

2.4.3 2010 Residential Buildings Energy End-Use Carbon Dioxide Emissions Splits, by Fuel Type (Million Metric Tons) (1)

	Natural	Petroleum				Coal	Electricity (3)	Total	Percent	
	Gas	Distil.	Resid.	LPG	Oth(2)					Total
Space Heating (4)	185.5	38.8		18.7	2.2	59.7	0.7	77.6	323.5	26.3%
Space Cooling	0.0							210.2	210.2	17.1%
Water Heating	68.7	7.1		4.6		11.7		90.4	170.8	13.9%
Lighting								126.0	126.0	10.2%
Electronics (5)								96.5	96.5	7.8%
Refrigeration (6)								80.7	80.7	6.6%
Wet Cleaning (7)	2.9							57.8	60.8	4.9%
Cooking	11.4			1.9		1.9		42.6	55.9	4.5%
Computers								30.5	30.5	2.5%
Other (8)				10.2		10.2		36.3	46.5	3.8%
Adjust to SEDS (9)								30.1	30.1	2.4%
Total	268.5	45.9		35.3	2.2	83.5	0.7	878.7	1,231.4	100%

Note(s): 1) Emissions assume complete combustion from energy consumption, excluding gas flaring, coal mining, and cement production. Emissions exclude wood since it is assumed that the carbon released from combustion is reabsorbed in a future carbon cycle. Carbon emissions calculated from EIA, Assumptions to the AEO 2011. 2) Includes kerosene space heating (2.2 MMT). 3) Excludes electric imports by utilities. 4) Includes residential furnace fans (23.9 MMT). 5) Includes color television (58.2 MMT) and other office equipment (30.5 MMT). 6) Includes refrigerators (66.1 MMT) and freezers (14.6 MMT). 7) Includes clothes washers (5.8 MMT), natural gas clothes dryers (2.9 MMT), electric clothes dryers (34.3 MMT), and dishwashers (17.8 MMT). Does not include water heating energy. 8) Includes residential small electric devices, heating elements, motors, swimming pool heaters, hot tub heaters, outdoor grills, and natural gas outdoor lighting. 9) Emissions related to a discrepancy between data sources and that results from energy attributable to the buildings sector, but not directly to specific end-uses.

Source(s): EIA, Annual Energy Outlook 2012 Early Release, Jan. 2012, Table A2, p. 3-5, Table A4, p. 9-10 and Table A5, p. 11-12 for energy consumption, and Table A18, p. 36 for emissions; EIA, Assumptions to the AEO 2011, July 2011, Table 1.2, p. 14 for emission coefficients; BTS/A.D. Little, Electricity Consumption by Small End-Uses in Residential Buildings, Aug. 1998, Appendix A for residential electric end-uses; EIA, AEO 1999, Dec. 1998, Table A4, p. 118-119.