1.1.4 2006 U.S. Buildings Energy End-Use Splits, by Fuel Type (Quadrillion Btu)

	Natural Gas	Fuel Oil (1)	LPG	Other Fuel(2)	Renw. En.(3)	*Site* Electric	*Site* Total	*Site* Percent	Primary Electric (4)	Primary Total	Primary Percent
Space Heating (5)	4.31	0.84	0.23	0.18	0.41	0.53	6.50	34.1%	1.69	7.66	19.8%
Lighting						2.16	2.16	11.3%	6.86	6.86	17.7%
Space Cooling	0.02					1.54	1.56	8.2%	4.89	4.91	12.7%
Water Heating	1.63	0.15	0.06		0.04	0.58	2.45	12.9%	1.85	3.72	9.6%
Electronics (6)						0.96	0.96	5.0%	3.04	3.04	7.8%
Refrigeration (7)						0.70	0.70	3.7%	2.23	2.23	5.8%
Cooking	0.45		0.03			0.27	0.75	3.9%	0.85	1.33	3.4%
Wet Clean (8)	0.07					0.38	0.46	2.4%	1.22	1.30	3.3%
Ventilation (9)						0.35	0.35	1.8%	1.10	1.10	2.8%
Computers						0.28	0.28	1.5%	0.89	0.89	2.3%
Other (10)	0.27	0.02	0.23	0.05	0.13	0.82	1.52	8.0%	2.60	3.30	8.5%
Adjust to SEDS (11)	0.67	0.23				0.48	1.37	7.2%	1.54	2.43	6.3%
Total	**7.42**	**1.24**	**0.55**	**0.23**	**0.58**	**9.05**	**19.06**	100%	**28.75**	**38.77**	100%

Note(s): 1) Includes distillate fuel oil (1.12 quad) and residual fuel oil (0.9 quad). 2) Kerosene (0.12 quad) and coal (0.09 quad) are assumed attributable to space heating. Motor gasoline (0.05 quad) assumed attributable to other end-uses. 3) Comprised of wood space heating (0.41 quad), biomass (0.13 quad), solar water heating (0.03 quad), geothermal space heating (less than 0.01 quad), and solar photovoltaics (PV) less than 0.01 quad). 4) *Site* -to-source electricity conversion (due to generation and transmission losses) = 3.18. 5) Includes furnace fans (0.21 quad). 6) Includes color television (1.05 quad) and other office equipment (0.64 quad). 7) Includes refrigerators (1.24 quad) and freezers (0.49 quad). Includes commercial refrigeration. 9) Includes clothes washers (0.11 quad), natural gas clothes dryers (0.07 quad), electric clothes dryers (0.81 quad) and dishwashers (0.3 quad). Does not include water heating energy. 8) Commercial only; residential fan and pump energy use included proportionately in space heating and cooling. 10) Includes residential small electric devices, heating elements, motors, swimming pool heaters, hot tub heaters, outdoor grills, and natural gas outdoor lighting. Includes commercial service station equipment, ATMs, telecommunications equipment, medical equipment, pumps, emergency electric generators, combined heat and power in commercial buildings, and manufacturing performed in commercial buildings. 11) Energy adjustment EIA uses to relieve discrepancies between data sources. Energy attributable to the residential and commercial buildings sector, but not directly to specific end-uses.

Source(s): EIA, Annual Energy Outlook 2008, Mar. 2008, Tables A2, p. 117-119, Table A4, p. 122-123, Table A5, p. 124-125, and Table A17, p. 143-144; EIA, National Energy Modeling System (NEMS) for AEO 2008, Mar. 2008; BTS/A.D. Little, Electricity Consumption by Small End-Uses in Residential Buildings, Aug. 1998, Appendix A for residential electric end-uses; BTS/A.D. Little, Energy Consumption Characteristics of Commercial Building HVAC Systems, Volume II: Thermal Distribution, Auxiliary Equipment, and Ventilation, Oct. 1999, p. 1-2 and 5-25 - 5-26; EIA, Annual Energy Outlook 1998, Dec. 1997, Table A5, p. 108-109 for 1995 ventilation; BTP/Navigant Consulting, U.S. Lighting Market Characterization, Volume I, Sept. 2002, Table 8-2, p. 63; and EIA, Supplement to the AEO 2008, April 2008, Table 22.