Table 5.4 End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
		Total United States						
311 - 339	**ALL MANUFACTURING INDUSTRIES**							
	RSE Column Factors:	NF	1	2.4	1.1	1.3	1	
	TOTAL FUEL CONSUMPTION	3,297	208	141	5,794	103	1,182	3.3
	Indirect Uses-Boiler Fuel	23	127	25	2,162	8	776	5.5
	Conventional Boiler Use	11	76	25	1,306	8	255	5.6
	CHP and/or Cogeneration Process	12	51	10	857	*	521	3.7
	Direct Uses-Total Process	2,624	60	43	2,956	64	381	2.9
	Process Heating	355	58	24	2,742	60	368	3.2
	Process Cooling and Refrigeration	213	*	2	45	*	*	3.7
	Machine Drive	1,746	2	16	109	4	5	4.8
	Electro-Chemical Processes	295	--	--	--	--	--	1
	Other Process Use	15	*	1	60	*	7	5.3
	Direct Uses-Total Nonprocess	551	4	50	513	24	19	4.6
	Facility HVAC (g)	280	3	5	417	5	5	6.6
	Facility Lighting	212	--	--	--	--	--	1.1
	Other Facility Support	51	*	1	30	*	*	9.7
	Onsite Transportation	4	--	35	2	18	--	3.1
	Conventional Electricity Generation	--	1	Q	55	*	14	1.7
	Other Nonprocess Use	4	*	Q	10	*	0	8.8
	End Use Not Reported	112	17	12	162	6	6	8.7
311	**FOOD**							
	RSE Column Factors:	NF	1.5	2.5	1.2	2.6	0.4	
	TOTAL FUEL CONSUMPTION	250	13	19	575	5	184	9.7
	Indirect Uses-Boiler Fuel	3	9	6	275	W	176	12
	Conventional Boiler Use	Q	8	6	237	W	72	12.7
	CHP and/or Cogeneration Process	1	2	1	38	0	104	5.5
	Direct Uses-Total Process	195	4	6	230	W	W	7.9
	Process Heating	8	4	1	205	W	W	8.8
	Process Cooling and Refrigeration	62	0	2	Q	*	0	8.9
	Machine Drive	124	0	3	13	*	0	11
	Electro-Chemical Processes	*	--	--	--	--	--	1.1
	Other Process Use	1	*	*	4	0	0	13
	Direct Uses-Total Nonprocess	37	*	5	W	1	*	10.4

Table 5.4 End Uses of Fuel Consumption, 2002;
       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)	RSE Row Factors
	Facility HVAC (g)	17	*	*	37	1	*	11.3
	Facility Lighting	16	--	--	--	--	--	1.3
	Other Facility Support	3	*	*	W	*	0	12.9
	Onsite Transportation	1	--	3	*	1	--	4.9
	Conventional Electricity Generation	--	0	Q	Q	0	0	2.1
	Other Nonprocess Use	*	*	*	*	0	0	12.1
	End Use Not Reported	15	*	1	W	W	W	14.1
311221	**Wet Corn Milling**							
	RSE Column Factors:	NF	0.9	1.2	1.5	0.8	0.9	
	TOTAL FUEL CONSUMPTION	33	*	*	61	*	121	1.3
	Indirect Uses-Boiler Fuel	1	*	*	32	0	121	1.3
	Conventional Boiler Use	*	*	*	22	0	62	1
	CHP and/or Cogeneration Process	*	0	*	10	0	59	1.6
	Direct Uses-Total Process	31	0	*	28	*	0	1.5
	Process Heating	1	0	0	28	*	0	1
	Process Cooling and Refrigeration	*	0	0	*	0	0	1.1
	Machine Drive	30	0	*	*	*	0	1.8
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	*	0	0	0	1
	Direct Uses-Total Nonprocess	1	*	*	1	*	0	1
	Facility HVAC (g)	*	*	*	1	*	0	1.1
	Facility Lighting	1	--	--	--	--	--	1
	Other Facility Support	*	*	0	*	0	0	0.9
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	*	0	0	0	1.9
	Other Nonprocess Use	0	0	*	0	0	0	1
	End Use Not Reported	*	0	*	0	*	0	2.3
31131	**Sugar**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	6	2	1	22	*	37	1
	Indirect Uses-Boiler Fuel	*	2	1	17	0	29	1
	Conventional Boiler Use	*	*	0	3	0	4	1
	CHP and/or Cogeneration Process	*	2	1	13	0	26	1
	Direct Uses-Total Process	5	*	*	4	*	W	1

Table 5.4 End Uses of Fuel Consumption, 2002;
    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)	RSE Row Factors
	Process Heating	*	*	*	4	*	W	1
	Process Cooling and Refrigeration	*	0	0	0	0	0	1
	Machine Drive	5	0	*	*	*	0	1
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	0	0	0	0	0	0	1
	Direct Uses-Total Nonprocess	1	0	*	*	*	*	1
	Facility HVAC (g)	*	0	0	*	*	*	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	*	*	*	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	*	0	*	0	0	0	1
	End Use Not Reported	*	*	*	1	*	W	1
311421	**Fruit and Vegetable Canning**							
	RSE Column Factors:	NF	1	0.9	1.2	2.1	0.6	
	TOTAL FUEL CONSUMPTION	8	1	1	36	Q	0	18
	Indirect Uses-Boiler Fuel	*	Q	Q	26	*	0	6.3
	Conventional Boiler Use	*	Q	Q	W	*	0	6.7
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1.6
	Direct Uses-Total Process	6	*	*	W	*	0	8.5
	Process Heating	*	*	*	W	*	0	4.7
	Process Cooling and Refrigeration	2	0	*	*	0	0	3
	Machine Drive	4	0	*	*	*	0	4.9
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	*	0	0	0	1.2
	Direct Uses-Total Nonprocess	2	*	*	W	*	0	5.5
	Facility HVAC (g)	1	0	0	W	*	0	4.1
	Facility Lighting	1	--	--	--	--	--	1.5
	Other Facility Support	*	*	*	*	*	0	4
	Onsite Transportation	*	--	*	0	*	--	3
	Conventional Electricity Generation	--	0	*	*	0	0	1.1
	Other Nonprocess Use	0	0	*	*	0	0	5.2
	End Use Not Reported	*	0	*	1	*	0	20.6
312	**BEVERAGE AND TOBACCO PRODUCTS**							
	RSE Column Factors:	NF	0.6	1.1	1.7	2.1	0.5	

Table 5.4 End Uses of Fuel Consumption, 2002;
      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)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	29	2	1	46	1	17	5.8
	Indirect Uses-Boiler Fuel	*	W	*	31	*	17	3.4
	Conventional Boiler Use	*	W	*	29	*	5	4.8
	CHP and/or Cogeneration Process	*	*	*	2	*	12	1
	Direct Uses-Total Process	21	*	*	8	*	*	2.3
	Process Heating	1	*	*	7	*	*	2.6
	Process Cooling and Refrigeration	8	*	*	*	*	*	3
	Machine Drive	12	*	*	*	*	*	4.2
	Electro-Chemical Processes	*	--	--	--	--	--	1.7
	Other Process Use	*	0	*	*	*	0	2.1
	Direct Uses-Total Nonprocess	7	W	Q	5	1	*	3
	Facility HVAC (g)	3	W	*	4	*	*	3.2
	Facility Lighting	2	--	--	--	--	--	1.3
	Other Facility Support	1	0	*	*	*	*	3.1
	Onsite Transportation	*	--	Q	0	1	--	3.6
	Conventional Electricity Generation	--	0	*	0	*	*	1.4
	Other Nonprocess Use	*	0	*	*	*	0	4.3
	End Use Not Reported	1	0	*	2	*	0	11.6
3121	**Beverages**							
	RSE Column Factors:	NF	0.5	1.4	1.5	1.7	0.6	
	TOTAL FUEL CONSUMPTION	23	1	Q	42	1	8	8.2
	Indirect Uses-Boiler Fuel	*	W	*	29	*	8	5.5
	Conventional Boiler Use	*	W	*	26	*	2	6.5
	CHP and/or Cogeneration Process	0	*	*	2	0	6	1.4
	Direct Uses-Total Process	18	*	*	7	*	0	2.8
	Process Heating	*	*	*	6	*	0	4
	Process Cooling and Refrigeration	8	*	*	*	*	0	3.4
	Machine Drive	9	*	*	*	*	0	3.8
	Electro-Chemical Processes	*	--	--	--	--	--	1.7
	Other Process Use	*	0	*	*	*	0	2.7
	Direct Uses-Total Nonprocess	4	W	Q	4	1	0	4
	Facility HVAC (g)	2	W	*	4	*	0	5.4
	Facility Lighting	2	--	--	--	--	--	1.3
	Other Facility Support	*	0	*	*	*	0	3.4
	Onsite Transportation	*	--	Q	0	1	--	3.8
	Conventional Electricity Generation	--	0	*	0	0	0	3.5

Table 5.4   End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	Other Nonprocess Use	*	0	*	*	*	0	4.6
	End Use Not Reported	1	*	*	2	*	0	12.5
3122	**Tobacco**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	6	1	*	4	*	10	1
	Indirect Uses-Boiler Fuel	*	1	*	2	*	10	1
	Conventional Boiler Use	*	*	*	2	*	2	1
	CHP and/or Cogeneration Process	*	0	0	0	*	7	1
	Direct Uses-Total Process	3	*	*	1	*	*	1
	Process Heating	*	*	*	1	*	*	1
	Process Cooling and Refrigeration	1	0	0	*	0	*	1
	Machine Drive	3	0	*	*	*	*	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	*	0	*	*	*	0	1
	Direct Uses-Total Nonprocess	2	*	*	*	*	*	1
	Facility HVAC (g)	1	*	*	*	*	*	1
	Facility Lighting	1	--	--	--	--	--	1
	Other Facility Support	*	0	*	*	0	*	1
	Onsite Transportation	*	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	*	*	1
	Other Nonprocess Use	0	0	*	0	0	0	1
	End Use Not Reported	*	0	*	*	0	0	1
313	**TEXTILE MILLS**							
	RSE Column Factors:	NF	0.8	1.5	1.1	2.5	0.6	
	TOTAL FUEL CONSUMPTION	87	4	2	74	2	22	17.7
	Indirect Uses-Boiler Fuel	*	W	1	37	W	21	18.4
	Conventional Boiler Use	*	W	1	W	W	14	19.4
	CHP and/or Cogeneration Process	0	0	0	W	0	7	5.4
	Direct Uses-Total Process	65	0	Q	26	W	1	5.9
	Process Heating	8	0	Q	23	W	1	6.2
	Process Cooling and Refrigeration	7	0	0	0	0	0	6.4
	Machine Drive	49	0	0	3	W	0	9.8
	Electro-Chemical Processes	*	--	--	--	--	--	1.6
	Other Process Use	*	0	*	*	0	0	2.5

Table 5.4 End Uses of Fuel Consumption, 2002;
  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)	RSE Row Factors
	Direct Uses-Total Nonprocess	21	*	*	W	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	*	--	*	*	W	--	3.3
	Conventional Electricity Generation	--	0	*	1	*	*	1.2
	Other Nonprocess Use	*	0	0	*	0	0	4.6
	End Use Not Reported	*	W	*	W	W	0	26.9
314	**TEXTILE PRODUCT MILLS**							
	RSE Column Factors:	NF	0.7	0.5	2.1	2.3	0.6	
	TOTAL FUEL CONSUMPTION	17	2	Q	29	1	Q	17.6
	Indirect Uses-Boiler Fuel	*	W	Q	10	*	W	12.1
	Conventional Boiler Use	*	W	Q	10	*	W	12.1
	CHP and/or Cogeneration Process	0	0	*	*	0	0	1.4
	Direct Uses-Total Process	11	W	*	13	*	0	2.9
	Process Heating	1	W	*	13	*	0	3.3
	Process Cooling and Refrigeration	1	0	0	*	0	0	4
	Machine Drive	9	0	0	*	0	0	3.2
	Electro-Chemical Processes	*	--	--	--	--	--	1.4
	Other Process Use	*	0	0	*	0	0	6.6
	Direct Uses-Total Nonprocess	4	*	*	4	*	Q	4.3
	Facility HVAC (g)	W	*	*	W	*	Q	3.1
	Facility Lighting	W	--	--	--	--	--	1.4
	Other Facility Support	*	*	*	W	0	0	3.8
	Onsite Transportation	*	--	*	*	*	--	3.7
	Conventional Electricity Generation	--	0	*	*	0	0	1.6
	Other Nonprocess Use	*	0	*	*	*	0	2.8
	End Use Not Reported	1	W	0	1	*	0	31.1
315	**APPAREL**							
	RSE Column Factors:	NF	1.4	1	1.7	1.4	0.6	
	TOTAL FUEL CONSUMPTION	12	*	1	16	*	0	23.5
	Indirect Uses-Boiler Fuel	*	*	W	4	*	0	12.6
	Conventional Boiler Use	*	*	W	4	*	0	12.8
	CHP and/or Cogeneration Process	0	0	0	*	0	0	4.6

Table 5.4   End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	Direct Uses-Total Process	5	*	Q	5	*	0	9.4
	Process Heating	*	*	*	2	*	0	8.9
	Process Cooling and Refrigeration	*	0	*	*	0	0	7.8
	Machine Drive	4	0	*	W	*	0	6
	Electro-Chemical Processes	*	--	--	--	--	--	1.2
	Other Process Use	0	0	0	W	0	0	4.6
	Direct Uses-Total Nonprocess	5	*	*	5	*	0	10.6
	Facility HVAC (g)	3	*	*	2	*	0	8.5
	Facility Lighting	2	--	--	--	--	--	1.5
	Other Facility Support	*	0	*	2	0	0	9.1
	Onsite Transportation	*	--	*	0	*	--	3
	Conventional Electricity Generation	--	0	*	0	0	0	1.4
	Other Nonprocess Use	0	0	*	0	0	0	4.6
	End Use Not Reported	2	0	W	3	*	0	46.1
316	**LEATHER AND ALLIED PRODUCTS**							
	RSE Column Factors:	NF	0.2	1.9	2.1	2.7	0.6	
	TOTAL FUEL CONSUMPTION	2	*	*	4	*	0	8.7
	Indirect Uses-Boiler Fuel	*	*	*	3	*	0	3.6
	Conventional Boiler Use	*	*	*	3	*	0	3.6
	CHP and/or Cogeneration Process	0	0	0	0	0	0	3.3
	Direct Uses-Total Process	2	*	*	*	*	0	7.5
	Process Heating	*	*	*	*	*	0	6.4
	Process Cooling and Refrigeration	1	0	0	0	0	0	8.8
	Machine Drive	1	0	*	0	*	0	8.7
	Electro-Chemical Processes	0	--	--	--	--	--	1.1
	Other Process Use	0	0	0	0	0	0	3.3
	Direct Uses-Total Nonprocess	1	*	*	1	*	0	6.4
	Facility HVAC (g)	*	*	*	1	*	0	7.8
	Facility Lighting	*	--	--	--	--	--	1.4
	Other Facility Support	*	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
	End Use Not Reported	*	0	*	*	*	0	23.2
321	**WOOD PRODUCTS**							

Table 5.4 End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	RSE Column Factors:	NF	1	2	1.5	1.5	0.3	
	TOTAL FUEL CONSUMPTION	77	1	10	57	5	1	4.8
	Indirect Uses-Boiler Fuel	*	1	1	15	*	1	5.8
	Conventional Boiler Use	*	1	1	15	*	1	5.8
	CHP and/or Cogeneration Process	*	0	*	*	0	*	1.4
	Direct Uses-Total Process	59	*	2	30	W	0	3.1
	Process Heating	4	*	*	28	W	0	3.1
	Process Cooling and Refrigeration	*	0	*	*	0	0	3.4
	Machine Drive	54	0	2	1	*	0	7.6
	Electro-Chemical Processes	*	--	--	--	--	--	1.7
	Other Process Use	*	0	*	1	*	0	5.1
	Direct Uses-Total Nonprocess	12	0	5	8	2	0	3.9
	Facility HVAC (g)	5	0	*	7	*	0	7.7
	Facility Lighting	5	--	--	--	--	--	1.3
	Other Facility Support	W	0	*	*	*	0	8
	Onsite Transportation	W	--	5	*	2	--	3.4
	Conventional Electricity Generation	--	0	*	*	*	0	2.1
	Other Nonprocess Use	*	0	*	1	*	0	1.9
	End Use Not Reported	6	*	2	4	W	0	14.9
321113	**Sawmills**							
	RSE Column Factors:	NF	0.3	1.9	2.8	3	0.5	
	TOTAL FUEL CONSUMPTION	23	*	5	10	1	0	5.3
	Indirect Uses-Boiler Fuel	*	*	*	W	0	0	7
	Conventional Boiler Use	*	*	*	W	0	0	7
	CHP and/or Cogeneration Process	*	0	*	*	0	0	1.6
	Direct Uses-Total Process	19	*	1	W	*	0	4.2
	Process Heating	1	*	*	W	*	0	4.7
	Process Cooling and Refrigeration	*	0	*	*	0	0	2.4
	Machine Drive	17	0	1	*	*	0	7
	Electro-Chemical Processes	*	--	--	--	--	--	1.7
	Other Process Use	*	0	*	0	0	0	3.1
	Direct Uses-Total Nonprocess	3	0	3	*	*	0	4.4
	Facility HVAC (g)	W	0	*	*	*	0	6.6
	Facility Lighting	W	--	--	--	--	--	1.2
	Other Facility Support	*	0	*	*	*	0	4.2
	Onsite Transportation	*	--	2	0	*	--	3.7

Table 5.4   End Uses of Fuel Consumption, 2002;
　　　　　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)	RSE Row Factors
	Conventional Electricity Generation	--	0	*	0	0	0	3.5
	Other Nonprocess Use	*	0	*	0	0	0	1.3
	End Use Not Reported	2	0	1	*	*	0	14
3212	**Veneer, Plywood, and Engineered Woods**							
	RSE Column Factors:	NF	2.1	2	1	1.2	0.4	
	TOTAL FUEL CONSUMPTION	34	1	2	33	3	1	5.7
	Indirect Uses-Boiler Fuel	*	1	*	W	*	1	3.1
	Conventional Boiler Use	*	1	*	W	*	1	3.1
	CHP and/or Cogeneration Process	*	0	0	*	0	*	1.5
	Direct Uses-Total Process	27	0	*	21	W	0	5.2
	Process Heating	2	0	*	19	W	0	5.8
	Process Cooling and Refrigeration	*	0	0	0	0	0	5
	Machine Drive	25	0	*	Q	*	0	6.9
	Electro-Chemical Processes	0	--	--	--	--	--	1.1
	Other Process Use	*	0	*	1	*	0	6.3
	Direct Uses-Total Nonprocess	5	0	1	4	1	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	*	--	1	*	1	--	2.5
	Conventional Electricity Generation	--	0	*	0	0	0	3.3
	Other Nonprocess Use	*	0	*	1	*	0	2.5
	End Use Not Reported	1	*	*	W	W	0	11.6
3219	**Other Wood Products**							
	RSE Column Factors:	NF	0.5	2.4	1.4	2.1	0.5	
	TOTAL FUEL CONSUMPTION	19	*	2	11	1	0	7.3
	Indirect Uses-Boiler Fuel	*	*	*	2	*	0	9.6
	Conventional Boiler Use	*	*	*	2	*	0	9.7
	CHP and/or Cogeneration Process	0	0	0	*	0	0	1.5
	Direct Uses-Total Process	12	0	1	4	*	0	7.3
	Process Heating	1	0	*	4	*	0	7
	Process Cooling and Refrigeration	*	0	0	0	0	0	4.1
	Machine Drive	11	0	1	*	*	0	9.7
	Electro-Chemical Processes	0	--	--	--	--	--	1.1

Table 5.4 End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	Other Process Use	0	0	*	*	0	0	1.5
	Direct Uses-Total Nonprocess	4	0	1	4	1	0	6.5
	Facility HVAC (g)	2	0	*	4	*	0	7.7
	Facility Lighting	2	--	--	--	--	--	1.3
	Other Facility Support	*	0	*	*	*	0	4.8
	Onsite Transportation	*	--	1	*	1	--	5
	Conventional Electricity Generation	--	0	*	*	*	0	1.9
	Other Nonprocess Use	*	0	*	0	0	0	1.2
	End Use Not Reported	2	*	*	1	*	0	18.4
322	**PAPER**							
	RSE Column Factors:	NF	0.8	1.1	1.3	2.5	0.5	
	TOTAL FUEL CONSUMPTION	400	100	13	504	6	234	2.5
	Indirect Uses-Boiler Fuel	11	69	9	306	*	214	3
	Conventional Boiler Use	2	29	2	143	*	38	3.9
	CHP and/or Cogeneration Process	9	40	7	162	0	176	1.7
	Direct Uses-Total Process	341	27	2	154	1	W	3.4
	Process Heating	10	25	2	130	1	W	3.8
	Process Cooling and Refrigeration	6	*	*	3	0	*	2
	Machine Drive	317	2	*	19	*	5	4.3
	Electro-Chemical Processes	7	--	--	--	--	--	1.5
	Other Process Use	2	*	*	2	*	W	2.6
	Direct Uses-Total Nonprocess	35	1	2	29	3	W	3.9
	Facility HVAC (g)	16	*	*	19	*	W	5.1
	Facility Lighting	15	--	--	--	--	--	1.2
	Other Facility Support	3	*	*	*	*	0	2.3
	Onsite Transportation	*	--	2	*	2	--	3.7
	Conventional Electricity Generation	--	1	*	9	*	4	1
	Other Nonprocess Use	1	*	*	Q	*	0	3.3
	End Use Not Reported	13	3	*	15	Q	W	10.8
322110	**Pulp Mills**							
	RSE Column Factors:	NF	1.1	0.9	0.9	1	1	
	TOTAL FUEL CONSUMPTION	W	W	5	24	*	W	1
	Indirect Uses-Boiler Fuel	4	W	5	14	*	W	1.1
	Conventional Boiler Use	2	W	*	5	*	0	1.3

Table 5.4   End Uses of Fuel Consumption, 2002;
    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)	RSE Row Factors
	CHP and/or Cogeneration Process	3	6	5	9	0	W	1
	Direct Uses-Total Process	18	3	*	10	*	W	1
	Process Heating	1	3	*	9	*	W	1
	Process Cooling and Refrigeration	*	*	*	0	0	0	1
	Machine Drive	16	*	*	*	0	*	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	1	*	*	*	0	W	1
	Direct Uses-Total Nonprocess	1	*	*	*	*	*	1.2
	Facility HVAC (g)	1	*	*	*	*	*	1
	Facility Lighting	1	--	--	--	--	--	1.1
	Other Facility Support	*	*	*	0	*	0	1
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	*	0	0	0	0	1
	End Use Not Reported	W	0	0	0	*	0	1
322121	**Paper Mills, except Newsprint**							
	RSE Column Factors:	NF	1.8	1.4	1	1.4	0.6	
	TOTAL FUEL CONSUMPTION	163	47	4	206	1	139	2.3
	Indirect Uses-Boiler Fuel	3	31	1	127	*	130	3
	Conventional Boiler Use	*	11	*	56	*	23	3.1
	CHP and/or Cogeneration Process	3	21	1	71	0	107	1.3
	Direct Uses-Total Process	143	14	1	71	1	W	3.2
	Process Heating	5	14	1	57	*	W	3.4
	Process Cooling and Refrigeration	2	0	*	3	0	*	1.8
	Machine Drive	135	*	*	10	*	W	1.5
	Electro-Chemical Processes	1	--	--	--	--	--	1
	Other Process Use	*	*	*	1	*	0	4.4
	Direct Uses-Total Nonprocess	13	1	1	6	1	W	2.2
	Facility HVAC (g)	6	*	*	5	*	W	5
	Facility Lighting	5	--	--	--	--	--	1.1
	Other Facility Support	1	0	*	*	0	0	1.9
	Onsite Transportation	*	--	1	0	1	--	1.2
	Conventional Electricity Generation	--	*	*	1	*	1	1
	Other Nonprocess Use	1	0	*	*	0	0	2.9
	End Use Not Reported	4	1	*	2	*	W	12.4
322122	**Newsprint Mills**							

Table 5.4   End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	41	W	*	16	*	W	1
	Indirect Uses-Boiler Fuel	*	W	*	10	*	W	1
	Conventional Boiler Use	0	W	*	3	*	W	1
	CHP and/or Cogeneration Process	*	0	0	7	0	W	1
	Direct Uses-Total Process	39	0	*	W	0	W	1
	Process Heating	*	0	0	W	0	0	1
	Process Cooling and Refrigeration	*	0	0	0	0	0	1
	Machine Drive	36	0	*	0	0	0	1
	Electro-Chemical Processes	2	--	--	--	--	--	1
	Other Process Use	*	0	0	*	0	W	1
	Direct Uses-Total Nonprocess	2	0	*	*	*	W	1
	Facility HVAC (g)	1	0	0	*	0	W	1
	Facility Lighting	1	--	--	--	--	--	1
	Other Facility Support	*	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
	End Use Not Reported	1	0	*	W	*	W	1
322130	**Paperboard Mills**							
	RSE Column Factors:	NF	1.1	1	1	0.9	0.8	
	TOTAL FUEL CONSUMPTION	125	34	4	188	*	83	2.5
	Indirect Uses-Boiler Fuel	4	22	1	129	*	76	2.5
	Conventional Boiler Use	*	8	1	54	*	W	3.5
	CHP and/or Cogeneration Process	3	14	1	75	0	W	1.5
	Direct Uses-Total Process	109	10	*	44	*	W	2.7
	Process Heating	2	8	*	37	*	W	1.6
	Process Cooling and Refrigeration	1	0	0	0	0	0	1.2
	Machine Drive	102	2	*	8	*	W	3.1
	Electro-Chemical Processes	3	--	--	--	--	--	1
	Other Process Use	*	0	*	*	*	0	2.2
	Direct Uses-Total Nonprocess	8	*	1	10	*	3	1.8
	Facility HVAC (g)	4	*	0	2	*	*	2.9
	Facility Lighting	4	--	--	--	--	--	1.3
	Other Facility Support	1	*	*	*	*	0	1.3

Table 5.4 End Uses of Fuel Consumption, 2002;
  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)	RSE Row Factors
	Onsite Transportation	*	--	1	0	*	--	2.8
	Conventional Electricity Generation	--	0	*	8	0	3	1
	Other Nonprocess Use	*	0	*	0	0	0	0.9
	End Use Not Reported	4	2	*	5	*	W	4.4
323	**PRINTING AND RELATED SUPPORT**							
	RSE Column Factors:	NF	0.5	2.2	1.6	1.7	0.5	
	TOTAL FUEL CONSUMPTION	50	*	*	46	1	0	7.8
	Indirect Uses-Boiler Fuel	*	0	*	W	*	0	7.5
	Conventional Boiler Use	*	0	*	6	*	0	7.8
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1.5
	Direct Uses-Total Process	28	*	*	20	*	0	4.8
	Process Heating	1	*	0	19	*	0	6.7
	Process Cooling and Refrigeration	2	0	0	*	0	0	4.6
	Machine Drive	25	0	*	1	*	0	5.2
	Electro-Chemical Processes	*	--	--	--	--	--	1.6
	Other Process Use	*	0	*	*	*	0	8.1
	Direct Uses-Total Nonprocess	16	*	*	16	1	0	7.7
	Facility HVAC (g)	9	*	*	15	*	0	5.3
	Facility Lighting	6	--	--	--	--	--	1.3
	Other Facility Support	1	0	*	1	*	0	4.4
	Onsite Transportation	*	--	*	*	*	--	4.3
	Conventional Electricity Generation	--	0	*	0	0	0	0.9
	Other Nonprocess Use	*	0	*	*	0	0	7.2
	End Use Not Reported	6	0	*	W	*	0	18.6
324	**PETROLEUM AND COAL PRODUCTS**							
	RSE Column Factors:	NF	1.1	2	1.2	1.3	0.7	
	TOTAL FUEL CONSUMPTION	187	25	16	878	24	13	4.6
	Indirect Uses-Boiler Fuel	1	11	2	289	5	5	4.6
	Conventional Boiler Use	1	6	2	154	5	2	6.1
	CHP and/or Cogeneration Process	1	5	1	135	*	3	1.5
	Direct Uses-Total Process	172	7	9	544	18	4	6.1
	Process Heating	11	7	7	526	18	4	6.3
	Process Cooling and Refrigeration	10	0	*	2	*	0	1.2
	Machine Drive	151	0	1	12	Q	0	5.3

Table 5.4   End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	Electro-Chemical Processes	*	--	--	--	--	--	1.2
	Other Process Use	*	0	*	4	*	0	4
	Direct Uses-Total Nonprocess	11	0	2	38	*	4	3.1
	Facility HVAC (g)	6	0	*	7	*	W	5.8
	Facility Lighting	5	--	--	--	--	--	1.2
	Other Facility Support	1	0	*	2	*	0	4
	Onsite Transportation	*	--	1	*	*	--	5.7
	Conventional Electricity Generation	--	0	*	29	*	W	1.3
	Other Nonprocess Use	*	0	*	*	*	0	3.6
	End Use Not Reported	2	7	Q	7	*	0	7.2
324110	**Petroleum Refineries**							
	RSE Column Factors:	NF	1.3	0.6	0.9	0.8	4.1	
	TOTAL FUEL CONSUMPTION	177	21	5	821	20	1	3.8
	Indirect Uses-Boiler Fuel	1	10	2	278	5	*	3.6
	Conventional Boiler Use	1	5	2	143	4	*	4.4
	CHP and/or Cogeneration Process	1	5	1	135	*	*	2.2
	Direct Uses-Total Process	165	4	1	506	15	1	4.4
	Process Heating	10	4	1	490	15	1	4.6
	Process Cooling and Refrigeration	10	0	*	2	*	0	1.8
	Machine Drive	145	0	*	11	*	0	7.4
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	0	3	*	0	2.2
	Direct Uses-Total Nonprocess	10	0	1	35	*	0	2
	Facility HVAC (g)	5	0	0	5	*	0	2.5
	Facility Lighting	4	--	--	--	--	--	1.2
	Other Facility Support	1	0	*	1	*	0	5.3
	Onsite Transportation	*	--	1	*	*	--	1.8
	Conventional Electricity Generation	--	0	*	29	*	0	1.9
	Other Nonprocess Use	0	0	*	*	0	0	1.7
	End Use Not Reported	1	7	*	2	0	0	4.1
324199	**Other Petroleum and Coal Products**							
	RSE Column Factors:	NF	0.8	2	0.9	0.8	0.8	
	TOTAL FUEL CONSUMPTION	2	*	*	5	*	11	1.6
	Indirect Uses-Boiler Fuel	*	*	0	1	0	W	1.1

Table 5.4   End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	Conventional Boiler Use	*	*	0	1	0	W	1.1
	CHP and/or Cogeneration Process	*	0	0	*	0	W	1.1
	Direct Uses-Total Process	2	*	*	4	*	W	1.2
	Process Heating	*	*	*	3	*	W	1
	Process Cooling and Refrigeration	*	0	*	0	0	0	0.8
	Machine Drive	1	0	*	*	*	0	1.4
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	0	*	0	0	1.1
	Direct Uses-Total Nonprocess	*	0	*	*	*	4	1.7
	Facility HVAC (g)	*	0	0	*	*	W	1.1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	0	*	*	0	1.1
	Onsite Transportation	0	--	*	0	*	--	1.9
	Conventional Electricity Generation	--	0	*	*	0	W	0.9
	Other Nonprocess Use	0	0	*	0	0	0	0.7
	End Use Not Reported	*	0	*	0	0	0	0.8
325	**CHEMICALS**							
	RSE Column Factors:	NF	0.6	3	0.8	1.1	2	
	TOTAL FUEL CONSUMPTION	696	41	14	1,678	37	314	5.7
	Indirect Uses-Boiler Fuel	4	19	W	927	W	300	6.3
	Conventional Boiler Use	3	W	W	451	W	88	4.7
	CHP and/or Cogeneration Process	1	W	1	476	*	212	3.5
	Direct Uses-Total Process	603	16	3	684	W	10	5.6
	Process Heating	23	16	2	588	W	W	6
	Process Cooling and Refrigeration	59	0	*	25	*	0	3.1
	Machine Drive	399	*	1	43	W	0	4.7
	Electro-Chemical Processes	121	--	--	--	--	--	1
	Other Process Use	1	*	*	28	*	W	7.4
	Direct Uses-Total Nonprocess	78	W	W	47	W	W	7.8
	Facility HVAC (g)	40	W	1	33	W	W	7.8
	Facility Lighting	30	--	--	--	--	--	1.2
	Other Facility Support	W	*	*	3	*	*	5.5
	Onsite Transportation	W	--	W	1	W	--	3.8
	Conventional Electricity Generation	--	0	*	7	*	0	2
	Other Nonprocess Use	*	*	*	3	*	0	4.6
	End Use Not Reported	12	W	W	20	W	W	12.8

Table 5.4   End Uses of Fuel Consumption, 2002;
　　　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)	RSE Row Factors
325110	**Petrochemicals**							
	RSE Column Factors:	NF	1	1.3	0.9	0.9	1	
	TOTAL FUEL CONSUMPTION	31	W	*	172	W	W	1.1
	Indirect Uses-Boiler Fuel	1	W	*	55	W	W	1
	Conventional Boiler Use	1	W	*	36	W	0	1
	CHP and/or Cogeneration Process	0	0	0	19	*	W	1.1
	Direct Uses-Total Process	25	0	*	110	W	0	1
	Process Heating	1	0	0	W	W	0	1.1
	Process Cooling and Refrigeration	3	0	0	1	0	0	1.1
	Machine Drive	20	0	*	W	*	0	1
	Electro-Chemical Processes	1	--	--	--	--	--	1
	Other Process Use	*	0	0	*	0	0	1.1
	Direct Uses-Total Nonprocess	4	0	*	5	W	0	1.9
	Facility HVAC (g)	1	0	*	W	W	0	1.1
	Facility Lighting	2	--	--	--	--	--	1
	Other Facility Support	*	0	0	1	0	0	1.1
	Onsite Transportation	*	--	*	1	0	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1.1
	Other Nonprocess Use	0	0	*	W	0	0	0.9
	End Use Not Reported	2	0	*	2	0	0	1
325120	**Industrial Gases**							
	RSE Column Factors:	NF	0.7	0.5	2	0.8	0.7	
	TOTAL FUEL CONSUMPTION	85	0	*	52	*	0	5.8
	Indirect Uses-Boiler Fuel	0	0	*	45	*	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
	Direct Uses-Total Process	80	0	*	W	*	0	1.6
	Process Heating	1	0	*	7	*	0	1.6
	Process Cooling and Refrigeration	8	0	*	*	*	0	1.8
	Machine Drive	71	0	*	W	*	0	2.2
	Electro-Chemical Processes	*	--	--	--	--	--	1.7
	Other Process Use	0	0	0	*	0	0	0.9
	Direct Uses-Total Nonprocess	3	0	*	*	*	0	4.2
	Facility HVAC (g)	2	0	*	*	*	0	2.4
	Facility Lighting	1	--	--	--	--	--	1.3

Table 5.4   End Uses of Fuel Consumption, 2002;
      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)	RSE Row Factors
	Other Facility Support	*	0	*	*	*	0	2.8
	Onsite Transportation	0	--	*	0	*	--	1.6
	Conventional Electricity Generation	--	0	*	*	0	0	0.8
	Other Nonprocess Use	0	0	0	0	0	0	1.5
	End Use Not Reported	1	0	*	*	0	0	4.1
325181	**Alkalies and Chlorine**							
	RSE Column Factors:	NF	1	0.9	1	0.9	1.3	
	TOTAL FUEL CONSUMPTION	64	*	*	94	*	20	1.6
	Indirect Uses-Boiler Fuel	*	*	*	79	0	18	1
	Conventional Boiler Use	*	*	*	W	0	W	1
	CHP and/or Cogeneration Process	0	0	0	W	0	W	0.9
	Direct Uses-Total Process	62	*	*	W	*	Q	1.2
	Process Heating	*	*	*	W	0	Q	1.2
	Process Cooling and Refrigeration	2	0	0	0	0	0	1
	Machine Drive	8	0	*	0	*	0	1.3
	Electro-Chemical Processes	52	--	--	--	--	--	1
	Other Process Use	0	0	0	1	0	0	1
	Direct Uses-Total Nonprocess	2	0	*	W	*	0	1
	Facility HVAC (g)	1	0	0	W	*	0	1
	Facility Lighting	1	--	--	--	--	--	1.1
	Other Facility Support	*	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
	End Use Not Reported	*	0	0	W	0	0	1
325182	**Carbon Black**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	2	11	*	10	*	0	1
	Indirect Uses-Boiler Fuel	*	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
	Direct Uses-Total Process	2	W	*	7	*	0	1
	Process Heating	*	W	0	7	0	0	1
	Process Cooling and Refrigeration	*	0	0	*	0	0	1

Table 5.4   End Uses of Fuel Consumption, 2002;
     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)	RSE Row Factors
	Machine Drive	2	0	*	*	*	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	*	0	*	*	*	0	1
	Facility HVAC (g)	*	0	0	*	0	0	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	0	*	*	0	1
	Onsite Transportation	*	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	W	0	0	*	0	1
325188	**Other Basic Inorganic Chemicals**							
	RSE Column Factors:	NF	0.6	0.7	3	2.6	0.5	
	TOTAL FUEL CONSUMPTION	91	2	2	68	*	19	3.2
	Indirect Uses-Boiler Fuel	*	*	*	20	*	W	2.9
	Conventional Boiler Use	*	*	*	17	*	W	2.7
	CHP and/or Cogeneration Process	*	0	*	3	0	W	2.6
	Direct Uses-Total Process	82	2	*	40	*	1	1.7
	Process Heating	2	2	*	39	*	W	2
	Process Cooling and Refrigeration	2	0	0	*	*	0	5.7
	Machine Drive	63	0	*	Q	*	0	2.8
	Electro-Chemical Processes	14	--	--	--	--	--	1
	Other Process Use	*	0	*	1	*	W	1.9
	Direct Uses-Total Nonprocess	7	*	W	3	*	W	2.4
	Facility HVAC (g)	4	0	*	2	*	W	3.2
	Facility Lighting	3	--	--	--	--	--	1.2
	Other Facility Support	*	0	0	*	*	0	2.2
	Onsite Transportation	*	--	W	0	*	--	1.8
	Conventional Electricity Generation	--	0	*	*	0	0	1.2
	Other Nonprocess Use	*	*	0	*	*	0	4
	End Use Not Reported	2	*	W	6	*	1	4.5
325192	**Cyclic Crudes and Intermediates**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	W	*	*	37	*	0	1

Table 5.4 End Uses of Fuel Consumption, 2002;
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)	RSE Row Factors
	Indirect Uses-Boiler Fuel	*	*	*	26	0	0	1
	Conventional Boiler Use	*	*	*	W	0	0	1
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1
	Direct Uses-Total Process	11	*	*	W	*	0	1
	Process Heating	1	*	0	W	*	0	1
	Process Cooling and Refrigeration	2	0	0	0	*	0	1
	Machine Drive	7	0	*	0	0	0	1
	Electro-Chemical Processes	1	--	--	--	--	--	1
	Other Process Use	*	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	W	0	*	W	*	0	1
	Facility HVAC (g)	W	0	0	W	0	0	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	0	*	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	*	*	*	0	1
325193	**Ethyl Alcohol**							
	RSE Column Factors:	NF	0.9	0.6	1	0.6	1.7	
	TOTAL FUEL CONSUMPTION	6	0	*	30	*	19	4.2
	Indirect Uses-Boiler Fuel	*	0	*	18	*	18	1.6
	Conventional Boiler Use	*	0	*	18	*	11	1.7
	CHP and/or Cogeneration Process	0	0	*	1	0	6	1
	Direct Uses-Total Process	6	0	*	10	*	1	2.1
	Process Heating	*	0	0	10	*	1	1.4
	Process Cooling and Refrigeration	*	0	0	0	*	0	1
	Machine Drive	5	0	*	0	0	0	2.4
	Electro-Chemical Processes	0	--	--	--	--	--	1.1
	Other Process Use	0	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	*	0	*	1	*	0	1.3
	Facility HVAC (g)	*	0	0	1	*	0	1
	Facility Lighting	*	--	--	--	--	--	1.3
	Other Facility Support	*	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
	End Use Not Reported	0	0	0	1	*	0	3.8

Table 5.4 End Uses of Fuel Consumption, 2002;
  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)	RSE Row Factors
325199	**Other Basic Organic Chemicals**							
	RSE Column Factors:	NF	0.6	1.9	1	1.5	0.7	
	TOTAL FUEL CONSUMPTION	121	W	2	425	W	W	14.7
	Indirect Uses-Boiler Fuel	*	7	W	235	W	W	8.6
	Conventional Boiler Use	*	7	W	123	W	W	8.3
	CHP and/or Cogeneration Process	*	0	*	111	0	W	1.9
	Direct Uses-Total Process	107	W	*	180	W	0	6.1
	Process Heating	7	W	*	134	W	0	6.7
	Process Cooling and Refrigeration	13	0	*	21	*	0	1.9
	Machine Drive	68	0	*	6	*	0	4.5
	Electro-Chemical Processes	19	--	--	--	--	--	1.2
	Other Process Use	*	0	*	18	*	0	5.4
	Direct Uses-Total Nonprocess	13	W	*	10	W	0	6.9
	Facility HVAC (g)	6	W	*	6	*	0	4.7
	Facility Lighting	5	--	--	--	--	--	1.5
	Other Facility Support	1	0	*	1	*	0	2.1
	Onsite Transportation	*	--	*	*	W	--	2.9
	Conventional Electricity Generation	--	0	*	3	0	0	1.1
	Other Nonprocess Use	*	0	*	*	*	0	1
	End Use Not Reported	*	0	W	1	W	0	4.2
325211	**Plastics Materials and Resins**							
	RSE Column Factors:	NF	0.5	1	1.1	2.4	1.3	
	TOTAL FUEL CONSUMPTION	129	1	1	348	*	27	9.8
	Indirect Uses-Boiler Fuel	1	*	W	243	*	26	3.3
	Conventional Boiler Use	1	*	W	48	*	13	2.1
	CHP and/or Cogeneration Process	0	0	0	194	0	Q	1.6
	Direct Uses-Total Process	119	*	*	97	*	0	3.3
	Process Heating	W	*	*	91	*	0	4.2
	Process Cooling and Refrigeration	11	0	*	1	*	0	1.4
	Machine Drive	73	0	*	2	*	0	4.6
	Electro-Chemical Processes	W	--	--	--	--	--	1.2
	Other Process Use	*	0	*	2	*	0	11.2
	Direct Uses-Total Nonprocess	8	*	*	5	*	0	4.9
	Facility HVAC (g)	4	*	*	W	*	0	5.8

Table 5.4   End Uses of Fuel Consumption, 2002;
  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)	RSE Row Factors
	Facility Lighting	4	--	--	--	--	--	1.2
	Other Facility Support	1	0	*	*	*	0	2.3
	Onsite Transportation	*	--	*	*	*	--	4
	Conventional Electricity Generation	--	0	*	1	0	0	1.6
	Other Nonprocess Use	*	0	*	W	*	0	4.5
	End Use Not Reported	Q	*	W	3	*	Q	10.1
325212	**Synthetic Rubber**							
	RSE Column Factors:	NF	4.1	0.8	1	1.2	0.3	
	TOTAL FUEL CONSUMPTION	7	*	*	28	*	5	10.4
	Indirect Uses-Boiler Fuel	*	*	*	24	0	3	7.5
	Conventional Boiler Use	*	*	*	W	0	W	8.4
	CHP and/or Cogeneration Process	0	0	0	W	0	W	2.2
	Direct Uses-Total Process	6	*	*	W	*	2	3.7
	Process Heating	*	*	*	2	*	2	3.5
	Process Cooling and Refrigeration	1	0	0	W	0	0	2.7
	Machine Drive	5	0	*	W	*	0	3.3
	Electro-Chemical Processes	0	--	--	--	--	--	1.2
	Other Process Use	0	*	0	*	0	0	5.2
	Direct Uses-Total Nonprocess	1	*	*	W	*	*	4.1
	Facility HVAC (g)	1	*	0	W	0	*	5.7
	Facility Lighting	*	--	--	--	--	--	1.5
	Other Facility Support	*	0	0	*	*	0	4.9
	Onsite Transportation	*	--	*	0	*	--	1.3
	Conventional Electricity Generation	--	0	0	0	0	0	1.1
	Other Nonprocess Use	*	0	0	*	0	0	1.7
	End Use Not Reported	*	0	*	W	*	0	3.3
325222	**Noncellulosic Organic Fibers**							
	RSE Column Factors:	NF	1.6	0.8	0.8	1.5	0.9	
	TOTAL FUEL CONSUMPTION	18	W	*	30	*	W	1.8
	Indirect Uses-Boiler Fuel	*	W	*	21	*	W	1.2
	Conventional Boiler Use	*	W	*	W	*	W	1.2
	CHP and/or Cogeneration Process	*	W	*	W	0	W	1.1
	Direct Uses-Total Process	15	W	*	8	*	0	1.5
	Process Heating	2	W	*	8	*	0	1.6

Table 5.4 End Uses of Fuel Consumption, 2002;
　　　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)	RSE Row Factors
	Process Cooling and Refrigeration	3	0	0	*	0	0	1.2
	Machine Drive	10	*	*	0	*	0	0.9
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	0	*	0	0	1.2
	Direct Uses-Total Nonprocess	2	W	*	*	*	0	1.7
	Facility HVAC (g)	1	W	*	*	*	0	1.1
	Facility Lighting	1	--	--	--	--	--	1
	Other Facility Support	*	*	*	*	0	0	1.1
	Onsite Transportation	0	--	*	0	*	--	0.9
	Conventional Electricity Generation	--	0	*	*	0	0	1.2
	Other Nonprocess Use	*	0	*	0	0	0	1.2
	End Use Not Reported	*	0	*	*	*	0	1.1
325311	**Nitrogenous Fertilizers**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	14	0	*	189	*	0	1
	Indirect Uses-Boiler Fuel	*	0	*	54	*	0	1
	Conventional Boiler Use	*	0	*	46	*	0	1
	CHP and/or Cogeneration Process	0	0	0	7	0	0	1
	Direct Uses-Total Process	12	0	*	133	*	0	1
	Process Heating	1	0	0	124	*	0	1
	Process Cooling and Refrigeration	1	0	0	0	0	0	1
	Machine Drive	10	0	*	8	*	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	*	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	1	0	*	3	*	0	1
	Facility HVAC (g)	*	0	0	1	*	0	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	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
	End Use Not Reported	1	0	*	0	*	0	1
325312	**Phosphatic Fertilizers**							
	RSE Column Factors:	NF	1	1	1	1	1	

Table 5.4   End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	13	1	1	19	*	1	1
	Indirect Uses-Boiler Fuel	*	*	*	4	0	0	1
	Conventional Boiler Use	*	*	*	4	0	0	1
	CHP and/or Cogeneration Process	0	*	*	*	0	0	1
	Direct Uses-Total Process	12	1	*	14	*	1	1
	Process Heating	*	1	*	14	*	1	1
	Process Cooling and Refrigeration	*	0	0	0	0	0	1
	Machine Drive	11	0	*	0	0	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	1	0	*	*	*	0	1
	Facility HVAC (g)	*	0	0	*	0	0	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	0	0	0	0	1
	Onsite Transportation	0	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	*	0	*	0	0	0	1
	End Use Not Reported	*	0	0	0	*	0	1
3254	**Pharmaceuticals and Medicines**							
	RSE Column Factors:	NF	0.6	2.9	1.8	1.2	0.3	
	TOTAL FUEL CONSUMPTION	41	2	3	62	*	9	4.3
	Indirect Uses-Boiler Fuel	*	2	2	45	*	9	4.5
	Conventional Boiler Use	*	W	2	27	*	9	5.6
	CHP and/or Cogeneration Process	0	W	*	18	0	0	1
	Direct Uses-Total Process	21	0	*	9	*	0	5.7
	Process Heating	1	0	*	8	*	0	3
	Process Cooling and Refrigeration	7	0	*	*	0	0	3.1
	Machine Drive	12	0	*	*	*	0	7.4
	Electro-Chemical Processes	*	--	--	--	--	--	1.5
	Other Process Use	*	0	*	*	0	0	5.2
	Direct Uses-Total Nonprocess	19	0	*	7	*	0	4
	Facility HVAC (g)	11	0	*	5	*	0	3.8
	Facility Lighting	6	--	--	--	--	--	1.2
	Other Facility Support	1	0	*	1	*	0	3.6
	Onsite Transportation	*	--	*	0	*	--	3.6
	Conventional Electricity Generation	--	0	*	*	*	0	1
	Other Nonprocess Use	*	0	*	1	0	0	4.2

Table 5.4 End Uses of Fuel Consumption, 2002;
  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)	RSE Row Factors
	End Use Not Reported	1	*	*	1	*	0	9.4
325412	**Pharmaceutical Preparation**							
	RSE Column Factors:	NF	0.7	1.6	2	1.4	0.4	
	TOTAL FUEL CONSUMPTION	31	2	1	40	*	9	5
	Indirect Uses-Boiler Fuel	*	2	*	28	0	9	3
	Conventional Boiler Use	*	W	*	18	0	9	3.6
	CHP and/or Cogeneration Process	0	W	*	9	0	0	1
	Direct Uses-Total Process	16	0	*	7	*	0	6.3
	Process Heating	1	0	*	6	*	0	3
	Process Cooling and Refrigeration	5	0	0	*	0	0	1.8
	Machine Drive	9	0	*	*	*	0	5.2
	Electro-Chemical Processes	*	--	--	--	--	--	1.1
	Other Process Use	*	0	*	*	0	0	6.1
	Direct Uses-Total Nonprocess	14	0	*	5	*	0	6.9
	Facility HVAC (g)	8	0	*	4	*	0	5.7
	Facility Lighting	4	--	--	--	--	--	1.2
	Other Facility Support	1	0	*	*	*	0	2.8
	Onsite Transportation	*	--	*	0	*	--	3.5
	Conventional Electricity Generation	--	0	*	*	0	0	0.8
	Other Nonprocess Use	*	0	*	1	0	0	3.9
	End Use Not Reported	1	0	*	1	*	0	14.4
325992	**Photographic Film, Paper, Plate, and Chemicals**							
	RSE Column Factors:	NF	0.4	1.3	2	1.5	0.5	
	TOTAL FUEL CONSUMPTION	8	1	*	7	*	W	6.6
	Indirect Uses-Boiler Fuel	1	1	*	5	0	W	3
	Conventional Boiler Use	*	1	*	2	0	0	4.7
	CHP and/or Cogeneration Process	*	*	*	3	0	W	1.1
	Direct Uses-Total Process	5	0	*	2	*	0	2.4
	Process Heating	*	0	*	1	*	0	2
	Process Cooling and Refrigeration	1	0	0	0	0	0	2.6
	Machine Drive	3	0	*	*	0	0	3.2
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	0	0	*	*	0	0	0.9
	Direct Uses-Total Nonprocess	2	0	*	1	*	0	7.6

Table 5.4 End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	Facility HVAC (g)	1	0	*	1	*	0	2.9
	Facility Lighting	1	--	--	--	--	--	1.4
	Other Facility Support	*	0	*	*	0	0	2.8
	Onsite Transportation	*	--	*	0	*	--	3.4
	Conventional Electricity Generation	--	0	0	0	*	0	0.8
	Other Nonprocess Use	*	0	*	*	0	0	0.7
	End Use Not Reported	1	0	0	*	*	0	8
326	**PLASTICS AND RUBBER PRODUCTS**							
	RSE Column Factors:	NF	1.5	2.4	1.6	2	0.4	
	TOTAL FUEL CONSUMPTION	W	7	2	128	3	Q	7.9
	Indirect Uses-Boiler Fuel	Q	5	1	50	W	Q	7.8
	Conventional Boiler Use	*	5	1	48	W	W	9.4
	CHP and/or Cogeneration Process	*	0	0	2	0	W	6.1
	Direct Uses-Total Process	134	2	*	39	W	0	9.2
	Process Heating	26	2	*	37	W	0	7.3
	Process Cooling and Refrigeration	14	0	0	1	0	0	8.5
	Machine Drive	92	*	*	1	*	0	5.5
	Electro-Chemical Processes	1	--	--	--	--	--	1.7
	Other Process Use	2	0	*	1	*	0	15.1
	Direct Uses-Total Nonprocess	36	1	1	28	W	0	7.4
	Facility HVAC (g)	17	1	*	24	W	0	9.8
	Facility Lighting	14	--	--	--	--	--	1.3
	Other Facility Support	4	0	*	1	*	0	9.8
	Onsite Transportation	*	--	*	*	2	--	3.9
	Conventional Electricity Generation	--	0	*	Q	*	0	3
	Other Nonprocess Use	*	0	*	1	*	0	13.1
	End Use Not Reported	W	0	*	12	W	0	22
327	**NONMETALLIC MINERAL PRODUCTS**							
	RSE Column Factors:	NF	0.3	4.3	1.4	2.6	0.3	
	TOTAL FUEL CONSUMPTION	144	3	31	421	3	309	4.5
	Indirect Uses-Boiler Fuel	*	*	W	13	*	W	5.4
	Conventional Boiler Use	*	*	W	10	*	W	6.6
	CHP and/or Cogeneration Process	*	*	*	3	0	W	1.9
	Direct Uses-Total Process	122	W	9	364	1	W	3.7

Table 5.4 End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	Process Heating	29	W	4	358	1	W	3.3
	Process Cooling and Refrigeration	5	0	*	*	0	0	3.1
	Machine Drive	85	0	5	2	*	0	6.3
	Electro-Chemical Processes	Q	--	--	--	--	--	1.1
	Other Process Use	1	0	*	Q	*	0	1.5
	Direct Uses-Total Nonprocess	18	W	18	22	1	*	4.5
	Facility HVAC (g)	9	W	*	21	*	*	6.1
	Facility Lighting	7	--	--	--	--	--	1.3
	Other Facility Support	2	0	*	1	*	0	7.5
	Onsite Transportation	*	--	11	*	1	--	3.4
	Conventional Electricity Generation	--	0	Q	0	*	0	0.9
	Other Nonprocess Use	*	0	Q	*	*	0	1.4
	End Use Not Reported	5	W	W	23	*	*	8.6
3272	**Glass and Glass Products**							
	RSE Column Factors:	NF	0.6	0.8	1.4	1.4	0.7	
	TOTAL FUEL CONSUMPTION	42	W	W	152	1	0	3
	Indirect Uses-Boiler Fuel	*	*	W	2	*	0	1.6
	Conventional Boiler Use	*	*	W	2	*	0	1.6
	CHP and/or Cogeneration Process	0	0	*	*	0	0	1.7
	Direct Uses-Total Process	35	W	*	141	*	0	1.3
	Process Heating	16	W	*	138	*	0	1.4
	Process Cooling and Refrigeration	2	0	*	*	0	0	1.4
	Machine Drive	16	0	*	1	*	0	3.8
	Electro-Chemical Processes	*	--	--	--	--	--	1.7
	Other Process Use	*	0	*	1	*	0	0.8
	Direct Uses-Total Nonprocess	6	W	*	7	*	0	1.9
	Facility HVAC (g)	3	W	*	7	*	0	1.8
	Facility Lighting	2	--	--	--	--	--	1.2
	Other Facility Support	*	0	*	*	*	0	2
	Onsite Transportation	*	--	*	*	*	--	1.4
	Conventional Electricity Generation	--	0	*	0	*	0	0.9
	Other Nonprocess Use	*	0	*	0	0	0	5.5
	End Use Not Reported	1	0	*	2	*	0	29.8
327211	**Flat Glass**							
	RSE Column Factors:	NF	1	1	1	1	1	

Table 5.4 End Uses of Fuel Consumption, 2002;
  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)	RSE Row Factors
	TOTAL FUEL CONSUMPTION	W	W	W	52	*	0	1
	Indirect Uses-Boiler Fuel	0	0	W	*	0	0	1
	Conventional Boiler Use	0	0	W	*	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	W	W	*	50	*	0	1
	Process Heating	W	W	*	50	*	0	1
	Process Cooling and Refrigeration	*	0	0	*	0	0	1
	Machine Drive	3	0	*	*	*	0	1
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	W	*	*	1	*	0	1
	Facility HVAC (g)	W	*	0	1	0	0	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	*	*	*	0	1
	Onsite Transportation	*	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	0	0	*	0	1
327213	**Glass Containers**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	13	0	*	52	*	0	1
	Indirect Uses-Boiler Fuel	*	0	0	*	0	0	1
	Conventional Boiler Use	*	0	0	*	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	12	0	*	50	*	0	1
	Process Heating	4	0	0	49	*	0	1
	Process Cooling and Refrigeration	*	0	0	0	0	0	1
	Machine Drive	7	0	*	0	0	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	*	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	2	0	*	2	*	0	1
	Facility HVAC (g)	1	0	*	2	0	0	1
	Facility Lighting	1	--	--	--	--	--	1
	Other Facility Support	*	0	*	*	0	0	1
	Onsite Transportation	*	--	*	0	*	--	1
	Conventional Electricity Generation	--	0	*	0	0	0	1

Table 5.4 End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	Other Nonprocess Use	0	0	0	0	0	0	1
	End Use Not Reported	0	0	0	0	0	0	1
327310	**Cements**							
	RSE Column Factors:	NF	0.7	1.3	1.5	1.1	0.8	
	TOTAL FUEL CONSUMPTION	45	1	6	21	*	236	2.1
	Indirect Uses-Boiler Fuel	*	0	W	W	*	W	1.1
	Conventional Boiler Use	0	0	W	*	*	W	1.1
	CHP and/or Cogeneration Process	*	0	0	W	0	0	0.9
	Direct Uses-Total Process	41	1	W	W	*	W	1.5
	Process Heating	3	1	W	W	*	W	1.5
	Process Cooling and Refrigeration	1	0	0	0	0	0	1.1
	Machine Drive	36	0	*	*	*	0	1
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	0	*	*	0	0.9
	Direct Uses-Total Nonprocess	3	0	W	1	*	*	2
	Facility HVAC (g)	1	0	*	1	*	*	2.2
	Facility Lighting	1	--	--	--	--	--	1.2
	Other Facility Support	*	0	*	*	*	0	0.9
	Onsite Transportation	*	--	W	0	*	--	1.6
	Conventional Electricity Generation	--	0	*	0	0	0	1
	Other Nonprocess Use	0	0	*	0	0	0	0.9
	End Use Not Reported	1	0	*	*	*	*	1.4
327410	**Lime**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	5	1	1	8	*	66	1
	Indirect Uses-Boiler Fuel	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
	Direct Uses-Total Process	4	W	W	8	*	66	1
	Process Heating	1	W	W	7	*	66	1
	Process Cooling and Refrigeration	*	0	0	0	0	0	1
	Machine Drive	3	0	*	*	*	0	1
	Electro-Chemical Processes	0	--	--	--	--	--	1
	Other Process Use	0	0	0	0	0	0	1

Table 5.4　End Uses of Fuel Consumption, 2002;
　　　　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)	RSE Row Factors
	Direct Uses-Total Nonprocess	*	W	W	*	*	0	1
	Facility HVAC (g)	*	W	*	*	*	0	1
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	0	*	*	0	1
	Onsite Transportation	0	--	W	0	*	--	1
	Conventional Electricity Generation	--	0	0	0	0	0	1
	Other Nonprocess Use	0	0	W	*	*	0	1
	End Use Not Reported	0	W	W	0	*	0	1
327993	**Mineral Wool**							
	RSE Column Factors:	NF	0.9	0.6	1.2	1.2	0.9	
	TOTAL FUEL CONSUMPTION	13	0	*	35	*	0	1.2
	Indirect Uses-Boiler Fuel	0	0	0	1	0	0	1
	Conventional Boiler Use	0	0	0	1	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1.2
	Direct Uses-Total Process	12	0	*	32	*	0	1.1
	Process Heating	5	0	*	32	*	0	1.2
	Process Cooling and Refrigeration	*	0	0	0	0	0	0.9
	Machine Drive	6	0	*	*	*	0	1.6
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	0	*	0	0	0.9
	Direct Uses-Total Nonprocess	1	0	*	2	*	0	1.6
	Facility HVAC (g)	*	0	*	2	*	0	1.6
	Facility Lighting	1	--	--	--	--	--	1.2
	Other Facility Support	*	0	*	*	0	0	1.7
	Onsite Transportation	*	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	*	0	0	0	1.1
	Other Nonprocess Use	0	0	0	0	*	0	1
	End Use Not Reported	*	0	*	*	*	0	7.5
331	**PRIMARY METALS**							
	RSE Column Factors:	NF	1.6	1.3	1	1.4	0.8	
	TOTAL FUEL CONSUMPTION	514	1	15	669	3	47	2.5
	Indirect Uses-Boiler Fuel	1	*	*	71	*	3	2.5
	Conventional Boiler Use	1	*	*	40	*	W	2.7
	CHP and/or Cogeneration Process	*	0	*	31	0	W	1.2

Table 5.4   End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	Direct Uses-Total Process	472	*	9	540	1	37	3.5
	Process Heating	144	*	6	530	1	33	4.2
	Process Cooling and Refrigeration	4	0	0	1	0	0	2.4
	Machine Drive	165	*	W	W	*	0	3.7
	Electro-Chemical Processes	158	--	--	--	--	--	1
	Other Process Use	1	0	W	W	*	4	2.6
	Direct Uses-Total Nonprocess	38	*	W	53	1	W	1.8
	Facility HVAC (g)	19	*	*	45	*	*	3.2
	Facility Lighting	15	--	--	--	--	--	1.1
	Other Facility Support	4	0	*	5	*	0	3.7
	Onsite Transportation	*	--	W	*	1	--	2.2
	Conventional Electricity Generation	--	0	*	3	*	W	2
	Other Nonprocess Use	1	0	*	*	*	0	3.3
	End Use Not Reported	3	*	W	6	*	W	6.8
331111	**Iron and Steel Mills**							
	RSE Column Factors:	NF	0.6	1.5	1	1.9	1.2	
	TOTAL FUEL CONSUMPTION	198	1	10	388	*	36	3.3
	Indirect Uses-Boiler Fuel	1	*	*	39	*	W	1.3
	Conventional Boiler Use	*	*	*	23	*	W	1.4
	CHP and/or Cogeneration Process	*	0	*	16	0	W	1
	Direct Uses-Total Process	185	*	W	330	*	W	3.3
	Process Heating	80	*	W	329	*	33	1.9
	Process Cooling and Refrigeration	2	0	0	1	0	0	1.2
	Machine Drive	98	0	1	*	*	0	3.9
	Electro-Chemical Processes	5	--	--	--	--	--	1
	Other Process Use	*	0	*	*	0	1	2
	Direct Uses-Total Nonprocess	12	0	W	19	*	0	3.3
	Facility HVAC (g)	6	0	*	14	*	0	3.3
	Facility Lighting	5	--	--	--	--	--	1.2
	Other Facility Support	1	0	0	2	0	0	2.4
	Onsite Transportation	*	--	W	0	*	--	2.1
	Conventional Electricity Generation	--	0	0	2	0	0	1.2
	Other Nonprocess Use	0	0	*	0	0	0	5.5
	End Use Not Reported	1	*	W	Q	*	0	2.2
331112	**Electrometallurgical Ferroalloy Products**							

Table 5.4 End Uses of Fuel Consumption, 2002;
       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)	RSE Row Factors
	RSE Column Factors:	NF	1	1.1	0.8	0.9	0.7	
	TOTAL FUEL CONSUMPTION	12	0	*	7	*	2	3.4
	Indirect Uses-Boiler Fuel	*	0	0	*	*	0	0.9
	Conventional Boiler Use	*	0	0	*	*	0	0.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	11	0	*	6	0	2	1.6
	Process Heating	6	0	0	6	0	0	2.3
	Process Cooling and Refrigeration	*	0	0	0	0	0	0.8
	Machine Drive	1	0	*	0	0	0	2.2
	Electro-Chemical Processes	4	--	--	--	--	--	1
	Other Process Use	*	0	*	*	0	2	1
	Direct Uses-Total Nonprocess	1	0	*	1	*	0	0.9
	Facility HVAC (g)	1	0	*	1	*	0	0.9
	Facility Lighting	*	--	--	--	--	--	1
	Other Facility Support	*	0	0	*	0	0	0.9
	Onsite Transportation	0	--	*	0	*	--	1.1
	Conventional Electricity Generation	--	0	*	0	0	0	0.8
	Other Nonprocess Use	*	0	0	0	0	0	0.8
	End Use Not Reported	0	0	*	*	0	0	4.1
3312	**Steel Products from Purchased Steel**							
	RSE Column Factors:	NF	0.5	2	1.3	2.7	0.6	
	TOTAL FUEL CONSUMPTION	16	*	*	24	*	0	10.9
	Indirect Uses-Boiler Fuel	*	*	*	W	*	0	3.9
	Conventional Boiler Use	*	*	*	W	*	0	3.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	3.5
	Direct Uses-Total Process	13	*	*	17	*	0	6.1
	Process Heating	W	*	*	W	*	0	7.9
	Process Cooling and Refrigeration	*	0	0	*	0	0	8.6
	Machine Drive	8	0	*	W	*	0	7.2
	Electro-Chemical Processes	1	--	--	--	--	--	1.1
	Other Process Use	*	0	*	0	0	0	10.6
	Direct Uses-Total Nonprocess	3	*	*	W	*	0	3.4
	Facility HVAC (g)	1	*	*	3	*	0	4.9
	Facility Lighting	1	--	--	--	--	--	1.4
	Other Facility Support	*	0	*	W	*	0	2.8
	Onsite Transportation	*	--	*	0	*	--	2.5

Table 5.4 End Uses of Fuel Consumption, 2002;
  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)	RSE Row Factors
	Conventional Electricity Generation	--	0	0	0	*	0	3.2
	Other Nonprocess Use	*	0	*	0	0	0	3.4
	End Use Not Reported	*	0	*	W	*	0	29
3313	**Alumina and Aluminum**							
	RSE Column Factors:	NF	0.4	1.6	1.6	2.2	0.5	
	TOTAL FUEL CONSUMPTION	196	*	1	130	1	0	2.1
	Indirect Uses-Boiler Fuel	*	*	*	18	*	0	2.6
	Conventional Boiler Use	*	*	*	W	*	0	3.4
	CHP and/or Cogeneration Process	*	0	0	W	0	0	0.9
	Direct Uses-Total Process	187	0	*	104	*	0	1.9
	Process Heating	17	0	*	97	*	0	2.2
	Process Cooling and Refrigeration	*	0	0	0	0	0	5.2
	Machine Drive	27	0	*	W	*	0	3.6
	Electro-Chemical Processes	143	--	--	--	--	--	1
	Other Process Use	*	0	*	W	0	0	4.2
	Direct Uses-Total Nonprocess	8	0	1	W	*	0	3.2
	Facility HVAC (g)	4	0	*	6	*	0	1.8
	Facility Lighting	3	--	--	--	--	--	1.3
	Other Facility Support	1	0	0	W	0	0	7
	Onsite Transportation	*	--	1	*	*	--	4.8
	Conventional Electricity Generation	--	0	0	0	0	0	1.1
	Other Nonprocess Use	*	0	0	0	0	0	1.1
	End Use Not Reported	Q	*	*	W	*	0	6.5
331312	**Primary Aluminum**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	W	*	*	20	*	0	1
	Indirect Uses-Boiler Fuel	0	*	*	1	0	0	1
	Conventional Boiler Use	0	*	*	1	0	0	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	163	0	*	17	*	0	1
	Process Heating	W	0	*	W	*	0	1
	Process Cooling and Refrigeration	*	0	0	0	0	0	1
	Machine Drive	W	0	*	0	*	0	1
	Electro-Chemical Processes	142	--	--	--	--	--	1

Table 5.4 End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	Other Process Use	0	0	0	W	0	0	1
	Direct Uses-Total Nonprocess	W	0	*	1	*	0	1
	Facility HVAC (g)	W	0	0	1	*	0	1
	Facility Lighting	2	--	--	--	--	--	1
	Other Facility Support	*	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
	End Use Not Reported	0	0	0	0	0	0	1
3314	**Nonferrous Metals, except Aluminum**							
	RSE Column Factors:	NF	0.9	1.4	1.4	1.5	0.4	
	TOTAL FUEL CONSUMPTION	37	*	2	44	1	8	4.3
	Indirect Uses-Boiler Fuel	*	*	*	W	*	W	2.8
	Conventional Boiler Use	*	*	*	W	*	W	3
	CHP and/or Cogeneration Process	0	0	0	W	0	0	1.3
	Direct Uses-Total Process	32	0	W	30	*	*	2
	Process Heating	13	0	*	30	*	*	3.4
	Process Cooling and Refrigeration	1	0	0	0	0	0	2.4
	Machine Drive	13	0	W	*	*	0	2.2
	Electro-Chemical Processes	5	--	--	--	--	--	1
	Other Process Use	*	0	*	*	*	0	2.8
	Direct Uses-Total Nonprocess	5	*	W	W	*	W	3.3
	Facility HVAC (g)	2	*	*	4	*	0	3.6
	Facility Lighting	2	--	--	--	--	--	1.3
	Other Facility Support	*	0	0	W	*	0	2.7
	Onsite Transportation	*	--	W	*	*	--	3.8
	Conventional Electricity Generation	--	0	*	*	0	W	3.3
	Other Nonprocess Use	*	0	*	0	0	0	3.7
	End Use Not Reported	*	*	W	W	*	0	7
3315	**Foundries**							
	RSE Column Factors:	NF	0.7	1.6	1.2	1.5	0.7	
	TOTAL FUEL CONSUMPTION	54	*	1	77	1	1	2.1
	Indirect Uses-Boiler Fuel	*	*	*	3	*	*	1.9
	Conventional Boiler Use	*	*	*	3	*	0	1.8

Table 5.4   End Uses of Fuel Consumption, 2002;
　　　　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)	RSE Row Factors
	CHP and/or Cogeneration Process	0	0	0	*	0	*	2.3
	Direct Uses-Total Process	44	*	*	54	*	*	2.2
	Process Heating	24	0	*	52	*	*	2.5
	Process Cooling and Refrigeration	1	0	0	*	0	0	3.6
	Machine Drive	18	*	*	W	*	0	3.8
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	*	W	*	*	3.1
	Direct Uses-Total Nonprocess	9	0	1	18	*	*	2.6
	Facility HVAC (g)	5	0	*	16	*	*	5
	Facility Lighting	3	--	--	--	--	--	1.1
	Other Facility Support	1	0	*	1	*	0	1.9
	Onsite Transportation	*	--	1	*	*	--	2
	Conventional Electricity Generation	--	0	*	*	*	0	1.1
	Other Nonprocess Use	*	0	*	*	*	0	2.5
	End Use Not Reported	1	0	*	2	*	*	9
331511	**Iron Foundries**							
	RSE Column Factors:	NF	0.7	1.1	0.9	2.1	0.9	
	TOTAL FUEL CONSUMPTION	28	0	1	27	*	1	2.7
	Indirect Uses-Boiler Fuel	*	0	0	1	*	*	1.1
	Conventional Boiler Use	*	0	0	1	*	0	0.9
	CHP and/or Cogeneration Process	0	0	0	0	0	*	2
	Direct Uses-Total Process	23	0	*	18	*	*	2.4
	Process Heating	14	0	*	16	*	*	2.7
	Process Cooling and Refrigeration	1	0	0	0	0	0	3.3
	Machine Drive	8	0	*	W	*	0	2.9
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	0	W	*	*	1.4
	Direct Uses-Total Nonprocess	4	0	*	9	*	*	3.3
	Facility HVAC (g)	2	0	*	8	*	*	6
	Facility Lighting	2	--	--	--	--	--	1.2
	Other Facility Support	*	0	*	1	*	0	2.4
	Onsite Transportation	*	--	*	*	*	--	2
	Conventional Electricity Generation	--	0	*	*	0	0	2
	Other Nonprocess Use	*	0	*	*	*	0	1.1
	End Use Not Reported	*	0	*	*	*	0	12.2
331521	**Aluminum Die-Casting Foundries**							

Table 5.4   End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	RSE Column Factors:	NF	0.7	0.9	1.4	1.5	0.8	
	TOTAL FUEL CONSUMPTION	6	*	*	16	*	0	2.4
	Indirect Uses-Boiler Fuel	0	*	0	1	*	0	1.2
	Conventional Boiler Use	0	*	0	1	*	0	1.2
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1.5
	Direct Uses-Total Process	4	0	*	10	*	0	3.7
	Process Heating	1	0	*	10	*	0	1.7
	Process Cooling and Refrigeration	*	0	0	*	0	0	1.7
	Machine Drive	3	0	0	*	*	0	4.6
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	*	*	0	0	1
	Direct Uses-Total Nonprocess	2	0	*	4	*	0	2.2
	Facility HVAC (g)	1	0	0	3	*	0	2.2
	Facility Lighting	1	--	--	--	--	--	1.2
	Other Facility Support	*	0	0	*	0	0	3.2
	Onsite Transportation	*	--	*	*	*	--	1.7
	Conventional Electricity Generation	--	0	*	0	*	0	0.9
	Other Nonprocess Use	*	0	0	*	0	0	0.9
	End Use Not Reported	*	0	*	1	*	0	4.6
331524	**Aluminum Foundries, except Die-Casting**							
	RSE Column Factors:	NF	0.8	1	1.2	1.1	0.8	
	TOTAL FUEL CONSUMPTION	5	*	*	14	*	0	3.4
	Indirect Uses-Boiler Fuel	*	0	0	*	*	0	0.9
	Conventional Boiler Use	*	0	0	*	*	0	0.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1.3
	Direct Uses-Total Process	3	*	*	11	*	0	2.7
	Process Heating	1	0	*	11	*	0	3.4
	Process Cooling and Refrigeration	*	0	0	*	0	0	0.9
	Machine Drive	2	*	*	*	*	0	1.3
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	*	0	0	*	0	0	0.9
	Direct Uses-Total Nonprocess	1	0	*	2	*	0	2.3
	Facility HVAC (g)	1	0	*	2	*	0	1.8
	Facility Lighting	*	--	--	--	--	--	1.3
	Other Facility Support	*	0	0	1	*	0	1.1

Table 5.4   End Uses of Fuel Consumption, 2002;
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)	RSE Row Factors
	Onsite Transportation	*	--	*	0	*	--	1.4
	Conventional Electricity Generation	--	0	*	0	*	0	1
	Other Nonprocess Use	0	0	0	0	0	0	1.3
	End Use Not Reported	*	0	*	*	*	0	21.7
332	**FABRICATED METAL PRODUCTS**							
	RSE Column Factors:	NF	0.8	3.1	1.4	1.9	0.3	
	TOTAL FUEL CONSUMPTION	162	Q	6	209	3	1	15.9
	Indirect Uses-Boiler Fuel	*	*	*	W	*	0	12.5
	Conventional Boiler Use	*	*	*	W	*	0	12.8
	CHP and/or Cogeneration Process	*	0	*	W	0	0	1.1
	Direct Uses-Total Process	115	W	W	132	W	W	9
	Process Heating	37	W	W	130	W	*	13.7
	Process Cooling and Refrigeration	6	0	*	*	0	0	9.1
	Machine Drive	71	0	*	2	*	0	9.8
	Electro-Chemical Processes	1	--	--	--	--	--	1.6
	Other Process Use	*	0	*	*	*	W	6.8
	Direct Uses-Total Nonprocess	35	W	W	45	W	W	6.1
	Facility HVAC (g)	16	W	1	43	W	W	6.5
	Facility Lighting	15	--	--	--	--	--	1.4
	Other Facility Support	3	0	*	1	*	0	7.4
	Onsite Transportation	*	--	W	*	2	--	4.6
	Conventional Electricity Generation	--	0	*	*	*	0	3.1
	Other Nonprocess Use	*	0	*	Q	*	0	7.9
	End Use Not Reported	11	*	W	W	W	0	21.5
333	**MACHINERY**							
	RSE Column Factors:	NF	0.4	3.6	1.7	2.7	0.4	
	TOTAL FUEL CONSUMPTION	84	*	2	82	2	1	10.3
	Indirect Uses-Boiler Fuel	*	*	*	14	*	1	6.7
	Conventional Boiler Use	*	*	*	13	*	*	10.3
	CHP and/or Cogeneration Process	0	0	*	1	0	1	3.7
	Direct Uses-Total Process	51	0	W	32	W	0	6.2
	Process Heating	6	0	*	30	W	0	8.8
	Process Cooling and Refrigeration	3	0	0	*	0	0	5.7
	Machine Drive	41	0	*	2	*	0	7.4

Table 5.4   End Uses of Fuel Consumption, 2002;
  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)	RSE Row Factors
	Electro-Chemical Processes	1	--	--	--	--	--	1.6
	Other Process Use	*	0	W	*	*	0	11.2
	Direct Uses-Total Nonprocess	30	*	W	31	W	0	5
	Facility HVAC (g)	16	*	*	30	W	0	6.3
	Facility Lighting	12	--	--	--	--	--	1.3
	Other Facility Support	2	0	*	1	*	0	6.8
	Onsite Transportation	*	--	W	*	W	--	5.7
	Conventional Electricity Generation	--	0	*	*	0	0	3.1
	Other Nonprocess Use	*	0	*	*	*	0	10.9
	End Use Not Reported	4	*	*	4	W	0	13.7
334	**COMPUTER AND ELECTRONIC PRODUCTS**							
	RSE Column Factors:	NF	0.6	1.9	1.3	1.2	1.2	
	TOTAL FUEL CONSUMPTION	131	1	1	65	*	*	17.7
	Indirect Uses-Boiler Fuel	*	1	1	27	*	*	12.8
	Conventional Boiler Use	*	1	1	27	*	0	11.5
	CHP and/or Cogeneration Process	0	0	0	*	0	*	4.3
	Direct Uses-Total Process	62	*	*	10	*	0	5.9
	Process Heating	15	*	0	9	*	0	7.1
	Process Cooling and Refrigeration	12	0	0	*	*	0	7.3
	Machine Drive	30	0	*	*	*	0	3
	Electro-Chemical Processes	2	--	--	--	--	--	1.5
	Other Process Use	4	0	*	1	0	0	4.1
	Direct Uses-Total Nonprocess	63	*	*	23	*	0	11.6
	Facility HVAC (g)	37	*	*	20	*	0	7.6
	Facility Lighting	17	--	--	--	--	--	1.5
	Other Facility Support	9	*	*	1	*	0	10.3
	Onsite Transportation	*	--	*	*	*	--	3.7
	Conventional Electricity Generation	--	0	*	*	*	0	3.7
	Other Nonprocess Use	*	0	*	1	*	0	5.3
	End Use Not Reported	6	*	*	5	*	0	12.6
334413	**Semiconductors and Related Devices**							
	RSE Column Factors:	NF	0.5	0.7	2.3	1.7	0.6	
	TOTAL FUEL CONSUMPTION	44	*	*	21	*	0	4
	Indirect Uses-Boiler Fuel	*	*	*	12	0	0	3.2

Table 5.4 End Uses of Fuel Consumption, 2002;
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)	RSE Row Factors
	CHP and/or Cogeneration Process	*	*	*	11	0	0	3.2
	Other Boiler Fuel Use	0	0	0	*	0	0	0.8
	Direct Uses-Total Process	25	*	*	2	*	0	1.6
	Process Heating	4	*	0	1	*	0	1.8
	Process Cooling and Refrigeration	5	0	0	*	0	0	1.3
	Machine Drive	14	0	*	*	*	0	1.3
	Electro-Chemical Processes	1	--	--	--	--	--	1.2
	Other Process Use	1	0	*	1	0	0	1.5
	Direct Uses-Total Nonprocess	18	0	*	6	*	0	2.9
	Facility HVAC (g)	13	0	*	6	*	0	1.1
	Facility Lighting	3	--	--	--	--	--	1.2
	Other Facility Support	2	0	*	*	*	0	2.9
	Onsite Transportation	*	--	*	0	*	--	2.8
	Conventional Electricity Generation	--	0	*	0	0	0	1.3
	Other Nonprocess Use	*	0	*	*	0	0	2.3
	End Use Not Reported	1	0	*	2	*	0	4.8
335	**ELEC. EQUIP., APPLIANCES, COMPONENTS**							
	RSE Column Factors:	NF	1.2	2.1	1.5	1.6	0.4	
	TOTAL FUEL CONSUMPTION	47	*	1	53	1	*	6.3
	Indirect Uses-Boiler Fuel	*	*	*	6	*	*	2.9
	Conventional Boiler Use	*	*	*	6	*	*	2.9
	CHP and/or Cogeneration Process	0	0	0	0	0	0	4.1
	Direct Uses-Total Process	29	0	*	28	*	0	5.3
	Process Heating	9	0	*	27	*	0	8
	Process Cooling and Refrigeration	2	0	*	*	0	0	8.2
	Machine Drive	17	0	*	*	*	0	8.2
	Electro-Chemical Processes	1	--	--	--	--	--	1.5
	Other Process Use	*	0	*	*	*	0	12
	Direct Uses-Total Nonprocess	16	*	*	16	1	0	7.3
	Facility HVAC (g)	8	*	*	15	*	0	8.6
	Facility Lighting	6	--	--	--	--	--	1.3
	Other Facility Support	1	0	*	*	*	0	6.9
	Onsite Transportation	*	--	*	*	1	--	3.3
	Conventional Electricity Generation	--	0	*	*	0	0	1.3
	Other Nonprocess Use	*	0	*	*	*	0	12
	End Use Not Reported	2	*	*	3	*	0	22.4

Table 5.4 End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
336	**TRANSPORTATION EQUIPMENT**							
	RSE Column Factors:	NF	0.4	2.8	1.6	2.9	0.4	
	TOTAL FUEL CONSUMPTION	W	6	3	203	4	8	5.4
	Indirect Uses-Boiler Fuel	*	W	1	51	*	7	5.4
	Conventional Boiler Use	*	W	1	48	*	7	5.4
	CHP and/or Cogeneration Process	0	W	*	3	0	*	4
	Direct Uses-Total Process	103	*	*	75	W	*	7.1
	Process Heating	17	*	*	63	W	*	5.9
	Process Cooling and Refrigeration	8	*	0	2	*	0	3
	Machine Drive	75	0	*	2	*	0	7.8
	Electro-Chemical Processes	2	--	--	--	--	--	1.5
	Other Process Use	2	0	*	Q	*	0	2
	Direct Uses-Total Nonprocess	66	W	2	67	W	*	4.2
	Facility HVAC (g)	33	W	*	62	Q	*	4.3
	Facility Lighting	26	--	--	--	--	--	1.3
	Other Facility Support	6	*	*	2	*	0	5
	Onsite Transportation	1	--	2	*	W	--	5.6
	Conventional Electricity Generation	--	0	*	2	*	0	3.5
	Other Nonprocess Use	*	0	*	Q	*	0	2.9
	End Use Not Reported	W	*	*	10	*	*	20.7
336112	**Light Trucks and Utility Vehicles**							
	RSE Column Factors:	NF	1	1	1	1	1	
	TOTAL FUEL CONSUMPTION	17	*	*	36	*	W	1
	Indirect Uses-Boiler Fuel	*	*	0	12	*	W	1
	Conventional Boiler Use	*	*	0	12	*	W	1
	CHP and/or Cogeneration Process	0	0	0	0	0	0	1
	Direct Uses-Total Process	10	0	0	14	*	0	1
	Process Heating	1	0	0	13	0	0	1
	Process Cooling and Refrigeration	1	0	0	1	0	0	1
	Machine Drive	8	0	0	*	*	0	1
	Electro-Chemical Processes	*	--	--	--	--	--	1
	Other Process Use	1	0	0	*	0	0	1
	Direct Uses-Total Nonprocess	W	*	*	10	*	0	1
	Facility HVAC (g)	W	*	0	10	*	0	1
	Facility Lighting	3	--	--	--	--	--	1

Table 5.4 End Uses of Fuel Consumption, 2002;
   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)	RSE Row Factors
	Other Facility Support	1	0	*	*	*	0	1
	Onsite Transportation	*	--	*	*	*	--	1
	Conventional Electricity Generation	--	0	*	*	0	0	1
	Other Nonprocess Use	*	0	*	*	0	0	1
	End Use Not Reported	W	0	0	*	0	0	1
337	**FURNITURE AND RELATED PRODUCTS**							
	RSE Column Factors:	NF	0.5	1	2.1	1.7	1.4	
	TOTAL FUEL CONSUMPTION	24	*	1	25	1	1	8.7
	Indirect Uses-Boiler Fuel	*	0	*	1	*	1	6
	Conventional Boiler Use	*	0	*	1	*	1	6.9
	CHP and/or Cogeneration Process	*	0	0	*	0	*	3.6
	Direct Uses-Total Process	14	0	*	11	W	*	8.5
	Process Heating	1	0	*	11	W	*	7.3
	Process Cooling and Refrigeration	*	0	*	*	*	0	3.3
	Machine Drive	12	0	*	*	*	0	9.2
	Electro-Chemical Processes	*	--	--	--	--	--	1.1
	Other Process Use	*	0	0	0	0	0	3.6
	Direct Uses-Total Nonprocess	8	0	*	12	W	*	8
	Facility HVAC (g)	3	0	*	12	*	*	10.3
	Facility Lighting	4	--	--	--	--	--	1.4
	Other Facility Support	1	0	*	*	*	0	3.9
	Onsite Transportation	*	--	*	*	W	--	5.2
	Conventional Electricity Generation	--	0	*	0	*	0	1.1
	Other Nonprocess Use	*	0	*	*	0	0	1.2
	End Use Not Reported	2	*	*	1	W	*	23.1
339	**MISCELLANEOUS**							
	RSE Column Factors:	NF	0.3	2.7	2.1	1.7	0.5	
	TOTAL FUEL CONSUMPTION	35	*	*	32	1	0	7.3
	Indirect Uses-Boiler Fuel	W	*	*	10	*	0	3.7
	Conventional Boiler Use	W	*	*	10	*	0	3.7
	CHP and/or Cogeneration Process	0	0	0	0	0	0	3.7
	Direct Uses-Total Process	18	0	*	9	*	0	7.4
	Process Heating	3	0	0	8	*	0	7.3
	Process Cooling and Refrigeration	2	0	0	*	0	0	6.1

Table 5.4 End Uses of Fuel Consumption, 2002;
      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)	RSE Row Factors
	Machine Drive	13	0	*	*	*	0	9.7
	Electro-Chemical Processes	*	--	--	--	--	--	1.6
	Other Process Use	*	0	0	*	*	0	3.5
	Direct Uses-Total Nonprocess	14	0	*	10	*	0	6.3
	Facility HVAC (g)	7	0	*	10	*	0	7.3
	Facility Lighting	5	--	--	--	--	--	1.3
	Other Facility Support	1	0	*	*	*	0	5.9
	Onsite Transportation	*	--	*	0	*	--	3.3
	Conventional Electricity Generation	--	0	*	*	*	0	1.8
	Other Nonprocess Use	*	0	*	*	*	0	7.7
	End Use Not Reported	W	*	*	3	*	0	14.2

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

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

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

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

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

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

  NF=No applicable RSE row/column factor.

  * Estimate less than 0.5.

  W=Withheld to avoid disclosing data for individual establishments.

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

  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

Table 5.4   End Uses of Fuel Consumption, 2002;
        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)	RSE Row Factors

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.