

3.1.3 2002 Residential Energy End-Use Carbon Dioxide Emissions Splits, by Fuel Type
(10⁶ metric tons of carbon equivalent) (1)

	Natural	Petroleum				Coal	Electricity (2)	Total	Percent
	Gas	Distil.	LPG	Kerosene	Total				
Space Heating (3)	50.9	15.2	5.1	1.3	21.6	0.3	24.6	97.4	30.1%
Space Cooling	0.0						41.4	41.4	12.8%
Water Heating	16.5	2.4	0.8		3.3		21.1	40.8	12.6%
Lighting							39.5	39.5	12.2%
Refrigeration (4)							28.7	28.7	8.9%
Electronics (5)							16.0	16.0	5.0%
Wet Clean (6)	1.0						15.1	16.1	5.0%
Cooking	3.0		0.5		0.5		11.3	14.8	4.6%
Computers							3.3	3.3	1.0%
Other (7)	1.4	0.0	2.5		2.5		9.2	13.1	4.1%
Adjust to SEDS (8)							12.6	12.6	3.9%
Total	72.9	17.6	9.0	1.3	27.9	0.3	222.7	323.8	100%

Note(s): 1) Excludes emissions of buildings-related energy consumption in the industrial sector. 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 2004 and differ by as much as 2% from EIA, AEO 2004, Table A19. Sector total varies by 0.1% from EIA, AEO 2004. 2) Excludes electric imports by utilities. 3) Includes furnace fans (3.9 MMTCE). 4) Includes refrigerators (21.8 MMTCE) and freezers (6.9 MMTCE). 5) Includes color television (6.3 MMTCE) and other office equipment (9.7 MMTCE). 6) Includes clothes washers (1.6 MMTCE), natural gas clothes dryers (1.0 MMTCE), electric clothes dryers (12.2 MMTCE), and dishwashers (1.2 MMTCE). Does not include water heating energy. 7) Includes small electric devices, heating elements, motors, swimming pool heaters, hot tub heaters, and outdoor grills. 8) Emissions related to a discrepancy between data sources. Energy attributable to the sector but not directly to specific end uses.

Source(s): EIA, AEO 2004, Jan. 2004, Table A2, p. 134-136 and Table A4, p. 139-140 for energy consumption, and Table A19, p. 158 for emissions; EIA Assumptions to the AEO 2004, Jan. 2004, p. 9 for emission coefficients; BTS/A.D. Little, Electricity Consumption by Small End-Uses in Residential Buildings, Aug. 1998, Appendix A for small electric end-uses.