Table 2.3 Manufacturing Energy Consumption for Heat, Power, and Electricity Generation by End Use, 2006

	Net Electricity 1	Residual Fuel Oil	Distillate Fuel Oil	LPG 2 and NGL 3	Natural Gas	Coal ⁴	
End-Use Category	Million Kilowatthours	Million Barrels			Billion Cubic Feet	Million Short Tons	Total ⁵
Indirect End Use (Boiler Fuel)	. 12.109	21	4	2	2,059	25	
Conventional Boiler Use	. 12,109	11	3	2	1.245	6	
CHP ⁶ and/or Cogeneration Process		10	1	(s)	814	19	
Direct End Use							
All Process Uses	. 657,810	10	9	10	2,709	19	
Process Heating		9	3	8	2,417	16	
Process Cooling and Refrigeration	. 60,381	(s)	(s)	(s)	31	(s)	
Machine Drive		(s)	4	(s)	126	3	
Electrochemical Processes							
Other Process Uses		(s)	1	1	136	(s)	
All Non-Process Uses		1	9	7	426	(s)	
Facility Heating, Ventilation, and Air Conditioning 7		1	1	1	367	(s)	
Facility Lighting			_ <u>-</u> _	_ <u></u>		(6)	
Other Facility Support		(s)	(s)	(s)	29	(s)	
Onsite Transportation		(3)	6	5	3	(3)	
Conventional Electricity Generation		(s)	1	(s)	19	(s)	
Other Non-Process Use			1	(S)	8		
Other Non-Process Use	. 2,200	(s)	ı	(5)	0	(s)	
End Use Not Reported	. 7,634	8	1	1	164	2	
Total	. 835,382	40	22	21	5,357	46	
	Trillion Btu						
Indirect End Use (Boiler Fuel)	. 41	133	23	8	2,119	547	2,871
Conventional Boiler Use		71	17	8	1.281	129	1.547
CHP ⁶ and/or Cogeneration Process		62	6	1	838	417	1,324
Direct End Use							
All Process Uses	. 2,244	62	52	39	2,788	412	5,597
Process Heating		59	19	32	2,487	345	3,288
Process Cooling and Refrigeration		(s)	19	(s)	32	(s)	239
Machine Drive		2	24	2	129	56	1,654
Electrochemical Processes					129		206
Other Process Uses		 Q		 5	140	10	208
			50	27			
All Non-Process Uses		6			438	6	1,066
Facility Heating, Ventilation, and Air Conditioning 7		4	4	5	378	2	658
Facility Lighting							198
Other Facility Support	. 60	1	(s)	(s)	30	(s)	91
Onsite Transportation			35	20	3		65
Conventional Electricity Generation		(s)	4	(s)	19	3	26
Other Non-Process Use	. 8	(s)	6	1	8	(s)	23
End Use Not Reported	. 26	49	4	5	168	52	304
Total	. 2,850	251	129	79	5,512	1,016	9,838

¹ "Net Electricity" is the sum of purchases, transfers in, and onsite generation from noncombustible renewable energy sources, minus quantities sold and transferred out; it excludes onsite generation from combustible fuels.

Notes: • Data are estimates for the total consumption 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 end uses are made on the basis of reasonable approximations by respondents. • Totals may not equal sum of components due to independent rounding, the presence of estimates that round to zero, and the presence of estimates that are withheld because the relative standard error is greater than 50 percent.

Web Page: For related information, see http://www.eia.gov/emeu/mecs.

Source: U.S. Energy Information Administration, Form EIA-846, "2006 Manufacturing Energy Consumption Survey."

² Liquefied petroleum gases.

Natural gas liquids.

⁴ Excludes coal coke and breeze.

⁵ Total of listed energy sources. Excludes inputs of unallocated energy sources (5,820 trillion Btu).

⁶ Combined-heat-and-power plants.

⁷ Excludes steam and hot water.

⁻⁻ = Not applicable. (s)=Estimate less than 0.5. Q=Withheld because relative standard error is greater than 50 percent.