

Table B43. Lighting equipment, number of buildings, 2012

	Number of buildings (thousand)								
	Lighting equipment (more than one may apply)								
	All buildings	Lit buildings	Incandescent	Standard fluorescent	Compact fluorescent	High-intensity discharge	Halogen	LED	
All buildings	5,557	5,025	1,826	4,649	2,302	525	905	473	
Building floorspace (square feet)									
1,001 to 5,000	2,777	2,422	824	2,192	925	106	299	108	
5,001 to 10,000	1,229	1,120	396	1,045	517	99	201	94	
10,001 to 25,000	884	832	311	786	427	140	181	112	
25,001 to 50,000	332	322	135	308	194	74	96	61	
50,001 to 100,000	199	194	89	189	138	53	71	48	
100,001 to 200,000	90	89	45	85	65	30	34	28	
200,001 to 500,000	38	37	20	37	30	17	18	17	
Over 500,000	8	8	5	8	7	5	5	5	
Principal building activity									
Education	389	389	97	382	176	57	50	28	
Food sales	177	177	49	169	69	Q	23	27	
Food service	380	380	174	352	237	17	91	42	
Health care	157	157	68	148	89	15	38	17	
Inpatient	10	10	7	10	9	4	4	4	
Outpatient	147	147	62	139	80	11	33	13	
Lodging	158	158	68	125	132	18	37	23	
Mercantile	602	599	273	570	301	98	175	117	
Retail (other than mall)	438	435	150	407	157	36	79	33	
Enclosed and strip malls	164	164	123	163	144	61	96	84	
Office	1,012	1,012	361	949	484	57	161	81	
Public assembly	352	341	144	299	165	41	67	46	
Public order and safety	84	76	22	72	37	8	10	Q	
Religious worship	412	412	253	363	222	39	90	33	
Service	619	584	126	552	168	70	78	Q	
Warehouse and storage	796	567	136	509	161	76	66	23	
Other	125	112	40	104	44	15	13	2	
Vacant	296	62	16	56	16	Q	Q	Q	
Year constructed									
Before 1920	362	320	182	272	161	29	72	33	
1920 to 1945	488	439	188	388	195	25	76	34	
1946 to 1959	599	529	196	489	243	39	81	43	
1960 to 1969	639	601	234	574	268	73	101	50	
1970 to 1979	684	628	256	588	299	66	95	52	
1980 to 1989	915	831	281	787	343	98	149	80	
1990 to 1999	845	733	217	671	342	75	123	56	
2000 to 2003	375	349	113	332	163	48	73	29	
2004 to 2007	347	319	90	300	147	42	70	45	
2008 to 2012	303	277	69	249	142	31	64	51	

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All buildings	5,557	5,025	1,826	4,649	2,302	525	905	473
Census region and division								
Northeast	805	739	293	684	354	76	148	83
New England	302	267	111	236	139	34	70	36
Middle Atlantic	504	472	182	448	214	41	79	47
Midwest	1,237	1,113	460	1,018	542	110	203	114
East North Central	735	674	276	620	349	73	138	80
West North Central	502	439	183	398	194	37	64	34
South	2,247	2,023	721	1,890	840	219	377	164
South Atlantic	1,091	995	353	948	422	122	196	96
East South Central	370	346	149	319	136	29	44	29
West South Central	786	681	219	624	282	67	137	38
West	1,267	1,150	353	1,057	566	121	177	113
Mountain	338	288	105	269	132	27	45	26
Pacific	929	863	247	788	433	95	132	87
Climate region¹								
Very cold/Cold	2,031	1,813	730	1,663	881	189	332	190
Mixed-humid	1,743	1,589	612	1,499	698	165	300	138
Mixed-dry/Hot-dry	837	777	190	722	338	83	119	70
Hot-humid	799	714	233	652	299	74	127	59
Marine	147	132	60	113	87	Q	28	15
Number of floors								
One	3,836	3,388	1,071	3,120	1,372	326	506	261
Two	1,158	1,093	474	1,022	577	130	245	113
Three	374	359	171	329	210	37	85	48
Four to nine	177	173	104	166	132	28	62	45
Ten or more	13	12	7	12	12	5	7	7
Number of workers (main shift)								
Fewer than 5	2,892	2,366	813	2,102	885	152	327	119
5 to 9	1,085	1,081	364	1,018	501	108	180	76
10 to 19	731	731	281	703	385	82	148	89
20 to 49	513	511	206	498	292	86	130	87
50 to 99	206	206	98	199	140	53	70	55
100 to 249	93	93	43	92	66	31	32	30
250 or more	37	37	21	37	33	14	18	16
Weekly operating hours								
Fewer than 40	1,149	792	367	691	290	47	111	32
40 to 48	1,346	1,316	404	1,248	520	90	190	59
49 to 60	1,244	1,224	401	1,168	556	157	225	117
61 to 84	764	734	305	687	397	116	184	117
85 to 167	479	459	181	427	242	49	104	61
Open continuously	575	501	168	429	297	66	91	87

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All buildings	5,557	5,025	1,826	4,649	2,302	525	905	473
Ownership and occupancy								
Nongovernment owned	4,781	4,294	1,637	3,955	1,997	421	826	395
Owner occupied	2,466	2,330	910	2,104	1,096	189	408	169
Leased to tenant(s)	1,745	1,600	575	1,501	721	178	325	179
Owner occupied and leased	349	342	147	329	177	54	93	47
Unoccupied	221	21	Q	20	Q	Q	Q	Q
Government owned	776	731	189	695	305	104	79	78
Federal	33	33	12	33	15	6	8	Q
State	185	175	46	166	82	29	25	19
Local	558	523	132	496	208	69	45	55
Party responsible for operation and maintenance of energy systems								
Building owner	4,715	4,223	1,510	3,895	1,946	417	722	362
Business owner or tenant	724	692	268	654	308	95	158	97
Property management	54	49	17	42	27	5	9	6
Other	64	62	31	58	22	Q	Q	Q
Provider of direct input on energy-related equipment purchases								
Building owner	4,876	4,370	1,567	4,038	2,001	436	757	385
Business owner or tenant	540	518	207	484	248	74	122	72
Property management	35	35	7	31	18	3	8	Q
Other	106	102	46	97	36	12	18	12
Campus or complex activity								
Not part of a campus or complex	3,683	3,408	1,307	3,184	1,576	333	632	295
Primary or secondary school	237	229	39	224	79	27	17	15
College or university	84	82	23	80	63	12	15	13
Office complex	154	151	53	142	72	9	31	18
Retail complex	258	241	99	231	129	48	79	51
Storage complex	314	144	28	114	42	Q	Q	Q
Religious campus or complex	197	192	105	162	88	14	37	16
Health care complex	52	49	22	45	36	6	10	10
Lodging or resort complex	65	62	22	36	47	Q	7	Q
Transportation complex	35	34	Q	32	19	Q	Q	Q
Government complex	104	97	30	87	38	13	9	16
Other	371	336	90	313	113	45	51	27

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Renovations in buildings constructed before 2008 (more than one may apply)								
Any type of renovation	2,094	2,006	876	1,858	1,056	232	427	244
Addition or annex	444	434	191	414	239	68	110	63
Reduction in floorspace	71	63	30	55	34	12	9	8
Roof replacement	987	943	440	869	482	110	200	135
Exterior wall replacement	194	184	86	172	101	23	56	34
Interior wall reconfiguration	889	856	403	818	496	115	213	136
Window replacement	560	547	261	507	325	72	141	98
HVAC equipment upgrade	1,101	1,066	513	1,002	613	156	259	160
Lighting upgrade	982	952	437	881	565	128	229	167
Electrical upgrade	747	718	360	660	419	94	199	110
Plumbing system upgrade	644	619	304	567	373	72	162	103
Insulation upgrade	382	370	178	353	214	40	92	73
Fire, safety, or security upgrade	616	603	304	567	356	80	162	103
Structural upgrade	152	147	85	134	90	15	47	31
Other	39	39	15	39	18	Q	9	6
No renovations	3,160	2,742	881	2,542	1,104	262	413	178
Buildings constructed 2008 or later	303	277	69	249	142	31	64	51
Energy sources (more than one may apply)								
Electricity	5,234	5,025	1,826	4,649	2,302	525	905	473
Natural gas	2,933	2,890	1,137	2,713	1,490	345	596	336
Fuel oil	467	457	192	433	239	85	105	63
District heat	48	47	20	43	38	11	13	11
District chilled water	54	53	15	52	37	7	10	10
Propane	510	496	204	451	230	65	100	49
Other	172	167	62	156	91	21	34	21
Energy end uses (more than one may apply)								
Buildings with space heating	4,722	4,637	1,720	4,325	2,180	499	864	455
Buildings with cooling	4,461	4,418	1,648	4,141	2,133	481	857	456
Buildings with water heating	4,423	4,381	1,674	4,093	2,149	493	861	460
Buildings with cooking	1,589	1,574	778	1,473	995	207	415	255
Buildings with manufacturing	259	253	99	245	105	49	49	20
Buildings with electricity generation	410	405	149	386	260	78	112	88
Percent lit when open								
Zero	70	Q	Q	Q	Q	N	N	Q
1 to 50	1,099	1,099	391	985	478	78	165	76
51 to 99	1,666	1,666	724	1,570	920	227	413	222
100	2,222	2,222	699	2,065	895	220	326	174
Building never open/electricity not used	501	32	Q	26	Q	Q	Q	Q

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All buildings	5,557	5,025	1,826	4,649	2,302	525	905	473
Percent lit during off hours								
Zero	2,489	2,296	759	2,084	827	170	298	104
1 to 50	2,441	2,441	984	2,305	1,319	314	554	316
51 to 100	202	202	64	184	109	27	41	34
Building always open with no "off hours"	102	87	20	77	47	14	12	19
Electricity not used	323	N	N	N	N	N	N	N
Lighting equipment types (more than one may apply)								
Incandescent	1,826	1,826	1,826	1,656	1,041	267	512	253
Standard fluorescent	4,649	4,649	1,656	4,649	2,084	488	840	435
Compact fluorescent	2,302	2,302	1,041	2,084	2,302	319	607	350
High-intensity discharge	525	525	267	488	319	525	207	130
Halogen	905	905	512	840	607	207	905	215
LED	473	473	253	435	350	130	215	473
Other	10	10	9	10	10	Q	6	6
Window and interior lighting features (more than one may apply)								
Multipaned windows	3,012	2,902	1,152	2,726	1,496	361	611	377
Tinted window glass	1,875	1,825	697	1,723	991	275	402	250
Reflective window glass	549	541	224	504	330	88	156	106
External overhangs or awnings	1,867	1,819	761	1,728	1,011	215	396	257
Skylights or atriums	591	574	245	531	353	105	197	104
Light scheduling	918	918	390	851	598	200	300	183
Occupancy sensors	813	813	300	767	528	156	237	226
Multi-level lighting or dimming	349	349	219	320	258	86	160	117
Daylight harvesting	125	125	56	115	79	34	42	39
Demand responsive lighting	176	176	78	168	91	37	44	37
Building automation system (BAS) for lighting ²	208	208	86	195	138	54	71	71
Equipment usage reduced when building not in full use (more than one may apply)								
Heating	3,699	3,647	1,397	3,402	1,772	405	707	373
Cooling	3,517	3,480	1,348	3,250	1,736	391	705	371
Lighting	4,757	4,757	1,758	4,414	2,180	499	882	438

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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.