

3.7.7 Energy Benchmarks for Existing Supermarkets, by Selected City and End-Use
 (thousand Btu per square foot)

| | IECC Climate Zone | Heating | | Cooling | | Water Heating | | Ventilation | |
|---------------|----------------------|---------|-------|---------|------|---------------|-----|-------------|------|
| | | Post | Pre | Post | Pre | Post | Pre | Post | Pre |
| Miami | 1A | 2.2 | 2.2 | 11.8 | 12.4 | 0.4 | 0.4 | 11.1 | 11.1 |
| Houston | 2A | 21.6 | 21.5 | 9.7 | 10.7 | 0.4 | 0.4 | 18.0 | 18.5 |
| Phoenix | 2B | 21.4 | 21.2 | 11.2 | 13.2 | 0.4 | 0.4 | 13.6 | 15.6 |
| Atlanta | 3A | 41.3 | 41.1 | 5.4 | 6.1 | 0.5 | 0.5 | 21.1 | 21.7 |
| Los Angeles | 3B | 22.5 | 22.3 | 1.1 | 1.1 | 0.5 | 0.5 | 12.7 | 12.3 |
| Las Vegas | 3B | 32.9 | 32.6 | 8.3 | 10.2 | 0.4 | 0.4 | 18.8 | 20.1 |
| San Francisco | 3C | 50.0 | 48.4 | 0.3 | 0.3 | 0.5 | 0.5 | 13.2 | 13.1 |
| Baltimore | 4A | 64.7 | 67.0 | 3.8 | 4.5 | 0.5 | 0.5 | 22.3 | 23.7 |
| Albuquerque | 4B | 50.7 | 51.1 | 3.2 | 4.1 | 0.5 | 0.5 | 23.7 | 25.2 |
| Seattle | 4C | 66.3 | 68.5 | 0.4 | 0.5 | 0.5 | 0.5 | 18.8 | 20.0 |
| Chicago | 5A | 81.6 | 84.5 | 2.4 | 2.7 | 0.5 | 0.5 | 27.3 | 28.6 |
| Boulder | 5B | 65.3 | 67.2 | 1.9 | 2.3 | 0.5 | 0.5 | 28.3 | 30.0 |
| Minneapolis | 6A | 99.9 | 104.0 | 2.0 | 2.3 | 0.6 | 0.6 | 29.9 | 31.6 |
| Helena | 6B | 87.3 | 95.4 | 1.1 | 1.3 | 0.6 | 0.6 | 32.1 | 34.1 |
| Duluth | 7 | 123.5 | 129.6 | 0.8 | 0.6 | 0.6 | 0.6 | 32.1 | 34.6 |
| Fairbanks | 8 | 188.2 | 200.6 | 0.2 | 0.2 | 0.7 | 0.6 | 40.4 | 44.6 |

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. 'Post' refers to buildings construction in or after 1980. 'Pre' refers to buildings construction before 1980. The benchmark building had 44,985 square feet and 1 floor. Benchmark interior lighting energy = 31.86 thousand Btu/SF. Interior equipment energy consumption = 20.74 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/reference_buildings.html.