

Table E6.3. End Uses of Fuel Consumption, 1998;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Demand for Electricity;
Unit: Physical Units or Btu.

End Use	Net Demand for 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)	RSE Row Factors
Total United States							
RSE Column Factors:	0.5	1.5	1.6	0.6	1.3	1.1	
Fuel Consumption	1,025,149	57	23	6,469	38	51	2.4
Indirect Uses - Boiler Fuel	8,600	39	6	2,471	7	35	2.7
Direct Uses - Total Process	826,408	16	6	3,272	22	15	3.4
Process Heating	106,330	15	3	3,104	19	15	4.0
Process Cooling and Refrigeration	61,263	*	*	21	1	*	5.9
Machine Drive	551,318	1	2	96	2	*	11.3
Electro-Chemical Processes	103,615	--	--	--	--	--	1.1
Other Process Use	3,882	*	1	51	*	*	3.9
Direct Uses - Total Nonprocess	169,347	1	9	656	8	1	3.0
Facility HVAC ^e	84,678	1	1	392	1	*	5.7
Facility Lighting	66,630	--	--	--	--	--	1.0
Other Facility Support	15,495	*	1	39	*	*	6.2
Onsite Transportation	1,427	--	6	5	7	--	2.2
Conventional Electricity Generation	--	*	1	204	*	1	3.9
Other Nonprocess Use	1,117	*	*	Q	*	0	12.8
End Use Not Reported	20,793	*	1	70	1	*	8.0
Northeast Census Region							
RSE Column Factors:	0.6	1.4	2.0	0.9	1.5	0.5	
Fuel Consumption	114,824	21	6	520	4	5	4.2
Indirect Uses - Boiler Fuel	957	16	2	191	*	2	6.3
Direct Uses - Total Process	85,575	4	2	249	2	2	6.6
Process Heating	14,427	4	1	235	2	2	7.3
Process Cooling and Refrigeration	6,696	*	*	1	*	0	9.9
Machine Drive	57,198	1	*	11	*	*	8.1
Electro-Chemical Processes	6,905	--	--	--	--	--	1.0
Other Process Use	349	*	*	3	*	0	17.0
Direct Uses - Total Nonprocess	25,028	1	2	71	1	*	5.3
Facility HVAC ^e	11,852	*	1	57	*	*	7.2
Facility Lighting	10,361	--	--	--	--	--	1.2
Other Facility Support	2,313	*	*	4	*	0	12.0
Onsite Transportation	202	--	1	*	1	--	5.6
Conventional Electricity Generation	--	*	*	10	*	*	7.1
Other Nonprocess Use	299	*	*	1	*	0	25.9
End Use Not Reported	3,264	*	*	8	*	*	17.5
Midwest Census Region							
RSE Column Factors:	0.6	0.6	2.6	0.7	1.2	1.3	
Fuel Consumption	289,975	11	3	1,599	6	19	3.5
Indirect Uses - Boiler Fuel	2,462	7	1	520	*	13	4.9
Direct Uses - Total Process	231,227	4	1	832	2	6	4.4
Process Heating	34,835	4	1	792	2	6	5.7
Process Cooling and Refrigeration	15,423	0	*	3	*	*	8.6
Machine Drive	161,378	*	*	24	*	0	4.7
Electro-Chemical Processes	18,328	--	--	--	--	--	1.0
Other Process Use	1,264	*	*	13	*	0	4.6
Direct Uses - Total Nonprocess	50,198	*	1	225	3	*	2.9
Facility HVAC ^e	23,409	*	*	197	*	*	5.3
Facility Lighting	21,547	--	--	--	--	--	1.1
Other Facility Support	4,417	*	*	13	*	*	8.1
Onsite Transportation	525	--	1	*	2	--	2.4
Conventional Electricity Generation	--	*	*	12	*	*	3.6

**Table E6.3.
(Continued)**

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End Use	Net Demand for 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)	RSE Row Factors
Other Nonprocess Use	300	0	*	2	*	0	5.2
End Use Not Reported	6,089	0	*	22	*	*	12.9

See footnotes at end of table.

South Census Region

RSE Column Factors:	0.8	0.9	2.0	0.8	1.5	0.5	
Fuel Consumption	473,528	20	11	3,567	21	21	2.0
Indirect Uses - Boiler Fuel	4,038	14	4	1,436	5	16	2.0
Direct Uses - Total Process	390,272	5	3	1,825	13	5	3.6
Process Heating	42,836	5	1	1,730	13	5	4.3
Process Cooling and Refrigeration	31,121	0	*	15	*	*	1.7
Machine Drive	264,688	*	1	46	*	*	3.9
Electro-Chemical Processes	50,448	--	--	--	--	--	1.2
Other Process Use	1,178	*	*	34	*	0	4.0
Direct Uses - Total Nonprocess	71,181	*	4	277	3	1	3.6
Facility HVAC ^e	38,179	*	*	98	*	*	7.5
Facility Lighting	25,623	--	--	--	--	--	1.0
Other Facility Support	6,390	*	1	15	*	0	3.6
Onsite Transportation	548	--	3	4	2	--	3.0
Conventional Electricity Generation	--	*	*	148	*	1	3.0
Other Nonprocess Use	441	*	*	Q	*	0	8.0
End Use Not Reported	8,037	*	*	29	*	*	5.3

West Census Region

RSE Column Factors:	0.6	1.4	1.4	1.0	1.5	0.6	
Fuel Consumption	146,822	5	3	783	7	7	6.3
Indirect Uses - Boiler Fuel	1,144	2	*	324	2	4	7.9
Direct Uses - Total Process	119,334	2	1	366	4	3	7.0
Process Heating	14,232	2	*	347	3	3	7.3
Process Cooling and Refrigeration	8,023	*	*	3	*	0	8.9
Machine Drive	68,053	*	*	15	Q	*	7.0
Electro-Chemical Processes	27,934	--	--	--	--	--	1.0
Other Process Use	1,091	0	*	1	*	*	9.8
Direct Uses - Total Nonprocess	22,940	*	2	83	1	*	4.7
Facility HVAC ^e	11,238	*	*	41	*	0	7.6
Facility Lighting	9,099	--	--	--	--	--	1.2
Other Facility Support	2,375	*	*	7	*	0	8.7
Onsite Transportation	152	--	1	*	1	--	4.0
Conventional Electricity Generation	--	*	*	34	*	*	2.8
Other Nonprocess Use	77	0	*	*	*	0	10.8
End Use Not Reported	3,404	0	*	11	*	*	6.7

^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.

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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: C To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. C Totals may not equal sum of components because of independent rounding. C 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. C 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, "1998 Manufacturing Energy Consumption Survey."