

Table E5. Electricity consumption (in kilowatthours [kWh]) by end use, 2018**Total electricity consumption (billion kWh)**

	Total	Space heating	Cooling	Ventilation	Water heating	Lighting	Cooking	Refrigeration	Office equipment	Computing	Other
All buildings	1,196	70	170	213	24	208	26	108	14	79	284
Building floorspace (square feet)											
1,001 to 5,000	109	8	16	12	3	15	4	20	2	3	25
5,001 to 10,000	108	8	18	13	3	17	5	16	1	3	23
10,001 to 25,000	165	11	25	21	3	28	3	14	2	12	45
25,001 to 50,000	167	12	27	27	4	32	2	16	2	7	40
50,001 to 100,000	184	12	28	34	4	34	3	16	2	10	41
100,001 to 200,000	171	8	23	35	3	32	3	12	2	13	39
200,001 to 500,000	175	7	21	38	2	30	3	9	2	19	45
Over 500,000	118	4	13	33	1	21	3	5	1	10	27
Principal building activity											
Education	128	7	26	19	3	22	2	6	2	10	30
Food sales	54	2	2	4	(*)	4	2	26	(*)	Q	Q
Food service	61	4	7	7	3	4	10	16	(*)	(*)	8
Health care	96	2	10	29	1	14	2	4	1	7	26
Inpatient	65	1	8	19	1	8	2	3	1	5	19
Outpatient	31	1	2	10	(*)	6	(*)	1	1	2	7
Lodging	100	7	12	25	5	15	4	8	1	2	21
Mercantile	180	12	21	34	7	41	2	21	2	6	33
Retail (other than mall)	71	3	9	18	(*)	18	1	5	1	2	15
Enclosed and strip malls	109	9	12	16	7	23	1	16	2	4	18
Office	227	13	23	63	2	38	1	6	4	25	52
Public assembly	87	8	28	8	(*)	11	1	6	1	2	22
Public order and safety	21	1	4	3	1	5	(*)	1	(*)	1	5
Religious worship	27	2	6	5	(*)	5	1	2	(*)	(*)	5
Service	45	3	7	5	(*)	14	(*)	1	1	1	13
Warehouse and storage	95	6	15	7	1	23	(*)	10	1	2	30
Other	70	2	8	5	(*)	9	(*)	1	(*)	21	23
Vacant	5	(*)	1	(*)	(*)	1	Q	(*)	(*)	(*)	2
Year constructed											
Before 1920	35	2	4	6	(*)	6	1	2	(*)	Q	9
1920 to 1945	65	3	10	14	1	11	1	5	1	7	14
1946 to 1959	66	4	10	10	2	12	1	6	1	3	17
1960 to 1969	120	5	18	21	2	22	3	11	2	6	29
1970 to 1979	160	9	23	29	4	30	3	15	2	9	37
1980 to 1989	181	12	23	34	4	30	3	15	2	16	43
1990 to 1999	178	12	27	33	3	32	3	16	2	8	41
2000 to 2009	252	14	37	43	5	42	7	25	3	17	60
2010 to 2018	139	9	18	23	4	22	3	14	2	9	35

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All buildings	1,196	70	170	213	24	208	26	108	14	79	284
Census region and division											
Northeast	189	11	16	38	3	37	3	14	2	15	48
New England	43	2	3	8	1	8	1	5	1	2	13
Middle Atlantic	146	9	14	30	2	29	2	10	2	13	35
Midwest	297	23	30	54	5	52	7	29	3	21	74
East North Central	203	13	21	38	4	36	5	23	2	12	48
West North Central	94	9	9	16	2	16	2	6	1	8	25
South	477	27	101	78	10	77	11	39	5	25	105
South Atlantic	256	15	52	43	6	41	6	20	3	12	57
East South Central	65	4	13	11	1	11	1	5	1	3	14
West South Central	156	7	35	24	3	25	4	13	2	9	34
West	232	10	23	43	5	41	5	26	3	19	58
Mountain	95	5	10	18	2	16	3	11	1	9	20
Pacific	137	5	13	25	3	25	2	15	2	10	38
Climate zone^a											
Cold or very cold	87	7	4	14	1	13	3	10	1	8	26
Cool	297	21	23	57	6	57	7	28	4	21	73
Mixed mild	319	22	40	62	5	57	6	24	3	24	76
Warm	320	17	57	54	7	54	7	30	4	17	73
Hot or very hot	173	3	47	26	3	27	4	15	2	10	36
Number of floors											
1	526	37	83	71	13	93	13	65	6	26	120
2	247	14	39	42	5	48	5	22	3	13	56
3	127	8	18	24	2	22	2	9	1	10	30
4 to 9	196	7	22	46	2	31	4	9	2	19	54
10 or more	100	4	9	31	1	13	2	4	1	12	23
Elevators and escalators (more than one may apply)											
Any elevators	511	24	64	119	7	83	9	25	6	47	126
1 elevator	155	10	24	29	2	28	2	10	2	10	37
2 to 5 elevators	200	9	25	45	3	32	3	9	2	23	49
6 or more elevators	156	5	16	45	2	23	3	6	2	14	40
Any escalators	56	2	6	15	1	9	1	3	1	5	12
Number of workers (main shift)											
Fewer than 5	160	12	31	16	3	25	3	18	1	7	44
5 to 9	121	9	19	16	3	20	4	14	2	4	31
10 to 19	128	9	19	20	4	23	5	16	2	5	26
20 to 49	219	14	31	34	6	39	5	23	2	22	43
50 to 99	176	10	25	31	3	32	2	17	2	9	45
100 to 249	180	8	25	40	3	36	3	13	2	10	40
250 or more	212	8	21	57	2	32	3	7	3	23	55
Weekly operating hours											
Fewer than 40	69	5	14	5	1	10	2	6	1	4	22
40 to 48	170	13	28	22	2	30	2	9	3	11	49
49 to 60	226	16	34	38	5	43	4	14	3	20	50
61 to 84	200	12	26	33	5	40	5	22	3	10	45
85 to 167	173	10	23	28	3	32	6	32	1	4	34
Open continuously	358	15	45	88	7	52	9	26	3	30	84

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All buildings	1,196	70	170	213	24	208	26	108	14	79	284
Ownership and occupancy											
Nongovernment owned	942	57	124	172	20	167	20	92	11	61	219
Owner occupied	563	31	79	105	10	94	13	57	6	33	136
Leased to tenant or tenants	378	27	45	67	10	73	6	36	4	28	83
Unoccupied	2	Q	Q	(*)	Q	Q	Q	Q	Q	Q	1
Government owned	254	13	46	42	4	41	6	16	3	18	65
Federal	27	1	3	7	(*)	5	(*)	1	(*)	2	7
State	92	4	16	15	1	13	3	6	1	6	27
Local	135	8	26	20	2	22	3	9	2	10	31
Party responsible for operation of energy systems											
Building owner	974	54	140	180	17	164	22	83	11	65	237
Business owner or tenant	162	12	22	23	5	32	3	21	2	10	34
Property management	29	2	4	6	1	5	(*)	3	(*)	2	6
Other	31	2	5	5	1	6	(*)	2	(*)	3	7
Provider of direct input on energy-related equipment purchases											
Building owner	1,014	57	147	186	18	173	23	88	12	67	245
Business owner or tenant	104	7	13	14	3	20	2	14	1	7	21
Property management	16	1	2	3	(*)	3	Q	2	(*)	1	3
Other	62	4	9	11	2	11	1	5	1	4	14
Number of establishments											
1	777	44	118	127	14	129	20	73	8	50	195
2 to 5	213	12	30	42	4	39	4	20	3	13	47
6 to 10	80	6	8	16	2	16	1	7	1	6	16
11 to 20	62	4	7	14	2	13	1	5	1	4	13
More than 20	62	4	6	15	2	12	1	3	1	6	12
Currently unoccupied	2	Q	1	Q	Q	Q	Q	Q	Q	Q	1
Predominant exterior wall material											
Brick, stone, or stucco	607	35	94	114	13	99	16	53	8	38	138
Concrete (block or poured)	260	14	37	47	5	47	5	29	2	17	56
Concrete panels	96	4	12	17	1	19	1	6	1	11	24
Siding or shingles	74	7	7	10	2	12	2	8	1	3	23
Metal panels	93	6	14	11	1	20	1	7	1	2	29
Window glass	34	2	4	8	(*)	5	1	1	(*)	4	8
Other	31	2	3	7	1	5	(*)	3	(*)	4	6
Predominant roof material											
Metal surfacing	193	15	32	21	4	36	4	19	2	6	54
Synthetic or rubber	452	25	56	91	8	78	10	44	5	32	102
Built-up	263	14	39	52	5	45	6	21	3	22	56
Slate or tile shingles	45	3	8	7	1	7	1	5	1	2	10
Wooden materials (including shingles)	16	1	3	3	Q	3	(*)	2	(*)	(*)	4
Asphalt, fiberglass, or other shingles	154	10	22	27	4	28	3	11	2	8	39
Concrete	33	2	4	6	1	4	(*)	2	(*)	Q	8
Other	39	2	5	6	1	6	1	4	(*)	2	12

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All buildings	1,196	70	170	213	24	208	26	108	14	79	284
Roof tilt											
Flat	773	43	105	155	14	132	17	64	9	59	176
Shallow pitch	278	17	43	38	6	53	6	29	3	15	68
Steeper pitch	145	10	23	21	4	23	4	15	2	5	40
Cool roof characteristics (more than one may apply)											
White or reflective coating or paint	452	22	63	85	9	79	11	40	5	28	111
White or reflective tiles or shingles	43	3	6	7	2	6	1	4	(*)	Q	10
Aluminum coating	66	5	11	9	2	12	1	8	1	2	14
Ballasted roof system	90	6	11	19	1	13	2	5	1	9	23
Other cool roof property	24	2	3	5	1	4	(*)	2	(*)	2	5
Renovations since 2000 (more than one may apply)											
Any type of renovation	591	34	80	120	11	101	13	49	7	42	134
Addition or annex	148	8	21	31	3	24	4	13	2	8	34
Reduction in floorspace	27	2	3	6	1	5	1	2	(*)	2	6
Roof replacement	272	16	36	55	6	45	7	22	3	19	63
Interior wall reconfiguration	284	16	35	64	4	49	5	18	4	23	66
Window replacement	138	8	17	29	3	24	4	11	2	9	30
HVAC equipment upgrade	372	20	49	79	7	62	9	29	5	28	84
Lighting upgrade	396	21	48	84	7	67	9	33	5	31	91
Electrical upgrade	222	12	28	47	4	36	6	17	3	18	51
Plumbing system upgrade	215	12	27	47	4	34	6	16	3	16	49
Insulation upgrade	108	6	13	24	2	18	3	8	1	8	26
Fire, safety, or security upgrade	276	16	35	59	6	46	7	20	3	21	64
Structural upgrade	63	3	6	14	1	10	2	5	1	6	16
Other	20	1	3	6	(*)	4	(*)	1	(*)	1	4
No renovations	511	30	77	77	10	92	11	49	6	33	126
Buildings constructed 2013 or later	94	6	13	16	3	15	2	11	1	4	24
Energy sources (more than one may apply)											
Electricity	1,196	70	170	213	24	208	26	108	14	79	284
Natural gas	861	41	117	168	15	157	19	83	10	54	195
Fuel oil	352	16	40	72	5	52	7	23	4	42	92
District heat	114	2	8	28	1	17	2	5	1	11	39
District chilled water	74	2	1	15	1	10	1	4	1	8	31
Propane	119	7	15	17	3	20	5	16	1	5	32
Solar	49	2	6	11	1	9	1	5	1	3	10
Wood, coal, and other	25	2	3	4	1	5	1	3	(*)	2	5
Space-heating energy sources											
Electricity	669	70	94	110	18	110	15	62	7	41	141
Electricity main	418	52	65	62	12	63	10	36	4	28	85
Electricity secondary	251	19	29	48	6	47	5	25	3	13	56
Other excluding electricity	467	N	65	100	4	89	10	41	6	30	122
Buildings without heating	60	N	11	4	1	9	1	6	(*)	7	21

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All buildings	1,196	70	170	213	24	208	26	108	14	79	284
Primary space-heating energy source											
Electricity	418	52	65	62	12	63	10	36	4	28	85
Natural gas	577	16	82	117	8	113	13	56	7	32	133
Fuel oil	17	1	2	3	(*)	4	(*)	2	(*)	1	5
District heat	100	1	7	25	1	15	2	4	1	10	34
Propane	21	1	3	3	1	4	1	4	(*)	1	5
Other sources ^b	2	Q	Q	(*)	Q	(*)	Q	(*)	(*)	(*)	1
Cooling energy sources											
Electricity	1,098	67	170	203	23	194	25	104	13	76	222
Other excluding electricity	48	1	N	10	(*)	7	1	2	1	2	25
Buildings without cooling	50	3	N	1	(*)	7	Q	2	(*)	(*)	37
Water-heating energy sources											
Electricity	636	49	90	102	24	110	13	56	7	44	141
Other excluding electricity	513	18	72	107	N	87	13	51	6	34	124
Buildings without water heating	47	3	8	4	N	10	Q	1	(*)	1	20
Cooking energy sources											
Electricity	478	28	58	90	13	75	26	57	5	23	103
Other excluding electricity	182	9	30	37	4	30	N	24	2	9	37
Buildings without cooking	536	33	82	86	7	103	N	27	7	47	144
Energy end uses (more than one may apply)											
Buildings with space heating	1,136	70	159	210	23	199	26	102	13	72	263
Buildings with cooling	1,146	68	170	213	23	201	26	107	14	79	247
Buildings with water heating	1,149	67	162	210	24	197	26	107	13	78	264
Buildings with cooking	660	37	88	127	16	105	26	81	7	32	140
Buildings with manufacturing	86	5	8	13	1	15	1	11	1	3	28
Buildings with electricity generation	475	24	59	96	8	74	9	36	5	48	117
Buildings with lighting	1,194	70	170	213	24	208	26	108	14	79	283
Percentage of floorspace heated											
Not heated	60	N	11	4	1	9	1	6	(*)	7	21
1% to 50%	94	4	14	14	1	18	1	12	1	8	20
51% to 99%	275	16	36	56	6	48	6	29	3	14	59
100%	766	50	109	140	15	132	18	61	9	49	183
Percentage of floorspace cooled											
Not cooled	50	3	N	1	(*)	7	Q	2	(*)	(*)	37
1% to 50%	134	9	18	19	2	34	2	12	1	5	32
51% to 99%	379	20	51	77	8	63	8	39	4	31	79
100%	633	38	101	117	14	104	15	56	8	43	137
Percentage lit when open											
0%	Q	Q	Q	Q	Q	N	N	Q	Q	Q	Q
1% to 50%	102	6	21	15	2	12	2	8	1	7	28
51% to 99%	540	32	71	103	13	91	12	50	6	37	124
100%	547	31	77	95	9	103	13	49	6	34	129
Building never open or electricity not used	5	1	1	(*)	Q	1	Q	Q	Q	Q	2

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All buildings	1,196	70	170	213	24	208	26	108	14	79	284
Percentage lit during off hours											
0%	116	8	22	12	2	18	2	10	1	4	37
1% to 50%	880	51	126	163	18	153	20	79	11	56	202
51% to 100%	155	8	16	29	3	27	3	13	1	16	37
Building always open with no off hours	46	2	5	9	1	10	1	6	(*)	3	9
Electricity not used	N	N	N	N	N	N	N	N	N	N	N
Heating equipment (more than one may apply)											
Packaged heating units	663	47	97	118	15	117	17	73	7	32	139
Furnaces	188	14	24	31	6	38	3	23	3	9	37
Individual space heaters	259	24	32	42	6	48	6	24	3	20	54
Boilers	381	17	52	80	5	64	9	26	4	26	97
Heat pumps	223	18	32	40	7	39	5	18	3	18	44
District heat	107	2	8	27	1	16	2	5	1	10	36
Duct reheat	127	14	14	26	3	20	2	10	2	10	27
Other	30	2	1	3	1	4	Q	7	(*)	(*)	Q
Cooling equipment (more than one may apply)											
Packaged air-conditioning units	768	49	113	140	17	138	19	81	9	50	154
Residential-type central air conditioners	214	13	32	38	5	39	5	22	3	15	43
Individual air conditioners	175	12	25	31	6	33	5	16	2	10	35
Central chillers	287	9	45	67	3	44	6	16	3	31	64
Heat pumps	153	10	20	30	4	26	4	11	2	14	33
District chilled water	74	2	1	15	1	10	1	4	1	8	31
Swamp coolers	27	1	4	4	(*)	5	(*)	5	(*)	1	5
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
HVAC features (more than one may apply)											
Economizer cycle	512	26	63	110	8	81	13	41	6	47	117
Variable air volume (VAV) system	437	21	59	90	6	68	9	26	5	40	113
Dedicated outside air system (DOAS)	153	7	17	30	2	21	6	15	2	11	43
Demand controlled ventilation (DCV)	141	7	19	26	2	25	3	10	2	17	31
Regular HVAC maintenance	1,057	60	152	198	21	181	24	96	12	75	239
Building automation system (BAS) controls heating or cooling	632	31	81	129	10	98	14	47	7	59	156
Internet-connected or smart thermostat	71	4	12	12	1	13	2	9	1	2	14
Programmable thermostat	218	15	35	36	6	44	5	22	3	9	43
Main equipment replaced since 2000 (more than one may apply)											
Heating	379	25	55	70	8	70	8	35	5	21	81
Cooling	268	14	44	53	5	48	6	20	3	20	55
Water-heating equipment											
Centralized system	753	46	108	134	13	126	18	73	9	48	177
Distributed system	192	12	27	30	7	34	4	18	2	15	42
Combination of centralized and distributed systems	204	9	28	45	4	37	4	16	2	15	45

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All buildings	1,196	70	170	213	24	208	26	108	14	79	284
Generation technologies (more than one may apply)											
Reciprocating engine generators	414	20	52	84	6	62	8	29	4	45	104
Solar panels	48	2	6	10	1	9	1	5	1	3	10
Other generation technology	38	3	3	8	1	6	1	2	(*)	Q	9
Lighting equipment types (more than one may apply)											
Incandescent	311	17	38	54	8	67	8	27	4	20	68
Standard fluorescent	927	55	132	170	20	160	19	80	11	64	216
Compact fluorescent	497	27	64	100	11	89	11	40	6	39	112
High-intensity discharge (HID)	165	6	21	32	2	32	3	9	2	16	40
Halogen	231	11	31	41	6	48	7	22	3	16	47
LED	860	48	114	163	18	143	20	80	10	65	199
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration equipment (more than one may apply)											
Any refrigeration	1,049	60	144	193	21	180	26	108	12	65	239
Walk-in units	546	27	67	105	12	81	21	81	5	25	121
Cases or cabinets	499	26	60	95	11	77	17	74	5	30	103
Large cold storage areas	86	3	7	11	1	10	3	22	1	3	25
Commercial ice makers	569	30	77	114	12	89	19	72	6	30	120
Residential-type or compact units	824	49	116	154	17	147	17	69	10	55	189
Vending machines	611	31	82	127	11	108	11	53	7	41	140
No refrigeration	147	10	26	20	2	28	(*)	N	1	14	45
Office equipment (more than one may apply)											
Desktop computers	1,085	62	151	201	21	189	24	98	13	74	251
With multiple monitors	704	36	91	144	12	123	12	49	9	59	168
Laptop computers	908	50	125	176	18	162	17	71	11	70	207
Dedicated servers	727	40	95	141	13	127	13	58	9	71	159
Tablets charged in building	696	38	90	138	14	122	14	56	9	57	157
Large floor-standing office devices ^c	718	41	97	144	13	128	11	50	10	58	166
Smaller desktop office devices ^c	981	56	135	183	20	174	21	87	12	64	229
Interactive whiteboards	215	12	30	44	3	35	4	11	3	20	52
Televisions or video displays	885	51	121	172	18	154	19	78	12	63	197
Point-of-sale devices or cash registers	561	32	71	107	13	91	19	74	7	30	119
Food preparation or serving areas in non-food service buildings (more than one may apply)											
Snack bar, concession stand, or coffee shop	160	8	19	35	3	25	5	19	2	10	34
Fast food or small restaurant	175	9	17	41	4	31	5	21	2	8	36
Cafeteria or large restaurant	199	9	29	46	3	33	5	13	2	14	44
Commercial kitchen or food preparation area	286	13	38	63	6	48	7	32	3	14	62
Small kitchen area	247	15	34	50	7	43	8	21	3	16	51

Table E5. Electricity consumption (in kilowatthours [kWh]) by end use, 2018

Total electricity consumption (billion kWh)

	Total	Space heating	Cooling	Ventilation	Water heating	Lighting	Cooking	Refrigeration	Office equipment	Computing	Other
All buildings	1,196	70	170	213	24	208	26	108	14	79	284
Separate computer areas (more than one may apply)											
Server closet	656	37	87	133	13	118	12	55	9	45	147
Data center	185	7	20	44	2	29	3	11	2	18	49
Computer-based training room	230	12	31	49	4	41	5	15	3	18	52
Student or public computer center	153	8	25	27	3	26	4	11	2	11	36
Window and interior lighting features (more than one may apply)											
Multipaned windows	965	59	132	177	20	163	23	89	11	69	221
Tinted window glass	623	38	90	118	13	106	12	55	8	47	137
Reflective window glass	278	16	31	55	7	47	5	22	3	26	66
External overhangs or awnings	410	25	56	72	11	70	11	47	5	24	87
Skylights or atriums	257	13	34	54	4	44	5	20	3	19	60
Light scheduling	521	27	63	107	12	82	13	47	6	47	116
Occupancy sensors	612	33	75	127	11	99	11	50	8	48	150
Multilevel lighting or dimming	223	11	28	49	4	32	6	20	3	16	54
Daylight harvesting	119	6	13	27	2	19	2	10	1	13	26
Plug-load control	36	2	4	6	1	4	1	2	(*)	Q	10
Demand responsive lighting	25	1	3	5	1	4	1	2	(*)	1	6
Building automation system (BAS) for lighting	268	14	33	56	6	43	7	27	3	19	60
Electric vehicle (EV) charging											
Charging stations associated with the building	132	6	15	29	2	24	3	11	1	11	30
Annual consumption (kilowatthours)											
10,000 or less	4	(*)	(*)	(*)	(*)	1	(*)	(*)	(*)	(*)	2
10,001 to 50,000	58	4	10	6	1	14	1	3	1	2	16
50,001 to 100,000	71	5	12	9	1	15	1	7	1	3	17
100,001 to 500,000	272	18	46	40	7	49	7	33	4	13	56
500,001 to 1,000,000	176	14	28	30	4	30	6	15	2	11	38
1,000,001 to 5,000,000	373	20	49	70	8	65	7	38	3	22	91
Over 5,000,000	243	8	26	58	3	35	4	13	2	28	65

Data source: U.S. Energy Information Administration, Forms EIA-871A and E 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/>.

Estimates for types of equipment represent consumption in buildings that have the equipment, not the consumption by the specific piece of equipment.

HVAC = Heating, ventilation, and air conditioning.

^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.

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.

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