



Nuclear Regulatory Commission  
Exhibit # - NRC000056-00-BD01  
Docket # - 052000121 05200013  
Identified: 08/18/2011

Admitted: 08/18/2011  
Rejected:

Withdrawn:  
Stricken:

Released: March 2010

Next IECS will be conducted in 2010

**Table 5.5 End Uses of Fuel Consumption, 2006:**

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)
<b>Total United States</b>								
<b>TOTAL FUEL CONSUMPTION</b>	15,658	835,382						5,820
<b>Indirect Uses-Boiler Fuel</b>	--	12,109						--
Conventional Boiler Use		12,109						
CHP and/or Cogeneration Process		0						
<b>Direct Uses-Total Process</b>	--	657,810						--
Process Heating		101,516						
Process Cooling and Refrigeration		60,381						
Machine Drive		422,408						
Electro-Chemical Processes		60,323						
Other Process Use		13,181						
<b>Direct Uses-Total Nonprocess</b>	--	157,829						--
Facility HVAC (f)		77,768						
Facility Lighting		58,013						
Other Facility Support		17,644						
Onsite Transportation		2,197						
Conventional Electricity Generation		--						
Other Nonprocess Use		2,208						
<b>End Use Not Reported</b>	6,125	7,634						5,820
<b>Northeast Census Region</b>								
<b>TOTAL FUEL CONSUMPTION</b>	1,365	89,696						389
<b>Indirect Uses-Boiler Fuel</b>	--	687						--
Conventional Boiler Use		687						
CHP and/or Cogeneration Process		0						
<b>Direct Uses-Total Process</b>	--	67,672						--
Process Heating		14,666						
Process Cooling and Refrigeration		5,877						
Machine Drive		38,962						
Electro-Chemical Processes		6,558						
Other Process Use		1,609						
<b>Direct Uses-Total Nonprocess</b>	--	20,400						--
Facility HVAC (f)		9,988						
Facility Lighting		7,651						
Other Facility Support		1,905						
Onsite Transportation		155						
Conventional Electricity Generation		--						
Other Nonprocess Use		701						
<b>End Use Not Reported</b>	413	937						389
<b>Midwest Census Region</b>								
<b>TOTAL FUEL CONSUMPTION</b>	4,144	273,604						1,142
<b>Indirect Uses-Boiler Fuel</b>	--	2,607						--
Conventional Boiler Use		2,607						
CHP and/or Cogeneration Process		0						
<b>Direct Uses-Total Process</b>	--	214,111						--

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**Table 5.5 End Uses of Fuel Consumption, 2006;****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)
Process Heating	--	37,139	2	*	748	1	5	--
Process Cooling and Refrigeration	--	19,806	0	*	6	0	0	--
Machine Drive	--	142,735	*	Q	16	*	2	--
Electro-Chemical Processes	--	10,745	--	--	--	--	--	--
Other Process Use	--	3,685	0	Q	Q	1	*	--
<b>Direct Uses-Total Nonprocess</b>	--	55,378	*	2	208	2	*	--
Facility HVAC (f)	--	25,800	*	*	192	*	*	--
Facility Lighting	--	22,230	--	--	--	--	--	--
Other Facility Support	--	6,189	*	*	15	*	0	--
Onsite Transportation	--	848	--	2	*	2	--	--
Conventional Electricity Generation	--	--	0	*	*	*	0	--
Other Nonprocess Use	--	311	*	*	1	*	*	--
<b>End Use Not Reported</b>	1,206	1,509	1	*	32	*	1	1,142
<b>South Census Region</b>								
<b>TOTAL FUEL CONSUMPTION</b>	8,219	371,230	21	8	2,709	7	18	3,549
<b>Indirect Uses-Boiler Fuel</b>	--	7,872	10	2	1,182	1	11	--
Conventional Boiler Use	--	7,872	4	1	571	1	3	--
CHP and/or Cogeneration Process	--	0	6	1	611	*	8	--
<b>Direct Uses-Total Process</b>	--	296,649	4	3	1,310	3	6	--
Process Heating	--	39,715	3	2	1,148	3	6	--
Process Cooling and Refrigeration	--	27,075	*	*	22	*	*	--
Machine Drive	--	188,923	*	1	95	*	*	--
Electro-Chemical Processes	--	35,706	--	--	--	--	--	--
Other Process Use	--	5,229	*	1	45	*	*	--
<b>Direct Uses-Total Nonprocess</b>	--	62,407	*	3	118	3	*	--
Facility HVAC (f)	--	31,990	*	*	85	*	*	--
Facility Lighting	--	21,314	--	--	--	--	--	--
Other Facility Support	--	7,043	*	*	10	*	*	--
Onsite Transportation	--	1,043	--	2	Q	2	--	--
Conventional Electricity Generation	--	--	*	*	16	*	*	--
Other Nonprocess Use	--	1,018	*	*	6	*	*	--
<b>End Use Not Reported</b>	3,744	4,302	7	*	100	1	1	3,549
<b>West Census Region</b>								
<b>TOTAL FUEL CONSUMPTION</b>	1,945	100,852	3	5	631	5	6	757
<b>Indirect Uses-Boiler Fuel</b>	--	943	1	1	242	1	3	--
Conventional Boiler Use	--	943	1	1	164	1	*	--
CHP and/or Cogeneration Process	--	0	*	*	78	*	2	--
<b>Direct Uses-Total Process</b>	--	79,378	1	2	336	3	3	--
Process Heating	--	9,996	1	Q	297	3	3	--
Process Cooling and Refrigeration	--	7,623	0	*	2	*	0	--
Machine Drive	--	51,788	0	1	10	*	*	--
Electro-Chemical Processes	--	7,313	--	--	--	--	--	--
Other Process Use	--	2,658	*	*	27	*	0	--
<b>Direct Uses-Total Nonprocess</b>	--	19,644	0	2	40	1	*	--
Facility HVAC (f)	--	9,989	0	*	35	*	*	--
Facility Lighting	--	6,818	--	--	--	--	--	--

**Table 5.5 End Uses of Fuel Consumption, 2006;****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)
Other Facility Support	--	2,508	0	*	3	*	0	--
Onsite Transportation	--	151	--	1	*	1	--	--
Conventional Electricity Generation	--	--	0	*	2	*	0	--
Other Nonprocess Use	--	Q	0	*	*	*	0	--
<b>End Use Not Reported</b>	<b>778</b>	<b>886</b>	<b>1</b>	<b>*</b>	<b>14</b>	<b>*</b>	<b>0</b>	<b>757</b>

(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.

(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, '2006 Manufacturing Energy Consumption Survey.'