

Table 5.8 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Trillion Btu.

End Use	Net Demand for Electricity(a)	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel(b)	Natural Gas(c)	LPG and NGL(d)	Coal (excluding Coal Coke and Breeze)	RSE Row Factors
Total United States							
RSE Column Factors:	0.3	2.4	1.1	1.3	1	0	
TOTAL FUEL CONSUMPTION	3,297	208	141	5,794	103	1,182	3.3
Indirect Uses-Boiler Fuel	23	127	35	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	2,986	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	90	*	7	5.3
Direct Uses-Total Nonprocess	551	4	50	513	24	19	4.6
Facility HVAC (e)	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	132	6	6	8.7
Northeast Census Region							
RSE Column Factors:	0.2	2.7	1.2	1.8	0.6	0	
TOTAL FUEL CONSUMPTION	378	68	30	538	9	92	4.4
Indirect Uses-Boiler Fuel	2	44	9	188	*	37	5.8
Conventional Boiler Use	1	30	7	117	*	10	8.8
CHP and/or Cogeneration Process	1	15	2	71	0	27	2.6
Direct Uses-Total Process	276	14	11	242	4	47	6
Process Heating	43	14	9	226	4	47	7
Process Cooling and Refrigeration	26	*	*	5	*	0	4.3

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Machine Drive	182	*	2	7	1	0	8.8
Electro-Chemical Processes	21	--	--	--	--	--	1
Other Process Use	Q	*	*	4	*	0	9.1
Direct Uses-Total Nonprocess	84	3	7	81	4	8	4.7
Facility HVAC (e)	41	2	3	68	1	*	6.4
Facility Lighting	33	--	--	--	--	--	1.3
Other Facility Support	8	*	*	9	*	0	12.3
Onsite Transportation	1	--	2	*	2	--	3.5
Conventional Electricity Generation	--	*	1	3	*	8	2.1
Other Nonprocess Use	1	0	*	1	*	0	10.9
End Use Not Reported	18	6	3	27	1	*	7.6
Midwest Census Region							
RSE Column Factors:	0.2	2.3	1.3	1.8	0.8	0	
TOTAL FUEL CONSUMPTION	913	22	29	1,494	20	445	5.8
Indirect Uses-Boiler Fuel	6	16	3	416	2	319	8.2
Conventional Boiler Use	3	8	3	358	2	139	10.7
CHP and/or Cogeneration Process	3	8	*	58	*	180	4.9
Direct Uses-Total Process	720	5	12	813	8	121	5.2
Process Heating	122	5	8	770	7	114	5.9
Process Cooling and Refrigeration	55	0	*	3	*	0	5.3
Machine Drive	475	0	3	20	1	1	8.1
Electro-Chemical Processes	63	--	--	--	--	--	1
Other Process Use	5	*	1	19	*	7	5.1
Direct Uses-Total Nonprocess	161	*	13	218	8	2	7.5
Facility HVAC (e)	76	*	*	198	2	1	5.9
Facility Lighting	67	--	--	--	--	--	1.2
Other Facility Support	15	*	*	9	*	*	4.6
Onsite Transportation	2	--	9	*	6	--	5
Conventional Electricity Generation	--	*	*	6	*	1	4.4
Other Nonprocess Use	2	*	Q	5	*	0	12.4
End Use Not Reported	29	1	1	47	Q	2	13.8

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South Census Region							
RSE Column Factors:	0.3	3.3	1.2	1.5	1	0	
TOTAL FUEL CONSUMPTION	1,614	107	54	3,086	58	540	4.3
Indirect Uses-Boiler Fuel	14	59	21	1,308	3	386	7.4
Conventional Boiler Use	6	33	13	660	3	97	6.8
CHP and/or Cogeneration Process	7	26	8	647	*	289	2.4
Direct Uses-Total Process	1,328	37	9	1,583	44	144	3.5
Process Heating	157	35	5	1,412	43	139	3.8
Process Cooling and Refrigeration	107	*	*	36	*	*	3.4
Machine Drive	880	2	4	73	1	4	3.9
Electro-Chemical Processes	178	--	--	--	--	--	1
Other Process Use	5	*	*	62	*	1	4.2
Direct Uses-Total Nonprocess	234	Q	18	157	9	9	4.8
Facility HVAC (e)	126	Q	1	108	2	4	8
Facility Lighting	86	--	--	--	--	--	1.2
Other Facility Support	20	*	*	8	*	*	3.8
Onsite Transportation	2	--	16	1	7	--	3.5
Conventional Electricity Generation	--	0	1	35	*	5	1.3
Other Nonprocess Use	1	*	*	3	*	0	8.1
End Use Not Reported	46	10	7	38	3	Q	9.2
West Census Region							
RSE Column Factors:	0.3	3.4	1.9	1.6	0.4	0	
TOTAL FUEL CONSUMPTION	392	12	28	676	16	105	3.7
Indirect Uses-Boiler Fuel	1	8	2	250	4	33	3.5
Conventional Boiler Use	1	6	2	171	4	8	3.4
CHP and/or Cogeneration Process	*	2	*	80	*	25	1.1
Direct Uses-Total Process	301	4	11	348	8	69	3.7
Process Heating	32	4	2	334	6	69	3.6

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Process Cooling and Refrigeration	25	0	Q	1	*	0	4
Machine Drive	209	0	7	9	Q	0	5
Electro-Chemical Processes	32	--	--	--	--	--	1.1
Other Process Use	2	0	*	4	*	0	6
Direct Uses-Total Nonprocess	72	*	13	57	3	*	3.7
Facility HVAC (e)	37	0	*	42	*	*	5.5
Facility Lighting	26	--	--	--	--	--	1.2
Other Facility Support	8	*	*	3	*	0	4.1
Onsite Transportation	*	--	7	*	3	--	5.1
Conventional Electricity Generation	--	0	Q	11	*	*	1.5
Other Nonprocess Use	*	0	*	1	*	0	6.8
End Use Not Reported	19	1	2	20	1	3	9.9

(a) '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.

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

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

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

(e) 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.

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NA=Not available.

-- Estimation is not applicable.

S=Negative value.

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

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