

Table C22A. Electricity Consumption and Conditional Energy Intensity by Year Constructed for All Buildings, 2003

| | Total Electricity Consumption (billion kWh) | | | Total Floorspace of Buildings Using Electricity (million square feet) | | | Electricity Energy Intensity (kWh/square foot) | | |
|--|--|--------------|--------------|--|--------------|--------------|---|--------------|--------------|
| | 1959 or Before | 1960 to 1989 | 1990 to 2003 | 1959 or Before | 1960 to 1989 | 1990 to 2003 | 1959 or Before | 1960 to 1989 | 1990 to 2003 |
| All Buildings | 162 | 538 | 343 | 17,509 | 32,945 | 19,727 | 9.2 | 16.3 | 17.4 |
| Building Floorspace (Square Feet) | | | | | | | | | |
| 1,001 to 5,000 | 24 | 54 | 38 | 2,072 | 2,767 | 1,640 | 11.4 | 19.4 | 23.0 |
| 5,001 to 10,000 | 16 | 41 | 29 | 1,919 | 3,154 | 1,572 | 8.2 | 13.0 | 18.4 |
| 10,001 to 25,000 | 28 | 69 | 45 | 3,201 | 5,610 | 3,683 | 8.7 | 12.3 | 12.2 |
| 25,001 to 50,000 | 17 | 63 | 36 | 2,412 | 4,383 | 2,303 | 7.2 | 14.5 | 15.5 |
| 50,001 to 100,000 | 16 | 78 | 59 | 2,095 | 4,763 | 3,406 | 7.8 | 16.4 | 17.3 |
| 100,001 to 200,000 | 20 | 88 | 63 | 2,150 | 4,671 | 3,350 | 9.5 | 18.9 | 18.9 |
| 200,001 to 500,000 | 22 | 61 | 29 | 2,054 | 3,623 | 1,692 | 10.6 | 16.8 | 17.2 |
| Over 500,000 | 19 | 84 | 44 | 1,606 | 3,974 | 2,080 | 11.6 | 21.1 | 21.3 |
| Principal Building Activity | | | | | | | | | |
| Education | 22 | 53 | 34 | 3,191 | 4,359 | 2,321 | 6.8 | 12.3 | 14.4 |
| Food Sales | Q | 29 | Q | Q | 585 | Q | Q | 50.0 | Q |
| Food Service | 10 | 22 | 31 | 613 | 524 | 517 | 16.7 | 42.9 | 59.4 |
| Health Care | 14 | 43 | 16 | 730 | 1,671 | 762 | 19.2 | 25.5 | 21.0 |
| Inpatient | 11 | 35 | 7 | 456 | 1,218 | 231 | 23.7 | 28.4 | 30.2 |
| Outpatient | 3 | 8 | 9 | 273 | 453 | 531 | 11.7 | 17.9 | 17.0 |
| Lodging | 10 | 39 | 20 | 1,236 | 2,564 | 1,296 | Q | 15.3 | 15.1 |
| Mercantile | 16 | 115 | 84 | 1,372 | 5,983 | 3,836 | 11.3 | 19.3 | 21.9 |
| Retail (Other Than Mall) | 8 | 24 | 29 | 1,026 | 1,804 | 1,487 | 8.2 | 13.3 | 19.7 |
| Enclosed and Strip Malls | Q | 91 | 55 | Q | 4,179 | 2,350 | Q | 21.8 | 23.3 |
| Office | 34 | 131 | 46 | 2,852 | 6,792 | 2,563 | 11.9 | 19.2 | 17.9 |
| Public Assembly | 7 | 20 | 22 | 1,455 | 1,445 | 1,035 | 4.6 | 13.9 | 21.6 |
| Public Order and Safety | Q | 7 | Q | Q | 385 | Q | Q | 18.5 | Q |
| Religious Worship | 4 | 6 | 7 | 1,522 | 1,328 | 904 | 2.9 | 4.8 | 8.1 |
| Service | 7 | 26 | 11 | 1,045 | 1,925 | 1,012 | 6.3 | 13.4 | 11.4 |
| Warehouse and Storage | Q | 25 | 30 | 1,941 | 3,851 | 3,633 | 8.3 | 6.5 | 8.4 |
| Other | Q | 19 | 14 | Q | 684 | 673 | Q | 28.0 | Q |
| Vacant | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Census Region and Division | | | | | | | | | |
| Northeast | 47 | 86 | 38 | 6,080 | 5,448 | 2,371 | 7.8 | 15.8 | 16.2 |
| New England | 9 | 22 | Q | 1,475 | 1,339 | 615 | 6.0 | 16.1 | 17.7 |
| Middle Atlantic | 39 | 65 | 28 | 4,605 | 4,109 | 1,755 | 8.4 | 15.8 | 15.7 |
| Midwest | 50 | 118 | 67 | 5,559 | 8,158 | 4,008 | 9.0 | 14.4 | 16.7 |
| East North Central | 39 | 84 | 46 | 3,997 | 5,662 | 2,543 | 9.7 | 14.8 | 17.9 |
| West North Central | 11 | 34 | 21 | 1,562 | 2,495 | 1,465 | 7.2 | 13.5 | 14.5 |
| South | 41 | 231 | 180 | 3,611 | 12,556 | 9,850 | 11.5 | 18.4 | 18.2 |
| South Atlantic | 25 | 117 | 112 | 2,076 | 6,113 | 5,648 | 11.8 | 19.2 | 19.8 |
| East South Central | 7 | 33 | 18 | 557 | 1,871 | 1,117 | 11.9 | 17.5 | 16.1 |
| West South Central | 10 | 81 | 50 | 977 | 4,572 | 3,085 | 10.4 | 17.7 | 16.1 |
| West | 23 | 104 | 58 | 2,260 | 6,782 | 3,499 | 10.3 | 15.3 | 16.6 |
| Mountain | 6 | 43 | 20 | 526 | 2,482 | 1,157 | 10.6 | 17.2 | 17.0 |
| Pacific | 18 | 61 | 38 | 1,734 | 4,301 | 2,342 | 10.1 | 14.2 | 16.4 |
| Climate Zone: 30-Year Average | | | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | | | |
| More than 7,000 HDD | 24 | 70 | 43 | 3,354 | 5,038 | 2,908 | 7.2 | 13.9 | 14.7 |
| 5,500-7,000 HDD | 55 | 135 | 65 | 6,017 | 8,625 | 3,908 | 9.2 | 15.6 | 16.6 |
| 4,000-5,499 HDD | 40 | 100 | 50 | 4,107 | 5,610 | 2,657 | 9.6 | 17.8 | 18.7 |
| Fewer than 4,000 HDD | 30 | 133 | 98 | 3,005 | 8,433 | 5,625 | 10.0 | 15.7 | 17.4 |
| 2,000 CDD or More and -- | | | | | | | | | |
| Fewer than 4,000 HDD | 13 | 101 | 88 | 1,027 | 5,239 | 4,629 | 12.6 | 19.3 | 19.0 |

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| | Total Electricity Consumption (billion kWh) | | | Total Floorspace of Buildings Using Electricity (million square feet) | | | Electricity Energy Intensity (kWh/square foot) | | |
|--|--|--------------|--------------|--|--------------|--------------|---|--------------|--------------|
| | 1959 or Before | 1960 to 1989 | 1990 to 2003 | 1959 or Before | 1960 to 1989 | 1990 to 2003 | 1959 or Before | 1960 to 1989 | 1990 to 2003 |
| All Buildings | 162 | 538 | 343 | 17,509 | 32,945 | 19,727 | 9.2 | 16.3 | 17.4 |
| Number of Establishments | | | | | | | | | |
| One | 112 | 300 | 215 | 12,146 | 19,255 | 12,978 | 9.2 | 15.6 | 16.5 |
| 2 to 5 | 29 | 96 | 55 | 3,085 | 6,071 | 3,370 | 9.5 | 15.8 | 16.4 |
| 6 to 10 | 5 | 37 | 25 | 511 | 1,879 | 968 | 10.0 | 19.6 | 26.0 |
| 11 to 20 | 6 | 39 | 19 | 635 | 1,819 | 915 | 8.8 | 21.4 | 21.0 |
| More than 20 | 10 | 65 | 28 | 648 | 3,239 | 1,174 | 15.1 | 20.1 | 23.5 |
| Currently Unoccupied | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Energy Sources (more than one may apply) | | | | | | | | | |
| Electricity | 162 | 538 | 343 | 17,509 | 32,945 | 19,727 | 9.2 | 16.3 | 17.4 |
| Natural Gas | 112 | 382 | 249 | 12,400 | 22,762 | 13,304 | 9.0 | 16.8 | 18.7 |
| Fuel Oil | 46 | 153 | 76 | 5,089 | 7,573 | 3,588 | 9.1 | 20.1 | 21.2 |
| District Heat | 31 | 47 | 23 | 2,206 | 2,330 | 1,041 | 14.0 | 20.3 | 21.9 |
| Energy End Uses (more than one may apply) | | | | | | | | | |
| Buildings with Space Heating | 157 | 520 | 329 | 16,776 | 31,401 | 18,233 | 9.4 | 16.6 | 18.1 |
| Buildings with Cooling | 143 | 528 | 339 | 14,196 | 30,929 | 18,421 | 10.1 | 17.1 | 18.4 |
| Buildings with Water Heating | 143 | 516 | 332 | 14,878 | 30,250 | 17,684 | 9.6 | 17.1 | 18.7 |
| Annual Consumption (kilowatthours) | | | | | | | | | |
| 10,000 or Less | 1 | 2 | 1 | 1,102 | 1,083 | 676 | 1.4 | 1.5 | 1.1 |
| 10,001 to 50,000 | 16 | 20 | 10 | 3,555 | 3,845 | 1,870 | 4.4 | 5.1 | 5.5 |
| 50,001 to 100,000 | 16 | 25 | 14 | 2,387 | 2,579 | 1,759 | 6.8 | 9.7 | 7.7 |
| 100,001 to 500,000 | 44 | 118 | 77 | 4,789 | 8,115 | 4,718 | 9.1 | 14.5 | 16.2 |
| 500,001 to 1,000,000 | 14 | 56 | 40 | 1,354 | 3,617 | 2,389 | 10.6 | 15.5 | 16.7 |
| 1,000,001 to 5,000,000 | 38 | 176 | 119 | 2,452 | 8,036 | 5,113 | 15.5 | 21.9 | 23.3 |
| Over 5,000,000 | 33 | 142 | 83 | 1,870 | 5,670 | 3,202 | 17.5 | 25.1 | 26.0 |

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/emeu/cbecs>.

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.

N=No responding cases in sample that use electricity.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • Due to rounding, data may not sum to totals.

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