

**Table 5.8 End Uses of Fuel Consumption, 2010;****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)
<b>Total United States</b>						
<b>TOTAL FUEL CONSUMPTION</b>	2,886	79	130	5,211	69	868
<b>Indirect Uses-Boiler Fuel</b>	44	46	19	2,134	10	572
Conventional Boiler Use	44	20	4	733	3	72
CHP and/or Cogeneration Process	--	26	15	1,401	7	500
<b>Direct Uses-Total Process</b>	2,304	26	54	2,623	29	289
Process Heating	318	25	14	2,362	24	280
Process Cooling and Refrigeration	208	*	Q	25	*	0
Machine Drive	1,454	*	28	120	3	1
Electro-Chemical Processes	263	--	--	--	--	--
Other Process Use	60	*	10	117	1	8
<b>Direct Uses-Total Nonprocess</b>	479	3	52	368	26	6
Facility HVAC (f)	236	Q	4	306	4	3
Facility Lighting	177	--	--	--	--	--
Other Facility Support	51	*	1	36	3	*
Onsite Transportation	5	--	39	1	17	--
Conventional Electricity Generation	--	1	3	19	*	1
Other Nonprocess Use	10	*	4	7	1	1
<b>End Use Not Reported</b>	59	5	5	86	4	1
<b>Northeast Census Region</b>						
<b>TOTAL FUEL CONSUMPTION</b>	293	30	25	439	14	71
<b>Indirect Uses-Boiler Fuel</b>	4	17	9	189	5	42
Conventional Boiler Use	4	10	2	67	*	2
CHP and/or Cogeneration Process	--	8	7	123	5	40
<b>Direct Uses-Total Process</b>	219	9	7	198	7	29
Process Heating	38	9	3	184	7	29
Process Cooling and Refrigeration	20	*	*	8	*	0
Machine Drive	139	*	2	5	*	0
Electro-Chemical Processes	19	--	--	--	--	--
Other Process Use	4	*	2	2	*	*
<b>Direct Uses-Total Nonprocess</b>	60	Q	9	48	2	Q
Facility HVAC (f)	29	Q	3	45	1	Q

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<b>End Use</b>	<b>Net Demand for Electricity(a)</b>	<b>Residual Fuel Oil</b>	<b>Distillate Fuel Oil and Diesel Fuel(b)</b>	<b>Natural Gas(c)</b>	<b>LPG and NGL(d)</b>	<b>Coal (excluding Coal Coke and Breeze)</b>
Facility Lighting	22	--	--	--	--	--
Other Facility Support	6	*	*	3	*	0
Onsite Transportation	1	--	5	*	2	--
Conventional Electricity Generation	--	1	Q	*	*	0
Other Nonprocess Use	2	*	*	*	*	0
<b>End Use Not Reported</b>	<b>9</b>	<b>1</b>	<b>*</b>	<b>3</b>	<b>*</b>	<b>0</b>
<b>Midwest Census Region</b>						
<b>TOTAL FUEL CONSUMPTION</b>	<b>827</b>	<b>5</b>	<b>21</b>	<b>1,434</b>	<b>17</b>	<b>352</b>
<b>Indirect Uses-Boiler Fuel</b>	<b>11</b>	<b>3</b>	<b>1</b>	<b>491</b>	<b>1</b>	<b>243</b>
Conventional Boiler Use	11	2	*	238	1	38
CHP and/or Cogeneration Process	--	2	1	253	*	205
<b>Direct Uses-Total Process</b>	<b>655</b>	<b>1</b>	<b>9</b>	<b>749</b>	<b>4</b>	<b>105</b>
Process Heating	115	1	1	701	2	102
Process Cooling and Refrigeration	67	0	*	5	*	0
Machine Drive	395	0	3	12	1	1
Electro-Chemical Processes	64	--	--	--	--	--
Other Process Use	14	0	5	32	*	2
<b>Direct Uses-Total Nonprocess</b>	<b>150</b>	<b>*</b>	<b>9</b>	<b>170</b>	<b>11</b>	<b>4</b>
Facility HVAC (f)	68	*	*	156	1	2
Facility Lighting	61	--	--	--	--	--
Other Facility Support	16	0	*	12	Q	*
Onsite Transportation	2	--	8	*	7	--
Conventional Electricity Generation	--	0	*	*	*	1
Other Nonprocess Use	2	*	1	2	*	1
<b>End Use Not Reported</b>	<b>12</b>	<b>1</b>	<b>1</b>	<b>Q</b>	<b>1</b>	<b>0</b>
<b>South Census Region</b>						
<b>TOTAL FUEL CONSUMPTION</b>	<b>1,392</b>	<b>36</b>	<b>47</b>	<b>2,724</b>	<b>20</b>	<b>311</b>
<b>Indirect Uses-Boiler Fuel</b>	<b>24</b>	<b>22</b>	<b>7</b>	<b>1,195</b>	<b>2</b>	<b>213</b>
Conventional Boiler Use	24	7	1	322	1	32
CHP and/or Cogeneration Process	--	15	6	874	1	181
<b>Direct Uses-Total Process</b>	<b>1,142</b>	<b>12</b>	<b>18</b>	<b>1,369</b>	<b>7</b>	<b>97</b>

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Next MECS will be fielded in 2015

**Table 5.8 End Uses of Fuel Consumption, 2010;****Level: National and Regional Data;****Row: End Uses;****Column: Energy Sources, including Net Demand for Electricity;****Unit: Trillion Btu.**

<b>End Use</b>	<b>Net Demand for Electricity(a)</b>	<b>Residual Fuel Oil</b>	<b>Distillate Fuel Oil and Diesel Fuel(b)</b>	<b>Natural Gas(c)</b>	<b>LPG and NGL(d)</b>	<b>Coal (excluding Coal Coke and Breeze)</b>
Process Heating	132	12	6	1,203	6	96
Process Cooling and Refrigeration	96	0	*	11	*	0
Machine Drive	738	*	10	94	1	*
Electro-Chemical Processes	149	--	--	--	--	--
Other Process Use	27	0	Q	60	1	1
<b>Direct Uses-Total Nonprocess</b>	<b>196</b>	<b>*</b>	<b>21</b>	<b>109</b>	<b>8</b>	<b>*</b>
Facility HVAC (f)	99	*	1	73	1	*
Facility Lighting	70	--	--	--	--	--
Other Facility Support	20	*	*	14	*	*
Onsite Transportation	2	--	18	*	6	--
Conventional Electricity Generation	--	*	*	18	*	*
Other Nonprocess Use	5	0	1	4	*	*
<b>End Use Not Reported</b>	<b>30</b>	<b>2</b>	<b>1</b>	<b>51</b>	<b>3</b>	<b>1</b>
<b>West Census Region</b>						
<b>TOTAL FUEL CONSUMPTION</b>	<b>374</b>	<b>7</b>	<b>36</b>	<b>614</b>	<b>17</b>	<b>134</b>
<b>Indirect Uses-Boiler Fuel</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>259</b>	<b>2</b>	<b>75</b>
Conventional Boiler Use	5	2	*	106	1	1
CHP and/or Cogeneration Process	--	2	2	153	2	74
<b>Direct Uses-Total Process</b>	<b>288</b>	<b>4</b>	<b>19</b>	<b>306</b>	<b>11</b>	<b>58</b>
Process Heating	33	4	Q	275	10	53
Process Cooling and Refrigeration	25	0	Q	1	*	0
Machine Drive	182	*	Q	9	Q	0
Electro-Chemical Processes	31	--	--	--	--	--
Other Process Use	16	0	*	22	*	5
<b>Direct Uses-Total Nonprocess</b>	<b>74</b>	<b>*</b>	<b>13</b>	<b>41</b>	<b>4</b>	<b>Q</b>
Facility HVAC (f)	39	*	*	32	1	Q
Facility Lighting	24	--	--	--	--	--
Other Facility Support	8	*	*	8	*	0
Onsite Transportation	1	--	9	*	3	--
Conventional Electricity Generation	--	*	2	1	*	0
Other Nonprocess Use	2	0	Q	1	*	0
<b>End Use Not Reported</b>	<b>8</b>	<b>*</b>	<b>2</b>	<b>8</b>	<b>*</b>	<b>0</b>

**Table 5.8 End Uses of Fuel Consumption, 2010;****Level: National and Regional Data;****Row: End Uses;****Column: Energy Sources, including Net Demand for Electricity;****Unit: Trillion Btu.**

<b>End Use</b>	<b>Net Demand for Electricity(a)</b>	<b>Residual Fuel Oil</b>	<b>Distillate Fuel Oil and Diesel Fuel(b)</b>	<b>Natural Gas(c)</b>	<b>LPG and NGL(d)</b>	<b>Coal (excluding Coal Coke and Breeze)</b>
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(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.

NA=Not available.

-- Estimation is not applicable.

S=Negative value.

Notes: 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: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2010 Manufacturing Energy Consumption Survey.'

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