

1.4.5 2035 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)	257.1	29.5	6.6	14.1	1.9	52.1	6.0	102.1	417.3	17.4%
Space Cooling	1.7							278.5	280.3	11.7%
Lighting								253.9	253.9	10.6%
Water Heating	96.0	5.1		2.1		7.3		98.1	201.4	8.4%
Electronics (5)								140.4	140.4	5.9%
Refrigeration (6)								137.1	137.1	5.7%
Ventilation (7)								100.7	100.7	4.2%
Computers								75.5	75.5	3.1%
Wet Cleaning (8)	3.5							50.0	53.4	2.2%
Cooking	24.1			1.5		1.5		26.5	52.2	2.2%
Other (9)	42.8	1.0		23.9	4.2	29.0		456.9	528.7	22.1%
Adjust to SEDS (10)	21.3	13.1				13.1		120.5	154.9	6.5%
Total	446.5	48.7	6.6	41.6	6.0	103.0	6.0	1840.3	2395.8	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. 2) Includes kerosene space heating (1.9 MMT) and motor gasoline other uses (4.2 MMT). 3) Excludes electric imports by utilities. 4) Includes residential furnace fans (23.1 MMT). 5) Includes color television (68.1 MMT) and other office equipment (72.3 MMT). 6) Includes refrigerators (123.2 MMT) and freezers (13.9 MMT). 7) Commercial only; residential fan and pump energy use included proportionately in space heating and cooling. 8) Includes clothes washers (3.8 MMT), natural gas clothes dryers (3.5 MMT), electric clothes dryers (28.8 MMT), and dishwashers (17.4 MMT). Does not include water heating energy. 9) 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, and manufacturing performed in commercial buildings. 10) 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, Summary Reference Case Tables, 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, National Energy Modeling System (NEMS) for AEO 2012 Early Release, Jan. 2012; EIA, Assumptions to the Annual Energy Outlook 2011, July 2011, Table 1.2, p. 14 for carbon coefficients.