

Table B11. Selected principal building activity: part 1, number of buildings, 2012

	Number of buildings (thousand)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	5,557	1,012	796	619	602	412	389	352
Building floorspace (square feet)								
1,001 to 5,000	2,777	532	380	372	250	174	143	162
5,001 to 10,000	1,229	230	180	143	143	111	51	77
10,001 to 25,000	884	129	142	78	116	90	75	73
25,001 to 50,000	332	66	49	19	45	28	41	24
50,001 to 100,000	199	32	24	Q	26	7	48	9
100,001 to 200,000	90	15	13	Q	16	Q	22	4
200,001 to 500,000	38	6	7	Q	5	Q	9	2
Over 500,000	8	3	1	Q	1	N	Q	1
Year constructed								
Before 1920	362	83	26	Q	48	38	6	38
1920 to 1945	488	86	48	55	54	47	33	48
1946 to 1959	599	111	55	67	59	57	48	45
1960 to 1969	639	102	65	94	64	52	61	39
1970 to 1979	684	132	88	78	83	52	38	37
1980 to 1989	915	192	160	99	98	58	47	37
1990 to 1999	845	139	163	97	77	40	64	51
2000 to 2003	375	55	59	34	37	32	48	13
2004 to 2007	347	68	75	32	44	Q	22	22
2008 to 2012	303	44	58	30	38	Q	21	23
Census region and division								
Northeast	805	148	89	108	98	51	45	65
New England	302	54	28	41	34	Q	16	36
Middle Atlantic	504	94	61	68	64	28	29	29
Midwest	1,237	230	163	177	131	92	67	100
East North Central	735	154	79	102	84	50	44	65
West North Central	502	76	84	75	47	42	23	34
South	2,247	390	325	230	251	195	159	110
South Atlantic	1,091	198	177	100	142	80	87	45
East South Central	370	63	22	41	31	57	14	34
West South Central	786	129	126	89	78	58	58	31
West	1,267	245	219	103	122	74	118	77
Mountain	338	65	46	Q	31	22	24	16
Pacific	929	179	173	78	91	52	94	61
Climate region¹								
Very cold/Cold	2,031	393	273	256	222	128	112	158
Mixed-humid	1,743	316	228	202	210	163	97	93
Mixed-dry/Hot-dry	837	144	177	81	61	46	83	55
Hot-humid	799	129	94	67	92	66	85	31
Marine	147	30	Q	Q	Q	Q	Q	Q

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All buildings	5,557	1,012	796	619	602	412	389	352
Number of floors								
One	3,836	554	661	495	441	261	266	223
Two	1,158	277	114	94	116	125	66	87
Three	374	118	15	24	32	21	36	24
Four to nine	177	56	Q	Q	Q	Q	19	18
Ten or more	13	7	N	Q	Q	N	Q	Q
Elevators and escalators (more than one may apply)								
Any elevators	405	146	19	Q	16	20	62	29
Number of elevators								
One	272	94	12	Q	14	17	47	20
Two to five	118	46	8	Q	Q	Q	14	8
Six or more	16	6	N	Q	Q	Q	Q	1
Any escalators	10	5	N	Q	1	Q	N	1
Number of workers (main shift)								
Fewer than 5	2,892	320	528	398	265	296	122	230
5 to 9	1,085	254	104	119	132	61	71	65
10 to 19	731	168	89	61	95	42	50	32
20 to 49	513	144	54	30	72	11	82	15
50 to 99	206	70	12	Q	27	Q	45	6
100 to 249	93	34	7	Q	10	Q	17	2
250 or more	37	22	2	Q	2	N	3	1
Weekly operating hours								
Fewer than 40	1,149	61	142	71	44	289	60	110
40 to 48	1,346	488	199	194	118	38	127	44
49 to 60	1,244	309	195	207	171	37	121	75
61 to 84	764	79	77	101	185	27	45	69
85 to 167	479	31	53	24	70	Q	28	33
Open continuously	575	45	130	Q	15	Q	8	21
Ownership and occupancy								
Nongovernment owned	4,781	862	743	544	598	411	162	234
Owner occupied	2,466	370	334	282	233	368	124	163
Leased to tenant(s)	1,745	357	364	237	314	32	33	53
Owner occupied and leased	349	135	44	25	51	Q	Q	18
Unoccupied	221	N	N	N	N	N	N	N
Government owned	776	150	53	74	Q	Q	227	118
Federal	33	9	Q	Q	Q	N	Q	Q
State	185	43	Q	Q	Q	N	60	21
Local	558	98	Q	49	Q	Q	162	97

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All buildings	5,557	1,012	796	619	602	412	389	352
Party responsible for operation and maintenance of energy systems								
Building owner	4,715	873	668	495	426	394	368	324
Business owner or tenant	724	118	108	115	167	Q	Q	12
Property management	54	14	Q	Q	Q	N	Q	Q
Other	64	Q	Q	Q	Q	Q	Q	Q
Provider of direct input on energy-related equipment purchases								
Building owner	4,876	900	715	510	465	393	369	322
Business owner or tenant	540	86	67	94	120	Q	Q	Q
Property management	35	12	Q	Q	Q	N	Q	Q
Other	106	15	Q	Q	13	Q	Q	Q
Number of establishments								
One	4,205	657	642	526	372	385	369	300
2 to 5	862	275	110	82	133	26	19	50
6 to 10	147	52	22	Q	58	N	N	Q
11 to 20	68	19	Q	Q	30	N	N	Q
More than 20	27	8	Q	N	8	N	N	Q
Currently unoccupied	248	N	N	N	N	N	N	N
Campus or complex activity								
Not part of a campus or complex	3,683	742	394	441	467	292	120	212
Primary or secondary school	237	Q	Q	Q	N	Q	173	15
College or university	84	15	Q	Q	N	N	35	7
Office complex	154	113	Q	Q	Q	N	Q	Q
Retail complex	258	Q	Q	29	124	N	N	Q
Storage complex	314	Q	259	Q	Q	N	N	N
Religious campus or complex	197	Q	N	N	Q	118	26	Q
Health care complex	52	Q	Q	N	N	N	Q	Q
Lodging or resort complex	65	Q	Q	Q	Q	N	Q	Q
Transportation complex	35	Q	Q	Q	N	N	N	Q
Government complex	104	35	Q	Q	N	N	Q	Q
Other	371	48	74	93	Q	N	22	56
Predominant exterior wall material								
Brick, stone, or stucco	2,312	518	143	172	239	227	211	133
Concrete (block or poured)	1,121	167	154	158	176	47	61	76
Concrete panels	210	44	65	Q	18	Q	12	6
Siding or shingles	905	194	96	60	77	86	68	90
Metal panels	933	71	327	206	89	28	35	43
Window glass	17	4	Q	N	Q	Q	Q	Q
Other	37	9	Q	Q	Q	Q	Q	Q
No one major type	21	Q	Q	Q	Q	Q	Q	Q

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All buildings	5,557	1,012	796	619	602	412	389	352
Predominant roof material								
Metal surfacing	1,672	192	433	302	158	94	79	100
Synthetic or rubber	911	194	103	91	119	22	73	63
Built-up	836	164	93	68	121	30	112	38
Slate or tile shingles	406	87	Q	Q	28	62	29	35
Wooden materials (including shingles)	157	26	Q	Q	Q	Q	Q	Q
Asphalt, fiberglass, or other shingles	1,483	334	108	98	143	190	87	100
Concrete	51	13	Q	Q	Q	N	Q	Q
Other	24	Q	Q	Q	Q	Q	Q	Q
No one major type	18	Q	Q	Q	Q	Q	Q	Q
Roof characteristics								
Roof tilt								
Flat	1,960	408	248	193	275	42	162	77
Shallow pitch	2,148	317	430	275	232	104	152	158
Steeper pitch	1,449	288	117	151	96	265	75	116
Cool roof	740	141	96	70	94	51	86	51
Renovations in buildings constructed before 2008 (more than one may apply)								
Any type of renovation	2,094	460	176	163	236	197	161	140
Addition or annex	444	81	35	44	34	61	49	26
Reduction in floorspace	71	10	Q	Q	Q	Q	Q	Q
Roof replacement	987	220	67	77	109	117	84	74
Exterior wall replacement	194	44	12	Q	19	Q	19	Q
Interior wall reconfiguration	889	261	69	57	101	52	59	48
Window replacement	560	139	35	36	58	64	48	49
HVAC equipment upgrade	1,101	254	65	89	123	113	100	79
Lighting upgrade	982	235	58	60	121	76	87	69
Electrical upgrade	747	171	52	49	101	61	57	50
Plumbing system upgrade	644	128	44	42	66	56	52	43
Insulation upgrade	382	89	29	37	39	39	29	27
Fire, safety, or security upgrade	616	151	40	35	57	56	71	33
Structural upgrade	152	31	Q	Q	Q	Q	9	10
Other	39	Q	Q	N	Q	Q	Q	Q
No renovations	3,160	509	562	426	328	202	207	189
Buildings constructed 2008 or later	303	44	58	30	38	Q	21	23

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All buildings	5,557	1,012	796	619	602	412	389	352
Energy sources (more than one may apply)								
Electricity	5,234	1,012	675	602	599	412	389	352
Natural gas	2,933	595	261	339	356	229	234	205
Fuel oil	467	86	26	86	44	23	30	27
District heat	48	12	Q	Q	Q	N	12	7
District chilled water	54	10	N	N	N	Q	25	5
Propane	510	35	45	69	51	66	25	67
Other	172	24	16	39	22	Q	10	17
Space-heating energy sources (more than one may apply)								
Electricity	2,858	653	264	270	387	231	214	162
Natural gas	2,612	554	235	329	324	217	203	187
Fuel oil	270	42	Q	70	35	Q	21	Q
District heat	48	12	Q	Q	Q	N	12	7
Propane	342	27	26	54	35	63	16	46
Other	101	Q	Q	39	Q	Q	Q	Q
Primary space-heating energy source								
Electricity	1,819	424	180	127	229	132	154	94
Natural gas	2,322	493	213	290	283	199	182	164
Fuel oil	205	32	Q	48	Q	Q	17	Q
District heat	47	12	Q	Q	Q	N	12	7
Propane	261	24	Q	37	Q	53	Q	44
Other	67	Q	Q	26	Q	Q	Q	Q
Cooling energy sources (more than one may apply)								
Electricity	4,413	985	388	435	560	375	338	291
Natural gas	12	Q	Q	N	Q	N	Q	N
District chilled water	54	10	N	N	N	Q	25	5
Water-heating energy sources (more than one may apply)								
Electricity	2,658	614	264	273	400	233	159	160
Natural gas	1,758	323	117	161	194	144	167	135
Fuel oil	77	Q	Q	Q	Q	Q	11	Q
District heat	25	8	N	Q	Q	N	7	3
Propane	142	Q	Q	Q	Q	Q	Q	Q
Cooking energy sources (more than one may apply)								
Electricity	1,010	101	26	28	101	167	116	89
Natural gas	740	39	Q	Q	92	93	86	46
Propane	144	Q	Q	Q	Q	Q	7	24

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All buildings	5,557	1,012	796	619	602	412	389	352
Energy end uses (more than one may apply)								
Buildings with space heating	4,722	989	420	528	572	408	379	330
Buildings with cooling	4,461	995	391	435	560	375	361	295
Buildings with water heating	4,423	943	370	442	531	383	332	317
Buildings with cooking	1,589	130	33	39	157	261	169	143
Buildings with manufacturing	259	31	77	46	28	Q	Q	Q
Buildings with electricity generation	410	94	29	19	31	Q	38	21
Percent of floorspace heated								
Not heated	835	23	375	90	30	Q	Q	22
1 to 50	697	73	224	109	73	35	Q	35
51 to 99	727	165	28	86	138	43	56	51
100	3,298	750	168	334	361	330	314	244
Percent of floorspace cooled								
Not cooled	1,096	Q	405	183	42	36	28	57
1 to 50	1,173	136	290	293	129	45	42	56
51 to 99	897	237	29	38	154	64	73	69
100	2,391	622	72	104	278	266	246	170
Percent lit when open								
Zero	70	N	53	Q	N	N	N	Q
1 to 50	1,099	227	239	121	73	101	30	84
51 to 99	1,666	399	126	148	275	146	126	120
100	2,222	386	197	311	251	163	233	135
Building never open/electricity not used	501	N	180	Q	Q	Q	N	Q
Percent lit during off hours								
Zero	2,489	455	426	330	142	300	200	214
1 to 50	2,441	532	193	254	439	110	183	126
51 to 100	202	22	26	Q	13	Q	4	10
Building always open with no "off hours"	102	Q	Q	Q	Q	N	Q	Q
Electricity not used	323	N	121	Q	Q	N	N	N
Heating equipment (more than one may apply)								
Heat pumps	628	157	53	43	83	52	62	42
Furnaces	755	196	58	70	89	91	26	61
Individual space heaters	1,247	234	150	259	136	89	45	80
District heat	48	12	Q	Q	Q	N	12	7
Boilers	544	110	18	30	59	61	96	41
Packaged heating units	2,802	560	246	285	402	236	223	183
Other	62	Q	Q	Q	13	Q	Q	Q

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All buildings	5,557	1,012	796	619	602	412	389	352
Cooling equipment (more than one may apply)								
Residential-type central air conditioners	1,546	358	149	138	209	164	68	116
Heat pumps	692	175	57	50	96	57	69	42
Individual air conditioners	709	124	71	126	73	61	45	29
District chilled water	54	10	N	N	N	Q	25	5
Central chillers	163	43	Q	Q	Q	Q	42	15
Packaged air conditioning units	1,909	396	158	140	301	146	165	127
Swamp coolers	109	Q	Q	Q	14	Q	Q	Q
Other	Q	Q	Q	Q	N	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)								
Heating	1,874	424	142	212	249	165	142	120
Cooling	1,971	481	137	186	272	166	139	122
Water-heating equipment								
Centralized system	3,348	713	252	347	342	290	244	248
Distributed system	690	160	93	80	90	70	51	41
Combination of centralized and distributed system	385	71	26	Q	99	23	38	28
Lighting equipment types (more than one may apply)								
Incandescent	1,826	361	136	126	273	253	97	144
Standard fluorescent	4,649	949	509	552	570	363	382	299
Compact fluorescent	2,302	484	161	168	301	222	176	165
High-intensity discharge (HID)	525	57	76	70	98	39	57	41
Halogen	905	161	66	78	175	90	50	67
LED	473	81	23	Q	117	33	28	46
Other	10	Q	N	N	Q	N	Q	Q
Refrigeration equipment (more than one may apply)								
Any refrigeration	3,984	816	314	415	500	351	277	268
Walk-in units	811	23	19	Q	149	Q	80	28
Cases or cabinets	915	43	14	Q	195	38	81	56
Large cold storage areas	78	Q	12	N	19	Q	Q	Q
Commercial ice makers	846	72	29	Q	113	39	68	51
Residential-type or compact units	3,388	788	286	384	417	330	229	243
Vending machines	960	179	90	118	173	12	97	48
No refrigeration	1,573	197	482	204	102	61	112	84

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All buildings	5,557	1,012	796	619	602	412	389	352
Office equipment (more than one may apply)								
Desktop computers	3,977	977	370	428	527	246	357	231
With flat screen monitors	3,847	967	361	412	514	223	347	216
With multiple monitors	911	376	96	48	128	35	50	26
Laptop computers	2,730	753	253	246	350	186	255	155
Dedicated servers	1,748	580	173	116	239	58	150	70
Laser printers	2,339	728	224	209	282	104	223	115
Inkjet printers	2,187	430	200	269	323	162	167	152
FAX machines	3,185	873	329	347	465	143	218	171
Photocopiers	2,163	710	209	133	250	195	199	120
Number of desktop computers								
None	1,581	35	426	191	75	166	31	121
1 to 4	2,039	271	178	332	262	198	100	146
5 to 9	821	284	95	60	141	32	46	37
10 to 19	482	184	64	22	71	Q	45	20
20 to 49	355	128	25	Q	46	Q	62	23
50 to 99	143	60	6	Q	6	Q	45	2
100 to 249	92	31	2	Q	1	Q	41	3
250 or more	44	19	Q	N	Q	N	18	2
Number of laptop computers								
None	2,827	259	543	372	252	226	134	197
1 to 4	1,944	460	193	228	264	162	108	131
5 to 9	350	128	41	Q	52	18	31	11
10 to 19	181	65	9	Q	29	Q	27	8
20 to 49	144	64	8	Q	5	Q	43	2
50 to 99	58	19	Q	Q	Q	Q	24	Q
100 to 249	35	10	Q	Q	Q	N	15	Q
250 or more	20	8	Q	N	Q	N	7	Q
Number of dedicated servers								
None	3,809	433	623	502	364	354	239	282
1 to 4	1,562	479	159	116	222	57	130	67
5 to 9	97	51	9	Q	12	Q	9	Q
10 to 19	50	26	Q	Q	5	N	7	Q
20 to 49	25	16	Q	Q	Q	N	2	1
50 or more	13	6	Q	N	N	N	Q	Q
Number of photocopiers								
None	3,394	302	587	486	352	217	190	232
One	1,325	352	141	103	163	156	83	90
2 to 4	648	259	59	27	70	38	88	24
5 to 9	116	55	7	Q	16	Q	21	3
10 or more	75	44	Q	Q	1	Q	7	3

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All buildings	5,557	1,012	796	619	602	412	389	352
Number of TVs or video displays								
None	2,718	463	626	345	222	173	118	160
One	1,145	249	90	170	150	108	72	67
2 to 4	1,035	200	72	96	121	101	92	90
5 to 9	314	60	6	Q	44	23	39	16
10 to 19	154	25	Q	Q	35	Q	28	11
20 to 49	106	11	Q	N	25	Q	27	5
50 to 99	48	2	Q	N	5	N	10	Q
100 or more	37	1	Q	N	Q	N	Q	1
Food preparation or serving areas in non-food service buildings (more than one may apply)								
Snack bar or concession stand	153	8	Q	Q	31	Q	30	18
Fast food or small restaurant	173	9	Q	Q	99	N	Q	8
Cafeteria or large restaurant	130	12	Q	N	15	Q	70	6
Commercial kitchen/food preparation area	282	12	Q	Q	30	57	69	28
Small kitchen area	736	95	26	34	49	205	67	98
Separate computer areas (more than one may apply)								
Data center or server farm	97	51	7	Q	Q	Q	13	2
Computer-based training room	244	67	10	Q	38	Q	78	8
Student or public computer center	238	19	Q	Q	22	Q	126	21
HVAC conservation features (more than one may apply)								
Economizer cycle	601	134	29	22	94	25	114	42
Regular HVAC maintenance	3,178	703	248	264	390	238	345	224
Building automation system (BAS) ²	781	143	30	24	134	52	180	54
Window and interior lighting features (more than one may apply)								
Multipaned windows	3,012	686	258	265	378	247	221	203
Tinted window glass	1,875	409	159	169	285	152	151	94
Reflective window glass	549	138	51	33	95	52	42	33
External overhangs or awnings	1,867	370	132	159	330	109	125	120
Skylights or atriums	591	113	83	70	80	39	46	42
Light scheduling	918	168	56	71	233	35	80	77
Occupancy sensors	813	187	76	36	142	15	122	63
Multi-level lighting or dimming	349	56	4	Q	83	40	26	38
Daylight harvesting	125	28	11	Q	29	Q	9	8
Demand responsive lighting	176	15	Q	Q	52	Q	15	Q
Building automation system (BAS) for lighting ²	208	25	4	Q	93	Q	32	13

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Equipment usage reduced when building not in full use (more than one may apply)								
Heating	3,699	798	294	400	479	362	348	272
Cooling	3,517	803	272	343	475	337	333	243
Lighting	4,757	990	518	570	578	404	385	331

¹These climate regions were created by the Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE).

²In earlier CBECS publications, BAS was referred to as *Energy Management and Control System (EMCS)*.

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

N = No cases in reporting sample.

Notes: • Because of rounding, data may not sum to totals. • See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition of terms used in these tables and/or comparison of differences with prior CBECS tables. Both references can be accessed from <http://www.eia.gov/consumption/commercial/data/2012/>

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-871A of the 2012 Commercial Buildings Energy Consumption Survey.