

Released: March 2010

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Table 5.8 End Uses of Fuel Consumption, 2006;

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)
Total United States						
TOTAL FUEL CONSUMPTION	3,335	251	129	5,512	79	1,016
Indirect Uses-Boiler Fuel	84	133	23	2,119	8	547
Conventional Boiler Use	84	71	17	1,281	8	129
CHP and/or Cogeneration Process	0	62	6	838	1	417
Direct Uses-Total Process	2,639	62	52	2,788	39	412
Process Heating	379	59	19	2,487	32	345
Process Cooling and Refrigeration	226	*	1	32	*	*
Machine Drive	1,731	2	24	129	2	56
Electro-Chemical Processes	255	--	--	--	--	--
Other Process Use	48	Q	8	140	5	10
Direct Uses-Total Nonprocess	582	6	50	438	27	6
Facility HVAC (f)	285	4	4	378	5	2
Facility Lighting	215	--	--	--	--	--
Other Facility Support	65	1	*	30	*	*
Onsite Transportation	8	--	35	3	20	--
Conventional Electricity Generation	--	*	4	19	*	3
Other Nonprocess Use	9	*	6	8	1	*
End Use Not Reported	29	49	4	168	5	52
Northeast Census Region						
TOTAL FUEL CONSUMPTION	350	64	24	494	13	76
Indirect Uses-Boiler Fuel	7	43	5	172	1	32
Conventional Boiler Use	7	26	4	108	1	5
CHP and/or Cogeneration Process	0	17	1	64	*	27
Direct Uses-Total Process	262	17	10	242	8	40
Process Heating	53	17	4	230	7	40
Process Cooling and Refrigeration	21	*	*	*	0	0
Machine Drive	160	*	6	5	*	0
Electro-Chemical Processes	22	--	--	--	--	--
Other Process Use	6	*	*	7	1	0
Direct Uses-Total Nonprocess	74	4	8	61	4	3
Facility HVAC (f)	38	3	3	57	1	*
Facility Lighting	29	--	--	--	--	--
Other Facility Support	7	1	*	2	*	0

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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)
Onsite Transportation	1	--	4	Q	2	--
Conventional Electricity Generation	--	*	Q	*	*	3
Other Nonprocess Use	3	0	Q	*	*	0
End Use Not Reported	6	*	*	19	Q	1
Midwest Census Region						
TOTAL FUEL CONSUMPTION	993	37	26	1,582	21	404
Indirect Uses-Boiler Fuel	11	20	1	482	2	216
Conventional Boiler Use	11	14	1	416	2	56
CHP and/or Cogeneration Process	0	6	*	66	*	160
Direct Uses-Total Process	783	13	Q	852	8	167
Process Heating	133	13	1	770	4	106
Process Cooling and Refrigeration	70	0	*	6	0	0
Machine Drive	530	*	Q	16	*	52
Electro-Chemical Processes	37	--	--	--	--	--
Other Process Use	13	0	Q	Q	4	9
Direct Uses-Total Nonprocess	193	Q	12	214	9	2
Facility HVAC (f)	90	Q	*	197	1	1
Facility Lighting	78	--	--	--	--	--
Other Facility Support	22	*	*	15	*	0
Onsite Transportation	3	--	9	*	7	--
Conventional Electricity Generation	--	0	Q	*	*	0
Other Nonprocess Use	1	*	2	1	1	*
End Use Not Reported	6	4	1	33	1	20
South Census Region						
TOTAL FUEL CONSUMPTION	1,598	131	48	2,788	27	410
Indirect Uses-Boiler Fuel	61	64	11	1,216	3	243
Conventional Boiler Use	61	26	7	588	3	63
CHP and/or Cogeneration Process	0	38	3	628	*	179
Direct Uses-Total Process	1,281	24	18	1,348	12	135
Process Heating	156	21	9	1,181	10	131
Process Cooling and Refrigeration	107	*	*	22	*	*
Machine Drive	830	1	5	98	1	3
Electro-Chemical Processes	168	--	--	--	--	--

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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)
Other Process Use	20	Q	4	46	*	1
Direct Uses-Total Nonprocess	235	1	16	122	10	1
Facility HVAC (f)	121	Q	1	87	2	1
Facility Lighting	82	--	--	--	--	--
Other Facility Support	28	*	*	10	*	*
Onsite Transportation	4	--	13	Q	8	--
Conventional Electricity Generation	--	*	*	17	*	*
Other Nonprocess Use	4	*	2	6	*	*
End Use Not Reported	21	42	2	102	2	32
West Census Region						
TOTAL FUEL CONSUMPTION	394	18	32	649	19	126
Indirect Uses-Boiler Fuel	5	6	6	249	3	56
Conventional Boiler Use	5	4	4	169	2	5
CHP and/or Cogeneration Process	0	2	2	80	1	51
Direct Uses-Total Process	312	8	12	346	11	70
Process Heating	37	8	Q	306	11	69
Process Cooling and Refrigeration	28	0	*	3	*	0
Machine Drive	210	0	6	10	*	2
Electro-Chemical Processes	28	--	--	--	--	--
Other Process Use	9	*	1	27	*	0
Direct Uses-Total Nonprocess	71	0	13	41	4	*
Facility HVAC (f)	36	0	*	36	1	*
Facility Lighting	25	--	--	--	--	--
Other Facility Support	9	0	*	3	*	0
Onsite Transportation	1	--	8	*	3	--
Conventional Electricity Generation	--	0	2	2	*	0
Other Nonprocess Use	2	0	Q	*	*	0
End Use Not Reported	6	3	1	14	*	0

(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

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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.

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, '2006 Manufacturing Energy Consumption Survey.'