--	--	--	--

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Other Process Use	8	0	0	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	*	*	0
	Facility HVAC (g)	1	0	0	*	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	0	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	0	0	*	0
<b>322130</b>	<b>Paperboard Mills</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	115	11	2	142	*	67
	<b>Indirect Uses-Boiler Fuel</b>	4	8	1	96	*	67
	Conventional Boiler Use	4	2	*	15	*	1
	CHP and/or Cogeneration Process	--	5	1	81	*	65
	<b>Direct Uses-Total Process</b>	101	3	*	39	*	0
	Process Heating	1	3	*	34	*	0
	Process Cooling and Refrigeration	1	0	0	0	0	0
	Machine Drive	96	0	*	4	*	0
	Electro-Chemical Processes	2	--	--	--	--	--
	Other Process Use	1	0	0	1	0	0
	<b>Direct Uses-Total Nonprocess</b>	7	*	1	5	*	*
	Facility HVAC (g)	3	*	*	2	*	*
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	1	0	*	--
	Conventional Electricity Generation	--	0	*	2	0	*
	Other Nonprocess Use	*	*	*	0	*	0
	<b>End Use Not Reported</b>	4	*	*	2	*	0
<b>323</b>	<b>PRINTING AND RELATED SUPPORT</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	47	Q	*	34	1	0
	<b>Indirect Uses-Boiler Fuel</b>	1	0	*	7	*	0
	Conventional Boiler Use	1	0	0	3	*	0
	CHP and/or Cogeneration Process	--	0	*	5	*	0
	<b>Direct Uses-Total Process</b>	27	0	*	16	*	0
	Process Heating	2	0	*	12	*	0
	Process Cooling and Refrigeration	2	0	0	Q	0	0
	Machine Drive	22	0	0	1	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	18	Q	*	9	*	0
	Facility HVAC (g)	11	Q	*	9	*	0
	Facility Lighting	4	--	--	--	--	--
	Other Facility Support	2	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	0	*	0

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	End Use Not Reported	2	0	*	Q	*	0
<b>324</b>	<b>PETROLEUM AND COAL PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	225	17	24	918	26	11
	<b>Indirect Uses-Boiler Fuel</b>	2	4	7	298	7	3
	Conventional Boiler Use	2	4	*	102	2	1
	CHP and/or Cogeneration Process	--	1	7	196	5	2
	<b>Direct Uses-Total Process</b>	203	10	11	567	18	9
	Process Heating	8	10	7	516	18	4
	Process Cooling and Refrigeration	10	0	*	6	*	0
	Machine Drive	181	0	2	16	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	4	0	2	28	*	5
	<b>Direct Uses-Total Nonprocess</b>	17	*	6	19	1	*
	Facility HVAC (g)	8	*	1	3	*	*
	Facility Lighting	6	--	--	--	--	--
	Other Facility Support	2	0	*	1	*	0
	Onsite Transportation	*	--	5	*	*	--
	Conventional Electricity Generation	--	0	*	15	*	0
	Other Nonprocess Use	1	*	*	*	*	0
	<b>End Use Not Reported</b>	3	2	1	34	1	0
<b>324110</b>	<b>Petroleum Refineries</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	213	14	11	859	25	1
	<b>Indirect Uses-Boiler Fuel</b>	2	4	6	286	7	1
	Conventional Boiler Use	2	4	*	98	2	1
	CHP and/or Cogeneration Process	--	*	6	188	5	0
	<b>Direct Uses-Total Process</b>	194	7	2	524	17	0
	Process Heating	7	7	1	475	17	0
	Process Cooling and Refrigeration	10	0	*	6	*	0
	Machine Drive	173	0	1	14	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	4	0	*	28	*	0
	<b>Direct Uses-Total Nonprocess</b>	15	0	2	17	*	0
	Facility HVAC (g)	7	0	*	2	*	0
	Facility Lighting	5	--	--	--	--	--
	Other Facility Support	2	0	*	*	*	0
	Onsite Transportation	*	--	2	*	*	--
	Conventional Electricity Generation	--	0	*	15	*	0
	Other Nonprocess Use	1	0	*	*	0	0
	<b>End Use Not Reported</b>	2	2	*	33	1	0
<b>324121</b>	<b>Asphalt Paving Mixture and Block</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	6	3	12	39	1	Q
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	5	*	0
	Conventional Boiler Use	*	*	*	2	*	0

**Table 5.4 End Uses of Fuel Consumption, 2010;**

Level: National Data;

Row: End Uses within NAICS Codes;

Column: Energy Sources, including Net Demand for Electricity;

Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	CHP and/or Cogeneration Process	--	0	*	3	*	0
	<b>Direct Uses-Total Process</b>	5	3	8	33	1	Q
	Process Heating	1	3	6	30	1	Q
	Process Cooling and Refrigeration	*	0	*	*	0	0
	Machine Drive	4	0	1	2	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	2	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	1	*	3	1	*	0
	Facility HVAC (g)	*	*	1	1	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	3	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	*	*	*	*	0
	<b>End Use Not Reported</b>	*	*	*	Q	*	0
<b>324199</b>	<b>Other Petroleum and Coal Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	2	*	*	5	*	9
	<b>Indirect Uses-Boiler Fuel</b>	*	*	0	1	0	1
	Conventional Boiler Use	*	*	0	*	0	*
	CHP and/or Cogeneration Process	--	*	0	1	0	1
	<b>Direct Uses-Total Process</b>	2	0	*	4	*	8
	Process Heating	*	0	*	4	*	3
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	1	0	*	*	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	0	*	5
	<b>Direct Uses-Total Nonprocess</b>	*	0	*	*	*	*
	Facility HVAC (g)	*	0	*	*	*	*
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	0	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	0	0	*	0
<b>325</b>	<b>CHEMICALS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	638	7	8	1,784	7	200
	<b>Indirect Uses-Boiler Fuel</b>	7	4	2	1,000	1	187
	Conventional Boiler Use	7	2	1	302	1	29
	CHP and/or Cogeneration Process	--	3	1	697	*	158
	<b>Direct Uses-Total Process</b>	566	2	2	750	1	13
	Process Heating	22	2	1	624	*	13
	Process Cooling and Refrigeration	53	0	*	9	*	0
	Machine Drive	348	*	1	68	*	0
	Electro-Chemical Processes	139	--	--	--	--	--
	Other Process Use	4	0	*	49	*	0
	<b>Direct Uses-Total Nonprocess</b>	62	*	4	32	4	1

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Facility HVAC (g)	33	0	*	24	*	1
	Facility Lighting	21	--	--	--	--	--
	Other Facility Support	8	0	*	4	Q	0
	Onsite Transportation	*	--	3	*	1	--
	Conventional Electricity Generation	--	0	*	1	*	0
	Other Nonprocess Use	1	*	*	2	*	0
	<b>End Use Not Reported</b>	3	*	*	3	1	0
<b>325110</b>	<b>Petrochemicals</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	41	1	*	248	1	0
	<b>Indirect Uses-Boiler Fuel</b>	*	1	*	67	0	0
	Conventional Boiler Use	*	1	*	22	0	0
	CHP and/or Cogeneration Process	--	*	*	45	0	0
	<b>Direct Uses-Total Process</b>	39	0	*	180	*	0
	Process Heating	*	0	*	W	0	0
	Process Cooling and Refrigeration	8	0	0	3	*	0
	Machine Drive	29	0	*	W	0	0
	Electro-Chemical Processes	2	--	--	--	--	--
	Other Process Use	*	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	1	*	0
	Facility HVAC (g)	1	0	0	*	0	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	0	0	*	1	0	0
	<b>End Use Not Reported</b>	*	0	*	*	1	0
<b>325120</b>	<b>Industrial Gases</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	66	0	*	27	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	Q	0	0
	Conventional Boiler Use	*	0	*	2	0	0
	CHP and/or Cogeneration Process	--	0	*	Q	0	0
	<b>Direct Uses-Total Process</b>	64	0	*	12	*	0
	Process Heating	1	0	*	3	0	0
	Process Cooling and Refrigeration	1	0	*	*	0	0
	Machine Drive	42	0	*	0	*	0
	Electro-Chemical Processes	20	--	--	--	--	--
	Other Process Use	*	0	0	8	*	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	*	*	0
	Facility HVAC (g)	1	0	*	*	0	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	*	0	0	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	0	0	0	0	0	0
	<b>End Use Not Reported</b>	1	0	*	0	*	0

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
<b>325181</b>	<b>Alkalies and Chlorine</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	W	0	*	W	*	39
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	76	*	35
	Conventional Boiler Use	*	0	*	6	0	0
	CHP and/or Cogeneration Process	--	0	*	69	*	35
	<b>Direct Uses-Total Process</b>	66	0	*	W	*	4
	Process Heating	*	0	0	W	*	4
	Process Cooling and Refrigeration	1	0	0	0	0	0
	Machine Drive	11	0	*	W	0	0
	Electro-Chemical Processes	53	--	--	--	--	--
	Other Process Use	0	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	W	0	*	*	*	0
	Facility HVAC (g)	1	0	*	*	*	0
	Facility Lighting	W	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	0	0	*	0	0	0
	<b>End Use Not Reported</b>	*	0	0	0	*	0
<b>325182</b>	<b>Carbon Black</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	3	*	*	11	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	*	0	0
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	--	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	2	*	*	11	0	0
	Process Heating	*	0	0	8	0	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	2	*	*	2	0	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	*	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	*	0	*	*	*	0
	Facility HVAC (g)	*	0	0	*	0	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	0	0	0	*	0	0
	<b>End Use Not Reported</b>	0	0	0	0	0	0
<b>325188</b>	<b>Other Basic Inorganic Chemicals</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	87	1	1	49	*	17
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	18	*	17
	Conventional Boiler Use	*	*	*	8	*	1
	CHP and/or Cogeneration Process	--	0	*	10	0	16
	<b>Direct Uses-Total Process</b>	84	1	*	30	*	*

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Process Heating	5	1	*	29	*	*
	Process Cooling and Refrigeration	1	0	*	*	0	0
	Machine Drive	60	0	*	*	0	0
	Electro-Chemical Processes	17	--	--	--	--	--
	Other Process Use	*	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>3</b>	<b>0</b>	<b>*</b>	<b>2</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	1	0	*	1	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>*</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>
<b>325192</b>	<b>Cyclic Crudes and Intermediates</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>9</b>	<b>2</b>	<b>*</b>	<b>22</b>	<b>*</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>13</b>	<b>*</b>	<b>0</b>
	Conventional Boiler Use	*	*	*	9	*	0
	CHP and/or Cogeneration Process	--	1	*	4	0	0
	<b>Direct Uses-Total Process</b>	<b>8</b>	<b>0</b>	<b>*</b>	<b>9</b>	<b>*</b>	<b>0</b>
	Process Heating	1	0	*	9	*	0
	Process Cooling and Refrigeration	2	0	*	0	0	0
	Machine Drive	5	0	*	0	0	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	0	0	0	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>1</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	1	0	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	0	0	0	0
	<b>End Use Not Reported</b>	<b>0</b>	<b>*</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>325193</b>	<b>Ethyl Alcohol</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>27</b>	<b>0</b>	<b>*</b>	<b>252</b>	<b>*</b>	<b>25</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>1</b>	<b>0</b>	<b>*</b>	<b>146</b>	<b>*</b>	<b>18</b>
	Conventional Boiler Use	1	0	*	74	*	3
	CHP and/or Cogeneration Process	--	0	*	72	*	15
	<b>Direct Uses-Total Process</b>	<b>23</b>	<b>0</b>	<b>*</b>	<b>101</b>	<b>*</b>	<b>7</b>
	Process Heating	2	0	*	91	*	7
	Process Cooling and Refrigeration	2	0	0	*	0	0
	Machine Drive	19	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	9	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>2</b>	<b>0</b>	<b>*</b>	<b>3</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	1	0	*	2	*	0
	Facility Lighting	1	--	--	--	--	--

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Other Facility Support	*	0	0	1	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	0	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	*	3	*	0
<b>325199</b>	<b>Other Basic Organic Chemicals</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	93	*	1	378	*	59
	<b>Indirect Uses-Boiler Fuel</b>	1	*	*	258	*	59
	Conventional Boiler Use	1	*	*	63	0	3
	CHP and/or Cogeneration Process	--	0	*	195	*	56
	<b>Direct Uses-Total Process</b>	85	0	*	116	*	0
	Process Heating	2	0	*	87	*	0
	Process Cooling and Refrigeration	12	0	*	4	*	0
	Machine Drive	53	0	*	5	*	0
	Electro-Chemical Processes	15	--	--	--	--	--
	Other Process Use	1	0	*	19	*	0
	<b>Direct Uses-Total Nonprocess</b>	8	0	*	5	*	0
	Facility HVAC (g)	3	0	*	3	*	0
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	0	*	1	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	1	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	*	*	*	0
<b>325211</b>	<b>Plastics Materials and Resins</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	114	Q	1	307	1	12
	<b>Indirect Uses-Boiler Fuel</b>	1	*	*	233	1	12
	Conventional Boiler Use	1	*	*	41	1	10
	CHP and/or Cogeneration Process	--	0	*	192	*	3
	<b>Direct Uses-Total Process</b>	104	Q	*	70	*	0
	Process Heating	3	Q	*	61	*	0
	Process Cooling and Refrigeration	8	0	*	1	*	0
	Machine Drive	62	0	*	3	*	0
	Electro-Chemical Processes	31	--	--	--	--	--
	Other Process Use	*	0	*	5	*	0
	<b>Direct Uses-Total Nonprocess</b>	8	0	*	4	*	0
	Facility HVAC (g)	4	0	*	2	*	0
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	0	*	1	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	*	*	*	0
<b>325212</b>	<b>Synthetic Rubber</b>						

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	<b>TOTAL FUEL CONSUMPTION</b>	7	0	*	22	*	3
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	19	0	3
	Conventional Boiler Use	*	0	*	6	0	1
	CHP and/or Cogeneration Process	--	0	*	14	0	2
	<b>Direct Uses-Total Process</b>	5	0	*	2	*	0
	Process Heating	*	0	0	W	0	0
	Process Cooling and Refrigeration	1	0	0	*	0	0
	Machine Drive	4	0	*	W	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	*	*	0
	Facility HVAC (g)	*	0	0	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	1	0	*	0	*	0
<b>325222</b>	<b>Noncellulosic Organic Fibers</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	10	*	*	10	*	3
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	6	*	3
	Conventional Boiler Use	*	*	*	4	0	2
	CHP and/or Cogeneration Process	--	*	*	2	*	1
	<b>Direct Uses-Total Process</b>	8	*	*	3	*	0
	Process Heating	1	*	0	W	*	0
	Process Cooling and Refrigeration	1	0	0	*	0	0
	Machine Drive	5	0	*	W	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	*	*	0
	Facility HVAC (g)	1	0	0	*	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	0	0	*	0
<b>325311</b>	<b>Nitrogenous Fertilizers</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	12	*	*	152	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	49	*	0
	Conventional Boiler Use	*	0	*	30	*	0
	CHP and/or Cogeneration Process	--	*	*	19	*	0
	<b>Direct Uses-Total Process</b>	11	0	*	102	*	0
	Process Heating	*	0	*	97	*	0
	Process Cooling and Refrigeration	2	0	0	0	0	0

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Machine Drive	9	0	*	3	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	3	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>1</b>	<b>0</b>	<b>*</b>	<b>1</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	*	0	*	1	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>-1</b>	<b>*</b>	<b>0</b>
<b>325312</b>	<b>Phosphatic Fertilizers</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>12</b>	<b>*</b>	<b>1</b>	<b>27</b>	<b>*</b>	<b>2</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>3</b>	<b>0</b>	<b>0</b>
	Conventional Boiler Use	*	0	0	2	0	0
	CHP and/or Cogeneration Process	--	*	*	1	0	0
	<b>Direct Uses-Total Process</b>	<b>11</b>	<b>*</b>	<b>*</b>	<b>24</b>	<b>*</b>	<b>2</b>
	Process Heating	*	*	*	24	0	2
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	11	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>*</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	*	0	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	1	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	0	0
	<b>End Use Not Reported</b>	<b>*</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>0</b>	<b>0</b>
<b>3254</b>	<b>Pharmaceuticals and Medicines</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>34</b>	<b>*</b>	<b>1</b>	<b>49</b>	<b>*</b>	<b>4</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>38</b>	<b>*</b>	<b>3</b>
	Conventional Boiler Use	*	*	*	17	*	3
	CHP and/or Cogeneration Process	--	*	*	21	*	0
	<b>Direct Uses-Total Process</b>	<b>17</b>	<b>*</b>	<b>*</b>	<b>5</b>	<b>*</b>	<b>0</b>
	Process Heating	2	*	0	4	*	0
	Process Cooling and Refrigeration	5	0	*	*	0	0
	Machine Drive	9	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>17</b>	<b>*</b>	<b>*</b>	<b>6</b>	<b>*</b>	<b>1</b>
	Facility HVAC (g)	11	0	*	5	*	1
	Facility Lighting	4	--	--	--	--	--
	Other Facility Support	2	0	*	1	*	0
	Onsite Transportation	*	--	*	0	*	--

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	*	*	*	*	*	0
	<b>End Use Not Reported</b>	*	0	*	*	*	0
<b>325412</b>	<b>Pharmaceutical Preparation</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	20	*	*	24	*	4
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	17	*	3
	Conventional Boiler Use	*	*	*	8	*	3
	CHP and/or Cogeneration Process	--	*	*	8	*	0
	<b>Direct Uses-Total Process</b>	10	*	*	3	*	0
	Process Heating	1	*	0	2	*	0
	Process Cooling and Refrigeration	3	0	0	*	0	0
	Machine Drive	6	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	9	0	*	4	*	1
	Facility HVAC (g)	6	0	*	3	*	1
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	1	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	*	*	*	0
<b>325992</b>	<b>Photographic Film, Paper, Plate, and Chemicals</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	6	*	*	6	*	9
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	5	0	9
	Conventional Boiler Use	*	0	*	3	0	0
	CHP and/or Cogeneration Process	--	*	*	2	0	9
	<b>Direct Uses-Total Process</b>	4	0	*	1	*	0
	Process Heating	*	0	0	1	0	0
	Process Cooling and Refrigeration	1	0	0	0	0	0
	Machine Drive	2	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	*	*	0
	Facility HVAC (g)	1	0	*	*	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	0	*	0	0
<b>326</b>	<b>PLASTICS AND RUBBER PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	157	*	2	103	2	Q

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	<b>Indirect Uses-Boiler Fuel</b>	1	*	2	44	*	Q
	Conventional Boiler Use	1	*	Q	20	*	0
	CHP and/or Cogeneration Process	--	0	1	24	*	Q
	<b>Direct Uses-Total Process</b>	120	0	*	37	*	0
	Process Heating	29	0	0	34	*	0
	Process Cooling and Refrigeration	18	0	0	1	*	0
	Machine Drive	68	0	*	Q	*	0
	Electro-Chemical Processes	1	--	--	--	--	--
	Other Process Use	5	0	0	Q	*	0
	<b>Direct Uses-Total Nonprocess</b>	33	0	*	23	1	0
	Facility HVAC (g)	16	0	*	21	*	0
	Facility Lighting	13	--	--	--	--	--
	Other Facility Support	3	0	*	1	*	0
	Onsite Transportation	*	--	*	*	1	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	Q	*	0
	<b>End Use Not Reported</b>	Q	0	*	Q	*	0
<b>327</b>	<b>NONMETALLIC MINERAL PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	112	1	23	273	2	217
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	11	*	*
	Conventional Boiler Use	*	0	*	3	*	0
	CHP and/or Cogeneration Process	--	*	*	7	*	*
	<b>Direct Uses-Total Process</b>	96	1	12	239	1	216
	Process Heating	29	*	2	235	1	216
	Process Cooling and Refrigeration	3	0	*	Q	0	0
	Machine Drive	61	*	10	2	Q	0
	Electro-Chemical Processes	1	--	--	--	--	--
	Other Process Use	2	0	*	1	*	*
	<b>Direct Uses-Total Nonprocess</b>	14	*	10	17	1	*
	Facility HVAC (g)	7	*	*	16	*	*
	Facility Lighting	6	--	--	--	--	--
	Other Facility Support	1	*	*	1	*	0
	Onsite Transportation	*	--	9	*	1	--
	Conventional Electricity Generation	--	*	*	*	*	0
	Other Nonprocess Use	*	0	Q	*	*	*
	<b>End Use Not Reported</b>	1	0	*	6	*	0
<b>327121</b>	<b>Brick and Structural Clay Tile</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	2	*	*	16	*	1
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	*	0	0
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	--	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	2	*	*	15	*	1
	Process Heating	*	*	*	15	*	1
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	1	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Other Process Use	0	0	*	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	*	0	*	*	*	0
	Facility HVAC (g)	*	0	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	0	0
	<b>End Use Not Reported</b>	*	0	0	1	*	0
<b>327211</b>	<b>Flat Glass</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	6	0	*	43	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	*	0	0
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	--	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	5	0	*	41	*	0
	Process Heating	2	0	*	41	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	2	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	1	*	0
	Facility HVAC (g)	*	0	0	1	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	0	0
	<b>End Use Not Reported</b>	*	0	0	0	*	0
<b>327212</b>	<b>Other Pressed and Blown Glass and Glassware</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	9	0	*	28	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	1	*	0
	Conventional Boiler Use	*	0	*	*	*	0
	CHP and/or Cogeneration Process	--	0	0	1	*	0
	<b>Direct Uses-Total Process</b>	7	0	*	25	*	0
	Process Heating	4	0	*	24	*	0
	Process Cooling and Refrigeration	1	0	0	*	0	0
	Machine Drive	2	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	1	*	0
	Facility HVAC (g)	1	0	0	1	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0

**Table 5.4 End Uses of Fuel Consumption, 2010;**

Level: National Data;

Row: End Uses within NAICS Codes;

Column: Energy Sources, including Net Demand for Electricity;

Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	End Use Not Reported	*	0	0	1	*	0
327213	Glass Containers						
	<b>TOTAL FUEL CONSUMPTION</b>	12	0	*	46	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	*	0	0
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	--	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	11	0	*	44	*	0
	Process Heating	5	0	*	44	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	6	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	2	*	0
	Facility HVAC (g)	1	0	*	2	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	0	0	*	0	*	0
	End Use Not Reported	*	0	*	0	*	0
327215	Glass Products from Purchased Glass						
	<b>TOTAL FUEL CONSUMPTION</b>	9	0	*	5	*	*
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	*	0	0
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	--	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	7	0	*	3	*	0
	Process Heating	3	0	*	3	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	2	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	1	*	*
	Facility HVAC (g)	1	0	*	1	*	*
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	End Use Not Reported	*	0	*	*	*	0
327310	Cements						
	<b>TOTAL FUEL CONSUMPTION</b>	32	*	3	13	*	135
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	*	*	0
	Conventional Boiler Use	*	0	0	*	*	0

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	CHP and/or Cogeneration Process	--	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	30	*	1	12	*	135
	Process Heating	6	*	*	12	*	135
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	23	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	0	*	*
	<b>Direct Uses-Total Nonprocess</b>	2	0	2	*	*	0
	Facility HVAC (g)	1	0	*	*	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	2	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	0	0	*	0
<b>327410</b>	<b>Lime</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	5	*	5	3	*	77
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	*	0	0
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	--	0	0	0	0	0
	<b>Direct Uses-Total Process</b>	5	0	4	3	*	77
	Process Heating	1	0	*	3	*	77
	Process Cooling and Refrigeration	*	0	*	0	0	0
	Machine Drive	3	0	4	0	*	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	*	0	*	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	*	*	1	*	*	0
	Facility HVAC (g)	*	*	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	0	--	1	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	0	0	*	0
<b>327420</b>	<b>Gypsum</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	5	*	*	39	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	1	0	0
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	--	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	4	0	*	36	*	0
	Process Heating	*	0	*	35	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	4	0	*	1	*	0
	Electro-Chemical Processes	0	--	--	--	--	--
	Other Process Use	*	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	1	*	*	2	*	0

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Facility HVAC (g)	*	*	*	2	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	0	0	0	0	0	0
	<b>End Use Not Reported</b>	*	0	0	0	0	0
<b>327993</b>	<b>Mineral Wool</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	12	0	*	24	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	1	0	0
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	--	0	*	1	0	0
	<b>Direct Uses-Total Process</b>	10	0	*	21	*	0
	Process Heating	5	0	*	21	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	5	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	2	0	*	2	*	0
	Facility HVAC (g)	1	0	*	2	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	0	0	*	*	*	0
	<b>End Use Not Reported</b>	0	0	0	0	0	0
<b>331</b>	<b>PRIMARY METALS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	420	1	9	537	3	23
	<b>Indirect Uses-Boiler Fuel</b>	1	1	*	63	*	0
	Conventional Boiler Use	1	*	*	22	*	0
	CHP and/or Cogeneration Process	--	*	*	42	*	0
	<b>Direct Uses-Total Process</b>	380	*	3	434	1	21
	Process Heating	130	*	*	403	1	21
	Process Cooling and Refrigeration	5	0	*	3	*	0
	Machine Drive	125	*	1	12	*	0
	Electro-Chemical Processes	107	--	--	--	--	--
	Other Process Use	13	0	1	16	*	1
	<b>Direct Uses-Total Nonprocess</b>	36	*	6	38	1	1
	Facility HVAC (g)	15	*	*	33	*	0
	Facility Lighting	15	--	--	--	--	--
	Other Facility Support	4	0	*	3	*	0
	Onsite Transportation	*	--	6	*	1	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	2	0	*	1	*	1
	<b>End Use Not Reported</b>	2	0	*	Q	*	0

**Table 5.4 End Uses of Fuel Consumption, 2010;**

Level: National Data;

Row: End Uses within NAICS Codes;

Column: Energy Sources, including Net Demand for Electricity;

Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
331111	<b>Iron and Steel Mills</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	188	*	5	325	*	23
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	38	*	0
	Conventional Boiler Use	*	*	*	W	*	0
	CHP and/or Cogeneration Process	--	*	*	W	*	0
	<b>Direct Uses-Total Process</b>	169	0	2	272	*	21
	Process Heating	82	0	*	252	*	21
	Process Cooling and Refrigeration	2	0	*	2	*	0
	Machine Drive	76	0	*	6	*	0
	Electro-Chemical Processes	5	--	--	--	--	--
	Other Process Use	5	0	1	11	*	1
	<b>Direct Uses-Total Nonprocess</b>	17	0	3	16	*	1
	Facility HVAC (g)	7	0	*	13	*	0
	Facility Lighting	7	--	--	--	--	--
	Other Facility Support	2	0	*	2	*	0
	Onsite Transportation	*	--	3	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	1	0	*	1	*	1
	<b>End Use Not Reported</b>	2	0	*	*	*	0
331112	<b>Electrometallurgical Ferroalloy Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	11	0	*	1	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	*	0	0
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	--	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	10	0	*	1	*	0
	Process Heating	5	0	*	1	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	1	0	*	0	*	0
	Electro-Chemical Processes	5	--	--	--	--	--
	Other Process Use	*	0	0	0	0	0
	<b>Direct Uses-Total Nonprocess</b>	*	0	*	*	*	0
	Facility HVAC (g)	*	0	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	0	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	0	0	*	0
3312	<b>Steel Products from Purchased Steel</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	18	*	*	18	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	2	*	0
	Conventional Boiler Use	*	0	0	1	*	0
	CHP and/or Cogeneration Process	--	0	*	1	0	0
	<b>Direct Uses-Total Process</b>	15	*	*	13	*	0

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Process Heating	4	0	*	12	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	9	*	*	*	*	0
	Electro-Chemical Processes	1	--	--	--	--	--
	Other Process Use	*	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>3</b>	<b>0</b>	<b>*</b>	<b>4</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	1	0	*	3	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>*</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>0</b>
<b>3313</b>	<b>Alumina and Aluminum</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>118</b>	<b>*</b>	<b>2</b>	<b>96</b>	<b>1</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>1</b>	<b>*</b>	<b>*</b>	<b>13</b>	<b>*</b>	<b>0</b>
	Conventional Boiler Use	1	*	*	W	*	0
	CHP and/or Cogeneration Process	--	0	0	W	0	0
	<b>Direct Uses-Total Process</b>	<b>113</b>	<b>*</b>	<b>1</b>	<b>78</b>	<b>*</b>	<b>0</b>
	Process Heating	5	*	*	73	*	0
	Process Cooling and Refrigeration	1	0	*	*	0	0
	Machine Drive	17	0	*	5	*	0
	Electro-Chemical Processes	90	--	--	--	--	--
	Other Process Use	*	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	2	0	*	4	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	1	0	0	1	*	0
	Onsite Transportation	*	--	1	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>*</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>
<b>331314</b>	<b>Secondary Smelting and Alloying of Aluminum</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>9</b>	<b>*</b>	<b>*</b>	<b>14</b>	<b>*</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>*</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>
	Conventional Boiler Use	*	0	0	0	0	0
	CHP and/or Cogeneration Process	--	0	0	1	0	0
	<b>Direct Uses-Total Process</b>	<b>9</b>	<b>*</b>	<b>*</b>	<b>13</b>	<b>*</b>	<b>0</b>
	Process Heating	1	*	*	13	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	1	0	*	0	*	0
	Electro-Chemical Processes	7	--	--	--	--	--
	Other Process Use	*	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>*</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	*	0	*	*	*	0
	Facility Lighting	*	--	--	--	--	--

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Other Facility Support	*	0	0	*	0	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	*	*	*	0
<b>331315</b>	<b>Aluminum Sheet, Plate and Foils</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	14	*	*	40	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	*	0	W	0	0
	Conventional Boiler Use	*	*	0	1	0	0
	CHP and/or Cogeneration Process	--	0	0	W	0	0
	<b>Direct Uses-Total Process</b>	13	*	*	37	*	0
	Process Heating	2	*	0	37	*	0
	Process Cooling and Refrigeration	*	0	*	*	0	0
	Machine Drive	10	0	*	0	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	W	*	0
	Facility HVAC (g)	1	0	*	W	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	0	0	0	0
	Other Nonprocess Use	*	0	*	0	0	0
	<b>End Use Not Reported</b>	*	0	0	*	*	0
<b>331316</b>	<b>Aluminum Extruded Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	5	0	*	11	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	W	*	0
	Conventional Boiler Use	*	0	0	W	*	0
	CHP and/or Cogeneration Process	--	0	0	W	0	0
	<b>Direct Uses-Total Process</b>	4	0	*	W	*	0
	Process Heating	1	0	0	W	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	3	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	1	*	0
	Facility HVAC (g)	*	0	*	1	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	0	*	0
<b>3314</b>	<b>Nonferrous Metals, except Aluminum</b>						

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	<b>TOTAL FUEL CONSUMPTION</b>	47	*	*	51	1	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	9	*	0
	Conventional Boiler Use	*	0	*	4	*	0
	CHP and/or Cogeneration Process	--	0	*	5	*	0
	<b>Direct Uses-Total Process</b>	42	0	*	37	1	0
	Process Heating	18	0	*	33	1	0
	Process Cooling and Refrigeration	1	0	*	*	*	0
	Machine Drive	11	0	*	*	*	0
	Electro-Chemical Processes	7	--	--	--	--	--
	Other Process Use	6	0	*	3	*	0
	<b>Direct Uses-Total Nonprocess</b>	4	*	*	4	*	0
	Facility HVAC (g)	2	*	*	4	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	0	Q	*	0
<b>331419</b>	<b>Primary Smelting and Refining of Nonferrous Metals, except Copper and Aluminum</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	26	0	*	12	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	1	0	0
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	--	0	*	1	0	0
	<b>Direct Uses-Total Process</b>	25	0	*	11	*	0
	Process Heating	12	0	*	8	*	0
	Process Cooling and Refrigeration	1	0	0	*	*	0
	Machine Drive	2	0	*	0	*	0
	Electro-Chemical Processes	5	--	--	--	--	--
	Other Process Use	5	0	*	3	*	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	*	*	0
	Facility HVAC (g)	*	0	*	*	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	0	*	*	0
<b>3315</b>	<b>Foundries</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	38	0	1	46	1	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	1	*	0
	Conventional Boiler Use	*	0	*	1	*	0
	CHP and/or Cogeneration Process	--	0	*	1	*	0
	<b>Direct Uses-Total Process</b>	31	0	*	34	*	0
	Process Heating	17	0	*	32	*	0
	Process Cooling and Refrigeration	1	0	*	*	0	0

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Machine Drive	11	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	2	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>10</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	4	0	*	9	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	1	0	*	1	*	0
	Onsite Transportation	*	--	1	*	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>*</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>0</b>
<b>331511</b>	<b>Iron Foundries</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>19</b>	<b>0</b>	<b>*</b>	<b>14</b>	<b>*</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>*</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>
	Conventional Boiler Use	*	0	*	*	*	0
	CHP and/or Cogeneration Process	--	0	*	*	0	0
	<b>Direct Uses-Total Process</b>	<b>15</b>	<b>0</b>	<b>*</b>	<b>9</b>	<b>*</b>	<b>0</b>
	Process Heating	10	0	*	8	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	5	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	<b>4</b>	<b>0</b>	<b>*</b>	<b>5</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	2	0	*	4	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	*	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	<b>*</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>0</b>
<b>331521</b>	<b>Aluminum Die-Casting Foundries</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	<b>4</b>	<b>0</b>	<b>*</b>	<b>11</b>	<b>*</b>	<b>0</b>
	<b>Indirect Uses-Boiler Fuel</b>	<b>*</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>0</b>
	Conventional Boiler Use	*	0	0	*	0	0
	CHP and/or Cogeneration Process	--	0	0	*	*	0
	<b>Direct Uses-Total Process</b>	<b>3</b>	<b>0</b>	<b>*</b>	<b>9</b>	<b>*</b>	<b>0</b>
	Process Heating	1	0	0	8	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	2	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	<b>1</b>	<b>0</b>	<b>*</b>	<b>2</b>	<b>*</b>	<b>0</b>
	Facility HVAC (g)	*	0	*	2	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	0	*	*	0
	Onsite Transportation	*	--	*	0	*	--

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	0	*	*	0
<b>331524</b>	<b>Aluminum Foundries, except Die-Casting</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	3	0	*	8	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	*	*	0
	Conventional Boiler Use	*	0	0	*	*	0
	CHP and/or Cogeneration Process	--	0	0	*	0	0
	<b>Direct Uses-Total Process</b>	2	0	*	7	*	0
	Process Heating	1	0	*	6	*	0
	Process Cooling and Refrigeration	*	0	0	*	0	0
	Machine Drive	1	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	1	0	*	1	*	0
	Facility HVAC (g)	*	0	*	1	*	0
	Facility Lighting	*	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	0	0	*	0	*	0
	<b>End Use Not Reported</b>	*	0	0	*	*	0
<b>332</b>	<b>FABRICATED METAL PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	127	*	3	163	5	Q
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	21	*	0
	Conventional Boiler Use	*	0	0	11	0	0
	CHP and/or Cogeneration Process	--	0	*	10	*	0
	<b>Direct Uses-Total Process</b>	90	0	*	94	1	0
	Process Heating	27	0	*	92	1	0
	Process Cooling and Refrigeration	4	0	0	*	*	0
	Machine Drive	52	0	*	1	*	0
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	3	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	30	0	2	30	4	Q
	Facility HVAC (g)	12	0	Q	29	1	Q
	Facility Lighting	14	--	--	--	--	--
	Other Facility Support	3	0	*	2	*	0
	Onsite Transportation	*	--	1	*	3	--
	Conventional Electricity Generation	--	0	*	*	*	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	8	*	*	Q	*	0
<b>333</b>	<b>MACHINERY</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	70	*	3	71	2	0

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	<b>Indirect Uses-Boiler Fuel</b>	Q	*	*	6	*	0
	Conventional Boiler Use	Q	0	0	3	*	0
	CHP and/or Cogeneration Process	--	*	*	3	0	0
	<b>Direct Uses-Total Process</b>	40	0	3	30	1	0
	Process Heating	8	0	*	28	*	0
	Process Cooling and Refrigeration	2	0	0	*	0	0
	Machine Drive	28	0	Q	1	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	2	0	2	Q	*	0
	<b>Direct Uses-Total Nonprocess</b>	28	0	1	35	1	0
	Facility HVAC (g)	14	0	*	33	*	0
	Facility Lighting	10	--	--	--	--	--
	Other Facility Support	3	0	*	1	*	0
	Onsite Transportation	*	--	*	*	1	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	Q	0	*	*	*	0
	<b>End Use Not Reported</b>	1	0	0	Q	*	0
<b>334</b>	<b>COMPUTER AND ELECTRONIC PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	101	*	*	42	*	0
	<b>Indirect Uses-Boiler Fuel</b>	1	*	*	14	0	0
	Conventional Boiler Use	1	0	*	12	0	0
	CHP and/or Cogeneration Process	--	*	*	3	0	0
	<b>Direct Uses-Total Process</b>	48	0	*	6	*	0
	Process Heating	10	0	*	5	*	0
	Process Cooling and Refrigeration	9	0	0	0	0	0
	Machine Drive	23	0	*	*	*	0
	Electro-Chemical Processes	2	--	--	--	--	--
	Other Process Use	5	0	*	1	0	0
	<b>Direct Uses-Total Nonprocess</b>	48	*	*	19	*	0
	Facility HVAC (g)	30	*	*	18	*	0
	Facility Lighting	12	--	--	--	--	--
	Other Facility Support	5	0	*	1	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	1	0	*	*	*	0
	<b>End Use Not Reported</b>	4	0	0	3	*	0
<b>334413</b>	<b>Semiconductors and Related Devices</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	37	*	*	20	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	9	0	0
	Conventional Boiler Use	*	0	*	8	0	0
	CHP and/or Cogeneration Process	--	0	0	1	0	0
	<b>Direct Uses-Total Process</b>	22	0	*	3	*	0
	Process Heating	4	0	0	2	*	0
	Process Cooling and Refrigeration	4	0	0	0	0	0
	Machine Drive	9	0	*	*	*	0
	Electro-Chemical Processes	1	--	--	--	--	--

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Other Process Use	4	0	*	1	0	0
	<b>Direct Uses-Total Nonprocess</b>	12	*	*	6	*	0
	Facility HVAC (g)	9	*	*	5	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	1	0	*	*	*	0
	Onsite Transportation	0	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	1	0	*	*	*	0
	<b>End Use Not Reported</b>	3	0	0	3	*	0
<b>335</b>	<b>ELEC. EQUIP., APPLIANCES, COMPONENTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	36	*	1	36	1	0
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	6	*	0
	Conventional Boiler Use	*	*	*	4	*	0
	CHP and/or Cogeneration Process	--	0	0	3	*	0
	<b>Direct Uses-Total Process</b>	24	*	*	20	*	0
	Process Heating	5	0	*	19	*	0
	Process Cooling and Refrigeration	2	0	0	*	0	0
	Machine Drive	14	*	*	*	*	0
	Electro-Chemical Processes	2	--	--	--	--	--
	Other Process Use	1	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	12	0	1	8	1	0
	Facility HVAC (g)	6	0	*	8	*	0
	Facility Lighting	4	--	--	--	--	--
	Other Facility Support	2	0	*	1	*	0
	Onsite Transportation	*	--	*	0	1	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	*	0	0	1	*	0
<b>336</b>	<b>TRANSPORTATION EQUIPMENT</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	134	2	3	127	3	3
	<b>Indirect Uses-Boiler Fuel</b>	1	2	*	30	*	3
	Conventional Boiler Use	1	2	*	13	*	3
	CHP and/or Cogeneration Process	--	0	*	16	*	0
	<b>Direct Uses-Total Process</b>	77	*	1	52	1	0
	Process Heating	14	*	*	43	*	0
	Process Cooling and Refrigeration	7	*	*	*	0	0
	Machine Drive	48	0	Q	*	Q	0
	Electro-Chemical Processes	3	--	--	--	--	--
	Other Process Use	5	0	*	8	*	0
	<b>Direct Uses-Total Nonprocess</b>	52	*	1	44	2	0
	Facility HVAC (g)	25	*	*	41	*	0
	Facility Lighting	20	--	--	--	--	--
	Other Facility Support	5	*	*	3	*	0
	Onsite Transportation	1	--	1	*	1	--
	Conventional Electricity Generation	--	0	*	1	0	0
	Other Nonprocess Use	1	0	*	*	*	0

**Table 5.4 End Uses of Fuel Consumption, 2010;**

Level: National Data;

Row: End Uses within NAICS Codes;

Column: Energy Sources, including Net Demand for Electricity;

Unit: Trillion Btu.

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	<b>End Use Not Reported</b>	5	1	*	1	*	0
<b>336111</b>	<b>Automobiles</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	10	0	*	15	*	1
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	3	*	1
	Conventional Boiler Use	*	0	*	2	*	1
	CHP and/or Cogeneration Process	--	0	0	1	0	0
	<b>Direct Uses-Total Process</b>	6	0	*	8	*	0
	Process Heating	1	0	0	8	0	0
	Process Cooling and Refrigeration	1	0	0	0	0	0
	Machine Drive	4	0	*	0	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	4	0	*	4	*	0
	Facility HVAC (g)	2	0	0	3	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	*	0	*	1	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	0	0	0
<b>336112</b>	<b>Light Trucks and Utility Vehicles</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	13	0	*	23	*	1
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	5	0	1
	Conventional Boiler Use	*	0	0	2	0	1
	CHP and/or Cogeneration Process	--	0	*	3	0	0
	<b>Direct Uses-Total Process</b>	8	0	*	12	*	0
	Process Heating	1	0	0	11	0	0
	Process Cooling and Refrigeration	1	0	0	*	0	0
	Machine Drive	5	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	1	0	*	1	*	0
	<b>Direct Uses-Total Nonprocess</b>	4	0	*	6	*	0
	Facility HVAC (g)	2	0	0	5	*	0
	Facility Lighting	1	--	--	--	--	--
	Other Facility Support	*	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	*	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	0	0	0	0	0	0
<b>3364</b>	<b>Aerospace Products</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	34	1	1	30	*	*
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	14	*	*
	Conventional Boiler Use	*	*	*	7	*	*

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	CHP and/or Cogeneration Process	--	0	*	7	*	0
	<b>Direct Uses-Total Process</b>	15	*	*	5	*	0
	Process Heating	4	*	*	5	*	0
	Process Cooling and Refrigeration	2	*	*	*	0	0
	Machine Drive	8	0	*	*	*	0
	Electro-Chemical Processes	1	--	--	--	--	--
	Other Process Use	1	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	18	*	*	10	*	0
	Facility HVAC (g)	9	*	*	9	*	0
	Facility Lighting	7	--	--	--	--	--
	Other Facility Support	2	*	*	1	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	Q	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	1	1	0	*	*	0
<b>336411</b>	<b>Aircraft</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	9	*	*	10	*	0
	<b>Indirect Uses-Boiler Fuel</b>	*	*	*	5	*	0
	Conventional Boiler Use	*	*	*	3	*	0
	CHP and/or Cogeneration Process	--	0	0	2	0	0
	<b>Direct Uses-Total Process</b>	3	*	*	1	*	0
	Process Heating	1	*	*	1	*	0
	Process Cooling and Refrigeration	1	*	0	*	0	0
	Machine Drive	2	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	6	*	*	4	*	0
	Facility HVAC (g)	3	*	*	3	*	0
	Facility Lighting	2	--	--	--	--	--
	Other Facility Support	1	*	0	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	1	0	0	0	*	0
<b>337</b>	<b>FURNITURE AND RELATED PRODUCTS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	17	0	*	13	1	Q
	<b>Indirect Uses-Boiler Fuel</b>	*	0	0	1	0	*
	Conventional Boiler Use	*	0	0	*	0	*
	CHP and/or Cogeneration Process	--	0	0	1	0	0
	<b>Direct Uses-Total Process</b>	9	0	*	5	*	0
	Process Heating	1	0	*	5	*	0
	Process Cooling and Refrigeration	*	0	0	0	0	0
	Machine Drive	8	0	*	*	*	0
	Electro-Chemical Processes	*	--	--	--	--	--
	Other Process Use	*	0	0	*	0	0
	<b>Direct Uses-Total Nonprocess</b>	7	0	*	6	1	*

**Table 5.4 End Uses of Fuel Consumption, 2010;**

**Level: National Data;**  
**Row: End Uses within NAICS Codes;**  
**Column: Energy Sources, including Net Demand for Electricity;**  
**Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
	Facility HVAC (g)	3	0	*	6	*	*
	Facility Lighting	3	--	--	--	--	--
	Other Facility Support	1	0	0	*	*	0
	Onsite Transportation	*	--	*	*	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	0	*	0
	<b>End Use Not Reported</b>	1	0	*	*	*	0
<b>339</b>	<b>MISCELLANEOUS</b>						
	<b>TOTAL FUEL CONSUMPTION</b>	26	*	1	16	*	*
	<b>Indirect Uses-Boiler Fuel</b>	*	0	*	5	*	0
	Conventional Boiler Use	*	0	*	3	0	0
	CHP and/or Cogeneration Process	--	0	*	3	*	0
	<b>Direct Uses-Total Process</b>	14	0	*	5	*	0
	Process Heating	3	0	*	4	*	0
	Process Cooling and Refrigeration	1	0	0	*	0	0
	Machine Drive	8	0	*	*	*	0
	Electro-Chemical Processes	Q	--	--	--	--	--
	Other Process Use	1	0	*	*	*	0
	<b>Direct Uses-Total Nonprocess</b>	12	*	*	6	*	*
	Facility HVAC (g)	7	*	*	6	*	*
	Facility Lighting	4	--	--	--	--	--
	Other Facility Support	1	0	*	*	*	0
	Onsite Transportation	*	--	*	0	*	--
	Conventional Electricity Generation	--	0	*	0	0	0
	Other Nonprocess Use	*	0	*	*	*	0
	<b>End Use Not Reported</b>	1	0	0	*	*	0

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

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

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

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

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

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

NF=No applicable RSE row/column factor.

\* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

**Table 5.4 End Uses of Fuel Consumption, 2010;****Level: National Data;****Row: End Uses within NAICS Codes;****Column: Energy Sources, including Net Demand for Electricity;****Unit: Trillion Btu.**

NAICS Code(a)	End Use	Net Demand for Electricity(b)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(c)	Natural Gas(d)	LPG and NGL(e)	Coal (excluding Coal Coke and Breeze)
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Q=Withheld because Relative Standard Error is greater than 50 percent.

NA=Not available.

-- Estimation is not applicable.

S=Negative value.

Notes: 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: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2010 Manufacturing Energy Consumption Survey.'