

Table 5.5 End Uses of Fuel Consumption, 2002;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Electricity;
Unit: Physical Units or Btu.

End Use	Total (trillion Btu)	Net Electricity(a) (million kWh)	Residual Fuel Oil (million bbl)	Distillate Fuel Oil and Diesel Fuel(b) (million bbl)	Natural Gas(c) (billion cu ft)	LPG and NGL(d) (million bbl)	Coal (excluding Coal Coke and Breeze) (million short tons)	Other(e) (trillion Btu)	RSE Row Factors
Total United States									
RSE Column Factors:	1	1	2.4	1.1	1.4	1	0	0	
TOTAL FUEL CONSUMPTION	16,273	832,257	33	24	5,641	26	53	6,006	3.4
Indirect Uses-Boiler Fuel	--	3,540	20	6	2,105	2	35	--	5.3
Conventional Boiler Use	--	2,496	12	4	1,271	2	11	--	5.6
CHP and/or Cogeneration Process	--	1,043	8	2	834	*	23	--	3.8
Direct Uses-Total Process	--	650,100	10	7	2,907	16	17	--	2.9
Process Heating	--	100,541	9	4	2,670	15	17	--	3.3
Process Cooling and Refrigeration	--	56,723	*	*	44	*	*	--	3.8
Machine Drive	--	417,998	*	3	106	1	*	--	4.8
Electro-Chemical Processes	--	71,045	--	--	--	--	--	--	1
Other Process Use	--	3,793	*	*	87	*	*	--	5.3
Direct Uses-Total Nonprocess	--	150,530	1	9	500	6	1	--	4.6
Facility HVAC (f)	--	76,840	1	1	406	1	*	--	6.6
Facility Lighting	--	57,460	--	--	--	--	--	--	1.1
Other Facility Support	--	14,087	*	*	29	*	*	--	9.7
Onsite Transportation	--	1,212	--	6	2	5	--	--	3.1
Conventional Electricity Generation	--	--	*	Q	54	*	1	--	1.7
Other Nonprocess Use	--	931	*	Q	10	*	0	--	8.8
End Use Not Reported	6,276	28,087	3	2	129	2	*	6,006	8.3
Northeast Census Region									
RSE Column Factors:	1.3	1	2.7	1.2	1.8	0.6	0	0	
TOTAL FUEL CONSUMPTION	1,530	97,798	11	5	523	2	4	460	4.4
Indirect Uses-Boiler Fuel	--	244	7	2	183	*	2	--	5.6
Conventional Boiler Use	--	62	5	1	114	*	*	--	8.7
CHP and/or Cogeneration Process	--	181	2	*	70	0	1	--	2.6
Direct Uses-Total Process	--	70,513	2	2	236	1	2	--	6
Process Heating	--	12,020	2	2	220	1	2	--	7.1
Process Cooling and Refrigeration	--	6,864	*	*	5	*	0	--	4.3
Machine Drive	--	44,630	*	*	7	*	0	--	8.8
Electro-Chemical Processes	--	6,260	--	--	--	--	--	--	1
Other Process Use	--	Q	*	*	4	*	0	--	9.1
Direct Uses-Total Nonprocess	--	22,350	*	1	79	1	*	--	4.7
Facility HVAC (f)	--	11,241	*	1	66	*	*	--	6.4
Facility Lighting	--	8,831	--	--	--	--	--	--	1.3
Other Facility Support	--	2,119	*	*	9	*	0	--	12.2
Onsite Transportation	--	142	--	*	*	1	--	--	3.5

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Conventional Electricity Generation	--	--	*	*	2	*	*	--	2.1
Other Nonprocess Use	--	Q	0	*	1	*	0	--	10.9
End Use Not Reported	512	4,691	1	1	26	*	*	460	7.6
Midwest Census Region									
RSE Column Factors:	1.2	0.9	2.3	1.3	1.8	0.8	0	0	
TOTAL FUEL CONSUMPTION	4,209	251,584	3	5	1,455	5	20	1,340	5.8
Indirect Uses-Boiler Fuel	--	1,338	3	1	405	*	14	--	8.1
Conventional Boiler Use	--	944	1	1	348	*	6	--	10.7
CHP and/or Cogeneration Process	--	394	1	*	57	*	8	--	4.9
Direct Uses-Total Process	--	196,978	1	2	792	2	5	--	5.2
Process Heating	--	35,404	1	1	750	2	5	--	5.9
Process Cooling and Refrigeration	--	15,703	0	*	3	*	0	--	5.3
Machine Drive	--	126,268	0	*	20	*	*	--	8.1
Electro-Chemical Processes	--	18,306	--	--	--	--	--	--	1
Other Process Use	--	1,296	*	*	19	*	*	--	5.1
Direct Uses-Total Nonprocess	--	45,931	*	2	213	2	*	--	7.6
Facility HVAC (f)	--	21,653	*	*	193	*	*	--	5.9
Facility Lighting	--	19,073	--	--	--	--	--	--	1.2
Other Facility Support	--	4,268	*	*	8	*	*	--	4.6
Onsite Transportation	--	479	--	2	*	2	--	--	5
Conventional Electricity Generation	--	--	*	*	6	*	*	--	4.4
Other Nonprocess Use	--	457	*	Q	5	*	0	--	12.4
End Use Not Reported	1,418	7,337	*	*	46	Q	*	1,340	13.8
South Census Region									
RSE Column Factors:	0.9	0.6	3.2	1.2	1.5	1.1	0	0	
TOTAL FUEL CONSUMPTION	8,589	381,309	17	9	3,005	15	24	3,443	4.5
Indirect Uses-Boiler Fuel	--	1,843	9	3	1,273	1	17	--	6.9
Conventional Boiler Use	--	1,285	5	2	643	1	4	--	6.8
CHP and/or Cogeneration Process	--	558	4	1	630	*	13	--	2.4
Direct Uses-Total Process	--	305,991	6	2	1,542	11	6	--	3.5
Process Heating	--	43,974	6	1	1,375	10	6	--	3.8
Process Cooling and Refrigeration	--	27,435	*	*	35	*	*	--	3.4
Machine Drive	--	196,039	*	1	71	*	*	--	3.9
Electro-Chemical Processes	--	37,343	--	--	--	--	--	--	1
Other Process Use	--	1,200	*	*	60	*	*	--	4.2
Direct Uses-Total Nonprocess	--	62,347	*	3	153	2	*	--	4.7

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Facility HVAC (f)	--	33,686	*	*	106	*	*	--	8.1
Facility Lighting	--	22,460	--	--	--	--	--	--	1.2
Other Facility Support	--	5,325	*	*	8	*	*	--	3.8
Onsite Transportation	--	508	--	3	1	2	--	--	3.5
Conventional Electricity Generation	--	--	0	*	34	*	*	--	1.3
Other Nonprocess Use	--	369	*	*	3	*	0	--	8.1
End Use Not Reported	3,540	11,127	2	1	37	1	*	3,443	10.3
West Census Region									
RSE Column Factors:	1.4	0.5	3.4	1.9	1.6	0.4	0	0	
TOTAL FUEL CONSUMPTION	1,945	101,565	2	5	658	4	5	762	3.7
Indirect Uses-Boiler Fuel	--	114	1	*	244	1	2	--	3.5
Conventional Boiler Use	--	205	1	*	166	1	*	--	3.5
CHP and/or Cogeneration Process	--	-91	*	*	78	*	1	--	1.1
Direct Uses-Total Process	--	76,618	1	2	338	2	3	--	3.8
Process Heating	--	9,143	1	*	325	2	3	--	3.7
Process Cooling and Refrigeration	--	6,720	0	*	1	*	0	--	4
Machine Drive	--	51,061	0	1	9	*	0	--	5
Electro-Chemical Processes	--	9,137	--	--	--	--	--	--	1.1
Other Process Use	--	558	0	*	4	*	0	--	6
Direct Uses-Total Nonprocess	--	19,902	*	2	56	1	*	--	3.7
Facility HVAC (f)	--	10,260	0	*	41	*	*	--	5.5
Facility Lighting	--	7,096	--	--	--	--	--	--	1.2
Other Facility Support	--	2,376	*	*	3	*	0	--	4.1
Onsite Transportation	--	83	--	1	*	1	--	--	5.1
Conventional Electricity Generation	--	--	0	Q	10	*	*	--	1.5
Other Nonprocess Use	--	87	0	*	1	*	0	--	6.8
End Use Not Reported	806	4,931	*	*	20	*	*	762	9.8

(a) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

(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.

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

(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 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.'