

Release date: September 2021

Revised date: December 2022

Table B11. Selected principal building activity: part 1, number of buildings, 2018

Number of buildings (thousand)

	Principal building activity							
	All buildings	Warehouse and storage	Office	Service	Mercantile	Public assembly	Religious worship	Education
All buildings	5,918	1,004	970	867	517	488	439	437
Building floorspace (square feet)								
1,001 to 5,000	2,833	437	518	517	181	215	167	148
5,001 to 10,000	1,359	255	198	216	105	115	103	98
10,001 to 25,000	981	194	137	100	141	95	121	63
25,001 to 50,000	386	60	53	24	48	44	39	39
50,001 to 100,000	218	33	35	9	23	14	8	57
100,001 to 200,000	93	15	17	Q	13	3	Q	25
200,001 to 500,000	40	8	9	Q	5	1	Q	7
Over 500,000	9	2	2	Q	1	1	N	0
Year constructed								
Before 1920	329	Q	85	Q	Q	64	57	Q
1920 to 1945	379	22	78	57	Q	40	Q	22
1946 to 1959	517	113	54	68	48	33	44	65
1960 to 1969	685	68	82	135	95	61	59	51
1970 to 1979	831	121	159	143	65	63	74	59
1980 to 1989	794	150	164	108	63	35	34	55
1990 to 1999	921	235	130	125	49	70	58	86
2000 to 2009	924	162	152	139	100	78	55	60
2010 to 2018	537	117	67	82	52	43	Q	26
Census region and division								
Northeast	793	119	138	144	60	91	61	44
New England	275	50	23	45	Q	47	Q	21
Middle Atlantic	518	70	115	99	37	44	48	23
Midwest	1,719	307	265	305	139	141	122	90
East North Central	1,110	206	172	184	76	96	80	53
West North Central	609	101	93	120	62	44	42	37
South	2,143	366	375	237	207	168	201	153
South Atlantic	1,034	154	184	110	94	101	106	76
East South Central	347	75	47	29	38	Q	44	24
West South Central	762	136	143	98	75	56	50	53
West	1,264	212	193	181	112	88	55	150
Mountain	484	81	65	77	56	31	Q	38
Pacific	780	131	129	104	56	57	36	112
Climate zone^a								
Cold or very cold	539	117	83	111	37	24	Q	35
Cool	1,727	288	239	330	147	157	115	101
Mixed mild	1,216	220	215	131	99	118	98	76
Warm	1,606	239	285	206	155	122	136	143
Hot or very hot	831	140	149	90	80	68	60	82

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All buildings	5,918	1,004	970	867	517	488	439	437
Number of floors								
1	4,106	846	544	708	406	307	213	278
2	1,286	137	273	144	79	116	182	111
3	370	19	105	Q	32	47	37	26
4 to 9	142	Q	38	Q	Q	18	Q	23
10 or more	16	N	9	N	N	Q	N	Q
Elevators and escalators (more than one may apply)								
Any elevators	503	27	150	Q	16	50	47	78
1 elevator	366	24	98	Q	14	37	44	62
2 to 5 elevators	121	3	44	Q	Q	12	Q	15
6 or more elevators	16	Q	8	Q	Q	1	Q	0
Any escalators	14	Q	2	Q	1	2	Q	Q
Number of workers (main shift)								
Fewer than 5	3,270	717	340	595	231	325	329	113
5 to 9	1,116	125	254	160	81	94	50	132
10 to 19	713	69	152	70	85	39	43	58
20 to 49	492	68	103	34	77	21	13	64
50 to 99	201	17	66	Q	26	8	Q	50
100 to 249	90	7	32	Q	15	2	N	19
250 or more	37	1	24	Q	1	1	N	2
Weekly operating hours								
Fewer than 40	1,370	211	96	142	Q	182	324	88
40 to 48	1,483	230	469	335	106	76	38	117
49 to 60	1,250	200	266	217	172	95	29	173
61 to 84	645	84	66	97	115	57	26	48
85 to 167	465	94	25	34	64	48	Q	9
Open continuously	705	185	48	42	19	30	Q	Q
Ownership and occupancy								
Nongovernment owned	4,982	963	796	726	515	327	439	166
Owner occupied	3,249	633	485	465	236	278	412	142
Leased to tenant or tenants	1,581	330	311	261	279	48	Q	24
Unoccupied	152	N	N	N	N	N	N	N
Government owned	937	42	175	141	Q	162	N	271
Federal	70	3	11	33	Q	Q	N	Q
State	256	Q	34	Q	Q	36	N	92
Local	610	Q	129	75	Q	120	N	169
Party responsible for operation of energy systems								
Building owner	4,872	761	816	698	298	441	423	421
Business owner or tenant	831	191	109	153	191	26	Q	Q
Property management	97	Q	24	Q	Q	Q	Q	Q
Other	118	21	22	Q	Q	Q	Q	12

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All buildings	5,918	1,004	970	867	517	488	439	437
Provider of direct input on energy-related equipment purchases								
Building owner	5,127	862	866	709	372	439	428	420
Business owner or tenant	483	77	56	118	96	Q	Q	Q
Property management	49	Q	Q	Q	Q	Q	N	Q
Other	260	49	46	Q	40	30	Q	13
Number of establishments								
1	4,719	826	670	787	282	433	416	413
2 to 5	811	155	211	78	151	50	Q	24
6 to 10	135	15	44	Q	60	Q	N	Q
11 to 20	63	Q	32	Q	19	Q	N	Q
More than 20	19	Q	12	N	5	Q	N	Q
Currently unoccupied	170	N	N	N	N	N	N	N
Campus or complex activity								
Not part of a campus or complex	3,622	410	629	593	408	286	267	170
Primary or secondary school	247	N	Q	N	N	36	N	179
College or university	103	Q	9	Q	Q	9	N	49
Office complex	141	Q	106	Q	Q	Q	Q	Q
Retail complex	250	62	Q	Q	94	Q	N	N
Storage complex	418	339	Q	Q	Q	Q	N	N
Religious campus or complex	253	Q	Q	Q	N	Q	166	25
Health care complex	60	Q	Q	Q	N	Q	N	Q
Lodging or resort complex	102	Q	Q	N	Q	Q	N	N
Transportation complex	36	Q	Q	Q	N	2	N	Q
Government complex	124	Q	27	48	N	Q	N	N
Other	563	125	100	143	Q	82	Q	Q
Predominant exterior wall material								
Brick, stone, or stucco	2,490	171	565	243	237	215	266	226
Concrete (block or poured)	935	151	85	158	119	74	51	66
Concrete panels	137	43	31	Q	18	10	Q	3
Siding or shingles	948	90	199	90	51	114	93	92
Metal panels	1,250	527	48	361	65	64	Q	Q
Window glass	19	N	10	N	Q	2	N	Q
Other	139	Q	32	Q	Q	Q	Q	Q

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All buildings	5,918	1,004	970	867	517	488	439	437
Predominant roof material								
Metal surfacing	2,198	662	207	499	135	162	94	111
Synthetic or rubber	940	131	180	72	136	62	20	103
Built-up	708	59	160	91	94	37	27	79
Slate or tile shingles	376	Q	78	Q	Q	56	54	Q
Wooden materials (including shingles)	166	Q	Q	Q	Q	Q	Q	Q
Asphalt, fiberglass, or other shingles	1,311	78	280	144	99	143	213	85
Concrete	83	Q	16	Q	Q	Q	Q	Q
Other	136	27	28	Q	Q	Q	Q	7
Roof tilt								
Flat	1,914	227	393	260	245	99	50	190
Shallow pitch	2,313	578	317	384	204	166	99	161
Steeper pitch	1,691	199	261	223	68	224	290	87
Cool roof characteristics (more than one may apply)								
White or reflective coating or paint	1,285	253	200	169	144	74	40	127
White or reflective tiles or shingles	140	Q	13	Q	Q	Q	Q	12
Aluminum coating	528	109	42	140	51	41	Q	29
Ballasted roof system	114	Q	33	Q	7	9	Q	10
Other cool roof property	35	N	Q	Q	Q	Q	Q	Q
Renovations since 2000 (more than one may apply)								
Any type of renovation	2,032	198	391	235	203	184	203	180
Addition or annex	327	24	39	41	23	23	44	55
Reduction in floorspace	35	Q	2	Q	Q	Q	Q	Q
Roof replacement	847	97	147	54	94	73	99	85
Interior wall reconfiguration	709	57	187	73	69	59	40	82
Window replacement	484	44	91	55	51	46	46	41
HVAC equipment upgrade	1,006	81	196	77	113	90	121	94
Lighting upgrade	1,012	93	204	120	113	91	54	95
Electrical upgrade	565	45	89	56	69	58	37	62
Plumbing system upgrade	584	28	99	51	48	62	52	66
Insulation upgrade	307	43	51	41	29	32	Q	28
Fire, safety, or security upgrade	570	31	87	54	40	57	37	89
Structural upgrade	147	Q	18	Q	Q	18	Q	16
Other	43	Q	Q	Q	4	Q	Q	Q
No renovations	3,530	717	533	576	280	277	227	241
Buildings constructed 2013 or later	357	89	46	56	34	27	Q	17

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All buildings	5,918	1,004	970	867	517	488	439	437
Energy sources (more than one may apply)								
Electricity	5,613	792	970	866	513	488	439	437
Natural gas	2,974	320	549	382	328	275	259	216
Fuel oil	583	52	102	153	29	44	32	34
District heat	86	Q	10	Q	Q	13	Q	39
District chilled water	55	Q	7	N	N	8	Q	29
Propane	676	83	59	107	51	75	96	51
Solar	99	Q	17	Q	10	16	Q	14
Wood, coal, and other	180	Q	Q	94	Q	Q	Q	Q
Space-heating energy sources (more than one may apply)								
Electricity	2,563	290	527	289	317	194	183	214
Natural gas	2,587	283	489	351	313	244	227	190
Fuel oil	266	Q	37	87	Q	Q	Q	19
District heat	83	Q	10	Q	Q	11	Q	37
Propane	431	48	Q	78	35	33	82	35
Other sources ^b	127	Q	Q	83	Q	Q	N	Q
Primary space-heating energy source								
Electricity	1,856	200	389	193	203	157	125	161
Natural gas	2,344	274	458	316	250	231	207	171
Fuel oil	222	Q	35	66	Q	Q	Q	14
District heat	78	Q	9	Q	Q	10	Q	34
Propane	338	45	Q	62	Q	Q	73	Q
Other sources ^b	63	Q	Q	Q	N	Q	N	Q
Cooling energy sources (more than one may apply)								
Electricity	4,584	470	934	512	479	406	420	389
Natural gas	4	Q	Q	N	Q	Q	Q	Q
District chilled water	55	Q	7	N	N	8	Q	29
Water-heating energy sources (more than one may apply)								
Electricity	2,785	285	575	376	357	229	241	211
Natural gas	1,885	143	334	199	218	200	158	158
Fuel oil	72	Q	16	Q	Q	Q	Q	9
District heat	38	N	6	Q	N	6	N	15
Propane	145	Q	Q	Q	Q	Q	Q	7
Cooking energy sources (more than one may apply)								
Electricity	1,216	54	166	45	117	113	189	125
Natural gas	727	Q	40	Q	98	80	108	80
Propane	159	Q	Q	Q	Q	35	Q	14

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All buildings	5,918	1,004	970	867	517	488	439	437
Energy end uses (more than one may apply)								
Buildings with space heating	4,901	549	925	686	486	444	426	413
Buildings with cooling	4,631	473	939	512	479	412	421	413
Buildings with water heating	4,595	425	902	590	452	449	409	378
Buildings with cooking	1,738	60	198	49	149	197	275	176
Buildings with manufacturing	322	113	24	100	21	Q	Q	3
Buildings with electricity generation	706	70	139	106	44	68	19	62
Buildings with lighting	5,503	707	970	853	513	488	439	437
Percent of floorspace heated								
Not heated	1,017	455	45	181	Q	44	Q	Q
1 to 50%	693	239	91	167	73	23	Q	Q
51 to 99%	905	76	159	97	149	99	72	73
100%	3,303	234	676	422	265	322	339	331
Percent of floorspace cooled								
Not cooled	1,288	532	Q	355	Q	76	Q	24
1 to 50%	1,111	313	101	322	84	64	38	40
51 to 99%	998	76	193	46	155	106	104	91
100%	2,522	84	645	145	240	242	280	283
Percent lit when open								
0%	Q	Q	N	Q	N	N	N	N
1 to 50%	1,280	294	188	237	58	131	140	50
51 to 99%	1,784	120	401	198	267	177	161	137
100%	2,272	267	381	405	187	159	137	251
Building never open or electricity not used	513	259	N	Q	Q	Q	N	N
Percent lit during off hours								
0%	2,062	437	267	458	98	201	232	148
1 to 50%	3,246	326	670	378	399	259	205	282
51 to 100%	240	25	32	Q	15	24	Q	8
Building always open with no off hours	64	Q	Q	Q	Q	Q	N	Q
Electricity not used	305	213	N	Q	Q	N	N	N

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All buildings	5,918	1,004	970	867	517	488	439	437
Heating equipment (more than one may apply)								
Packaged heating units	2,187	200	419	214	362	178	162	157
Furnaces	1,621	187	313	268	176	168	178	76
Individual space heaters	1,246	220	184	337	124	58	79	63
Boilers	703	34	133	69	49	69	70	133
Heat pumps	673	48	132	36	82	51	72	89
District heat	83	Q	10	Q	Q	11	Q	37
Duct reheat	134	Q	21	Q	29	13	Q	20
Other	17	Q	Q	N	Q	Q	N	Q
Cooling equipment (more than one may apply)								
Packaged air-conditioning units	2,565	230	504	220	381	227	224	217
Residential-type central air conditioners	1,309	161	321	137	108	125	127	100
Individual air conditioners	735	79	60	134	73	64	69	65
Central chillers	202	Q	53	Q	15	18	15	47
Heat pumps	492	36	85	38	52	40	68	56
District chilled water	55	Q	7	N	N	8	Q	29
Swamp coolers	85	17	3	Q	Q	Q	Q	Q
Other	Q	Q	Q	N	N	N	N	N
HVAC features (more than one may apply)								
Economizer cycle	747	37	152	23	93	73	42	133
Variable air volume (VAV) system	698	69	178	46	35	65	42	109
Dedicated outside air system (DOAS)	249	15	43	Q	Q	34	Q	44
Demand controlled ventilation (DCV)	349	40	49	42	19	28	37	72
Regular HVAC maintenance	3,554	354	719	356	342	331	284	400
Building automation system (BAS) controls heating or cooling	933	46	188	30	112	83	92	184
Internet-connected or smart thermostat	325	31	42	Q	30	39	62	27
Programmable thermostat	1,545	176	406	206	108	118	112	114
Main equipment replaced since 2000 (more than one may apply)								
Heating	1,937	247	377	264	205	143	223	124
Cooling	1,269	158	212	197	77	103	146	118
Water-heating equipment								
Centralized system	3,538	321	727	457	273	368	322	284
Distributed system	782	94	122	122	125	52	52	58
Combination of centralized and distributed systems	274	10	54	Q	55	30	35	37

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All buildings	5,918	1,004	970	867	517	488	439	437
Generation technologies (more than one may apply)								
Reciprocating engine generators	580	55	120	100	32	48	16	47
Solar panels	94	Q	17	Q	10	16	Q	14
Other generation technology	43	Q	Q	Q	Q	Q	Q	Q
Lighting equipment types (more than one may apply)								
Incandescent	1,100	117	196	79	137	120	176	41
Standard fluorescent	4,012	497	756	615	395	334	334	340
Compact fluorescent	1,130	114	217	99	172	124	91	66
High-intensity discharge (HID)	238	58	26	47	23	21	16	18
Halogen	552	52	74	46	122	53	75	26
LED	2,593	255	457	328	286	238	222	200
Other	Q	N	Q	N	Q	Q	N	N
Refrigeration equipment (more than one may apply)								
Any refrigeration	3,850	337	738	458	401	383	365	272
Walk-in units	706	8	19	Q	131	58	10	78
Cases or cabinets	837	25	43	Q	152	93	38	65
Large cold storage areas	69	7	Q	N	13	Q	N	2
Commercial ice makers	872	37	70	42	96	114	59	61
Residential-type or compact units	3,321	305	709	423	337	331	349	238
Vending machines	800	67	127	106	132	58	26	89
No refrigeration	2,068	667	233	409	116	105	74	165
Office equipment (more than one may apply)								
Desktop computers	3,804	369	907	431	456	301	233	384
With multiple monitors	1,504	174	537	121	149	80	86	146
Laptop computers	2,786	281	666	304	291	212	233	319
Dedicated servers	1,400	143	455	91	194	68	36	150
Tablets charged in building	1,556	130	353	125	215	110	96	197
Large floor-standing office devices ^c	1,456	107	496	88	129	111	130	201
Smaller desktop office devices ^c	3,560	371	791	456	438	273	239	327
Interactive whiteboards	262	5	43	Q	13	7	Q	150
Televisions or video displays	2,451	180	452	210	291	251	229	255
Point-of-sale devices or cash registers	1,420	50	126	178	378	128	Q	62

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All buildings	5,918	1,004	970	867	517	488	439	437
Food preparation or serving areas in non-food service buildings (more than one may apply)								
Snack bar, concession stand, or coffee shop	144	Q	13	N	25	42	Q	14
Fast food or small restaurant	160	Q	8	Q	56	21	Q	5
Cafeteria or large restaurant	129	Q	7	Q	3	26	Q	68
food preparation area	284	Q	7	Q	39	48	58	42
Small kitchen area	1,018	58	182	45	69	119	209	109
Separate computer areas (more than one may apply)								
Server closet	1,237	132	445	81	137	63	32	144
Data center	116	Q	32	Q	4	4	Q	19
Computer-based training room	228	16	47	Q	18	16	Q	88
Student or public computer center	236	Q	25	Q	31	32	Q	115
Window and interior lighting features (more than one may apply)								
Multipaned windows	3,527	344	692	443	354	285	303	291
Tinted window glass	1,679	156	371	163	239	110	161	146
Reflective window glass	497	39	110	49	85	31	30	45
External overhangs or awnings	1,513	119	269	134	288	132	95	130
Skylights or atriums	509	86	93	69	37	49	28	45
Light scheduling	910	76	164	62	160	78	58	83
Occupancy sensors	1,025	123	196	94	119	75	52	180
Multilevel lighting or dimming	332	16	59	Q	32	56	51	36
Daylight harvesting	138	14	16	Q	32	7	Q	11
Plug-load control	58	Q	Q	N	Q	Q	Q	Q
Demand responsive lighting	98	Q	8	Q	Q	Q	Q	Q
Building automation system (BAS) for lighting	317	Q	47	Q	76	23	Q	66
Electric vehicle (EV) charging								
Charging stations associated with the building	132	26	21	32	11	7	N	4

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 B11. Selected principal building activity: part 1, number of buildings, 2018

RSEs for number of buildings

	Principal building activity							
	All buildings	Warehouse and storage	Office	Service	Mercantile	Public assembly	Religious worship	Education
All buildings	3.9	7.4	7.2	7.4	7.3	9.1	9.5	7.8
Food preparation or serving areas in non-food service buildings (more than one may apply)								
Snack bar, concession stand, or coffee shop	11.0	81.1	22.3	0.0	23.5	18.4	30.9	16.6
Fast food or small restaurant	9.4	51.5	20.8	71.5	14.0	31.3	28.9	37.5
Cafeteria or large restaurant food preparation area	7.7	62.8	17.5	111.3	28.6	27.6	60.7	8.1
Small kitchen area	8.5	50.3	32.3	50.4	21.2	19.8	20.3	10.6
	6.5	23.5	13.5	27.0	17.0	14.0	14.7	16.0
Separate computer areas (more than one may apply)								
Server closet	5.3	12.9	8.0	15.7	12.1	15.7	18.2	9.8
Data center	13.1	51.9	17.2	68.2	31.8	32.4	47.9	21.4
Computer-based training room	8.4	28.7	20.1	55.8	18.5	43.7	43.5	12.8
Student or public computer center	8.0	47.9	29.1	74.0	32.4	25.9	62.9	9.1
Window and interior lighting features (more than one may apply)								
Multipaned windows	4.2	9.0	7.8	11.9	8.3	9.0	10.5	9.8
Tinted window glass	4.2	13.2	8.4	12.9	7.5	11.1	13.7	13.1
Reflective window glass	7.0	26.8	13.5	24.6	13.4	23.4	38.5	23.8
External overhangs or awnings	5.0	16.0	8.9	13.9	9.2	11.8	17.6	16.6
Skylights or atriums	7.1	22.6	14.0	28.1	21.7	19.5	25.5	18.9
Light scheduling	5.2	19.0	11.8	25.1	9.6	15.9	19.4	17.0
Occupancy sensors	6.5	16.7	10.4	19.7	11.2	11.1	25.7	11.1
Multilevel lighting or dimming	10.0	48.8	19.1	58.2	37.4	19.0	19.6	22.7
Daylight harvesting	12.0	37.5	24.9	46.4	28.3	36.7	48.2	45.2
Plug-load control	18.4	40.6	51.1	0.0	57.4	75.7	99.4	59.3
Demand responsive lighting	30.7	52.2	41.0	67.0	38.5	72.8	59.9	82.4
Building automation system (BAS) for lighting	9.3	53.5	19.9	67.5	14.4	25.6	55.6	19.5
Electric vehicle (EV) charging								
Charging stations associated with the building	11.5	32.2	23.6	28.6	41.0	21.5	0.0	27.4

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>.

^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.