

Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Building Floorspace (Square Feet)											
1,001 to 5,000	17.8	0.9	2.0	0.8	0.5	4.3	0.3	6.3	0.4	0.5	1.8
5,001 to 10,000	12.4	0.6	1.6	0.8	0.3	3.9	0.2	2.6	0.3	0.4	1.7
10,001 to 25,000	10.5	0.5	1.2	1.1	0.2	3.9	0.1	1.4	0.2	0.5	1.4
25,001 to 50,000	12.2	0.5	1.9	1.8	0.3	4.2	0.1	1.2	0.2	0.6	1.5
50,001 to 100,000	13.1	0.5	1.9	2.1	0.2	5.1	0.1	1.0	0.2	0.6	1.5
100,001 to 200,000	15.7	0.5	2.0	2.6	0.2	6.3	(*)	0.8	Q	1.0	1.8
200,001 to 500,000	15.0	0.3	2.1	2.2	0.2	6.7	0.1	0.4	0.3	0.8	1.8
Over 500,000	19.0	0.4	2.3	2.8	0.1	9.0	0.1	0.6	0.4	1.2	2.1
Principal Building Activity											
Education	11.0	0.5	2.2	2.5	0.3	3.4	(*)	0.5	0.1	1.0	0.6
Food Sales	49.4	1.5	2.9	1.8	Q	10.9	0.6	28.2	0.5	0.4	2.4
Food Service	38.4	1.8	5.0	4.3	1.8	7.5	2.4	12.3	0.3	0.3	2.6
Health Care	22.9	0.5	3.1	3.9	0.2	9.7	0.1	0.8	0.3	0.9	3.3
Inpatient	27.5	0.5	3.8	5.9	0.3	11.7	0.1	0.6	0.3	1.0	3.2
Outpatient	16.1	0.7	2.1	1.0	0.1	6.6	(*)	1.0	0.4	0.8	3.5
Lodging	13.5	0.8	1.4	0.8	0.7	7.1	0.1	0.7	Q	0.4	1.4
Retail (Other Than Mall).....	14.3	0.4	1.7	1.1	0.1	7.5	(*)	1.5	0.2	0.3	1.5
Office	17.3	0.8	2.4	1.5	0.2	6.8	(*)	0.8	0.8	1.8	2.2
Public Assembly	12.5	0.4	2.6	4.7	(*)	2.0	(*)	0.7	Q	0.2	1.7
Public Order and Safety	15.3	0.5	2.1	2.8	0.9	4.8	(*)	0.9	0.2	0.4	2.7
Religious Worship	4.9	0.2	0.8	0.4	(*)	1.3	(*)	0.5	(*)	0.1	1.4
Service	11.0	0.4	1.1	1.8	(*)	4.6	Q	0.6	0.1	0.2	2.1
Warehouse and Storage	7.6	0.2	0.4	0.6	0.1	4.1	Q	1.1	0.1	0.1	0.9
Other	22.5	0.4	2.7	1.8	0.1	10.1	Q	1.8	Q	0.9	3.7
Vacant	2.4	0.1	0.2	0.2	Q	0.7	Q	0.1	Q	(*)	1.1
Year Constructed											
Before 1920	7.1	0.2	0.5	0.9	Q	2.7	0.1	1.3	0.2	0.3	0.9
1920 to 1945	9.2	0.2	0.7	1.3	0.1	4.0	0.1	1.1	0.1	0.4	1.3
1946 to 1959	9.9	0.4	1.1	1.5	0.2	3.7	0.1	1.1	0.2	0.5	1.2
1960 to 1969	11.9	0.4	1.6	1.8	0.2	4.1	(*)	1.4	0.2	0.7	1.4
1970 to 1979	15.9	0.7	2.0	2.1	0.3	6.1	0.1	1.6	0.3	0.8	1.9
1980 to 1989	18.1	0.8	2.6	1.9	0.3	6.8	0.1	1.9	0.4	1.1	2.1
1990 to 1999	16.7	0.6	2.4	2.1	0.3	6.0	0.2	2.1	0.4	0.8	1.9
2000 to 2003	16.2	0.5	2.5	1.8	0.2	6.4	0.2	2.1	0.2	0.5	1.8
Census Region and Division											
Northeast	11.5	0.5	0.8	1.5	0.1	4.7	0.1	1.3	0.3	0.7	1.5
New England	10.8	0.5	0.6	1.2	0.2	4.2	0.1	1.9	0.2	0.6	1.3
Middle Atlantic	11.7	0.4	0.9	1.6	0.1	4.9	(*)	1.2	0.3	0.7	1.5
Midwest	12.9	0.8	0.9	1.8	0.2	5.0	0.1	1.6	0.3	0.6	1.7
East North Central	13.5	0.7	0.9	2.0	0.2	5.4	0.1	1.5	0.3	0.7	1.8
West North Central	11.7	0.9	1.0	1.4	0.2	4.3	0.1	1.6	0.2	0.5	1.5
South	16.5	0.4	3.1	2.0	0.4	5.8	0.2	2.0	0.2	0.7	1.7
South Atlantic	17.4	0.5	3.0	2.1	0.5	6.3	0.2	2.1	0.3	0.9	1.7
East South Central	15.5	0.5	2.1	2.0	0.3	5.8	Q	2.2	0.2	0.5	1.9
West South Central	15.3	0.3	3.8	1.8	0.2	5.0	0.1	1.7	0.2	0.5	1.6
West	13.8	0.5	1.8	1.6	0.2	5.3	0.1	1.4	0.5	0.7	1.7
Mountain	15.4	0.6	2.0	1.9	0.2	6.3	Q	1.5	Q	0.7	1.8
Pacific	13.0	0.4	1.6	1.5	0.2	4.8	0.1	1.4	Q	0.8	1.7

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	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Climate Zone: 30-Year Average											
Under 2,000 CDD and --											
More than 7,000 HDD	11.5	0.6	0.6	1.7	0.2	4.4	0.1	1.7	0.2	0.5	1.5
5,500-7,000 HDD	13.1	0.8	0.9	1.7	0.2	5.3	0.1	1.5	0.3	0.7	1.7
4,000-5,499 HDD	14.6	0.6	1.5	1.8	0.2	5.9	0.1	1.6	0.5	0.8	1.7
Fewer than 4,000 HDD	14.5	0.3	2.2	1.8	0.3	5.3	0.1	1.8	0.3	0.6	1.7
2,000 CDD or More and --											
Fewer than 4,000 HDD	17.3	0.3	4.7	2.0	0.4	5.4	0.1	1.7	0.2	0.9	1.7
Number of Floors											
One	13.4	0.6	1.8	1.3	0.3	4.5	0.1	2.7	0.2	0.4	1.5
Two	12.6	0.5	1.6	1.8	0.3	4.7	0.1	1.3	0.3	0.6	1.6
Three	11.4	0.5	1.3	1.6	0.2	4.5	0.1	0.9	0.3	0.6	1.5
Four to Nine	17.3	0.5	2.4	2.9	0.2	7.0	0.1	0.7	0.4	1.2	2.1
Ten or More	19.4	0.6	2.5	2.2	0.2	9.0	0.1	0.5	0.6	1.5	2.3
Elevators and Escalators (more than one may apply)											
Any Elevators	17.0	0.6	2.3	2.6	0.2	7.0	0.1	0.6	0.5	1.1	2.0
Number of Elevators.....											
One	12.8	0.5	1.7	2.2	0.2	4.8	(*)	0.7	0.3	0.8	1.5
Two to Five	17.0	0.6	2.3	2.6	0.2	6.8	(*)	0.6	0.5	1.2	2.0
Six or More	22.5	0.5	3.2	3.3	0.2	10.0	0.1	0.5	0.6	1.5	2.7
Any Escalators	24.1	0.6	3.9	3.7	0.2	9.9	Q	0.5	Q	1.4	2.7
Number of Workers (main shift)											
Fewer than 5	7.7	0.4	0.8	0.6	0.2	2.5	0.1	1.9	0.1	0.1	1.2
5 to 9	11.8	0.6	1.5	1.0	0.3	3.7	0.2	2.7	0.2	0.3	1.5
10 to 19	11.4	0.6	1.5	1.1	0.3	3.9	0.2	2.0	0.2	0.3	1.3
20 to 49	14.0	0.5	1.9	1.9	0.3	5.1	0.1	1.8	0.4	0.6	1.6
50 to 99	14.9	0.6	2.0	2.5	0.3	5.6	0.1	1.4	0.3	0.7	1.5
100 to 249	19.6	0.7	2.9	2.9	0.4	8.0	0.1	1.2	0.4	1.1	2.1
250 or More	22.4	0.6	2.9	3.1	0.2	9.6	0.1	0.7	0.6	1.9	2.6
Weekly Operating Hours											
Fewer than 40	4.5	0.3	0.9	0.4	0.1	1.1	(*)	0.6	(*)	0.1	1.1
40 to 48	10.1	0.6	1.7	1.1	0.2	3.4	(*)	0.8	0.3	0.6	1.5
49 to 60	11.2	0.4	1.5	1.3	0.1	4.3	(*)	0.9	0.3	0.6	1.6
61 to 84	14.1	0.5	1.8	1.9	0.2	5.2	0.1	1.8	0.3	0.7	1.6
85 to 167	22.1	0.7	2.3	3.3	0.4	7.0	0.4	5.0	0.2	0.9	1.9
Open Continuously	21.2	0.7	2.6	2.7	0.5	9.3	0.1	1.7	0.5	0.9	2.1
Ownership and Occupancy											
Nongovernment Owned.....	14.0	0.6	1.7	1.4	0.2	5.5	0.1	1.9	0.3	0.6	1.7
Owner Occupied	13.6	0.5	1.7	1.4	0.2	5.3	0.1	1.7	0.4	0.6	1.7
Nonowner Occupied	15.2	0.7	1.8	1.4	0.3	5.9	0.2	2.3	0.3	0.6	1.7
Unoccupied	1.9	Q	Q	(*)	Q	0.5	(*)	Q	Q	Q	0.9
Government Owned	14.1	0.5	2.2	3.1	0.3	4.7	0.1	0.7	0.2	0.9	1.5
Federal	19.7	0.3	1.9	3.6	0.1	9.5	(*)	0.5	0.2	0.8	2.8
State	15.8	0.2	2.0	4.1	0.2	4.8	(*)	0.7	0.2	1.6	1.9
Local	12.3	0.6	2.4	2.6	0.3	3.7	0.1	0.7	0.2	0.6	1.2
Vacancy Status											
Completely Vacant	1.8	Q	Q	(*)	Q	0.5	Q	Q	Q	Q	0.9
Mostly Vacant	13.8	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	13.8	0.6	1.8	1.6	0.2	5.8	0.1	0.7	0.3	1.0	1.8
Not At All Vacant	14.6	0.5	1.9	1.9	0.3	5.3	0.1	1.9	0.3	0.6	1.6

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	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Number of Establishments											
One	14.1	0.5	1.8	1.8	0.3	5.2	0.1	1.9	0.3	0.6	1.6
2 to 5	13.5	0.4	1.8	1.7	0.1	5.3	0.1	1.3	0.3	0.6	1.7
6 to 10	17.3	0.8	2.2	2.1	0.2	6.5	(*)	0.7	0.4	2.4	2.0
11 to 20	14.7	0.8	2.2	1.8	0.1	5.6	(*)	Q	0.3	1.0	2.0
More than 20	19.6	0.6	3.2	2.5	0.2	8.0	(*)	0.5	0.6	1.7	2.3
Currently Unoccupied	1.8	Q	Q	(*)	Q	0.5	Q	Q	Q	Q	0.9
Predominant Exterior Wall Material											
Brick, Stone or Stucco	13.7	0.5	1.9	1.9	0.3	4.8	0.1	1.6	0.3	0.7	1.6
Concrete (Block or Poured)	14.5	0.5	2.0	1.7	0.2	5.5	0.1	2.0	0.3	0.5	1.6
Concrete Panels	18.3	0.4	2.3	2.1	0.2	8.5	0.1	1.0	0.5	1.3	2.0
Siding or Shingles	11.0	0.7	1.2	1.0	0.3	3.6	0.1	2.1	0.3	0.4	1.3
Metal Panels	11.8	0.5	1.0	1.4	0.1	4.8	Q	1.8	0.1	0.4	1.7
Window Glass	19.1	0.9	3.0	2.1	0.3	7.2	(*)	0.6	0.6	1.8	2.6
Other	16.7	0.9	2.5	1.7	0.1	6.7	0.2	1.1	0.4	1.1	1.9
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material											
Built-Up	14.7	0.4	2.0	1.9	0.2	5.7	0.1	1.5	0.3	0.8	1.7
Shingles (Not Wood)	12.3	0.6	1.5	1.2	0.4	4.0	0.1	2.3	0.3	0.4	1.5
Metal Surfacing	10.2	0.5	1.2	1.2	0.2	3.9	Q	1.2	0.1	0.3	1.4
Synthetic or Rubber	17.7	0.7	2.3	2.5	0.2	6.6	0.1	1.8	0.4	1.1	2.0
Slate or Tile	12.5	0.5	1.9	1.3	0.2	4.1	0.2	2.0	0.2	0.5	1.5
Wooden Materials	12.2	0.7	1.9	1.3	0.3	4.7	(*)	1.4	0.2	0.4	1.3
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	20.4	0.2	2.9	1.6	Q	11.0	Q	1.7	0.1	0.6	2.0
No One Major Type	10.4	Q	1.4	1.9	Q	3.2	Q	Q	0.2	Q	1.4
Renovations in Buildings Constructed Before 1980 (more than one may apply)											
Any Type of Renovation											
Since 1980	13.0	0.5	1.4	1.9	0.2	5.0	0.1	1.5	0.3	0.7	1.5
Addition or Annex	14.1	0.6	1.6	2.5	0.2	5.4	0.1	1.4	0.2	0.6	1.6
Reduction In Floorspace	15.2	0.5	1.5	2.6	0.2	6.4	0.1	0.7	0.3	0.9	2.0
Cosmetic Improvements	13.5	0.5	1.4	1.9	0.2	5.2	0.1	1.6	0.3	0.8	1.5
Wall or Roof Replacement	12.6	0.4	1.4	1.9	0.2	5.1	0.1	1.0	0.2	0.8	1.4
Interior Wall											
Re-Configuration	13.8	0.5	1.5	2.1	0.2	5.6	0.1	1.1	0.3	0.8	1.7
HVAC Equipment Upgrade.....	14.4	0.6	1.6	2.2	0.2	5.6	0.1	1.2	0.3	0.9	1.6
Lighting Upgrade	13.6	0.5	1.4	2.1	0.2	5.3	0.1	1.4	0.3	0.8	1.6
Window Replacement	11.7	0.4	1.1	1.7	0.2	4.7	0.1	1.2	0.2	0.8	1.4
Plumbing System Upgrade	12.9	0.4	1.3	2.1	0.2	5.3	0.1	1.0	0.2	0.8	1.5
Insulation Upgrade	12.7	0.4	1.5	2.2	0.2	4.7	0.1	1.1	0.2	0.8	1.5
Other Renovation	9.0	0.4	0.6	1.3	Q	4.0	0.1	1.0	0.1	0.3	1.1
No Renovations Since 1980.....	10.5	0.4	1.3	1.4	0.2	4.0	0.1	1.3	0.2	0.4	1.4
Building Newer than 1980	17.1	0.7	2.5	2.0	0.3	6.4	0.1	2.0	0.4	0.9	1.9
Energy Sources (more than one may apply)											
Electricity	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Natural Gas	14.6	0.4	1.8	2.0	0.2	5.7	0.1	1.6	0.3	0.7	1.7
Fuel Oil	16.5	0.6	2.1	2.3	0.2	7.0	0.1	0.8	0.5	1.0	2.0
District Heat	18.0	0.2	1.3	3.7	0.2	7.9	(*)	0.6	0.2	1.6	2.3
District Chilled Water	19.7	0.2	1.6	5.0	0.2	7.0	0.1	0.8	0.3	2.1	2.4
Propane	14.0	0.4	1.5	1.7	0.2	5.8	0.1	2.1	0.2	0.4	1.7
Other	16.4	0.4	1.6	3.0	0.1	6.4	0.1	1.4	Q	0.8	2.1

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	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Space-Heating Energy Sources											
Electricity	15.9	1.2	2.3	1.6	0.4	5.9	0.1	1.7	0.4	0.7	1.7
Electricity Main	16.6	1.7	2.8	1.3	0.5	5.6	0.1	2.0	0.4	0.7	1.6
Electricity Secondary	15.1	0.5	1.7	2.0	0.2	6.2	0.1	1.2	0.4	0.8	1.9
Other Excluding Electricity	13.0	(*)	1.4	2.1	0.1	5.1	0.1	1.6	0.2	0.7	1.7
Buildings without Heating	8.2	(*)	1.8	0.7	0.1	2.6	0.1	1.7	0.1	0.2	1.0
Primary Space-Heating Energy Source											
Electricity	16.6	1.7	2.8	1.3	0.5	5.6	0.1	2.0	0.4	0.7	1.6
Natural Gas	13.9	0.2	1.7	1.9	0.2	5.5	0.1	1.6	0.3	0.7	1.8
Fuel Oil	5.9	0.1	0.4	1.0	0.1	2.2	(*)	1.0	0.1	0.3	0.7
District Heat	18.5	0.1	1.2	3.9	0.2	8.1	(*)	0.6	0.3	1.6	2.4
Propane	10.5	0.2	1.1	1.3	0.2	2.7	Q	2.9	Q	Q	1.5
Other	12.6	0.1	0.8	1.5	0.1	6.0	(*)	1.8	0.2	Q	1.8
Cooling Energy Source											
Electricity	15.0	0.6	2.1	1.8	0.3	5.6	0.1	1.8	0.3	0.7	1.7
Other Excluding Electricity	17.5	Q	(*)	4.7	0.2	7.0	(*)	0.7	0.3	2.3	2.1
Buildings without Cooling	4.8	0.2	(*)	0.7	(*)	2.2	(*)	0.6	(*)	0.1	0.9
Water-Heating Energy Source											
Electricity	14.6	0.8	2.1	1.5	0.6	5.2	0.1	1.7	0.3	0.7	1.7
Other Excluding Electricity	15.4	0.4	1.9	2.3	(*)	6.0	0.1	1.8	0.3	0.8	1.8
Bldgs without Water Heating	6.2	0.2	0.7	0.6	(*)	2.7	Q	0.8	0.1	0.1	1.0
Cooking Energy Source											
Electricity	18.9	0.8	2.6	2.8	0.5	6.5	0.5	2.3	0.3	0.8	1.7
Other Excluding Electricity	17.1	0.5	2.5	2.5	0.3	6.2	(*)	2.6	0.3	0.6	1.7
Buildings without Cooking	11.8	0.5	1.5	1.3	0.2	4.7	(*)	1.2	0.3	0.7	1.6
Energy End Uses (more than one may apply)											
Buildings with Space Heating	14.4	0.6	1.8	1.8	0.3	5.4	0.1	1.6	0.3	0.7	1.7
Buildings with Cooling	15.1	0.6	2.0	1.9	0.3	5.6	0.1	1.8	0.3	0.8	1.7
Buildings with Water Heating	15.0	0.6	2.0	1.9	0.3	5.6	0.1	1.7	0.3	0.8	1.7
Buildings with Cooking	18.2	0.7	2.5	2.7	0.4	6.4	0.3	2.4	0.3	0.7	1.7
Buildings with Manufacturing	13.2	0.4	0.9	1.6	Q	6.0	Q	0.9	0.2	0.6	2.3
Buildings with Electricity Generation	20.3	0.7	2.7	3.0	0.3	8.4	0.1	1.0	0.6	1.3	2.4
Percent of Floorspace Heated											
Not Heated	8.2	(*)	1.8	0.7	0.1	2.6	0.1	1.7	0.1	0.2	1.0
1 to 50	8.0	0.2	0.6	0.8	0.2	3.0	Q	1.7	Q	0.2	1.1
51 to 99	14.3	0.5	1.8	1.8	0.2	5.5	0.1	2.0	0.2	0.6	1.6
100	15.4	0.6	2.0	2.0	0.3	5.8	0.1	1.6	0.3	0.8	1.8
Percent of Floorspace Cooled											
Not Cooled	4.8	0.2	(*)	0.7	(*)	2.2	(*)	0.6	(*)	0.1	0.9
1 to 50	7.8	0.3	0.4	1.0	0.1	3.5	Q	1.1	0.1	0.2	1.1
51 to 99	16.5	0.7	2.1	2.2	0.2	6.1	0.1	2.3	0.3	0.8	1.8
100	18.8	0.7	3.0	2.3	0.4	6.8	0.2	1.9	0.5	1.0	2.1

Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Percent Lit When Open											
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	6.5	0.3	0.9	0.8	0.2	1.8	0.1	0.8	Q	0.2	1.1
51 to 99	14.3	0.5	1.9	2.0	0.3	5.3	0.1	1.4	0.3	0.9	1.7
100	17.0	0.6	2.2	2.1	0.3	6.7	0.1	2.1	0.3	0.8	1.8
Building Never Open/ Electricity Not Used	2.1	Q	0.2	0.1	Q	0.6	Q	0.1	Q	Q	1.0
Percent Lit When Closed											
Zero	9.2	0.4	1.2	1.2	0.1	2.9	0.1	1.2	0.2	0.5	1.4
1 to 50	13.3	0.5	1.8	1.7	0.2	4.6	0.1	1.7	0.3	0.7	1.6
51 to 100	21.7	0.8	2.2	2.0	0.3	10.4	0.2	3.4	0.2	0.6	1.5
Building Never Closed/ Electricity Not Used	21.2	0.7	2.6	2.7	0.5	9.3	0.1	1.7	0.5	0.9	2.1
Heating Equipment (more than one may apply)											
Heat Pumps	17.4	0.9	2.9	1.8	0.4	6.7	0.1	1.5	0.4	0.8	1.8
Packaged Heat Pumps	19.3	1.0	3.3	1.8	0.4	7.6	0.1	1.8	0.5	0.9	2.0
Split-System Heat Pumps	15.4	0.7	2.7	2.1	0.4	5.7	Q	1.3	0.2	0.5	1.7
Individual Room Heat Pumps ..	16.1	0.9	2.8	1.8	0.5	6.5	0.1	0.8	0.2	0.9	1.6
Furnaces	11.4	0.5	1.2	1.3	0.2	4.3	0.1	1.8	0.2	0.4	1.4
Individual Space Heaters	13.2	0.9	1.4	1.5	0.3	5.3	0.1	1.4	0.2	0.6	1.5
District Heat	18.0	0.1	1.2	3.8	0.2	7.9	(*)	0.6	0.3	1.6	2.3
Boilers	14.5	0.4	1.8	2.4	0.2	5.8	0.1	0.8	0.3	0.8	1.8
Packaged Heating Units	17.2	0.8	2.5	1.9	0.3	6.2	0.2	2.2	0.4	0.8	1.8
Other	15.2	0.9	1.9	1.8	0.3	5.8	0.1	1.7	0.2	0.7	1.8
Cooling Equipment (more than one may apply)											
Residential-Type Central											
Air Conditioners	12.1	0.5	1.6	1.8	0.3	4.2	0.1	1.6	0.2	0.4	1.5
Heat Pumps	17.7	0.8	3.0	1.8	0.4	6.8	0.1	1.8	0.4	0.8	1.9
Packaged Heat Pumps	19.4	1.0	3.2	1.7	0.4	7.7	0.1	1.9	0.5	0.9	2.0
Split-System Heat Pumps	15.7	0.6	2.7	2.1	0.4	5.6	Q	1.5	0.2	0.6	1.8
Individual Room Heat Pumps ..	17.1	0.8	3.0	1.9	0.5	6.8	0.1	1.1	0.3	0.8	1.7
Individual Air Conditioners	11.2	0.5	1.5	1.5	0.3	4.6	0.1	1.0	0.2	0.4	1.2
District Chilled Water	19.7	0.2	1.6	5.0	0.2	7.0	0.1	0.8	0.3	2.1	2.4
Central Chillers	21.1	0.6	3.1	3.5	0.3	8.5	0.1	0.7	0.6	1.3	2.5
Packaged Air Conditioning											
Units	15.4	0.6	2.1	1.7	0.3	5.8	0.1	2.0	0.3	0.7	1.7
Swamp Coolers	14.1	0.4	1.6	1.7	0.4	5.3	0.2	2.3	0.2	0.4	1.7
Other	18.0	0.6	2.7	2.5	0.1	6.8	0.1	Q	0.3	0.9	1.9
Main Equipment Replaced Since 1990 (more than one may apply)											
Heating	12.8	0.6	1.6	1.5	0.3	4.6	0.1	1.5	0.3	0.7	1.6
Cooling	13.6	0.6	1.7	1.7	0.3	5.1	0.1	1.5	0.3	0.8	1.6
Water Heating Equipment											
Centralized System	14.9	0.6	1.9	1.9	0.3	5.3	0.1	2.1	0.3	0.7	1.7
Distributed System	12.3	0.5	1.9	1.4	0.2	4.6	0.1	1.3	0.2	0.6	1.5
Combination of Centralized and Distributed System	18.6	0.6	2.5	2.5	0.3	7.7	0.1	1.0	0.5	1.2	2.0

Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Lighting Equipment Types (more than one may apply)											
Incandescent	15.3	0.6	2.0	2.0	0.3	6.1	0.1	1.5	0.3	0.8	1.7
Standard Fluorescent	14.5	0.5	1.9	1.9	0.2	5.4	0.1	1.7	0.3	0.7	1.7
Compact Fluorescent	17.7	0.6	2.3	2.5	0.3	6.9	0.1	1.5	0.4	0.9	2.0
High Intensity Discharge	16.0	0.5	1.9	2.4	0.2	6.7	0.1	1.2	0.3	0.9	1.8
Halogen	17.7	0.7	2.2	2.3	0.3	7.5	0.1	1.6	0.4	0.8	1.9
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)											
Any Refrigeration.....	15.3	0.6	2.0	1.9	0.3	5.7	0.1	2.0	0.3	0.8	1.7
Commercial Refrigeration	19.6	0.7	2.6	2.6	0.3	7.1	0.2	3.1	0.3	0.8	1.9
Walk-In Units	21.5	0.7	2.8	2.9	0.4	7.8	0.3	3.6	0.3	0.8	1.9
Cases or Cabinets	20.7	0.7	2.8	2.7	0.3	7.5	0.2	3.4	0.3	0.8	1.9
Residential-Type Units	13.3	0.5	1.8	1.8	0.2	5.1	0.1	1.2	0.3	0.7	1.6
Vending Machines	16.5	0.6	2.2	2.3	0.3	6.5	0.1	1.5	0.4	0.9	1.8
No Refrigeration	7.5	0.3	1.1	1.0	0.1	3.2	Q	(*)	0.1	0.3	1.4
Office Equipment (more than one may apply)											
Computers	15.0	0.6	2.0	1.9	0.3	5.7	0.1	1.6	0.3	0.8	1.7
With Flat Screen Monitors	17.6	0.6	2.4	2.5	0.2	6.8	0.1	1.2	0.5	1.2	2.1
Dedicated Servers	16.4	0.6	2.2	2.3	0.2	6.4	0.1	1.3	0.5	1.0	1.9
Laser Printers	13.8	0.6	1.8	1.8	0.2	5.1	0.1	1.6	0.3	0.7	1.6
Inkjet Printers	16.6	0.6	2.3	2.2	0.3	6.5	0.1	1.4	0.4	0.9	1.9
FAX Machines	15.1	0.6	2.0	2.0	0.2	5.8	0.1	1.5	0.3	0.8	1.7
Photocopiers	15.0	0.5	2.0	2.1	0.2	5.9	0.1	1.2	0.4	0.9	1.7
Number of Computers											
None	7.6	0.3	0.8	0.5	0.2	2.5	0.1	2.1	(*)	(*)	1.1
1 to 4	12.4	0.6	1.4	1.1	0.3	3.9	0.2	3.1	0.1	0.1	1.4
5 to 9	11.2	0.6	1.6	1.1	0.2	4.1	0.1	1.6	0.2	0.3	1.4
10 to 19	12.6	0.5	1.7	1.5	0.2	4.8	0.1	1.8	0.2	0.4	1.6
20 to 49	16.1	0.5	2.1	2.2	0.3	6.3	Q	1.5	Q	0.6	2.0
50 to 99	14.1	0.5	2.1	2.1	0.3	5.9	(*)	0.6	0.3	0.8	1.6
100 to 249	16.1	0.7	2.4	2.7	0.3	6.2	(*)	0.7	0.3	1.1	1.8
250 or More	21.2	0.6	2.8	3.2	0.2	8.6	0.1	0.6	0.7	2.1	2.3
Number of Dedicated Servers											
None	10.9	0.4	1.4	1.1	0.2	3.8	0.1	2.1	0.1	0.3	1.4
1 to 4	14.2	0.6	1.9	1.9	0.2	5.5	0.1	1.6	0.2	0.6	1.6
5 to 9	19.0	0.6	2.8	3.0	0.3	7.6	Q	0.9	0.5	1.3	2.1
10 to 19	20.9	0.5	2.4	3.4	0.2	8.1	(*)	1.1	0.5	2.2	2.4
20 to 49	20.7	0.5	3.6	2.9	0.2	8.0	0.1	0.6	0.7	1.6	2.4
50 or More	23.4	0.7	2.1	2.4	0.2	9.8	Q	0.7	2.3	2.3	2.7
Number of Photocopiers											
None	11.6	0.6	1.3	1.0	0.3	3.7	0.2	2.9	0.1	0.2	1.4
One	11.2	0.5	1.4	1.3	0.2	4.2	0.1	1.7	0.2	0.3	1.4
2 to 4	13.7	0.5	1.9	2.0	0.2	5.3	0.1	1.2	0.4	0.7	1.6
5 to 9	17.2	0.6	2.4	2.8	0.2	6.5	(*)	0.8	0.4	1.6	2.0
10 or More	21.2	0.6	3.0	3.0	0.2	9.0	0.1	0.6	0.7	1.6	2.4

Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Energy-Related Space Functions (more than one may apply)											
Commercial Food Preparation....	18.2	0.7	2.5	2.7	0.4	6.4	0.3	2.4	0.3	0.7	1.7
Activities with Large Amounts of Hot Water	17.6	0.7	2.4	2.6	0.4	7.0	0.2	1.5	0.3	0.8	1.8
Separate Computer Area	16.9	0.6	2.4	2.5	0.3	6.7	0.1	0.9	0.5	1.1	1.8
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System.....	19.0	0.7	2.7	2.6	0.3	7.5	0.1	1.1	0.5	1.3	2.3
Economizer Cycle	19.5	0.7	2.5	2.9	0.3	7.7	0.1	1.3	0.5	1.3	2.2
HVAC Maintenance	15.5	0.6	2.1	2.1	0.3	5.9	0.1	1.6	0.3	0.8	1.8
Energy Management and Control System (EMCS)	17.9	0.6	2.7	3.0	0.3	6.9	0.1	0.8	0.5	1.1	2.0
Window and Interior Lighting Features (more than one may apply)											
Multipaned Windows	15.3	0.7	1.8	2.0	0.3	5.9	0.1	1.7	0.3	0.7	1.8
Tinted Window Glass	16.6	0.5	2.3	2.2	0.2	6.6	0.1	1.3	0.4	0.9	2.0
Reflective Window Glass	17.9	0.7	2.6	2.4	0.3	7.3	0.1	1.1	0.4	1.0	2.1
External Overhangs or Awnings	16.4	0.6	2.0	2.1	0.3	5.8	0.2	2.4	0.4	0.8	1.7
Skylights or Atriums	15.1	0.5	1.9	2.2	0.2	6.4	0.1	0.8	0.5	0.8	1.8
Daylighting Sensors	21.1	0.6	2.9	3.0	0.2	8.1	0.1	1.3	Q	1.2	2.4
Specular Reflectors	16.7	0.6	2.2	2.3	0.3	6.7	0.1	1.3	0.4	0.9	2.0
Electronic Ballasts	15.6	0.6	2.1	2.1	0.3	5.9	0.1	1.6	0.3	0.8	1.8
Energy Management and Control System (EMCS) For Lighting	19.1	0.6	2.9	2.7	0.3	7.6	0.1	0.9	Q	1.2	2.1
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)											
Heating	13.2	0.5	1.8	1.8	0.2	4.9	0.1	1.3	0.3	0.7	1.6
Cooling	13.8	0.5	1.9	1.9	0.2	5.1	0.1	1.3	0.3	0.8	1.6
Lighting	12.5	0.5	1.7	1.6	0.2	4.3	0.1	1.7	0.2	0.6	1.6
Office Equipment	10.9	0.4	1.6	1.5	0.2	3.9	0.1	1.2	0.2	0.4	1.4
Annual Consumption (kilowatthours)											
10,000 or Less	1.3	(*)	0.1	0.1	(*)	0.4	(*)	0.2	(*)	(*)	0.4
10,001 to 50,000	4.9	0.2	0.6	0.3	0.1	1.7	(*)	0.7	0.1	0.1	0.9
50,001 to 100,000	8.0	0.4	1.0	0.6	0.2	2.5	0.1	1.6	0.2	0.3	1.2
100,001 to 500,000	13.0	0.6	1.5	1.3	0.3	4.2	0.2	2.7	0.2	0.5	1.5
500,001 to 1,000,000	14.4	0.6	2.2	1.9	0.4	5.0	0.1	1.9	0.2	0.6	1.5
1,000,001 to 5,000,000	20.3	0.7	2.8	3.2	0.3	7.7	0.1	1.7	0.4	1.2	2.2
Over 5,000,000	24.7	0.5	3.2	3.3	0.2	11.4	0.1	0.9	0.7	1.4	2.8

Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Provider of Purchased Electricity (more than one may apply)											
Local Utility	13.7	0.5	1.8	1.7	0.2	5.1	0.1	1.7	0.3	0.7	1.6
Some Other Provider	18.3	0.5	2.6	2.5	0.2	7.2	0.1	1.5	Q	1.0	2.1

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - <http://www.eia.doe.gov/emcu/cbecs>.

* Figures in this table do not include enclosed malls and strip malls. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

(*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

Notes: ● Due to rounding, data may not sum to totals. ● HVAC = Heating, Ventilation, and Air Conditioning.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.