

**3.9.10 Energy Benchmarks for Newly Constructed Primary Schools, by Selected City and End-Use  
(thousand Btu per square foot)**

	<u>IECC Climate Zone</u>	<u>Heating</u>	<u>Cooling</u>	<u>Water Heating</u>	<u>Ventilation</u>
Miami	1A	0.3	15.9	1.4	2.7
Houston	2A	4.7	11.5	1.7	2.2
Phoenix	2B	3.3	12.4	1.5	2.5
Atlanta	3A	8.3	6.2	2.0	1.8
Los Angeles	3B	2.0	3.6	1.9	1.5
Las Vegas	3B	4.7	8.5	1.7	2.2
San Francisco	3C	8.8	2.0	2.1	1.7
Baltimore	4A	15.8	5.0	2.2	1.7
Albuquerque	4B	10.3	4.2	2.1	2.0
Seattle	4C	12.9	1.1	2.3	1.3
Chicago	5A	21.4	3.6	2.4	1.7
Boulder	5B	15.2	2.6	2.3	1.6
Minneapolis	6A	30.9	2.9	2.5	1.7
Helena	6B	24.0	1.5	2.5	1.4
Duluth	7	37.0	1.2	2.8	1.5
Fairbanks	8	59.6	0.5	3.1	1.4

Note(s): Commercial building energy benchmarks are based off of the current stock of commercial buildings and reflect 2004 ASHRAE 90.1 Climate Zones. They are designed to provide a consistent baseline to compare building performance in energy-use simulations. The benchmark building had 73,932 square feet and 1 floor. Benchmark interior lighting energy = 15.80 thousand Btu/SF. Interior equipment energy consumption = 18.77 thousand Btu/SF.

Source(s): DOE/EERE/BT, Commercial Building Benchmark Models, Version 1.3\_5.0, Nov. 2010, accessed January 2012 at [http://www1.eere.energy.gov/buildings/commercial\\_initiative/new\\_construction.html](http://www1.eere.energy.gov/buildings/commercial_initiative/new_construction.html).