

Release date: September 2021

Revised date: December 2022

Table B8. Year constructed, number of buildings, 2018

| | Number of buildings (thousand) | | | | | | | | |
|--|--------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Year constructed | | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| All buildings | 5,918 | 709 | 517 | 685 | 831 | 794 | 921 | 924 | 537 |
| Building floorspace (square feet) | | | | | | | | | |
| 1,001 to 5,000 | 2,833 | 401 | 267 | 328 | 399 | 372 | 409 | 411 | 246 |
| 5,001 to 10,000 | 1,359 | 144 | 114 | 164 | 208 | 206 | 203 | 175 | 145 |
| 10,001 to 25,000 | 981 | 103 | 83 | 116 | 124 | 112 | 174 | 203 | 66 |
| 25,001 to 50,000 | 386 | 32 | 25 | 46 | 54 | 54 | 79 | 63 | 35 |
| 50,001 to 100,000 | 218 | 18 | 19 | 19 | 27 | 31 | 33 | 44 | 27 |
| 100,001 to 200,000 | 93 | 8 | 7 | 7 | 11 | 13 | 16 | 18 | 13 |
| 200,001 to 500,000 | 40 | 3 | 2 | 5 | 6 | 5 | 6 | 8 | 5 |
| Over 500,000 | 9 | 1 | Q | 1 | 1 | 1 | 1 | 2 | 1 |
| Principal building activity | | | | | | | | | |
| Education | 437 | 35 | 65 | 51 | 59 | 55 | 86 | 60 | 26 |
| Food sales | 163 | Q | Q | Q | Q | Q | Q | Q | Q |
| Food service | 286 | 64 | Q | 32 | 26 | 26 | 34 | 50 | 32 |
| Health care | 137 | 11 | 6 | 11 | 17 | 27 | 18 | 32 | 15 |
| Inpatient | 9 | Q | 1 | 1 | 1 | 1 | 0 | 2 | 1 |
| Outpatient | 129 | Q | Q | Q | 16 | 25 | 18 | 30 | 14 |
| Lodging | 207 | 11 | 14 | 28 | 16 | 26 | 36 | 27 | 49 |
| Mercantile | 517 | 45 | 48 | 95 | 65 | 63 | 49 | 100 | 52 |
| Retail (other than mall) | 350 | 42 | Q | 63 | 43 | 40 | 30 | 59 | 33 |
| Enclosed and strip malls | 167 | Q | Q | 32 | 22 | 22 | 19 | 41 | 19 |
| Office | 970 | 163 | 54 | 82 | 159 | 164 | 130 | 152 | 67 |
| Public assembly | 488 | 104 | 33 | 61 | 63 | 35 | 70 | 78 | 43 |
| Public order and safety | 81 | Q | Q | Q | Q | Q | Q | 18 | Q |
| Religious worship | 439 | 98 | 44 | 59 | 74 | 34 | 58 | 55 | Q |
| Service | 867 | 67 | 68 | 135 | 143 | 108 | 125 | 139 | 82 |
| Warehouse and storage | 1,004 | 38 | 113 | 68 | 121 | 150 | 235 | 162 | 117 |
| Other | 113 | Q | Q | 11 | Q | 12 | 35 | 16 | Q |
| Vacant | 208 | 41 | Q | 17 | Q | Q | Q | Q | Q |
| Census region | | | | | | | | | |
| Northeast | 793 | 171 | 80 | 122 | 79 | 92 | 107 | 82 | 59 |
| Midwest | 1,719 | 259 | 135 | 207 | 256 | 180 | 237 | 281 | 164 |
| South | 2,143 | 182 | 170 | 204 | 311 | 329 | 354 | 377 | 215 |
| West | 1,264 | 98 | 132 | 152 | 184 | 193 | 223 | 183 | 99 |
| Climate zone^a | | | | | | | | | |
| Cold or very cold | 539 | 87 | 61 | 54 | 72 | 65 | 65 | 93 | 42 |
| Cool | 1,727 | 267 | 127 | 219 | 253 | 190 | 235 | 247 | 190 |
| Mixed mild | 1,216 | 180 | 119 | 128 | 133 | 155 | 214 | 193 | 94 |
| Warm | 1,606 | 132 | 136 | 213 | 244 | 249 | 239 | 281 | 111 |
| Hot or very hot | 831 | 43 | 74 | 71 | 128 | 134 | 169 | 111 | 101 |

Table B8. Year constructed, number of buildings, 2018

| | Number of buildings (thousand) | | | | | | | | |
|---|--------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Year constructed | | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| Number of floors | | | | | | | | | |
| 1 | 4,106 | 259 | 348 | 484 | 610 | 590 | 696 | 719 | 400 |
| 2 | 1,286 | 244 | 117 | 154 | 184 | 153 | 176 | 155 | 103 |
| 3 | 370 | 164 | 40 | 32 | 24 | 33 | 30 | 26 | 20 |
| 4 to 9 | 142 | 39 | 12 | 15 | 12 | 14 | 17 | 22 | 12 |
| 10 or more | 16 | 4 | Q | 1 | 2 | 4 | 1 | 2 | 1 |
| Elevators and escalators (more than one may apply) | | | | | | | | | |
| Any elevators | 503 | 89 | 32 | 49 | 45 | 61 | 68 | 104 | 56 |
| 1 elevator | 366 | 67 | 26 | 39 | 31 | 38 | 50 | 76 | 38 |
| 2 to 5 elevators | 121 | 20 | 6 | 9 | 11 | 19 | 16 | 26 | 16 |
| 6 or more elevators | 16 | 2 | 1 | 1 | 2 | 4 | 2 | 3 | 2 |
| Any escalators | 14 | Q | Q | 1 | 1 | 2 | 1 | Q | Q |
| Number of workers (main shift) | | | | | | | | | |
| Fewer than 5 | 3,270 | 453 | 292 | 407 | 465 | 380 | 521 | 478 | 275 |
| 5 to 9 | 1,116 | 129 | 113 | 133 | 143 | 181 | 147 | 169 | 102 |
| 10 to 19 | 713 | 64 | 51 | 68 | 135 | 107 | 120 | 92 | 74 |
| 20 to 49 | 492 | 35 | 42 | 42 | 48 | 74 | 79 | 118 | 54 |
| 50 to 99 | 201 | 16 | 10 | 26 | 27 | 32 | 32 | 38 | 20 |
| 100 to 249 | 90 | 8 | 7 | 7 | 8 | 12 | 16 | 23 | 8 |
| 250 or more | 37 | 4 | 2 | 3 | 4 | 8 | 5 | 7 | 4 |
| Weekly operating hours | | | | | | | | | |
| Fewer than 40 | 1,370 | 249 | 146 | 154 | 219 | 163 | 195 | 169 | 75 |
| 40 to 48 | 1,483 | 165 | 115 | 188 | 220 | 228 | 215 | 247 | 104 |
| 49 to 60 | 1,250 | 157 | 137 | 151 | 173 | 148 | 217 | 160 | 106 |
| 61 to 84 | 645 | 53 | 52 | 76 | 71 | 105 | 89 | 125 | 75 |
| 85 to 167 | 465 | 32 | 29 | 55 | 45 | 62 | 78 | 118 | 46 |
| Open continuously | 705 | 52 | 38 | 61 | 103 | 88 | 127 | 104 | 131 |
| Ownership and occupancy | | | | | | | | | |
| Nongovernment owned | 4,982 | 593 | 442 | 592 | 690 | 682 | 772 | 760 | 452 |
| Owner occupied | 3,249 | 434 | 310 | 377 | 440 | 405 | 528 | 486 | 269 |
| Leased to tenant or tenants | 1,581 | 143 | 108 | 203 | 213 | 236 | 231 | 270 | 178 |
| Unoccupied | 152 | Q | Q | Q | Q | Q | Q | Q | Q |
| Government owned | 937 | 116 | 75 | 94 | 141 | 112 | 149 | 164 | 86 |
| Federal | 70 | Q | Q | 9 | Q | Q | 8 | Q | Q |
| State | 256 | 37 | 21 | 30 | 33 | 33 | 34 | 49 | 20 |
| Local | 610 | 77 | 53 | 54 | 95 | 74 | 107 | 93 | 58 |
| Party responsible for operation of energy systems | | | | | | | | | |
| Building owner | 4,872 | 619 | 449 | 551 | 639 | 656 | 769 | 749 | 440 |
| Business owner or tenant | 831 | 65 | 66 | 109 | 169 | 107 | 99 | 151 | 66 |
| Property management | 97 | Q | Q | Q | Q | Q | 38 | 17 | Q |
| Other | 118 | 20 | Q | Q | 18 | 18 | Q | 8 | Q |

Table B8. Year constructed, number of buildings, 2018

Number of buildings (thousand)

| | Year constructed | | | | | | | | |
|---|------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| Provider of direct input on energy-related equipment purchases | | | | | | | | | |
| Building owner | 5,127 | 628 | 476 | 583 | 693 | 683 | 799 | 799 | 466 |
| Business owner or tenant | 483 | 41 | 32 | 66 | 71 | 77 | 70 | 85 | 41 |
| Property management | 49 | Q | Q | Q | Q | Q | Q | Q | Q |
| Other | 260 | 38 | Q | 33 | 63 | 32 | 31 | 34 | Q |
| Number of establishments | | | | | | | | | |
| 1 | 4,719 | 576 | 414 | 552 | 631 | 591 | 761 | 733 | 462 |
| 2 to 5 | 811 | 96 | 64 | 95 | 140 | 121 | 110 | 132 | 54 |
| 6 to 10 | 135 | 7 | 14 | 19 | 14 | 21 | 23 | 29 | 8 |
| 11 to 20 | 63 | Q | Q | Q | 8 | 14 | 7 | Q | Q |
| More than 20 | 19 | 2 | Q | 3 | 3 | 6 | 1 | 3 | Q |
| Currently unoccupied | 170 | Q | Q | Q | Q | Q | Q | Q | Q |
| Campus or complex activity | | | | | | | | | |
| Not part of a campus or complex | 3,622 | 494 | 335 | 464 | 566 | 516 | 485 | 477 | 286 |
| Primary or secondary school | 247 | 15 | 32 | 34 | 16 | 20 | 68 | 42 | 19 |
| College or university | 103 | 7 | 16 | 14 | 11 | 11 | 12 | Q | Q |
| Office complex | 141 | 17 | Q | 32 | Q | 27 | 14 | 30 | Q |
| Retail complex | 250 | Q | Q | Q | 18 | 36 | 47 | 62 | 29 |
| Storage complex | 418 | Q | Q | Q | 39 | 42 | 146 | 98 | 50 |
| Religious campus or complex | 253 | 45 | 48 | 32 | 49 | Q | 25 | 33 | Q |
| Health care complex | 60 | Q | Q | Q | 6 | 6 | 13 | 18 | 4 |
| Lodging or resort complex | 102 | Q | Q | Q | Q | 10 | Q | Q | Q |
| Transportation complex | 36 | Q | Q | Q | Q | Q | Q | Q | Q |
| Government complex | 124 | 17 | Q | Q | Q | Q | Q | 29 | Q |
| Other | 563 | 71 | Q | 48 | 75 | 86 | 73 | 104 | 81 |
| Predominant exterior wall material | | | | | | | | | |
| Brick, stone, or stucco | 2,490 | 432 | 238 | 367 | 299 | 283 | 322 | 365 | 186 |
| Concrete (block or poured) | 935 | 59 | 161 | 124 | 210 | 123 | 122 | 85 | 51 |
| Concrete panels | 137 | Q | Q | 12 | 13 | 23 | 24 | 34 | 16 |
| Siding or shingles | 948 | 165 | 71 | 71 | 126 | 153 | 155 | 119 | 87 |
| Metal panels | 1,250 | Q | 31 | 96 | 168 | 186 | 274 | 281 | 183 |
| Window glass | 19 | N | Q | Q | 2 | 4 | 2 | 7 | 4 |
| Other | 139 | Q | Q | Q | 13 | 21 | 23 | 33 | Q |
| Predominant roof material | | | | | | | | | |
| Metal surfacing | 2,198 | 150 | 105 | 173 | 297 | 314 | 482 | 432 | 245 |
| Synthetic or rubber | 940 | 131 | 123 | 127 | 124 | 111 | 101 | 124 | 98 |
| Built-up | 708 | 99 | 87 | 126 | 106 | 95 | 74 | 82 | 40 |
| Slate or tile shingles | 376 | 63 | 44 | 46 | 45 | 61 | 50 | 47 | Q |
| Wooden materials (including shingles) | 166 | Q | Q | Q | Q | Q | Q | 36 | Q |
| Asphalt, fiberglass, or other shingles | 1,311 | 218 | 120 | 173 | 205 | 145 | 176 | 176 | 99 |
| Concrete | 83 | Q | Q | Q | Q | Q | Q | 9 | Q |
| Other | 136 | 11 | Q | 22 | 23 | 22 | 14 | 18 | Q |

Table B8. Year constructed, number of buildings, 2018

| | Number of buildings (thousand) | | | | | | | | |
|---|--------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Year constructed | | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| Primary space-heating energy source | | | | | | | | | |
| Electricity | 1,856 | 156 | 118 | 169 | 244 | 302 | 327 | 319 | 221 |
| Natural gas | 2,344 | 299 | 263 | 358 | 320 | 272 | 307 | 343 | 181 |
| Fuel oil | 222 | 71 | 33 | 34 | Q | Q | Q | Q | Q |
| District heat | 78 | 20 | 17 | 13 | 8 | 6 | 5 | 6 | 3 |
| Propane | 338 | 84 | Q | Q | Q | 57 | 51 | 37 | Q |
| Other sources ^b | 63 | Q | Q | Q | Q | Q | Q | Q | Q |
| Cooling energy sources (more than one may apply) | | | | | | | | | |
| Electricity | 4,584 | 558 | 409 | 545 | 643 | 650 | 677 | 710 | 392 |
| Natural gas | 4 | Q | Q | Q | Q | Q | Q | Q | Q |
| District chilled water | 55 | 7 | Q | 10 | 6 | 4 | 10 | 6 | 4 |
| Water-heating energy sources (more than one may apply) | | | | | | | | | |
| Electricity | 2,785 | 341 | 272 | 289 | 409 | 395 | 376 | 436 | 269 |
| Natural gas | 1,885 | 211 | 152 | 309 | 247 | 257 | 259 | 298 | 151 |
| Fuel oil | 72 | 19 | Q | Q | Q | Q | Q | Q | Q |
| District heat | 38 | 7 | 11 | 4 | 5 | Q | Q | 2 | 2 |
| Propane | 145 | Q | Q | Q | Q | Q | 28 | Q | Q |
| Cooking energy sources (more than one may apply) | | | | | | | | | |
| Electricity | 1,216 | 150 | 102 | 113 | 149 | 174 | 184 | 217 | 126 |
| Natural gas | 727 | 114 | 62 | 111 | 79 | 83 | 83 | 129 | 67 |
| Propane | 159 | 33 | Q | 19 | 20 | Q | 24 | 29 | 6 |
| Energy end uses (more than one may apply) | | | | | | | | | |
| Buildings with space heating | 4,901 | 635 | 462 | 598 | 661 | 668 | 724 | 729 | 425 |
| Buildings with cooling | 4,631 | 563 | 416 | 552 | 650 | 653 | 686 | 715 | 396 |
| Buildings with water heating | 4,595 | 579 | 430 | 573 | 635 | 632 | 634 | 699 | 412 |
| Buildings with cooking | 1,738 | 254 | 157 | 211 | 209 | 225 | 240 | 284 | 158 |
| Buildings with manufacturing | 322 | 30 | 38 | 23 | 58 | 34 | 47 | 53 | 38 |
| Buildings with electricity generation | 706 | 67 | 29 | 65 | 115 | 83 | 130 | 136 | 81 |
| Buildings with lighting | 5,503 | 682 | 478 | 663 | 784 | 752 | 824 | 839 | 481 |
| Percentage of floorspace heated | | | | | | | | | |
| Not heated | 1,017 | 74 | 55 | 88 | 169 | 126 | 197 | 195 | 112 |
| 1 to 50% | 693 | 96 | 106 | 77 | 73 | 88 | 111 | 68 | 74 |
| 51 to 99% | 905 | 160 | 92 | 115 | 104 | 124 | 113 | 137 | 60 |
| 100% | 3,303 | 379 | 264 | 405 | 484 | 455 | 499 | 524 | 292 |
| Percentage of floorspace cooled | | | | | | | | | |
| Not cooled | 1,288 | 146 | 102 | 133 | 181 | 141 | 235 | 208 | 142 |
| 1 to 50% | 1,111 | 124 | 140 | 132 | 168 | 185 | 186 | 114 | 61 |
| 51 to 99% | 998 | 184 | 85 | 151 | 122 | 115 | 118 | 138 | 85 |
| 100% | 2,522 | 254 | 191 | 269 | 359 | 353 | 383 | 463 | 250 |

Table B8. Year constructed, number of buildings, 2018

Number of buildings (thousand)

| | Year constructed | | | | | | | | |
|--|------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| Percentage lit when open | | | | | | | | | |
| 0% | Q | N | Q | Q | N | N | Q | Q | Q |
| 1 to 50% | 1,280 | 216 | 118 | 158 | 216 | 125 | 206 | 142 | 98 |
| 51 to 99% | 1,784 | 251 | 160 | 238 | 223 | 243 | 229 | 294 | 146 |
| 100% | 2,272 | 191 | 179 | 256 | 318 | 342 | 375 | 383 | 227 |
| Building never open or electricity not used | 513 | 50 | Q | 29 | 73 | 84 | 100 | 84 | Q |
| Percentage lit during off hours | | | | | | | | | |
| 0% | 2,062 | 305 | 172 | 245 | 299 | 201 | 349 | 313 | 179 |
| 1 to 50% | 3,246 | 363 | 296 | 401 | 429 | 520 | 454 | 478 | 305 |
| 51 to 100% | 240 | 22 | 24 | 21 | 46 | 24 | 33 | 51 | 20 |
| Building always open with no off hours | 64 | Q | Q | Q | 12 | 8 | 8 | 18 | Q |
| Electricity not used | 305 | Q | Q | Q | Q | Q | Q | Q | Q |
| Heating equipment (more than one may apply) | | | | | | | | | |
| Packaged heating units | 2,187 | 161 | 168 | 261 | 304 | 313 | 342 | 388 | 250 |
| Furnaces | 1,621 | 293 | 161 | 192 | 211 | 226 | 237 | 204 | 97 |
| Individual space heaters | 1,246 | 129 | 155 | 156 | 182 | 165 | 199 | 174 | 86 |
| Boilers | 703 | 135 | 71 | 120 | 70 | 74 | 79 | 94 | 62 |
| Heat pumps | 673 | 62 | 41 | 74 | 72 | 115 | 83 | 119 | 106 |
| District heat | 83 | 21 | 19 | 13 | 8 | 6 | 6 | 6 | 3 |
| Duct reheat | 134 | Q | 9 | 16 | 17 | 21 | 11 | 35 | 13 |
| Other | 17 | Q | Q | Q | Q | Q | Q | Q | Q |
| Cooling equipment (more than one may apply) | | | | | | | | | |
| Packaged air-conditioning units | 2,565 | 246 | 219 | 316 | 371 | 353 | 382 | 452 | 226 |
| Residential-type central air conditioners | 1,309 | 216 | 115 | 135 | 174 | 167 | 205 | 186 | 113 |
| Individual air conditioners | 735 | 138 | 87 | 119 | 86 | 101 | 95 | 76 | 35 |
| Central chillers | 202 | 22 | 19 | 29 | 26 | 38 | 30 | 26 | 13 |
| Heat pumps | 492 | 36 | 42 | 61 | 67 | 89 | 48 | 75 | 74 |
| District chilled water | 55 | 7 | Q | 10 | 6 | 4 | 10 | 6 | 4 |
| Swamp coolers | 85 | Q | Q | Q | Q | 16 | 22 | 12 | Q |
| Other | Q | Q | N | Q | N | Q | Q | Q | Q |
| HVAC features (more than one may apply) | | | | | | | | | |
| Economizer cycle | 747 | 63 | 47 | 82 | 72 | 100 | 109 | 162 | 111 |
| Variable air volume (VAV) system | 698 | 75 | 62 | 59 | 100 | 85 | 99 | 124 | 93 |
| Dedicated outside air system (DOAS) | 249 | 20 | 21 | 41 | 54 | 16 | 27 | 47 | 23 |
| Demand controlled ventilation (DCV) | 349 | 47 | 51 | 29 | 32 | 34 | 48 | 55 | 53 |
| Regular HVAC maintenance | 3,554 | 406 | 341 | 402 | 483 | 447 | 522 | 597 | 355 |
| Building automation system (BAS) controls heating or cooling | 933 | 66 | 84 | 97 | 106 | 121 | 130 | 192 | 137 |
| Internet-connected or smart thermostat | 325 | 43 | Q | 30 | 43 | 28 | 73 | 58 | 27 |
| Programmable thermostat | 1,545 | 200 | 106 | 157 | 229 | 240 | 237 | 255 | 123 |

Table B8. Year constructed, number of buildings, 2018

| | Number of buildings (thousand) | | | | | | | | |
|---|--------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Year constructed | | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| Main equipment replaced since 2000 (more than one may apply) | | | | | | | | | |
| Heating | 1,937 | 331 | 238 | 324 | 337 | 397 | 310 | N | N |
| Cooling | 1,269 | 270 | 166 | 199 | 209 | 204 | 221 | N | N |
| Water-heating equipment | | | | | | | | | |
| Centralized system | 3,538 | 472 | 332 | 463 | 483 | 481 | 506 | 515 | 285 |
| Distributed system | 782 | 83 | 82 | 83 | 120 | 110 | 87 | 126 | 91 |
| Combination of centralized and distributed systems | 274 | 24 | 17 | 28 | 31 | 40 | 42 | 57 | 36 |
| Generation technologies (more than one may apply) | | | | | | | | | |
| Reciprocating engine generators | 580 | 62 | 24 | 51 | 100 | 58 | 110 | 105 | 69 |
| Solar panels | 94 | 4 | Q | 14 | Q | 21 | 14 | 21 | 11 |
| Other generation technology | 43 | Q | Q | Q | 11 | 5 | 6 | 14 | Q |
| Lighting equipment types (more than one may apply) | | | | | | | | | |
| Incandescent | 1,100 | 213 | 104 | 140 | 134 | 151 | 134 | 143 | 80 |
| Standard fluorescent | 4,012 | 517 | 346 | 503 | 578 | 605 | 609 | 579 | 275 |
| Compact fluorescent | 1,130 | 148 | 92 | 157 | 132 | 155 | 122 | 191 | 133 |
| High-intensity discharge (HID) | 238 | 25 | 12 | 26 | 34 | 30 | 37 | 48 | 26 |
| Halogen | 552 | 68 | 46 | 69 | 85 | 62 | 80 | 92 | 50 |
| LED | 2,593 | 330 | 275 | 301 | 325 | 322 | 374 | 385 | 282 |
| Other | Q | N | Q | N | Q | Q | Q | Q | Q |
| Refrigeration equipment (more than one may apply) | | | | | | | | | |
| Any refrigeration | 3,850 | 496 | 334 | 483 | 513 | 513 | 572 | 603 | 336 |
| Walk-in units | 706 | 88 | 56 | 106 | 78 | 99 | 76 | 130 | 74 |
| Cases or cabinets | 837 | 134 | 75 | 116 | 93 | 89 | 94 | 150 | 87 |
| Large cold storage areas | 69 | 10 | Q | 15 | 10 | Q | 3 | 12 | Q |
| Commercial ice makers | 872 | 96 | 62 | 109 | 107 | 100 | 124 | 166 | 107 |
| Residential-type or compact units | 3,321 | 423 | 300 | 414 | 448 | 446 | 503 | 497 | 290 |
| Vending machines | 800 | 50 | 63 | 100 | 95 | 128 | 131 | 140 | 92 |
| No refrigeration | 2,068 | 212 | 183 | 203 | 318 | 281 | 349 | 321 | 202 |
| Office equipment (more than one may apply) | | | | | | | | | |
| Desktop computers | 3,804 | 417 | 317 | 454 | 528 | 528 | 580 | 620 | 360 |
| With multiple monitors | 1,504 | 176 | 120 | 160 | 187 | 206 | 223 | 291 | 142 |
| Laptop computers | 2,786 | 344 | 255 | 339 | 373 | 368 | 417 | 414 | 274 |
| Dedicated servers | 1,400 | 132 | 106 | 157 | 178 | 185 | 224 | 261 | 157 |
| Tablets charged in building | 1,556 | 169 | 128 | 160 | 208 | 184 | 267 | 267 | 174 |
| Large floor-standing office devices ^c | 1,456 | 163 | 111 | 160 | 200 | 190 | 241 | 265 | 127 |
| Smaller desktop office devices ^c | 3,560 | 422 | 341 | 415 | 455 | 501 | 532 | 575 | 319 |
| Interactive whiteboards | 262 | 18 | 26 | 33 | 23 | 35 | 45 | 55 | 25 |
| Televisions or video displays | 2,451 | 272 | 187 | 289 | 287 | 362 | 394 | 382 | 277 |
| Point-of-sale devices or cash registers | 1,420 | 165 | 122 | 226 | 165 | 181 | 188 | 231 | 142 |

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| | Number of buildings (thousand) | | | | | | | | |
|--|--------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Year constructed | | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| Food preparation or serving areas in non-food service buildings (more than one may apply) | | | | | | | | | |
| Snack bar, concession stand, or coffee shop | 144 | 7 | 9 | 27 | 14 | 21 | 18 | 24 | 25 |
| Fast food or small restaurant | 160 | 26 | 6 | 21 | 16 | 22 | 19 | 30 | 19 |
| Cafeteria or large restaurant | 129 | 13 | 17 | 26 | 11 | 14 | 13 | 21 | 13 |
| Commercial kitchen or food preparation area | 284 | 26 | 27 | 38 | 39 | 37 | 32 | 59 | 26 |
| Small kitchen area | 1,018 | 148 | 100 | 114 | 127 | 150 | 154 | 147 | 77 |
| Separate computer areas (more than one may apply) | | | | | | | | | |
| Server closet | 1,237 | 106 | 62 | 132 | 152 | 172 | 215 | 247 | 150 |
| Data center | 116 | 13 | 10 | 7 | 14 | 10 | 21 | 20 | 21 |
| Computer-based training room | 228 | 15 | 25 | 23 | 24 | 34 | 48 | 39 | 19 |
| Student or public computer center | 236 | 20 | 21 | 35 | 33 | 27 | 44 | 26 | 30 |
| Window and interior lighting features (more than one may apply) | | | | | | | | | |
| Multipaned windows | 3,527 | 385 | 264 | 371 | 464 | 489 | 530 | 631 | 391 |
| Tinted window glass | 1,679 | 147 | 120 | 161 | 252 | 272 | 250 | 295 | 183 |
| Reflective window glass | 497 | 42 | 26 | 46 | 56 | 66 | 81 | 107 | 73 |
| External overhangs or awnings | 1,513 | 153 | 155 | 186 | 178 | 175 | 231 | 253 | 183 |
| Skylights or atriums | 509 | 50 | 27 | 61 | 45 | 87 | 100 | 68 | 72 |
| Light scheduling | 910 | 78 | 73 | 73 | 98 | 138 | 122 | 196 | 134 |
| Occupancy sensors | 1,025 | 78 | 83 | 102 | 127 | 122 | 150 | 200 | 163 |
| Multilevel lighting or dimming | 332 | 66 | 26 | 39 | 33 | 23 | 43 | 61 | 42 |
| Daylight harvesting | 138 | Q | 11 | 15 | 6 | 17 | 29 | 21 | 30 |
| Plug-load control | 58 | Q | Q | Q | Q | Q | 15 | 6 | 8 |
| Demand responsive lighting | 98 | Q | Q | Q | Q | Q | Q | 10 | Q |
| Building automation system (BAS) for lighting | 317 | 15 | 14 | 19 | 24 | 22 | 50 | 83 | 91 |
| Electric vehicle (EV) charging | | | | | | | | | |
| Charging stations associated with the building | 132 | 5 | Q | 15 | 16 | 17 | 22 | 36 | 14 |

Data source: U.S. Energy Information Administration, Form EIA-871A of the 2018 Commercial Buildings Energy Consumption Survey

Notes: Because of rounding, data may not sum to totals. The *Guide to the 2018 CBECS Tables* and *CBECS Terminology* contain definitions of terms used in these tables and comparisons between previous CBECS tables. You can access both references from <http://www.eia.gov/consumption/commercial/data/2018/>.

Data are sample survey estimates with relative standard errors published in a tab on the Excel worksheet for this table.

^a*Climate zones* are based on ASHRAE Standard 169-2021; see <https://www.eia.gov/consumption/commercial/maps.php#defined>.

^b*Other sources* includes wood, coal, solar, and all other energy sources.

^c*Office devices* refers to any combination of printers, copiers, scanners, or FAX machines.

Q = Data withheld either because the relative standard error was greater than 50% or the reporting sample had fewer than 20 buildings.

N = No buildings in reporting sample.

Relative Standard Errors (RSEs) for Table B8. Year constructed, number of buildings, 2018**RSEs for number of buildings**

| | Year constructed | | | | | | | | |
|--|------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| All buildings | 3.9 | 8.6 | 8.1 | 6.4 | 7.4 | 7.0 | 7.5 | 8.0 | 11.0 |
| Building floorspace (square feet) | | | | | | | | | |
| 1,001 to 5,000 | 4.9 | 10.8 | 12.8 | 9.4 | 11.7 | 11.4 | 10.2 | 10.8 | 15.7 |
| 5,001 to 10,000 | 5.9 | 15.2 | 18.8 | 14.8 | 14.7 | 13.9 | 16.7 | 16.1 | 19.9 |
| 10,001 to 25,000 | 5.6 | 14.4 | 16.8 | 13.9 | 14.4 | 13.5 | 15.1 | 12.9 | 18.9 |
| 25,001 to 50,000 | 5.6 | 16.6 | 17.2 | 14.3 | 16.3 | 13.1 | 14.1 | 14.2 | 14.8 |
| 50,001 to 100,000 | 5.3 | 19.5 | 17.0 | 13.9 | 12.8 | 12.1 | 11.5 | 10.0 | 13.7 |
| 100,001 to 200,000 | 5.6 | 16.4 | 22.2 | 14.8 | 15.2 | 12.3 | 10.5 | 10.9 | 16.1 |
| 200,001 to 500,000 | 5.0 | 14.5 | 18.6 | 12.6 | 15.2 | 9.8 | 8.8 | 10.5 | 15.9 |
| Over 500,000 | 7.8 | 24.3 | 35.3 | 23.1 | 13.4 | 17.0 | 14.3 | 18.8 | 24.5 |
| Principal building activity | | | | | | | | | |
| Education | 7.8 | 27.2 | 20.7 | 24.3 | 28.8 | 24.6 | 16.4 | 23.5 | 32.4 |
| Food sales | 14.3 | 41.1 | 53.4 | 32.6 | 34.7 | 33.6 | 33.1 | 35.7 | 38.2 |
| Food service | 7.7 | 15.4 | 24.6 | 23.3 | 27.0 | 23.7 | 24.3 | 18.5 | 22.7 |
| Health care | 9.8 | 28.1 | 41.1 | 38.6 | 33.0 | 27.7 | 24.8 | 21.4 | 24.9 |
| Inpatient | 19.4 | 83.3 | 37.3 | 26.6 | 19.4 | 44.4 | 27.6 | 36.4 | 34.9 |
| Outpatient | 10.3 | 29.7 | 46.0 | 42.4 | 34.6 | 29.1 | 25.4 | 22.2 | 26.5 |
| Lodging | 9.4 | 38.0 | 44.1 | 24.6 | 29.4 | 18.7 | 19.9 | 26.3 | 27.6 |
| Mercantile | 7.3 | 24.2 | 27.6 | 21.5 | 19.0 | 17.5 | 21.7 | 13.6 | 26.5 |
| Retail (other than mall) | 10.1 | 25.2 | 31.9 | 27.8 | 26.6 | 20.7 | 28.4 | 19.8 | 38.2 |
| Enclosed and strip malls | 7.6 | 67.4 | 47.1 | 35.0 | 27.3 | 31.3 | 32.7 | 18.3 | 29.5 |
| Office | 7.2 | 15.6 | 20.6 | 15.9 | 13.3 | 12.3 | 15.1 | 16.8 | 25.5 |
| Public assembly | 9.1 | 18.2 | 19.9 | 22.9 | 20.4 | 26.9 | 19.3 | 21.8 | 27.3 |
| Public order and safety | 20.2 | 51.3 | 98.0 | 92.4 | 62.8 | 39.2 | 51.3 | 35.2 | 49.3 |
| Religious worship | 9.5 | 19.2 | 21.5 | 20.2 | 22.5 | 23.2 | 26.4 | 19.5 | 36.3 |
| Service | 7.4 | 20.7 | 21.4 | 16.8 | 16.2 | 18.5 | 22.5 | 18.5 | 25.3 |
| Warehouse and storage | 7.4 | 27.0 | 19.4 | 20.1 | 16.6 | 18.9 | 15.6 | 19.5 | 21.7 |
| Other | 17.1 | 55.6 | 40.5 | 43.7 | 39.2 | 26.0 | 39.2 | 46.0 | 62.7 |
| Vacant | 17.2 | 29.8 | 46.0 | 30.5 | 34.3 | 35.9 | 42.6 | 76.1 | 85.6 |
| Census region | | | | | | | | | |
| Northeast | 9.9 | 14.9 | 20.9 | 19.5 | 20.1 | 14.5 | 17.0 | 23.2 | 23.0 |
| Midwest | 10.9 | 21.1 | 16.3 | 12.8 | 16.1 | 16.3 | 16.9 | 15.2 | 25.0 |
| South | 7.7 | 14.8 | 14.3 | 11.4 | 13.8 | 13.1 | 13.2 | 14.4 | 17.6 |
| West | 8.1 | 16.9 | 17.7 | 13.6 | 15.9 | 10.2 | 12.1 | 15.0 | 18.9 |
| Climate zone^a | | | | | | | | | |
| Cold or very cold | 18.8 | 23.8 | 30.5 | 23.0 | 28.9 | 15.8 | 32.6 | 21.8 | 19.6 |
| Cool | 11.8 | 19.0 | 19.5 | 15.2 | 16.1 | 18.1 | 17.0 | 17.2 | 25.3 |
| Mixed mild | 15.1 | 19.8 | 19.5 | 17.9 | 19.2 | 17.2 | 20.5 | 21.0 | 26.2 |
| Warm | 11.4 | 16.9 | 19.9 | 13.7 | 17.5 | 15.9 | 16.8 | 18.7 | 16.8 |
| Hot or very hot | 18.8 | 36.1 | 25.8 | 15.0 | 27.7 | 20.8 | 26.0 | 23.0 | 32.5 |

Relative Standard Errors (RSEs) for Table B8. Year constructed, number of buildings, 2018

RSEs for number of buildings

| | Year constructed | | | | | | | | |
|---|------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| Number of floors | | | | | | | | | |
| 1 | 4.3 | 10.8 | 10.8 | 8.0 | 9.2 | 9.0 | 8.4 | 9.1 | 12.4 |
| 2 | 5.8 | 12.6 | 14.6 | 12.6 | 12.3 | 11.1 | 13.2 | 12.4 | 19.5 |
| 3 | 10.5 | 18.4 | 17.0 | 28.3 | 20.9 | 22.3 | 26.1 | 21.0 | 23.1 |
| 4 to 9 | 9.4 | 16.9 | 23.9 | 27.3 | 19.3 | 19.1 | 24.5 | 38.4 | 16.7 |
| 10 or more | 9.8 | 37.5 | 52.0 | 21.6 | 26.2 | 16.2 | 29.8 | 25.6 | 29.7 |
| Elevators and escalators (more than one may apply) | | | | | | | | | |
| Any elevators | 6.5 | 15.9 | 16.2 | 17.3 | 11.7 | 11.5 | 16.2 | 13.1 | 16.3 |
| 1 elevator | 7.7 | 18.7 | 18.6 | 21.0 | 16.1 | 16.1 | 20.0 | 18.0 | 23.1 |
| 2 to 5 elevators | 6.7 | 20.2 | 21.9 | 16.2 | 15.0 | 17.8 | 14.8 | 12.0 | 15.4 |
| 6 or more elevators | 7.8 | 21.6 | 29.2 | 14.5 | 20.4 | 13.6 | 16.2 | 12.5 | 19.9 |
| Any escalators | 28.9 | 58.1 | 89.4 | 47.9 | 31.5 | 39.6 | 19.5 | 52.2 | 81.5 |
| Number of workers (main shift) | | | | | | | | | |
| Fewer than 5 | 5.5 | 10.9 | 11.7 | 9.1 | 10.0 | 10.1 | 10.1 | 10.5 | 16.7 |
| 5 to 9 | 6.1 | 16.6 | 15.6 | 13.9 | 17.9 | 14.7 | 11.9 | 16.0 | 18.0 |
| 10 to 19 | 6.5 | 17.5 | 24.0 | 20.3 | 12.3 | 14.4 | 20.3 | 15.2 | 16.2 |
| 20 to 49 | 6.3 | 18.5 | 24.4 | 17.9 | 14.7 | 12.0 | 14.4 | 14.6 | 16.0 |
| 50 to 99 | 6.7 | 19.9 | 19.1 | 17.3 | 23.9 | 16.5 | 21.1 | 13.4 | 18.9 |
| 100 to 249 | 7.1 | 21.6 | 19.9 | 14.2 | 15.7 | 16.7 | 13.6 | 13.0 | 18.3 |
| 250 or more | 7.2 | 25.2 | 35.0 | 19.1 | 19.4 | 12.4 | 13.0 | 18.7 | 21.2 |
| Weekly operating hours | | | | | | | | | |
| Fewer than 40 | 6.1 | 12.3 | 16.3 | 14.0 | 13.3 | 14.4 | 13.7 | 16.7 | 25.3 |
| 40 to 48 | 6.2 | 16.1 | 16.4 | 15.5 | 12.2 | 11.6 | 11.1 | 12.6 | 22.3 |
| 49 to 60 | 5.2 | 10.4 | 15.8 | 13.6 | 14.5 | 11.9 | 12.1 | 12.2 | 16.1 |
| 61 to 84 | 7.6 | 18.2 | 25.9 | 17.0 | 19.4 | 16.7 | 21.0 | 18.6 | 22.8 |
| 85 to 167 | 8.6 | 25.4 | 24.1 | 24.3 | 25.8 | 18.5 | 19.3 | 18.3 | 21.4 |
| Open continuously | 8.1 | 27.8 | 32.8 | 19.0 | 21.4 | 15.6 | 21.4 | 16.6 | 20.4 |
| Ownership and occupancy | | | | | | | | | |
| Nongovernment owned | 3.8 | 8.1 | 9.1 | 7.2 | 7.5 | 7.2 | 8.5 | 7.8 | 11.9 |
| Owner occupied | 4.3 | 9.6 | 10.1 | 10.2 | 9.5 | 9.8 | 9.9 | 8.5 | 16.5 |
| Leased to tenant or tenants | 5.5 | 12.4 | 18.0 | 11.8 | 11.0 | 9.8 | 12.7 | 12.4 | 15.8 |
| Unoccupied | 20.3 | 53.3 | 46.5 | 40.2 | 34.5 | 40.9 | 62.3 | 77.4 | 87.6 |
| Government owned | 9.5 | 25.6 | 14.9 | 17.0 | 17.5 | 15.7 | 12.7 | 19.2 | 17.7 |
| Federal | 26.0 | 57.0 | 51.8 | 44.0 | 76.1 | 98.0 | 35.0 | 43.9 | 54.4 |
| State | 12.9 | 46.9 | 38.5 | 30.4 | 30.0 | 26.0 | 23.7 | 27.1 | 42.6 |
| Local | 10.1 | 20.8 | 21.3 | 20.6 | 21.6 | 19.6 | 15.4 | 23.0 | 22.7 |
| Party responsible for operation of energy systems | | | | | | | | | |
| Building owner | 4.4 | 8.8 | 8.4 | 7.4 | 9.0 | 7.8 | 8.3 | 8.2 | 12.4 |
| Business owner or tenant | 6.5 | 19.7 | 22.1 | 16.1 | 13.4 | 15.5 | 18.4 | 18.5 | 24.2 |
| Property management | 20.7 | 60.2 | 84.4 | 54.5 | 49.3 | 54.6 | 43.8 | 39.0 | 53.9 |
| Other | 18.8 | 45.3 | 89.9 | 47.9 | 46.1 | 43.2 | 57.7 | 39.4 | 67.2 |

Relative Standard Errors (RSEs) for Table B8. Year constructed, number of buildings, 2018

RSEs for number of buildings

| | Year constructed | | | | | | | | |
|---|------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| Provider of direct input on energy-related equipment purchases | | | | | | | | | |
| Building owner | 4.4 | 8.8 | 8.4 | 7.3 | 8.7 | 7.2 | 8.6 | 8.4 | 11.8 |
| Business owner or tenant | 8.9 | 22.2 | 23.5 | 22.6 | 20.4 | 21.9 | 23.8 | 22.6 | 30.6 |
| Property management | 25.5 | 86.9 | 79.2 | 59.1 | 54.3 | 77.3 | 51.1 | 46.6 | 56.8 |
| Other | 10.5 | 26.5 | 47.3 | 27.8 | 24.4 | 32.1 | 36.5 | 27.2 | 67.7 |
| Number of establishments | | | | | | | | | |
| 1 | 4.6 | 9.9 | 8.2 | 7.5 | 8.5 | 8.2 | 8.8 | 9.0 | 12.0 |
| 2 to 5 | 6.0 | 15.5 | 22.2 | 16.1 | 14.6 | 14.5 | 16.8 | 13.3 | 21.4 |
| 6 to 10 | 11.5 | 39.4 | 34.3 | 33.3 | 36.4 | 23.5 | 34.6 | 18.1 | 41.6 |
| 11 to 20 | 18.0 | 50.6 | 53.9 | 52.5 | 37.3 | 24.0 | 27.2 | 55.5 | 58.3 |
| More than 20 | 18.6 | 38.3 | 61.4 | 40.9 | 30.6 | 37.4 | 24.2 | 36.3 | 35.4 |
| Currently unoccupied | 18.7 | 46.1 | 46.5 | 36.2 | 34.4 | 40.9 | 48.4 | 76.2 | 87.6 |
| Campus or complex activity | | | | | | | | | |
| Not part of a campus or complex | 4.3 | 8.9 | 10.2 | 7.5 | 8.0 | 7.9 | 8.8 | 8.6 | 13.0 |
| Primary or secondary school | 12.1 | 47.2 | 24.0 | 30.7 | 32.2 | 38.7 | 18.8 | 28.2 | 43.3 |
| College or university | 21.8 | 36.1 | 44.1 | 37.2 | 26.1 | 49.2 | 33.9 | 51.0 | 64.2 |
| Office complex | 12.7 | 49.9 | 65.0 | 28.4 | 52.3 | 24.7 | 45.8 | 31.6 | 42.4 |
| Retail complex | 13.2 | 53.0 | 40.0 | 34.3 | 31.7 | 34.9 | 28.5 | 21.8 | 35.2 |
| Storage complex | 14.4 | 45.5 | 44.4 | 49.4 | 37.3 | 43.7 | 23.3 | 24.3 | 29.2 |
| Religious campus or complex | 11.5 | 25.7 | 25.5 | 24.9 | 29.0 | 33.4 | 29.4 | 29.6 | 52.2 |
| Health care complex | 18.0 | 60.3 | 52.7 | 52.1 | 42.5 | 45.7 | 44.9 | 40.4 | 42.1 |
| Lodging or resort complex | 15.1 | 44.6 | 88.7 | 41.2 | 35.2 | 34.7 | 31.0 | 37.6 | 73.4 |
| Transportation complex | 34.3 | 49.8 | 53.3 | 78.7 | 78.4 | 65.8 | 71.5 | 63.9 | 110.9 |
| Government complex | 18.1 | 41.6 | 52.9 | 62.9 | 42.7 | 46.4 | 43.9 | 44.6 | 55.1 |
| Other | 9.2 | 22.8 | 44.6 | 24.3 | 23.8 | 23.2 | 24.8 | 21.1 | 29.5 |
| Predominant exterior wall material | | | | | | | | | |
| Brick, stone, or stucco | 5.3 | 11.6 | 11.1 | 8.1 | 11.5 | 11.0 | 11.8 | 9.7 | 12.0 |
| Concrete (block or poured) | 5.3 | 17.5 | 15.8 | 13.2 | 13.7 | 20.7 | 19.2 | 15.0 | 20.1 |
| Concrete panels | 12.1 | 46.3 | 75.8 | 45.2 | 37.5 | 34.5 | 28.4 | 24.5 | 23.6 |
| Siding or shingles | 7.3 | 12.7 | 26.7 | 28.1 | 20.4 | 14.5 | 15.1 | 18.4 | 24.5 |
| Metal panels | 7.6 | 39.7 | 33.6 | 22.5 | 14.1 | 14.8 | 13.4 | 14.4 | 21.1 |
| Window glass | 21.3 | 0.0 | 40.8 | 81.8 | 47.9 | 39.3 | 31.0 | 48.7 | 32.7 |
| Other | 14.7 | 42.3 | 50.1 | 56.0 | 40.5 | 33.4 | 39.0 | 29.7 | 50.3 |
| Predominant roof material | | | | | | | | | |
| Metal surfacing | 6.2 | 15.3 | 17.8 | 16.2 | 11.6 | 11.5 | 10.8 | 12.3 | 17.1 |
| Synthetic or rubber | 6.0 | 15.1 | 17.5 | 13.5 | 13.5 | 14.5 | 14.6 | 10.3 | 16.0 |
| Built-up | 7.7 | 16.9 | 19.6 | 14.3 | 18.4 | 16.4 | 18.0 | 18.8 | 22.9 |
| Slate or tile shingles | 10.1 | 26.2 | 25.5 | 22.9 | 37.1 | 19.3 | 20.5 | 23.0 | 31.8 |
| Wooden materials (including shingles) | 12.9 | 34.9 | 59.1 | 51.8 | 34.9 | 30.8 | 53.2 | 31.5 | 48.4 |
| Asphalt, fiberglass, or other shingles | 6.2 | 12.4 | 16.0 | 14.9 | 12.9 | 12.2 | 14.9 | 12.0 | 24.9 |
| Concrete | 20.6 | 56.3 | 43.3 | 49.4 | 52.6 | 55.4 | 47.9 | 44.4 | 48.9 |
| Other | 15.6 | 44.4 | 42.9 | 34.0 | 35.8 | 30.7 | 31.1 | 30.8 | 46.7 |

Relative Standard Errors (RSEs) for Table B8. Year constructed, number of buildings, 2018

RSEs for number of buildings

| | Year constructed | | | | | | | | |
|---|------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| Roof tilt | | | | | | | | | |
| Flat | 4.9 | 14.9 | 14.1 | 8.2 | 13.0 | 10.6 | 11.5 | 10.1 | 14.7 |
| Shallow pitch | 5.0 | 12.2 | 13.6 | 11.8 | 10.2 | 11.5 | 10.5 | 12.5 | 12.3 |
| Steeper pitch | 7.5 | 10.8 | 15.3 | 16.9 | 13.5 | 14.2 | 11.1 | 12.3 | 25.2 |
| Cool roof characteristics (more than one may apply) | | | | | | | | | |
| White or reflective coating or paint | 5.8 | 15.7 | 16.1 | 9.7 | 12.5 | 12.9 | 15.9 | 10.6 | 16.4 |
| White or reflective tiles or shingles | 15.4 | 41.6 | 43.8 | 37.8 | 63.7 | 36.7 | 37.0 | 24.3 | 31.4 |
| Aluminum coating | 8.8 | 22.2 | 41.9 | 28.3 | 20.7 | 18.9 | 22.8 | 19.3 | 26.4 |
| Ballasted roof system | 14.8 | 36.3 | 57.5 | 49.5 | 30.8 | 34.3 | 24.4 | 22.7 | 49.6 |
| Other cool roof property | 29.3 | 50.7 | 63.1 | 64.4 | 60.9 | 77.8 | 49.8 | 42.7 | 36.4 |
| Renovations since 2000 (more than one may apply) | | | | | | | | | |
| Any type of renovation | 5.0 | 10.5 | 14.0 | 10.5 | 9.1 | 8.7 | 8.5 | 12.5 | 32.2 |
| Addition or annex | 9.4 | 24.6 | 18.6 | 27.7 | 20.8 | 22.3 | 20.1 | 21.9 | 46.4 |
| Reduction in floorspace | 22.2 | 61.9 | 56.3 | 71.4 | 38.9 | 67.7 | 45.8 | 37.6 | 86.4 |
| Roof replacement | 6.8 | 12.0 | 19.5 | 14.1 | 16.8 | 13.8 | 13.8 | 19.2 | 58.3 |
| Interior wall reconfiguration | 6.0 | 18.3 | 18.9 | 16.4 | 13.2 | 14.4 | 14.4 | 16.9 | 45.4 |
| Window replacement | 9.5 | 19.9 | 23.1 | 18.8 | 20.6 | 25.7 | 27.5 | 23.8 | 74.6 |
| HVAC equipment upgrade | 7.0 | 13.7 | 17.4 | 13.6 | 13.9 | 12.2 | 12.0 | 16.9 | 38.3 |
| Lighting upgrade | 5.9 | 11.1 | 18.0 | 14.5 | 12.4 | 14.2 | 12.3 | 15.3 | 35.1 |
| Electrical upgrade | 7.1 | 12.4 | 20.1 | 22.1 | 18.0 | 20.4 | 18.5 | 22.6 | 55.5 |
| Plumbing system upgrade | 7.8 | 16.5 | 24.3 | 22.0 | 16.4 | 17.1 | 16.4 | 21.0 | 59.7 |
| Insulation upgrade | 9.2 | 16.8 | 26.7 | 31.8 | 20.1 | 24.7 | 27.7 | 32.3 | 59.3 |
| Fire, safety, or security upgrade | 6.2 | 14.6 | 18.9 | 19.5 | 16.3 | 13.7 | 15.2 | 19.1 | 54.9 |
| Structural upgrade | 13.9 | 27.6 | 41.2 | 43.0 | 38.6 | 39.5 | 37.0 | 39.7 | 67.5 |
| Other | 29.5 | 65.7 | 80.0 | 68.8 | 68.5 | 49.7 | 53.6 | 66.8 | 49.4 |
| No renovations | 4.3 | 9.1 | 11.7 | 7.9 | 9.2 | 9.2 | 10.0 | 9.1 | 16.1 |
| Buildings constructed 2013 or later | 11.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.9 |
| Energy sources (more than one may apply) | | | | | | | | | |
| Electricity | 3.9 | 8.9 | 8.1 | 6.2 | 7.2 | 6.7 | 7.2 | 8.4 | 11.1 |
| Natural gas | 4.8 | 12.0 | 11.3 | 7.5 | 9.4 | 7.6 | 9.4 | 9.1 | 11.3 |
| Fuel oil | 9.7 | 15.1 | 21.6 | 24.2 | 28.2 | 17.9 | 20.8 | 23.6 | 25.7 |
| District heat | 14.7 | 33.9 | 34.5 | 36.4 | 32.4 | 33.9 | 36.6 | 28.3 | 32.8 |
| District chilled water | 20.1 | 39.2 | 64.7 | 48.0 | 33.7 | 31.4 | 39.3 | 33.7 | 33.3 |
| Propane | 10.0 | 17.8 | 22.7 | 21.8 | 22.8 | 25.3 | 18.7 | 19.2 | 24.3 |
| Solar | 15.5 | 44.4 | 47.5 | 33.4 | 51.0 | 31.7 | 47.5 | 35.6 | 28.8 |
| Wood, coal, and other | 17.3 | 48.6 | 39.0 | 52.3 | 35.2 | 41.6 | 38.5 | 50.6 | 42.3 |
| Space-heating energy sources (more than one may apply) | | | | | | | | | |
| Electricity | 4.7 | 12.4 | 10.3 | 8.2 | 8.7 | 9.1 | 8.3 | 11.0 | 15.2 |
| Natural gas | 5.2 | 12.8 | 12.0 | 7.9 | 9.8 | 8.2 | 10.0 | 9.2 | 11.9 |
| Fuel oil | 13.9 | 19.2 | 25.8 | 33.4 | 39.4 | 31.8 | 33.2 | 52.5 | 44.5 |
| District heat | 15.4 | 34.0 | 36.3 | 38.5 | 32.5 | 34.1 | 31.9 | 28.4 | 33.9 |
| Propane | 13.5 | 18.2 | 28.4 | 29.9 | 30.9 | 30.8 | 26.2 | 27.5 | 33.0 |
| Other sources ^b | 21.3 | 65.9 | 42.5 | 62.6 | 49.7 | 50.3 | 40.3 | 91.2 | 52.7 |

Relative Standard Errors (RSEs) for Table B8. Year constructed, number of buildings, 2018

RSEs for number of buildings

| | Year constructed | | | | | | | | |
|---|------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| Primary space-heating energy source | | | | | | | | | |
| Electricity | 6.4 | 13.4 | 15.8 | 12.3 | 10.8 | 11.2 | 9.8 | 12.8 | 16.6 |
| Natural gas | 5.5 | 13.6 | 12.1 | 8.2 | 10.6 | 8.6 | 10.4 | 9.5 | 12.7 |
| Fuel oil | 16.1 | 20.3 | 28.6 | 36.5 | 48.4 | 35.5 | 32.4 | 58.1 | 48.3 |
| District heat | 15.8 | 34.8 | 38.3 | 39.3 | 33.9 | 35.7 | 33.1 | 28.4 | 36.5 |
| Propane | 17.5 | 21.1 | 32.8 | 34.9 | 40.5 | 34.9 | 28.4 | 28.7 | 46.8 |
| Other sources ^b | 22.4 | 53.0 | 57.9 | 50.4 | 43.8 | 57.1 | 49.5 | 74.9 | 70.9 |
| Cooling energy sources (more than one may apply) | | | | | | | | | |
| Electricity | 3.9 | 10.1 | 7.9 | 6.6 | 6.9 | 7.3 | 7.0 | 8.8 | 12.2 |
| Natural gas | 37.3 | 68.0 | 50.2 | 59.0 | 39.3 | 59.7 | 51.4 | 51.9 | 49.6 |
| District chilled water | 20.1 | 39.2 | 64.7 | 48.0 | 33.7 | 31.4 | 39.3 | 33.7 | 33.3 |
| Water-heating energy sources (more than one may apply) | | | | | | | | | |
| Electricity | 4.0 | 10.7 | 10.6 | 9.8 | 8.9 | 8.8 | 10.4 | 9.6 | 17.3 |
| Natural gas | 5.5 | 12.5 | 13.6 | 8.8 | 11.6 | 8.7 | 11.9 | 10.1 | 15.2 |
| Fuel oil | 24.0 | 27.0 | 49.1 | 89.1 | 70.7 | 54.0 | 40.4 | 54.6 | 34.6 |
| District heat | 17.4 | 38.5 | 37.8 | 35.4 | 43.4 | 57.6 | 60.1 | 33.4 | 34.2 |
| Propane | 15.8 | 28.1 | 36.9 | 40.4 | 52.0 | 37.1 | 35.4 | 36.4 | 43.0 |
| Cooking energy sources (more than one may apply) | | | | | | | | | |
| Electricity | 5.7 | 13.6 | 15.8 | 13.9 | 14.9 | 12.8 | 14.0 | 12.2 | 17.5 |
| Natural gas | 5.4 | 13.1 | 16.7 | 14.0 | 16.4 | 14.4 | 14.7 | 11.6 | 15.6 |
| Propane | 14.8 | 24.1 | 39.5 | 28.5 | 39.8 | 57.8 | 32.1 | 25.7 | 41.5 |
| Energy end uses (more than one may apply) | | | | | | | | | |
| Buildings with space heating | 4.1 | 9.4 | 8.3 | 6.1 | 7.5 | 7.3 | 7.4 | 9.2 | 11.8 |
| Buildings with cooling | 3.9 | 10.0 | 8.1 | 6.4 | 6.8 | 7.3 | 6.9 | 8.7 | 12.2 |
| Buildings with water heating | 3.9 | 9.2 | 8.8 | 6.6 | 7.6 | 7.1 | 8.1 | 8.6 | 12.4 |
| Buildings with cooking | 5.0 | 11.3 | 12.9 | 11.7 | 11.7 | 10.9 | 12.2 | 10.5 | 14.8 |
| Buildings with manufacturing | 11.3 | 29.6 | 36.5 | 31.9 | 24.1 | 29.5 | 30.6 | 24.5 | 34.6 |
| Buildings with electricity generation | 7.4 | 20.7 | 18.5 | 18.3 | 24.0 | 16.1 | 17.1 | 13.5 | 17.9 |
| Buildings with lighting | 3.9 | 9.0 | 8.3 | 6.3 | 7.2 | 6.7 | 6.9 | 8.5 | 11.2 |
| Percentage of floorspace heated | | | | | | | | | |
| Not heated | 8.2 | 20.0 | 24.7 | 21.7 | 20.4 | 18.6 | 17.1 | 15.2 | 21.7 |
| 1 to 50% | 8.5 | 16.0 | 16.7 | 22.8 | 21.4 | 21.9 | 16.6 | 23.1 | 21.8 |
| 51 to 99% | 6.7 | 16.4 | 16.8 | 16.5 | 14.6 | 16.6 | 16.5 | 17.9 | 22.4 |
| 100% | 4.1 | 10.4 | 11.4 | 7.4 | 8.4 | 7.6 | 8.9 | 8.7 | 13.7 |
| Percentage of floorspace cooled | | | | | | | | | |
| Not cooled | 7.1 | 15.6 | 22.4 | 18.8 | 17.8 | 17.1 | 16.7 | 14.7 | 19.6 |
| 1 to 50% | 5.9 | 13.8 | 11.6 | 16.2 | 13.3 | 14.2 | 13.7 | 17.5 | 22.4 |
| 51 to 99% | 6.6 | 13.8 | 17.0 | 14.8 | 14.8 | 13.5 | 14.4 | 16.3 | 19.7 |
| 100% | 4.3 | 14.1 | 13.7 | 8.4 | 9.6 | 9.1 | 8.9 | 8.9 | 15.0 |

Relative Standard Errors (RSEs) for Table B8. Year constructed, number of buildings, 2018

RSEs for number of buildings

| | Year constructed | | | | | | | | |
|--|------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| Percentage lit when open | | | | | | | | | |
| 0% | 35.1 | 0.0 | 95.7 | 109.5 | 0.0 | 0.0 | 83.2 | 39.1 | 63.4 |
| 1 to 50% | 6.7 | 12.7 | 16.7 | 15.7 | 16.2 | 19.1 | 11.9 | 15.6 | 22.8 |
| 51 to 99% | 4.8 | 13.0 | 14.6 | 9.5 | 10.3 | 10.2 | 12.5 | 12.5 | 13.1 |
| 100% | 4.7 | 11.0 | 16.1 | 11.5 | 9.7 | 9.2 | 9.4 | 10.2 | 14.9 |
| Building never open or electricity not used | 11.6 | 24.5 | 27.6 | 28.6 | 30.7 | 24.4 | 29.9 | 29.2 | 27.5 |
| Percentage lit during off hours | | | | | | | | | |
| 0% | 6.5 | 14.7 | 16.3 | 11.7 | 11.8 | 16.1 | 10.7 | 13.2 | 17.7 |
| 1 to 50% | 3.8 | 8.9 | 10.5 | 8.6 | 8.5 | 8.4 | 8.8 | 9.2 | 11.6 |
| 51 to 100% | 10.6 | 36.3 | 28.8 | 27.0 | 32.0 | 26.6 | 16.6 | 28.7 | 32.5 |
| Building always open with no off hours | 15.2 | 50.5 | 52.2 | 56.6 | 38.6 | 33.2 | 36.0 | 24.0 | 48.5 |
| Electricity not used | 16.0 | 49.9 | 47.8 | 46.0 | 40.0 | 36.1 | 33.7 | 33.4 | 33.9 |
| Heating equipment (more than one may apply) | | | | | | | | | |
| Packaged heating units | 4.0 | 14.6 | 12.0 | 9.9 | 10.4 | 8.7 | 8.1 | 9.8 | 13.5 |
| Furnaces | 7.2 | 17.0 | 14.2 | 11.6 | 17.0 | 14.4 | 11.6 | 15.8 | 19.3 |
| Individual space heaters | 5.9 | 14.1 | 15.2 | 12.9 | 13.5 | 15.1 | 14.1 | 12.1 | 20.7 |
| Boilers | 6.2 | 10.9 | 15.0 | 14.3 | 22.8 | 14.8 | 14.0 | 13.5 | 12.9 |
| Heat pumps | 7.7 | 17.5 | 22.4 | 16.5 | 15.0 | 15.5 | 17.9 | 17.4 | 18.4 |
| District heat | 15.4 | 34.0 | 36.3 | 38.5 | 32.5 | 34.1 | 31.9 | 28.4 | 33.9 |
| Duct reheat | 12.6 | 52.0 | 47.6 | 40.2 | 32.1 | 24.1 | 45.0 | 23.1 | 36.4 |
| Other | 46.4 | 111.3 | 110.2 | 50.5 | 68.6 | 66.8 | 60.3 | 58.7 | 49.8 |
| Cooling equipment (more than one may apply) | | | | | | | | | |
| Packaged air-conditioning units | 4.3 | 11.7 | 12.2 | 8.7 | 11.2 | 9.7 | 9.0 | 10.1 | 13.6 |
| Residential-type central air conditioners | 7.6 | 17.8 | 14.8 | 15.9 | 15.1 | 14.6 | 12.1 | 16.3 | 26.3 |
| Individual air conditioners | 6.6 | 13.4 | 15.0 | 17.7 | 14.3 | 19.0 | 14.4 | 18.2 | 34.3 |
| Central chillers | 9.0 | 18.9 | 27.2 | 20.4 | 21.6 | 30.7 | 16.7 | 14.4 | 16.5 |
| Heat pumps | 11.0 | 24.1 | 32.1 | 19.7 | 13.6 | 25.0 | 20.0 | 19.1 | 26.6 |
| District chilled water | 20.1 | 39.2 | 64.7 | 48.0 | 33.7 | 31.4 | 39.3 | 33.7 | 33.3 |
| Swamp coolers | 12.8 | 55.3 | 69.8 | 40.8 | 55.2 | 43.7 | 34.0 | 37.2 | 52.9 |
| Other | 53.2 | 80.5 | 0.0 | 50.9 | 0.0 | 68.5 | 82.0 | 50.8 | 70.3 |
| HVAC features (more than one may apply) | | | | | | | | | |
| Economizer cycle | 5.6 | 18.0 | 17.5 | 15.4 | 15.9 | 12.7 | 13.3 | 10.8 | 15.8 |
| Variable air volume (VAV) system | 8.4 | 26.2 | 21.0 | 17.8 | 18.8 | 17.9 | 19.9 | 12.9 | 19.6 |
| Dedicated outside air system (DOAS) | 11.0 | 34.6 | 33.1 | 27.5 | 28.4 | 36.9 | 25.4 | 20.3 | 48.5 |
| Demand controlled ventilation (DCV) | 8.8 | 25.2 | 24.1 | 23.1 | 22.8 | 23.3 | 18.1 | 20.9 | 29.1 |
| Regular HVAC maintenance | 4.2 | 9.5 | 9.0 | 8.2 | 8.4 | 8.8 | 7.4 | 9.2 | 12.0 |
| Building automation system (BAS) controls heating or cooling | 6.4 | 14.9 | 17.5 | 17.6 | 15.5 | 13.4 | 12.0 | 10.8 | 16.7 |
| Internet-connected or smart thermostat | 12.2 | 30.1 | 38.7 | 31.1 | 23.5 | 23.6 | 26.9 | 21.9 | 28.9 |
| Programmable thermostat | 4.7 | 10.7 | 15.4 | 12.9 | 9.7 | 10.9 | 10.9 | 11.8 | 16.8 |

Relative Standard Errors (RSEs) for Table B8. Year constructed, number of buildings, 2018

RSEs for number of buildings

| | Year constructed | | | | | | | | |
|---|------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| Main equipment replaced since 2000 (more than one may apply) | | | | | | | | | |
| Heating | 4.9 | 10.1 | 13.2 | 9.0 | 9.3 | 9.0 | 9.9 | 0.0 | 0.0 |
| Cooling | 4.8 | 12.1 | 11.9 | 11.3 | 13.0 | 9.8 | 12.2 | 0.0 | 0.0 |
| Water-heating equipment | | | | | | | | | |
| Centralized system | 4.4 | 9.8 | 9.8 | 7.6 | 8.4 | 8.9 | 8.6 | 9.3 | 12.7 |
| Distributed system | 8.9 | 20.9 | 22.5 | 17.9 | 18.0 | 18.1 | 22.3 | 17.1 | 25.2 |
| Combination of centralized and distributed systems | 8.8 | 30.0 | 24.1 | 29.1 | 30.5 | 18.5 | 20.7 | 19.9 | 27.0 |
| Generation technologies (more than one may apply) | | | | | | | | | |
| Reciprocating engine generators | 8.8 | 22.2 | 20.7 | 20.4 | 27.1 | 17.9 | 18.3 | 14.5 | 20.1 |
| Solar panels | 15.4 | 44.6 | 47.6 | 41.6 | 51.0 | 31.7 | 47.9 | 35.6 | 31.0 |
| Other generation technology | 21.4 | 87.8 | 47.6 | 87.6 | 46.7 | 38.7 | 44.8 | 41.6 | 51.2 |
| Lighting equipment types (more than one may apply) | | | | | | | | | |
| Incandescent | 7.8 | 13.7 | 18.1 | 14.6 | 19.0 | 14.3 | 10.3 | 17.4 | 30.3 |
| Standard fluorescent | 4.2 | 10.1 | 9.5 | 7.4 | 8.3 | 7.9 | 7.6 | 9.9 | 12.1 |
| Compact fluorescent | 5.2 | 14.0 | 18.0 | 12.9 | 15.2 | 11.2 | 11.6 | 12.7 | 16.4 |
| High-intensity discharge (HID) | 9.8 | 37.5 | 34.3 | 30.1 | 34.5 | 35.1 | 21.3 | 19.0 | 34.8 |
| Halogen | 8.0 | 22.6 | 20.5 | 27.0 | 17.7 | 18.5 | 15.3 | 13.5 | 23.0 |
| LED | 3.6 | 10.1 | 10.5 | 9.1 | 8.5 | 8.5 | 8.1 | 8.7 | 14.0 |
| Other | 57.3 | 0.0 | 81.2 | 0.0 | 101.0 | 10.2 | 70.9 | 70.9 | 51.8 |
| Refrigeration equipment (more than one may apply) | | | | | | | | | |
| Any refrigeration | 4.1 | 9.2 | 9.4 | 6.9 | 8.6 | 8.1 | 7.8 | 9.1 | 11.8 |
| Walk-in units | 5.4 | 13.9 | 16.0 | 14.1 | 16.6 | 14.3 | 11.8 | 11.0 | 14.5 |
| Cases or cabinets | 5.8 | 13.1 | 15.3 | 15.4 | 15.8 | 15.6 | 18.6 | 10.5 | 15.3 |
| Large cold storage areas | 17.2 | 47.9 | 52.7 | 47.9 | 33.2 | 58.8 | 32.6 | 35.7 | 38.3 |
| Commercial ice makers | 5.5 | 13.3 | 14.6 | 12.7 | 16.9 | 14.9 | 10.4 | 9.4 | 13.9 |
| Residential-type or compact units | 4.3 | 10.2 | 10.0 | 7.6 | 9.2 | 8.4 | 8.9 | 10.5 | 11.5 |
| Vending machines | 6.1 | 15.5 | 19.8 | 14.9 | 14.9 | 12.6 | 11.5 | 13.6 | 14.0 |
| No refrigeration | 5.3 | 12.2 | 15.8 | 12.8 | 12.9 | 10.6 | 12.1 | 12.1 | 17.3 |
| Office equipment (more than one may apply) | | | | | | | | | |
| Desktop computers | 4.0 | 9.7 | 9.8 | 7.4 | 8.6 | 7.2 | 8.3 | 9.0 | 10.8 |
| With multiple monitors | 5.0 | 14.1 | 14.9 | 13.0 | 12.1 | 9.9 | 12.5 | 11.1 | 17.8 |
| Laptop computers | 4.0 | 10.6 | 11.4 | 8.5 | 9.6 | 8.0 | 7.8 | 9.0 | 13.3 |
| Dedicated servers | 4.9 | 12.8 | 12.9 | 11.8 | 10.5 | 9.2 | 10.6 | 11.3 | 14.2 |
| Tablets charged in building | 4.4 | 10.5 | 13.0 | 12.6 | 10.0 | 10.6 | 9.4 | 11.8 | 14.2 |
| Large floor-standing office devices ^c | 4.4 | 12.3 | 13.4 | 11.8 | 11.7 | 8.3 | 9.6 | 10.8 | 11.8 |
| Smaller desktop office devices ^c | 4.1 | 10.4 | 9.7 | 8.3 | 8.0 | 7.6 | 8.0 | 8.8 | 12.3 |
| Interactive whiteboards | 8.7 | 19.6 | 18.7 | 26.4 | 16.7 | 26.3 | 26.8 | 22.8 | 20.5 |
| Televisions or video displays | 3.8 | 10.7 | 11.1 | 9.5 | 11.3 | 8.2 | 8.2 | 8.8 | 10.6 |
| Point-of-sale devices or cash registers | 5.2 | 11.5 | 14.2 | 10.7 | 12.9 | 11.4 | 11.8 | 10.9 | 18.0 |

Relative Standard Errors (RSEs) for Table B8. Year constructed, number of buildings, 2018

RSEs for number of buildings

| | Year constructed | | | | | | | | |
|--|------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2009 | 2010 to 2018 |
| Food preparation or serving areas in non-food service buildings (more than one may apply) | | | | | | | | | |
| Snack bar, concession stand, or coffee shop | 11.0 | 32.7 | 28.5 | 29.6 | 31.5 | 28.0 | 29.6 | 27.7 | 24.8 |
| Fast food or small restaurant | 9.4 | 25.9 | 48.3 | 31.0 | 33.1 | 22.7 | 23.7 | 17.4 | 34.8 |
| Cafeteria or large restaurant | 7.7 | 36.9 | 19.5 | 25.0 | 21.9 | 15.3 | 16.5 | 17.9 | 20.0 |
| Commercial kitchen or food preparation area | 8.5 | 30.4 | 20.7 | 22.1 | 26.7 | 21.1 | 20.1 | 13.7 | 25.7 |
| Small kitchen area | 6.5 | 16.8 | 18.6 | 16.7 | 15.5 | 14.5 | 15.7 | 14.1 | 21.9 |
| Separate computer areas (more than one may apply) | | | | | | | | | |
| Server closet | 5.3 | 16.6 | 13.7 | 13.6 | 9.8 | 10.4 | 11.1 | 11.3 | 15.2 |
| Data center | 13.1 | 29.9 | 39.0 | 23.7 | 32.4 | 19.6 | 43.8 | 32.3 | 39.8 |
| Computer-based training room | 8.4 | 21.7 | 24.7 | 21.3 | 22.0 | 18.8 | 20.0 | 18.3 | 30.5 |
| Student or public computer center | 8.0 | 31.6 | 27.1 | 32.3 | 21.5 | 30.6 | 20.7 | 12.2 | 26.1 |
| Window and interior lighting features (more than one may apply) | | | | | | | | | |
| Multipaned windows | 4.2 | 11.9 | 9.2 | 8.4 | 10.0 | 8.1 | 8.2 | 8.4 | 12.2 |
| Tinted window glass | 4.2 | 12.8 | 14.4 | 11.7 | 9.5 | 10.9 | 9.7 | 10.7 | 13.6 |
| Reflective window glass | 7.0 | 21.3 | 27.9 | 23.6 | 18.3 | 14.3 | 19.6 | 13.8 | 22.5 |
| External overhangs or awnings | 5.0 | 12.8 | 12.9 | 14.0 | 11.4 | 15.3 | 11.8 | 10.6 | 13.7 |
| Skylights or atriums | 7.1 | 20.4 | 30.2 | 19.5 | 20.1 | 19.0 | 17.3 | 21.5 | 19.0 |
| Light scheduling | 5.2 | 14.3 | 19.2 | 17.8 | 17.4 | 15.0 | 13.8 | 11.6 | 15.3 |
| Occupancy sensors | 6.5 | 18.7 | 15.2 | 16.8 | 19.5 | 14.3 | 13.8 | 11.9 | 13.3 |
| Multilevel lighting or dimming | 10.0 | 21.1 | 23.6 | 33.8 | 22.0 | 16.0 | 26.8 | 17.6 | 21.2 |
| Daylight harvesting | 12.0 | 85.5 | 30.3 | 39.7 | 34.1 | 37.3 | 25.3 | 24.6 | 36.5 |
| Plug-load control | 18.4 | 49.2 | 52.7 | 61.1 | 79.3 | 54.6 | 44.1 | 30.3 | 34.6 |
| Demand responsive lighting | 30.7 | 60.0 | 50.1 | 66.6 | 81.9 | 62.0 | 104.4 | 32.2 | 70.7 |
| Building automation system (BAS) for lighting | 9.3 | 39.8 | 44.9 | 28.0 | 21.5 | 22.8 | 23.0 | 14.6 | 20.9 |
| Electric vehicle (EV) charging | | | | | | | | | |
| Charging stations associated with the building | 11.5 | 43.5 | 64.0 | 29.6 | 36.5 | 15.3 | 29.3 | 27.5 | 26.9 |

Data source: U.S. Energy Information Administration, Forms EIA-871A of the 2018 Commercial Buildings Energy Consumption Survey

Note: RSE is a measure of the reliability or precision of a survey statistic. Variability occurs in survey statistics because the different samples that could be drawn would each produce different values for the survey statistics. *Estimation of Standard Errors* and *What is a Relative Standard Error (RSE)?* contain more information on how RSEs are estimated and used. Both references can be accessed from <https://www.eia.gov/consumption/commercial/survey-background-technical-information.php>.

^aClimate zones are based on ASHRAE Standard 169-2021; see <https://www.eia.gov/consumption/commercial/maps.php#defined>.

^bOther sources includes wood, coal, solar, and all other energy sources.

^cOffice devices refers to any combination of printers, copiers, scanners, or FAX machines.