

Release date: February 2015
 Revised date: December 2016

Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Mean square feet per building (thousand)	Mean square feet per worker ¹	Mean operating hours per week
All buildings	5,557	87,093	88,182	15.7	936	62
Building floorspace (square feet)						
1,001 to 5,000	2,777	8,041	10,232	2.9	675	56
5,001 to 10,000	1,229	8,900	9,225	7.2	847	62
10,001 to 25,000	884	14,105	14,189	16.0	925	65
25,001 to 50,000	332	11,917	11,327	35.9	1,006	72
50,001 to 100,000	199	13,918	12,345	69.9	1,089	80
100,001 to 200,000	90	12,415	11,310	137.9	1,083	89
200,001 to 500,000	38	10,724	10,356	284.2	1,024	99
Over 500,000	8	7,074	9,196	885.0	763	117
Principal building activity						
Education	389	12,239	10,885	31.5	1,124	53
Food sales	177	1,252	1,172	7.1	1,067	121
Food service	380	1,819	3,431	4.8	530	82
Health care	157	4,155	7,613	26.5	546	60
Inpatient	10	2,374	4,281	247.8	555	168
Outpatient	147	1,781	3,333	12.1	535	53
Lodging	158	5,826	3,066	36.9	1,894	165
Mercantile	602	11,330	9,117	18.8	1,243	64
Retail (other than mall)	438	5,439	4,023	12.4	1,352	62
Enclosed and strip malls	164	5,890	5,094	35.9	1,156	69
Office	1,012	15,952	33,756	15.8	473	55
Public assembly	352	5,559	3,108	15.8	1,716	56
Public order and safety	84	1,440	1,854	17.2	756	113
Religious worship	412	4,557	1,940	11.1	2,295	31
Service	619	4,630	4,031	7.5	1,086	56
Warehouse and storage	796	13,077	6,362	16.4	1,843	67
Other	125	2,002	1,611	16.0	1,193	61
Vacant	296	3,256	236	11.0	3,309	8
Year constructed						
Before 1920	362	3,983	3,310	11.0	1,087	48
1920 to 1945	488	6,025	6,003	12.3	936	52
1946 to 1959	599	7,381	6,566	12.3	1,064	51
1960 to 1969	639	10,362	9,851	16.2	1,010	61
1970 to 1979	684	10,846	12,536	15.9	817	61
1980 to 1989	915	15,230	17,468	16.6	830	65
1990 to 1999	845	13,803	13,432	16.3	947	68
2000 to 2003	375	7,215	7,471	19.2	951	66
2004 to 2007	347	6,524	5,993	18.8	1,065	69
2008 to 2012	303	5,723	5,552	18.9	978	76

Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Mean square feet per building (thousand)	Mean square feet per worker ¹	Mean operating hours per week
All buildings	5,557	87,093	88,182	15.7	936	62
Census region and division						
Northeast	805	15,534	17,775	19.3	844	64
New England	302	4,302	4,165	14.3	967	60
Middle Atlantic	504	11,232	13,610	22.3	806	67
Midwest	1,237	18,919	17,261	15.3	1,036	61
East North Central	735	12,742	11,933	17.3	1,019	62
West North Central	502	6,178	5,329	12.3	1,075	59
South	2,247	34,279	32,666	15.3	984	61
South Atlantic	1,091	17,981	18,098	16.5	950	65
East South Central	370	4,904	4,293	13.3	1,090	55
West South Central	786	11,394	10,275	14.5	1,001	59
West	1,267	18,360	20,479	14.5	855	61
Mountain	338	4,981	4,600	14.7	1,002	61
Pacific	929	13,379	15,878	14.4	812	61
Climate region²						
Very cold/Cold	2,031	31,898	30,739	15.7	983	62
Mixed-humid	1,743	27,873	28,708	16.0	931	60
Mixed-dry/Hot-dry	837	12,037	13,056	14.4	875	59
Hot-humid	799	12,831	12,541	16.1	946	68
Marine	147	2,454	3,138	16.7	742	67
Number of floors						
One	3,836	39,809	35,019	10.4	1,042	60
Two	1,158	20,206	19,744	17.5	991	60
Three	374	8,140	7,826	21.8	1,013	69
Four to nine	177	13,535	16,248	76.6	812	84
Ten or more	13	5,404	9,343	429.2	574	108
Elevators and escalators (more than one may apply)						
Any elevators	405	32,120	39,978	79.3	792	81
Number of elevators						
One	272	11,158	11,347	41.1	970	75
Two to five	118	12,817	15,489	109.0	811	90
Six or more	16	8,145	13,143	506.8	616	114
Any escalators	10	3,654	4,822	377.5	753	97
Number of workers (main shift)						
Fewer than 5	2,892	17,751	5,064	6.1	2,607	55
5 to 9	1,085	8,973	7,017	8.3	1,279	63
10 to 19	731	9,623	9,472	13.2	1,016	69
20 to 49	513	14,514	14,881	28.3	975	72
50 to 99	206	13,476	13,424	65.6	1,004	77
100 to 249	93	10,941	13,368	117.1	818	87
250 or more	37	11,815	24,956	318.3	473	98

Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Mean square feet per building (thousand)	Mean square feet per worker ¹	Mean operating hours per week
All buildings	5,557	87,093	88,182	15.7	936	62
Weekly operating hours						
Fewer than 40	1,149	8,220	3,291	7.2	1,488	12
40 to 48	1,346	15,828	17,546	11.8	894	42
49 to 60	1,244	20,529	24,845	16.5	818	54
61 to 84	764	15,867	16,679	20.8	945	74
85 to 167	479	9,395	8,087	19.6	1,145	105
Open continuously	575	17,253	17,734	30.0	937	168
Ownership and occupancy						
Nongovernment owned	4,781	67,550	68,505	14.1	930	62
Owner occupied	2,466	30,637	25,871	12.4	1,150	62
Leased to tenant(s)	1,745	26,115	32,033	15.0	787	69
Owner occupied and leased	349	8,873	10,601	25.4	825	64
Unoccupied	221	1,925	0	8.7	N	0
Government owned	776	19,543	19,676	25.2	957	60
Federal	33	1,573	2,135	47.7	732	64
State	185	5,539	5,579	30.0	962	58
Local	558	12,431	11,963	22.3	996	61
Party responsible for operation and maintenance of energy systems						
Building owner	4,715	73,702	74,433	15.6	934	61
Business owner or tenant	724	11,309	11,128	15.6	987	66
Property management	54	1,250	1,757	23.0	690	66
Other	64	832	864	12.9	944	58
Provider of direct input on energy-related equipment purchases						
Building owner	4,876	76,271	76,830	15.6	936	61
Business owner or tenant	540	8,256	8,617	15.3	938	68
Property management	35	880	954	25.5	909	74
Other	106	1,686	1,781	15.9	926	56
Number of establishments						
One	4,205	54,994	52,072	13.1	1,021	64
2 to 5	862	17,756	18,916	20.6	931	65
6 to 10	147	4,425	5,890	30.1	731	77
11 to 20	68	3,704	5,276	54.8	692	70
More than 20	27	3,821	6,028	140.9	630	84
Currently unoccupied	248	2,393	0	9.6	N	0

Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Mean square feet per building (thousand)	Mean square feet per worker ¹	Mean operating hours per week
All buildings	5,557	87,093	88,182	15.7	936	62
Campus or complex activity						
Not part of a campus or complex	3,683	52,275	51,924	14.2	957	59
Primary or secondary school	237	4,616	4,670	19.4	977	48
College or university	84	4,068	3,090	48.4	1,290	88
Office complex	154	3,456	7,205	22.4	465	58
Retail complex	258	5,159	4,524	20.0	1,108	66
Storage complex	314	3,212	726	10.2	3,076	89
Religious campus or complex	197	1,932	1,027	9.8	1,821	43
Health care complex	52	3,362	5,715	64.1	577	90
Lodging or resort complex	65	1,295	817	19.8	1,562	146
Transportation complex	35	554	681	15.8	744	76
Government complex	104	2,107	3,236	20.2	628	65
Other	371	5,057	4,566	13.6	1,036	55
Predominant exterior wall material						
Brick, stone, or stucco	2,312	40,463	41,653	17.5	934	62
Concrete (block or poured)	1,121	20,726	20,195	18.5	1,000	62
Concrete panels	210	8,693	9,482	41.4	861	72
Siding or shingles	905	5,750	6,012	6.4	887	58
Metal panels	933	8,673	5,804	9.3	1,246	61
Window glass	17	1,340	2,652	78.6	488	77
Other	37	856	844	23.0	1,012	68
No one major type	21	592	Q	27.6	Q	68
Predominant roof material						
Metal surfacing	1,672	15,916	12,016	9.5	1,166	62
Synthetic or rubber	911	25,817	27,573	28.3	912	68
Built-up	836	21,835	24,082	26.1	873	62
Slate or tile shingles	406	4,306	4,227	10.6	989	61
Wooden materials (including shingles)	157	1,139	999	7.3	1,044	63
Asphalt, fiberglass, or other shingles	1,483	15,104	16,308	10.2	874	58
Concrete	51	1,642	2,076	32.2	758	66
Other	24	678	567	28.6	1,190	66
No one major type	18	657	333	36.4	1,972	54
Roof characteristics						
Roof tilt						
Flat	1,960	49,623	57,145	25.3	838	68
Shallow pitch	2,148	23,853	19,542	11.1	1,131	60
Steeper pitch	1,449	13,617	11,495	9.4	1,090	55
Cool roof	740	19,630	21,650	26.5	884	66

Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Mean square feet per building (thousand)	Mean square feet per worker ¹	Mean operating hours per week
All buildings	5,557	87,093	88,182	15.7	936	62
Renovations in buildings constructed before 2008 (more than one may apply)						
Any type of renovation	2,094	42,216	46,424	20.2	887	63
Addition or annex	444	13,022	12,473	29.3	1,033	68
Reduction in floorspace	71	1,753	2,572	24.6	668	69
Roof replacement	987	20,917	22,872	21.2	896	62
Exterior wall replacement	194	4,230	4,558	21.8	918	66
Interior wall reconfiguration	889	21,340	27,649	24.0	758	63
Window replacement	560	12,265	14,128	21.9	855	65
HVAC equipment upgrade	1,101	26,779	30,162	24.3	872	63
Lighting upgrade	982	25,503	28,277	26.0	891	66
Electrical upgrade	747	16,160	17,723	21.6	894	63
Plumbing system upgrade	644	13,828	16,073	21.5	847	67
Insulation upgrade	382	7,607	8,383	19.9	889	62
Fire, safety, or security upgrade	616	17,196	20,050	27.9	850	68
Structural upgrade	152	3,913	3,724	25.8	1,035	64
Other	39	848	1,011	21.7	838	68
No renovations	3,160	39,154	36,206	12.4	992	59
Buildings constructed 2008 or later	303	5,723	5,552	18.9	978	76
Energy sources (more than one may apply)						
Electricity	5,234	84,869	88,114	16.2	935	63
Natural gas	2,933	58,725	62,376	20.0	926	65
Fuel oil	467	20,200	25,625	43.3	781	76
District heat	48	5,964	8,230	124.9	712	87
District chilled water	54	4,608	5,742	85.4	791	87
Propane	510	7,706	5,903	15.1	1,289	64
Wood	69	502	476	7.3	1,036	65
Coal	Q	Q	Q	Q	Q	Q
Solar	40	1,908	1,713	48.2	1,112	84
Other	61	1,386	1,526	22.7	897	64
Space-heating energy sources (more than one may apply)						
Electricity	2,858	49,030	53,857	17.2	900	64
Natural gas	2,612	49,511	51,754	19.0	940	62
Fuel oil	270	4,351	4,163	16.1	1,021	60
District heat	48	5,925	8,157	124.3	714	87
Propane	342	3,067	2,510	9.0	1,189	55
Wood	63	395	212	6.3	1,819	63
Coal	Q	Q	Q	Q	Q	Q
Solar	Q	Q	Q	Q	Q	Q
Other	32	508	463	15.7	1,098	56

Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Mean square feet per building (thousand)	Mean square feet per worker ¹	Mean operating hours per week
All buildings	5,557	87,093	88,182	15.7	936	62
Primary space-heating energy source						
Electricity	1,819	26,205	28,953	14.4	891	66
Natural gas	2,322	42,988	44,641	18.5	946	61
Fuel oil	205	2,542	2,000	12.4	1,221	59
District heat	47	5,797	8,048	122.9	708	87
Propane	261	1,948	1,471	7.5	1,274	52
Wood	38	178	101	4.6	1,736	55
Coal	Q	Q	Q	Q	Q	Q
Other	25	341	Q	13.5	959	54
Cooling energy sources (more than one may apply)						
Electricity	4,413	76,034	82,280	17.2	914	64
Natural gas	12	732	1,048	61.5	699	67
District chilled water	54	4,608	5,742	85.4	791	87
Water-heating energy sources (more than one may apply)						
Electricity	2,658	42,755	46,793	16.1	905	61
Natural gas	1,758	39,523	41,909	22.5	931	70
Fuel oil	77	1,911	1,627	24.7	1,172	80
District heat	25	4,551	6,365	179.7	712	101
Propane	142	1,575	1,258	11.1	1,236	75
Cooking energy sources (more than one may apply)						
Electricity	1,010	25,151	27,312	24.9	914	72
Natural gas	740	24,770	25,861	33.5	955	81
Propane	144	2,001	1,971	13.9	1,011	85
Energy end uses (more than one may apply)						
Buildings with space heating	4,722	80,078	85,624	17.0	918	63
Buildings with cooling	4,461	79,294	85,775	17.8	914	64
Buildings with water heating	4,423	79,015	85,448	17.9	914	65
Buildings with cooking	1,589	38,546	41,216	24.3	929	74
Buildings with manufacturing	259	5,078	5,033	19.6	1,006	57
Buildings with electricity generation	410	25,642	30,932	62.5	826	92
Percent of floorspace heated						
Not heated	835	7,015	2,558	8.4	1,526	56
1 to 50	697	10,130	6,413	14.5	1,521	54
51 to 99	727	14,650	15,548	20.2	936	67
100	3,298	55,298	63,662	16.8	854	64
Percent of floorspace cooled						
Not cooled	1,096	7,799	2,407	7.1	1,728	51
1 to 50	1,173	18,891	12,646	16.1	1,472	58
51 to 99	897	22,728	25,280	25.3	892	70
100	2,391	37,676	47,849	15.8	778	65

Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Mean square feet per building (thousand)	Mean square feet per worker ¹	Mean operating hours per week
All buildings	5,557	87,093	88,182	15.7	936	62
Percent lit when open						
Zero	70	322	58	4.6	Q	113
1 to 50	1,099	12,628	6,713	11.5	1,821	64
51 to 99	1,666	34,814	36,393	20.9	952	64
100	2,222	35,726	44,884	16.1	787	65
Building never open/electricity not used	501	3,603	133	7.2	Q	25
Percent lit during off hours						
Zero	2,489	24,746	23,170	9.9	990	48
1 to 50	2,441	50,753	54,552	20.8	921	69
51 to 100	202	6,926	7,816	34.3	879	125
Building always open with no "off hours"	102	2,443	2,577	23.9	911	168
Electricity not used	323	2,225	67	6.9	Q	39
Heating equipment (more than one may apply)						
Heat pumps	628	11,846	13,269	18.9	883	63
Furnaces	755	8,654	8,562	11.5	997	58
Individual space heaters	1,247	20,766	19,345	16.6	1,057	60
District heat	48	5,925	8,157	124.3	714	87
Boilers	544	22,443	25,157	41.3	881	70
Packaged heating units	2,802	49,188	51,098	17.6	949	64
Other	62	1,574	1,202	25.5	1,295	86
Cooling equipment (more than one may apply)						
Residential-type central air conditioners	1,546	14,765	15,104	9.5	963	58
Heat pumps	692	12,538	14,265	18.1	873	63
Individual air conditioners	709	12,420	12,342	17.5	1,000	66
District chilled water	54	4,608	5,742	85.4	791	87
Central chillers	163	17,041	21,944	104.6	773	84
Packaged air conditioning units	1,909	45,153	46,979	23.6	953	70
Swamp coolers	109	1,918	1,755	17.5	1,078	66
Other	Q	328	474	Q	678	56
Main equipment replaced since 1990 (more than one may apply)						
Heating	1,874	27,558	28,670	14.7	947	62
Cooling	1,971	30,702	33,365	15.6	912	63
Water-heating equipment						
Centralized system	3,348	47,534	50,164	14.2	934	65
Distributed system	690	12,688	14,214	18.4	887	60
Combination of centralized and distributed system	385	18,793	21,070	48.8	885	75

Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Mean square feet per building (thousand)	Mean square feet per worker ¹	Mean operating hours per week
All buildings	5,557	87,093	88,182	15.7	936	62
Lighting equipment types (more than one may apply)						
Incandescent	1,826	38,406	41,621	21.0	914	63
Standard fluorescent	4,649	80,081	85,648	17.2	923	64
Compact fluorescent	2,302	53,816	59,903	23.4	893	71
High-intensity discharge (HID)	525	23,396	23,812	44.5	975	72
Halogen	905	28,059	30,498	31.0	917	69
LED	473	22,071	25,900	46.6	851	83
Other	10	446	555	45.2	804	82
Refrigeration equipment (more than one may apply)						
Any refrigeration	3,984	73,645	78,938	18.5	926	65
Walk-in units	811	28,361	31,133	35.0	910	93
Cases or cabinets	915	28,719	31,528	31.4	910	86
Large cold storage areas	78	4,171	3,692	53.4	1,130	89
Commercial ice makers	846	32,734	36,512	38.7	894	90
Residential-type or compact units	3,388	62,381	67,677	18.4	915	61
Vending machines	960	43,936	49,684	45.8	882	80
No refrigeration	1,573	13,448	9,244	8.5	1,023	52
Office equipment (more than one may apply)						
Desktop computers	3,977	77,063	84,337	19.4	911	66
With flat screen monitors	3,847	76,160	83,874	19.8	905	66
With multiple monitors	911	30,946	43,399	34.0	713	67
Laptop computers	2,730	63,486	73,337	23.3	864	66
Dedicated servers	1,748	53,369	63,425	30.5	840	69
Laser printers	2,339	54,256	63,469	23.2	853	66
Inkjet printers	2,187	36,235	37,744	16.6	957	65
FAX machines	3,185	66,682	73,771	20.9	902	66
Photocopiers	2,163	59,277	68,508	27.4	863	64
Number of desktop computers						
None	1,581	10,030	3,844	6.3	1,488	51
1 to 4	2,039	15,669	11,304	7.7	1,370	65
5 to 9	821	9,422	9,594	11.5	981	63
10 to 19	482	9,388	8,659	19.5	1,083	65
20 to 49	355	13,094	12,782	36.9	1,022	71
50 to 99	143	8,284	9,293	57.8	891	73
100 to 249	92	9,728	12,514	105.6	777	69
250 or more	44	11,478	20,191	258.3	568	86

Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Mean square feet per building (thousand)	Mean square feet per worker ¹	Mean operating hours per week
All buildings	5,557	87,093	88,182	15.7	936	62
Number of laptop computers						
None	2,827	23,607	14,845	8.4	1,291	58
1 to 4	1,944	21,161	17,749	10.9	1,187	63
5 to 9	350	8,345	8,868	23.9	940	67
10 to 19	181	8,343	9,267	46.0	900	70
20 to 49	144	9,643	11,659	67.2	827	73
50 to 99	58	5,234	8,236	91.0	636	75
100 to 249	35	5,217	6,608	150.9	789	87
250 or more	20	5,542	10,949	280.8	506	95
Number of dedicated servers						
None	3,809	33,724	24,756	8.9	1,181	58
1 to 4	1,562	34,097	34,337	21.8	991	68
5 to 9	97	6,241	7,841	64.3	796	74
10 to 19	50	5,711	7,551	113.6	755	82
20 to 49	25	3,758	6,685	147.4	562	82
50 or more	13	3,562	7,012	271.4	508	100
Number of photocopiers						
None	3,394	27,816	19,673	8.2	1,189	60
One	1,325	17,080	13,348	12.9	1,270	61
2 to 4	648	20,312	21,540	31.4	943	66
5 to 9	116	8,863	10,503	76.7	844	74
10 or more	75	13,022	23,118	174.7	563	82
Number of TVs or video displays						
None	2,718	24,339	17,802	9.0	1,126	53
One	1,145	9,990	10,015	8.7	983	58
2 to 4	1,035	16,465	17,695	15.9	925	68
5 to 9	314	8,148	10,105	25.9	806	82
10 to 19	154	8,168	10,344	53.1	789	90
20 to 49	106	8,058	8,931	76.1	902	102
50 to 99	48	4,378	4,384	90.9	999	129
100 or more	37	7,547	8,904	201.5	848	156
Food preparation or serving areas in non-food service buildings (more than one may apply)						
Snack bar or concession stand	153	9,884	10,260	64.6	963	94
Fast food or small restaurant	173	9,787	10,961	56.5	893	92
Cafeteria or large restaurant	130	15,222	17,611	117.1	864	80
Commercial kitchen/ food preparation area	282	16,150	15,343	57.2	1,051	86
Small kitchen area	736	14,054	13,620	19.1	1,017	61
Separate computer areas (more than one may apply)						
Data center or server farm	97	11,105	18,027	115.1	616	82
Computer-based training room	244	17,723	22,237	72.7	797	74
Student or public computer center	238	14,341	12,506	60.1	1,146	70

Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Mean square feet per building (thousand)	Mean square feet per worker ¹	Mean operating hours per week
All buildings	5,557	87,093	88,182	15.7	936	62
HVAC conservation features (more than one may apply)						
Economizer cycle	601	30,749	35,394	51.2	866	74
Regular HVAC maintenance	3,178	69,244	77,868	21.8	880	68
Building automation system (BAS) ³	781	37,051	42,344	47.5	869	73
Window and interior lighting features (more than one may apply)						
Multipaned windows	3,012	60,362	62,267	20.0	944	63
Tinted window glass	1,875	45,025	50,791	24.0	865	65
Reflective window glass	549	15,908	18,998	29.0	826	66
External overhangs or awnings	1,867	32,188	33,758	17.2	938	66
Skylights or atriums	591	22,261	21,919	37.6	995	65
Light scheduling	918	30,263	34,960	33.0	861	75
Occupancy sensors	813	35,871	40,959	44.1	872	75
Multi-level lighting or dimming	349	14,534	16,135	41.7	897	76
Daylight harvesting	125	6,114	7,689	48.8	793	70
Demand responsive lighting	176	4,738	4,902	26.9	952	65
Building automation system (BAS) for lighting ³	208	12,068	13,218	57.9	911	78
Equipment usage reduced when building not in full use (more than one may apply)						
Heating	3,699	63,167	68,458	17.1	907	58
Cooling	3,517	62,516	68,297	17.8	904	59
Lighting	4,757	78,594	83,812	16.5	928	61

¹Buildings with zero workers are excluded from this column.

²These 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).

³In 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 the *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definitions 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.

Release date: February 2015
 Revised date: December 2016

Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Median square feet per building (thousand)	Median square feet per worker ¹	Median operating hours per week	Median age of buildings (years)
All buildings	5,557	87,093	88,182	5.0	1,029	50	32
Building floorspace (square feet)							
1,001 to 5,000	2,777	8,041	10,232	2.8	821	45	37
5,001 to 10,000	1,229	8,900	9,225	7.0	1,167	50	31
10,001 to 25,000	884	14,105	14,189	15.0	1,444	55	32
25,001 to 50,000	332	11,917	11,327	35.0	1,461	60	29
50,001 to 100,000	199	13,918	12,345	67.0	1,442	60	26
100,001 to 200,000	90	12,415	11,310	132.5	1,750	70	25
200,001 to 500,000	38	10,724	10,356	260.9	1,752	76	27
Over 500,000	8	7,074	9,196	737.0	1,195	126	29
Principal building activity							
Education	389	12,239	10,885	10.0	1,033	50	30
Food sales	177	1,252	1,172	3.2	1,033	114	30
Food service	380	1,819	3,431	3.6	567	80	33
Health care	157	4,155	7,613	5.0	556	48	31
Inpatient	10	2,374	4,281	101.0	573	168	36
Outpatient	147	1,781	3,333	5.0	556	48	31
Lodging	158	5,826	3,066	14.7	2,541	168	37
Mercantile	602	11,330	9,117	6.6	1,200	60	33
Retail (other than mall)	438	5,439	4,023	5.0	1,450	56	37
Enclosed and strip malls	164	5,890	5,094	13.6	920	70	28
Office	1,012	15,952	33,756	5.0	600	47	33
Public assembly	352	5,559	3,108	5.4	1,800	50	41
Public order and safety	84	1,440	1,854	6.1	750	168	23
Religious worship	412	4,557	1,940	6.0	2,700	20	41
Service	619	4,630	4,031	4.0	1,200	50	35
Warehouse and storage	796	13,077	6,362	5.5	1,500	50	26
Other	125	2,002	1,611	6.0	1,500	50	28
Vacant	296	3,256	236	4.3	4,800	0	50
Year constructed							
Before 1920	362	3,983	3,310	4.8	1,200	42	112
1920 to 1945	488	6,025	6,003	4.0	1,200	45	82
1946 to 1959	599	7,381	6,566	4.0	1,100	45	59
1960 to 1969	639	10,362	9,851	6.0	1,061	50	48
1970 to 1979	684	10,846	12,536	5.3	947	50	38
1980 to 1989	915	15,230	17,468	5.8	1,000	50	27
1990 to 1999	845	13,803	13,432	5.0	1,000	53	17
2000 to 2003	375	7,215	7,471	5.5	1,000	55	11
2004 to 2007	347	6,524	5,993	6.0	1,100	50	6
2008 to 2012	303	5,723	5,552	6.8	1,106	60	3

Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Median square feet per building (thousand)	Median square feet per worker ¹	Median operating hours per week	Median age of buildings (years)
All buildings	5,557	87,093	88,182	5.0	1,029	50	32
Census region and division							
Northeast	805	15,534	17,775	6.0	1,050	54	46
New England	302	4,302	4,165	5.6	1,000	50	37
Middle Atlantic	504	11,232	13,610	6.0	1,100	55	48
Midwest	1,237	18,919	17,261	5.0	1,286	50	37
East North Central	735	12,742	11,933	5.0	1,200	50	37
West North Central	502	6,178	5,329	4.8	1,450	48	37
South	2,247	34,279	32,666	5.0	1,000	50	29
South Atlantic	1,091	17,981	18,098	5.3	992	54	28
East South Central	370	4,904	4,293	5.0	1,071	45	33
West South Central	786	11,394	10,275	5.0	1,000	48	29
West	1,267	18,360	20,479	5.3	960	50	32
Mountain	338	4,981	4,600	5.0	980	50	29
Pacific	929	13,379	15,878	5.5	960	50	34
Climate region²							
Very cold/Cold	2,031	31,898	30,739	5.2	1,123	50	37
Mixed-humid	1,743	27,873	28,708	5.0	1,029	50	32
Mixed-dry/Hot-dry	837	12,037	13,056	5.8	948	50	32
Hot-humid	799	12,831	12,541	5.0	1,000	50	28
Marine	147	2,454	3,138	5.0	1,000	60	33
Number of floors							
One	3,836	39,809	35,019	4.5	1,000	50	29
Two	1,158	20,206	19,744	7.0	1,098	50	42
Three	374	8,140	7,826	7.8	1,200	55	72
Four to nine	177	13,535	16,248	40.0	1,043	60	60
Ten or more	13	5,404	9,343	292.4	655	72	37
Elevators and escalators (more than one may apply)							
Any elevators	405	32,120	39,978	40.0	1,040	60	31
Number of elevators							
One	272	11,158	11,347	25.0	1,200	60	37
Two to five	118	12,817	15,489	80.0	932	67	27
Six or more	16	8,145	13,143	387.5	687	122	30
Any escalators	10	3,654	4,822	100.8	784	100	62
Number of workers (main shift)							
Fewer than 5	2,892	17,751	5,064	3.3	1,667	45	37
5 to 9	1,085	8,973	7,017	5.0	833	50	32
10 to 19	731	9,623	9,472	7.9	625	56	28
20 to 49	513	14,514	14,881	16.9	648	60	28
50 to 99	206	13,476	13,424	48.3	771	60	29
100 to 249	93	10,941	13,368	77.0	536	65	27
250 or more	37	11,815	24,956	201.7	388	69	28

Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Median square feet per building (thousand)	Median square feet per worker ¹	Median operating hours per week	Median age of buildings (years)
All buildings	5,557	87,093	88,182	5.0	1,029	50	32
Weekly operating hours							
Fewer than 40	1,149	8,220	3,291	3.6	1,511	8	42
40 to 48	1,346	15,828	17,546	4.8	905	40	34
49 to 60	1,244	20,529	24,845	6.6	1,000	55	31
61 to 84	764	15,867	16,679	7.0	960	72	32
85 to 167	479	9,395	8,087	5.0	967	104	27
Open continuously	575	17,253	17,734	7.0	1,250	168	26
Ownership and occupancy							
Nongovernment owned	4,781	67,550	68,505	5.0	1,050	50	32
Owner occupied	2,466	30,637	25,871	5.0	1,250	50	33
Leased to tenant(s)	1,745	26,115	32,033	5.0	916	55	31
Owner occupied and leased	349	8,873	10,601	8.5	967	50	31
Unoccupied	221	1,925	0	3.0	N	0	49
Government owned	776	19,543	19,676	6.3	960	48	34
Federal	33	1,573	2,135	9.5	570	56	32
State	185	5,539	5,579	7.0	1,050	48	41
Local	558	12,431	11,963	6.0	934	45	32
Party responsible for operation and maintenance of energy systems							
Building owner	4,715	73,702	74,433	5.0	1,072	50	33
Business owner or tenant	724	11,309	11,128	5.6	928	56	32
Property management	54	1,250	1,757	4.8	781	60	26
Other	64	832	864	5.2	1,042	48	26
Provider of direct input on energy-related equipment purchases							
Building owner	4,876	76,271	76,830	5.0	1,074	50	33
Business owner or tenant	540	8,256	8,617	5.5	853	59	33
Property management	35	880	954	4.5	450	60	30
Other	106	1,686	1,781	6.1	958	50	26
Number of establishments							
One	4,205	54,994	52,072	4.9	1,094	50	32
2 to 5	862	17,756	18,916	7.2	933	50	32
6 to 10	147	4,425	5,890	14.0	832	60	29
11 to 20	68	3,704	5,276	29.9	790	66	25
More than 20	27	3,821	6,028	61.6	714	74	27
Currently unoccupied	248	2,393	0	3.2	N	0	52

Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Median square feet per building (thousand)	Median square feet per worker ¹	Median operating hours per week	Median age of buildings (years)
All buildings	5,557	87,093	88,182	5.0	1,029	50	32
Campus or complex activity							
Not part of a campus or complex	3,683	52,275	51,924	5.0	1,000	50	36
Primary or secondary school	237	4,616	4,670	5.7	1,000	40	30
College or university	84	4,068	3,090	24.0	1,612	72	42
Office complex	154	3,456	7,205	6.5	629	45	29
Retail complex	258	5,159	4,524	6.8	889	65	28
Storage complex	314	3,212	726	4.0	2,500	84	16
Religious campus or complex	197	1,932	1,027	5.3	1,750	30	41
Health care complex	52	3,362	5,715	10.0	554	60	29
Lodging or resort complex	65	1,295	817	5.6	1,400	168	35
Transportation complex	35	554	681	4.8	1,500	50	33
Government complex	104	2,107	3,236	5.2	682	49	40
Other	371	5,057	4,566	5.0	1,020	50	30
Predominant exterior wall material							
Brick, stone, or stucco	2,312	40,463	41,653	5.7	1,000	50	40
Concrete (block or poured)	1,121	20,726	20,195	5.9	1,067	50	38
Concrete panels	210	8,693	9,482	12.0	1,050	60	26
Siding or shingles	905	5,750	6,012	3.6	933	48	34
Metal panels	933	8,673	5,804	5.0	1,440	50	21
Window glass	17	1,340	2,652	13.2	507	60	25
Other	37	856	844	4.9	1,250	50	31
No one major type	21	592	Q	11.0	1,080	58	25
Predominant roof material							
Metal surfacing	1,672	15,916	12,016	5.0	1,250	50	23
Synthetic or rubber	911	25,817	27,573	8.0	1,003	55	39
Built-up	836	21,835	24,082	7.2	1,000	50	40
Slate or tile shingles	406	4,306	4,227	4.4	1,000	49	38
Wooden materials (including shingles)	157	1,139	999	3.6	1,200	55	41
Asphalt, fiberglass, or other shingles	1,483	15,104	16,308	4.5	900	48	38
Concrete	51	1,642	2,076	8.8	818	55	33
Other	24	678	567	12.0	1,167	53	37
No one major type	18	657	333	11.9	1,956	49	38
Roof characteristics							
Roof tilt							
Flat	1,960	49,623	57,145	7.5	976	55	37
Shallow pitch	2,148	23,853	19,542	4.5	1,100	50	31
Steeper pitch	1,449	13,617	11,495	4.9	1,136	45	32
Cool roof	740	19,630	21,650	6.6	1,000	55	29

Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Median square feet per building (thousand)	Median square feet per worker ¹	Median operating hours per week	Median age of buildings (years)
All buildings	5,557	87,093	88,182	5.0	1,029	50	32
Renovations in buildings constructed before 2008 (more than one may apply)							
Any type of renovation							
Addition or annex	2,094	42,216	46,424	5.7	1,000	50	44
Reduction in floorspace	444	13,022	12,473	7.6	1,083	55	41
Roof replacement	71	1,753	2,572	6.0	1,200	60	45
Exterior wall replacement	987	20,917	22,872	5.8	1,029	50	48
Interior wall reconfiguration	194	4,230	4,558	5.0	1,000	55	52
Window replacement	889	21,340	27,649	6.0	885	50	44
HVAC equipment upgrade	560	12,265	14,128	6.0	1,000	50	53
Lighting upgrade	982	26,779	30,162	6.5	1,003	50	46
Electrical upgrade	1,101	25,503	28,277	6.4	1,020	51	47
Plumbing system upgrade	747	16,160	17,723	5.2	1,000	50	52
Insulation upgrade	644	13,828	16,073	5.4	1,000	50	51
Fire, safety, or security upgrade	382	7,607	8,383	5.6	993	50	50
Structural upgrade	39	3,913	3,724	7.0	908	51	47
Other	3,160	848	20,050	6.5	1,000	55	48
No renovations	303	5,723	5,552	5.0	1,050	50	29
Buildings constructed 2008 or later							
Energy sources (more than one may apply)							
Electricity	5,234	84,869	88,114	5.2	1,026	50	32
Natural gas	2,933	58,725	62,376	6.3	1,000	50	37
Fuel oil	467	20,200	25,625	7.0	1,181	54	42
District heat	48	5,964	8,230	57.4	1,269	72	45
District chilled water	54	4,608	5,742	29.2	1,146	75	33
Propane	510	7,706	5,903	5.1	1,333	50	31
Wood	69	502	476	3.5	1,600	54	42
Coal	Q	Q	Q	Q	Q	Q	Q
Solar	40	1,908	1,713	13.9	1,258	60	30
Other	61	1,386	1,526	7.8	1,263	54	37
Space-heating energy sources (more than one may apply)							
Electricity	2,858	49,030	53,857	5.3	1,000	50	32
Natural gas	2,612	49,511	51,754	6.3	1,011	50	38
Fuel oil	270	4,351	4,163	4.8	1,350	50	50
District heat	48	5,925	8,157	57.4	1,269	72	45
Propane	342	3,067	2,510	5.0	1,350	45	31
Wood	63	395	212	3.4	1,800	54	40
Coal	Q	Q	Q	Q	Q	Q	Q
Solar	Q	Q	Q	Q	Q	Q	Q
Other	32	508	463	11.0	1,263	50	37

Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Median square feet per building (thousand)	Median square feet per worker ¹	Median operating hours per week	Median age of buildings (years)
All buildings	5,557	87,093	88,182	5.0	1,029	50	32
Primary space-heating energy source							
Electricity							
Electricity	1,819	26,205	28,953	5.0	960	50	28
Natural gas	2,322	42,988	44,641	6.0	1,024	50	38
Fuel oil	205	2,542	2,000	4.5	1,333	48	52
District heat	47	5,797	8,048	57.4	1,222	72	45
Propane	261	1,948	1,471	4.8	1,500	45	27
Wood	38	178	101	3.2	1,600	54	40
Coal	Q	Q	Q	Q	Q	Q	Q
Other	25	341	Q	8.1	1,222	50	38
Cooling energy sources (more than one may apply)							
Electricity	4,413	76,034	82,280	5.6	1,000	50	32
Natural gas	12	732	1,048	9.9	1,275	48	52
District chilled water	54	4,608	5,742	29.2	1,146	75	33
Water-heating energy sources (more than one may apply)							
Electricity	2,658	42,755	46,793	5.2	1,000	50	31
Natural gas	1,758	39,523	41,909	7.0	1,000	56	37
Fuel oil	77	1,911	1,627	7.0	1,350	60	52
District heat	25	4,551	6,365	96.7	1,273	80	46
Propane	142	1,575	1,258	5.6	1,200	54	26
Cooking energy sources (more than one may apply)							
Electricity	1,010	25,151	27,312	6.0	1,063	60	33
Natural gas	740	24,770	25,861	8.0	963	70	37
Propane	144	2,001	1,971	4.8	1,100	75	28
Energy end uses (more than one may apply)							
Buildings with space heating	4,722	80,078	85,624	5.4	1,017	50	33
Buildings with cooling	4,461	79,294	85,775	5.7	1,000	50	32
Buildings with water heating	4,423	79,015	85,448	5.8	1,000	50	33
Buildings with cooking	1,589	38,546	41,216	6.2	1,033	60	35
Buildings with manufacturing	259	5,078	5,033	6.7	1,167	50	30
Buildings with electricity generation	410	25,642	30,932	15.0	1,010	66	27
Percent of floorspace heated							
Not heated	835	7,015	2,558	3.5	1,285	45	30
1 to 50	697	10,130	6,413	6.0	1,408	48	34
51 to 99	727	14,650	15,548	6.5	1,153	55	37
100	3,298	55,298	63,662	5.0	951	50	33
Percent of floorspace cooled							
Not cooled	1,096	7,799	2,407	3.6	1,500	40	33
1 to 50	1,173	18,891	12,646	6.4	1,400	50	35
51 to 99	897	22,728	25,280	7.5	973	55	36
100	2,391	37,676	47,849	5.0	833	50	31

Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Median square feet per building (thousand)	Median square feet per worker ¹	Median operating hours per week	Median age of buildings (years)
All buildings	5,557	87,093	88,182	5.0	1,029	50	32
Percent lit when open							
Zero	70	322	58	3.5	Q	105	9
1 to 50	1,099	12,628	6,713	5.0	1,667	48	39
51 to 99	1,666	34,814	36,393	7.0	1,000	50	34
100	2,222	35,726	44,884	5.0	875	54	30
Building never open/electricity not used	501	3,603	133	3.0	Q	0	39
Percent lit during off hours							
Zero	2,489	24,746	23,170	4.8	1,131	45	33
1 to 50	2,441	50,753	54,552	6.5	1,000	58	33
51 to 100	202	6,926	7,816	6.7	933	168	32
Building always open with no "off hours"	102	2,443	2,577	5.2	1,000	168	20
Electricity not used	323	2,225	67	3.0	Q	0	33
Heating equipment (more than one may apply)							
Heat pumps	628	11,846	13,269	5.6	960	50	27
Furnaces	755	8,654	8,562	5.4	1,000	50	33
Individual space heaters	1,247	20,766	19,345	5.3	1,200	50	42
District heat	48	5,925	8,157	57.4	1,269	72	45
Boilers	544	22,443	25,157	14.0	1,201	55	46
Packaged heating units	2,802	49,188	51,098	6.0	1,000	51	32
Other	62	1,574	1,202	8.0	1,250	70	32
Cooling equipment (more than one may apply)							
Residential-type central air conditioners	1,546	14,765	15,104	5.0	1,000	50	35
Heat pumps	692	12,538	14,265	5.5	955	50	27
Individual air conditioners	709	12,420	12,342	5.0	1,200	50	47
District chilled water	54	4,608	5,742	29.2	1,146	75	33
Central chillers	163	17,041	21,944	51.0	1,271	60	32
Packaged air conditioning units	1,909	45,153	46,979	7.6	960	58	31
Swamp coolers	109	1,918	1,755	4.9	1,060	59	37
Other	Q	328	474	10.5	1,220	40	54
Main equipment replaced since 1990 (more than one may apply)							
Heating	1,874	27,558	28,670	5.2	1,000	50	47
Cooling	1,971	30,702	33,365	5.3	1,000	50	47
Water-heating equipment							
Centralized system	3,348	47,534	50,164	5.2	1,000	50	34
Distributed system	690	12,688	14,214	6.0	1,050	50	32
Combination of centralized and distributed system	385	18,793	21,070	16.9	1,010	61	29

Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Median square feet per building (thousand)	Median square feet per worker ¹	Median operating hours per week	Median age of buildings (years)
All buildings	5,557	87,093	88,182	5.0	1,029	50	32
Lighting equipment types (more than one may apply)							
Incandescent							
	1,826	38,406	41,621	6.0	1,038	50	39
Standard fluorescent	4,649	80,081	85,648	5.5	1,000	50	32
Compact fluorescent	2,302	53,816	59,903	6.7	1,000	57	33
High-intensity discharge (HID)	525	23,396	23,812	14.0	1,250	60	30
Halogen	905	28,059	30,498	8.8	1,143	59	31
LED	473	22,071	25,900	14.7	1,005	70	29
Other	10	446	555	10.0	750	70	34
Refrigeration equipment (more than one may apply)							
Any refrigeration							
Walk-in units	811	28,361	31,133	6.6	862	84	31
Cases or cabinets	915	28,719	31,528	6.6	967	76	31
Large cold storage areas	78	4,171	3,692	11.0	1,012	78	25
Commercial ice makers	846	32,734	36,512	9.3	931	78	28
Residential-type or compact units	3,388	62,381	67,677	5.9	1,000	50	34
Vending machines	960	43,936	49,684	17.1	1,000	65	29
No refrigeration	1,573	13,448	9,244	4.0	1,237	44	32
Office equipment (more than one may apply)							
Desktop computers							
With flat screen monitors	3,847	77,063	84,337	6.3	984	50	32
With multiple monitors	911	30,946	43,399	10.0	744	55	29
Laptop computers	2,730	63,486	73,337	7.2	1,000	51	32
Dedicated servers	1,748	53,369	63,425	9.9	832	55	31
Laser printers	2,339	54,256	63,469	7.2	889	50	32
Inkjet printers	2,187	36,235	37,744	5.8	1,013	50	32
FAX machines	3,185	66,682	73,771	6.6	963	50	32
Photocopiers	2,163	59,277	68,508	9.0	900	50	32
Number of desktop computers							
None	1,581	10,030	3,844	3.3	1,500	40	36
1 to 4	2,039	15,669	11,304	4.5	1,200	50	35
5 to 9	821	9,422	9,594	6.0	828	50	32
10 to 19	482	9,388	8,659	9.9	700	51	27
20 to 49	355	13,094	12,782	19.5	757	55	27
50 to 99	143	8,284	9,293	36.4	677	60	36
100 to 249	92	9,728	12,514	68.0	768	55	30
250 or more	44	11,478	20,191	174.1	720	64	29

Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Median square feet per building (thousand)	Median square feet per worker ¹	Median operating hours per week	Median age of buildings (years)
All buildings	5,557	87,093	88,182	5.0	1,029	50	32
Number of laptop computers							
None	2,827	23,607	14,845	4.0	1,200	48	33
1 to 4	1,944	21,161	17,749	5.2	1,042	50	33
5 to 9	350	8,345	8,868	10.0	765	55	30
10 to 19	181	8,343	9,267	25.0	750	56	27
20 to 49	144	9,643	11,659	40.8	642	55	30
50 to 99	58	5,234	8,236	55.9	830	55	31
100 to 249	35	5,217	6,608	100.0	1,205	60	33
250 or more	20	5,542	10,949	189.7	726	70	26
Number of dedicated servers							
None	3,809	33,724	24,756	4.3	1,200	48	33
1 to 4	1,562	34,097	34,337	8.3	862	55	32
5 to 9	97	6,241	7,841	34.0	600	55	27
10 to 19	50	5,711	7,551	68.0	750	60	27
20 to 49	25	3,758	6,685	72.0	500	60	26
50 or more	13	3,562	7,012	155.0	542	72	27
Number of photocopiers							
None	3,394	27,816	19,673	4.0	1,200	50	33
One	1,325	17,080	13,348	6.0	1,025	50	33
2 to 4	648	20,312	21,540	14.5	800	54	28
5 to 9	116	8,863	10,503	44.7	792	60	28
10 or more	75	13,022	23,118	78.0	507	60	30
Number of TVs or video displays							
None	2,718	24,339	17,802	4.0	1,106	45	33
One	1,145	9,990	10,015	4.6	1,000	50	33
2 to 4	1,035	16,465	17,695	7.2	976	57	30
5 to 9	314	8,148	10,105	9.6	903	70	31
10 to 19	154	8,168	10,344	26.4	933	70	32
20 to 49	106	8,058	8,931	40.0	1,275	78	27
50 to 99	48	4,378	4,384	50.0	1,720	168	26
100 or more	37	7,547	8,904	91.0	2,541	168	28
Food preparation or serving areas in non-food service buildings (more than one may apply)							
Snack bar or concession stand	153	9,884	10,260	11.0	1,274	81	32
Fast food or small restaurant	173	9,787	10,961	13.0	920	77	25
Cafeteria or large restaurant	130	15,222	17,611	66.9	1,250	60	34
Commercial kitchen/ food preparation area	282	16,150	15,343	20.0	1,417	70	31
Small kitchen area	736	14,054	13,620	6.0	1,400	48	40
Separate computer areas (more than one may apply)							
Data center or server farm	97	11,105	18,027	40.0	584	56	28
Computer-based training room	244	17,723	22,237	30.0	1,000	60	27
Student or public computer center	238	14,341	12,506	28.0	1,208	55	31

Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Median square feet per building (thousand)	Median square feet per worker ¹	Median operating hours per week	Median age of buildings (years)
All buildings	5,557	87,093	88,182	5.0	1,029	50	32
HVAC conservation features (more than one may apply)							
Economizer cycle							
Economizer cycle	601	30,749	35,394	16.5	1,028	60	27
Regular HVAC maintenance	3,178	69,244	77,868	6.8	960	55	31
Building automation system (BAS) ³	781	37,051	42,344	14.0	1,077	60	24
Window and interior lighting features (more than one may apply)							
Multipaned windows	3,012	60,362	62,267	6.3	1,000	50	28
Tinted window glass	1,875	45,025	50,791	7.2	960	54	28
Reflective window glass	549	15,908	18,998	8.8	967	58	26
External overhangs or awnings	1,867	32,188	33,758	5.6	1,000	55	33
Skylights or atriums	591	22,261	21,919	11.0	1,180	55	28
Light scheduling	918	30,263	34,960	9.5	1,000	61	27
Occupancy sensors	813	35,871	40,959	14.2	987	60	26
Multi-level lighting or dimming	349	14,534	16,135	13.0	1,000	70	28
Daylight harvesting	125	6,114	7,689	14.0	930	60	27
Demand responsive lighting	176	4,738	4,902	9.5	1,098	55	32
Building automation system (BAS) for lighting ³	208	12,068	13,218	16.2	1,137	70	19
Equipment usage reduced when building not in full use (more than one may apply)							
Heating	3,699	63,167	68,458	5.5	1,014	50	34
Cooling	3,517	62,516	68,297	5.8	1,000	50	33
Lighting	4,757	78,594	83,812	5.4	1,012	50	33

¹Buildings with zero workers are excluded from this column.

²These 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).

³In 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.

Release date: February 2015

Revised date: May 2016

Table B3. Census region, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	All buildings	North-east	Mid-west	South	West	All buildings	North-east	Mid-west	South	West
All buildings	5,557	805	1,237	2,247	1,267	87,093	15,534	18,919	34,279	18,360
Building floorspace (square feet)										
1,001 to 5,000	2,777	372	645	1,159	601	8,041	1,057	1,858	3,383	1,744
5,001 to 10,000	1,229	171	257	491	310	8,900	1,248	1,872	3,535	2,245
10,001 to 25,000	884	152	183	327	221	14,105	2,408	2,889	5,209	3,599
25,001 to 50,000	332	47	83	127	75	11,917	1,644	3,029	4,528	2,716
50,001 to 100,000	199	36	40	88	34	13,918	2,676	2,729	6,139	2,374
100,001 to 200,000	90	18	18	37	17	12,415	2,542	2,400	5,152	2,321
200,001 to 500,000	38	8	10	13	7	10,724	2,232	2,726	3,681	2,084
Over 500,000	8	2	2	3	1	7,074	1,727	1,418	2,652	1,277
Principal building activity										
Education	389	45	67	159	118	12,239	2,056	3,173	5,162	1,848
Food sales	177	27	34	81	35	1,252	316	174	399	363
Food service	380	62	77	160	80	1,819	292	369	771	387
Health care	157	22	44	54	37	4,155	1,067	862	1,441	786
Inpatient	10	2	2	4	2	2,374	538	496	894	447
Outpatient	147	21	42	50	35	1,781	529	366	548	339
Lodging	158	27	23	69	38	5,826	1,007	1,058	2,302	1,459
Mercantile	602	98	131	251	122	11,330	1,653	2,132	4,729	2,815
Retail (other than mall)	438	75	103	177	83	5,439	835	1,142	2,126	1,336
Enclosed and strip malls	164	23	28	74	39	5,890	818	990	2,603	1,478
Office	1,012	148	230	390	245	15,952	3,703	3,334	5,501	3,414
Public assembly	352	65	100	110	77	5,559	953	1,585	2,003	1,018
Public order and safety	84	14	19	39	Q	1,440	345	334	576	Q
Religious worship	412	51	92	195	74	4,557	897	925	2,011	725
Service	619	108	177	230	103	4,630	823	1,472	1,642	694
Warehouse and storage	796	89	163	325	219	13,077	1,761	2,530	5,257	3,529
Other	125	18	30	34	43	2,002	273	435	827	467
Vacant	296	32	51	150	63	3,256	389	536	1,659	672
Year constructed										
Before 1920	362	112	106	104	40	3,983	1,632	1,040	982	329
1920 to 1945	488	125	140	128	94	6,025	1,959	1,769	1,503	795
1946 to 1959	599	96	110	229	164	7,381	1,581	1,662	2,634	1,504
1960 to 1969	639	100	159	232	148	10,362	2,240	2,687	3,499	1,937
1970 to 1979	684	75	160	274	176	10,846	1,952	2,619	3,693	2,582
1980 to 1989	915	86	172	427	231	15,230	1,743	2,617	6,942	3,929
1990 to 1999	845	90	203	385	168	13,803	2,044	2,798	6,172	2,788
2000 to 2003	375	46	80	159	90	7,215	980	1,495	3,314	1,426
2004 to 2007	347	37	50	163	97	6,524	501	1,236	2,839	1,948
2008 to 2012	303	38	57	147	61	5,723	903	997	2,701	1,122
Climate region¹										
Very cold/Cold	2,031	642	983	N	406	31,898	10,510	16,172	N	5,217
Mixed-humid	1,743	164	255	1,325	N	27,873	5,024	2,748	20,101	N
Mixed-dry/Hot-dry	837	N	N	Q	706	12,037	N	N	Q	10,490
Hot-humid	799	N	N	791	Q	12,831	N	N	12,632	Q
Marine	147	N	N	N	147	2,454	N	N	N	2,454

Table B3. Census region, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	All buildings	North-east	Mid-west	South	West	All buildings	North-east	Mid-west	South	West
All buildings	5,557	805	1,237	2,247	1,267	87,093	15,534	18,919	34,279	18,360
Number of floors										
One	3,836	360	785	1,737	954	39,809	3,865	7,652	18,532	9,760
Two	1,158	236	296	377	248	20,206	4,098	4,867	6,972	4,269
Three	374	147	121	63	43	8,140	2,421	2,607	2,028	1,083
Four to nine	177	60	33	64	21	13,535	3,409	2,915	5,013	2,198
Ten or more	13	4	2	5	2	5,404	1,742	879	1,734	1,049
Elevators and escalators (more than one may apply)										
Any elevators	405	90	102	137	77	32,120	7,911	7,555	11,022	5,633
Number of elevators										
One	272	58	74	89	50	11,158	2,580	3,220	3,665	1,693
Two to five	118	27	25	42	24	12,817	3,146	2,781	4,610	2,281
Six or more	16	5	3	6	3	8,145	2,186	1,554	2,746	1,658
Any escalators	10	3	Q	2	2	3,654	798	880	1,071	905
Number of workers (main shift)										
Fewer than 5	2,892	414	715	1,163	600	17,751	2,692	4,286	7,336	3,438
5 to 9	1,085	154	224	448	259	8,973	1,282	1,910	3,553	2,227
10 to 19	731	106	129	297	200	9,623	1,390	1,880	3,814	2,538
20 to 49	513	68	104	198	143	14,514	1,903	3,372	5,611	3,628
50 to 99	206	31	41	97	36	13,476	2,385	2,761	6,076	2,254
100 to 249	93	21	18	32	22	10,941	2,530	2,314	4,163	1,934
250 or more	37	10	7	11	8	11,815	3,352	2,397	3,726	2,341
Weekly operating hours										
Fewer than 40	1,149	149	290	489	221	8,220	1,173	2,026	3,508	1,514
40 to 48	1,346	168	302	536	339	15,828	2,361	3,048	6,789	3,631
49 to 60	1,244	199	254	501	290	20,529	3,345	4,372	8,494	4,318
61 to 84	764	131	155	270	209	15,867	3,313	3,628	5,275	3,651
85 to 167	479	75	98	204	101	9,395	1,881	2,428	3,138	1,948
Open continuously	575	83	139	247	106	17,253	3,461	3,418	7,076	3,298
Ownership and occupancy										
Nongovernment owned	4,781	723	1,066	1,958	1,034	67,550	11,913	14,177	26,441	15,019
Owner occupied	2,466	400	629	983	455	30,637	5,454	7,338	12,119	5,726
Leased to tenant(s)	1,745	239	329	721	457	26,115	4,430	4,720	10,105	6,860
Owner occupied and leased	349	62	69	140	78	8,873	1,786	1,767	3,242	2,078
Unoccupied	221	Q	40	115	43	1,925	Q	352	975	355
Government owned	776	83	171	289	233	19,543	3,621	4,742	7,839	3,341
Federal	33	Q	9	14	Q	1,573	Q	275	835	204
State	185	15	31	77	62	5,539	1,149	1,158	2,111	1,122
Local	558	67	131	198	162	12,431	2,213	3,310	4,893	2,015
Party responsible for operation and maintenance of energy systems										
Building owner	4,715	661	1,118	1,881	1,054	73,702	13,304	16,815	28,772	14,811
Business owner or tenant	724	124	102	308	190	11,309	1,819	1,724	4,541	3,225
Property management	54	Q	Q	24	16	1,250	Q	Q	652	233
Other	64	Q	Q	33	Q	832	Q	Q	315	Q

Table B3. Census region, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	North-east	Mid-west	South	West	All buildings	North-east	Mid-west	South	West
All buildings	5,557	805	1,237	2,247	1,267	87,093	15,534	18,919	34,279	18,360
Provider of direct input on energy-related equipment purchases										
Building owner	4,876	682	1,136	1,947	1,112	76,271	13,567	17,159	29,802	15,742
Business owner or tenant	540	94	77	230	139	8,256	1,393	1,274	3,326	2,263
Property management	35	Q	Q	15	Q	880	Q	Q	345	Q
Other	106	23	15	55	13	1,686	314	345	806	221
Number of establishments										
One	4,205	602	974	1,690	939	54,994	9,527	12,503	21,742	11,222
2 to 5	862	150	192	328	193	17,756	3,305	4,207	6,503	3,742
6 to 10	147	19	21	63	44	4,425	775	798	1,750	1,103
11 to 20	68	8	8	27	25	3,704	833	493	1,560	818
More than 20	27	3	2	8	14	3,821	832	532	1,419	1,037
Currently unoccupied	248	24	41	130	53	2,393	262	386	1,306	439
Campus or complex activity										
Not part of a campus or complex	3,683	551	921	1,485	726	52,275	9,030	12,622	20,204	10,419
Primary or secondary school	237	6	28	94	110	4,616	508	1,027	1,988	1,093
College or university	84	15	11	39	19	4,068	738	659	2,093	577
Office complex	154	22	31	58	42	3,456	759	619	1,254	824
Retail complex	258	36	45	108	69	5,159	907	976	2,095	1,181
Storage complex	314	35	55	138	86	3,212	549	460	1,396	808
Religious campus or complex	197	34	27	83	53	1,932	489	261	777	405
Health care complex	52	14	8	19	12	3,362	1,130	583	1,067	582
Lodging or resort complex	65	Q	Q	31	16	1,295	Q	Q	539	468
Transportation complex	35	Q	Q	Q	Q	554	Q	Q	Q	Q
Government complex	104	14	23	42	26	2,107	587	303	720	496
Other	371	66	64	143	99	5,057	629	1,085	1,950	1,393
Predominant exterior wall material										
Brick, stone, or stucco	2,312	317	528	934	534	40,463	7,649	9,051	16,679	7,084
Concrete (block or poured)	1,121	140	217	529	236	20,726	3,608	4,010	8,153	4,955
Concrete panels	210	16	21	68	105	8,693	804	1,694	3,158	3,037
Siding or shingles	905	239	218	238	210	5,750	1,589	1,395	1,389	1,377
Metal panels	933	82	231	458	162	8,673	1,020	2,150	4,246	1,257
Window glass	17	4	Q	2	10	1,340	432	Q	360	323
Other	37	Q	Q	Q	Q	856	Q	Q	Q	Q
No one major type	21	Q	Q	Q	Q	592	Q	Q	Q	Q
Predominant roof material										
Metal surfacing	1,672	148	367	858	298	15,916	1,626	3,264	8,295	2,733
Synthetic or rubber	911	175	292	261	183	25,817	5,880	7,502	7,742	4,692
Built-up	836	90	117	373	256	21,835	3,782	3,999	8,890	5,164
Slate or tile shingles	406	66	47	162	130	4,306	842	390	1,865	1,209
Wooden materials (including shingles)	157	27	Q	58	45	1,139	161	Q	383	469
Asphalt, fiberglass, or other shingles	1,483	282	371	498	332	15,104	2,668	3,268	5,843	3,324
Concrete	51	10	Q	25	11	1,642	298	Q	860	403
Other	24	Q	Q	Q	Q	678	Q	Q	Q	Q
No one major type	18	Q	Q	Q	Q	657	Q	Q	Q	Q

Table B3. Census region, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	All buildings	North-east	Mid-west	South	West	All buildings	North-east	Mid-west	South	West
All buildings	5,557	805	1,237	2,247	1,267	87,093	15,534	18,919	34,279	18,360
Roof characteristics										
Roof tilt										
Flat	1,960	286	358	764	552	49,623	10,061	10,574	18,121	10,866
Shallow pitch	2,148	213	493	955	487	23,853	2,542	5,009	11,004	5,297
Steeper pitch	1,449	306	386	528	229	13,617	2,930	3,336	5,154	2,197
Cool roof	740	76	132	280	252	19,630	3,382	3,666	7,530	5,053
Renovations in buildings constructed before 2008 (more than one may apply)										
Any type of renovation	2,094	352	521	789	432	42,216	9,263	10,097	15,393	7,462
Addition or annex	444	63	136	176	69	13,022	2,574	4,082	4,609	1,757
Reduction in floorspace	71	11	19	30	12	1,753	584	273	626	270
Roof replacement	987	178	272	359	178	20,917	5,460	5,397	6,962	3,097
Exterior wall replacement	194	31	50	83	31	4,230	910	1,074	1,442	805
Interior wall reconfiguration	889	181	210	295	204	21,340	5,019	5,201	6,854	4,266
Window replacement	560	117	157	184	102	12,265	3,404	3,041	3,773	2,048
HVAC equipment upgrade	1,101	191	291	421	197	26,779	6,477	6,541	9,363	4,398
Lighting upgrade	982	187	232	352	211	25,503	6,009	6,104	8,829	4,560
Electrical upgrade	747	155	180	273	139	16,160	3,968	4,004	5,482	2,707
Plumbing system upgrade	644	124	173	231	116	13,828	3,378	3,447	4,629	2,375
Insulation upgrade	382	75	123	133	52	7,607	1,749	2,197	2,358	1,304
Fire, safety, or security upgrade	616	145	147	210	114	17,196	4,602	3,814	5,875	2,905
Structural upgrade	152	38	43	40	30	3,913	732	887	1,201	1,094
Other	39	Q	Q	Q	Q	848	Q	Q	Q	Q
No renovations	3,160	415	660	1,311	775	39,154	5,368	7,826	16,185	9,776
Buildings constructed 2008 or later	303	38	57	147	61	5,723	903	997	2,701	1,122
Energy sources (more than one may apply)										
Electricity	5,234	770	1,171	2,086	1,207	84,869	15,291	18,560	33,026	17,992
Natural gas	2,933	433	843	950	707	58,725	11,068	15,025	19,900	12,732
Fuel oil	467	217	77	131	43	20,200	6,079	3,935	7,051	3,135
District heat	48	16	7	18	7	5,964	1,981	906	2,191	886
District chilled water	54	7	2	35	9	4,608	794	585	2,479	749
Propane	510	106	133	187	84	7,706	1,746	1,909	2,567	1,484
Other	172	51	50	34	37	3,826	1,087	798	907	1,034
Space-heating energy sources (more than one may apply)										
Electricity	2,858	310	493	1,380	676	49,030	7,276	8,638	22,558	10,559
Natural gas	2,612	392	819	782	618	49,511	9,352	14,031	15,438	10,690
Fuel oil	270	170	39	53	Q	4,351	2,851	667	765	Q
District heat	48	16	7	18	7	5,925	1,981	906	2,171	867
Propane	342	59	105	124	54	3,067	653	1,003	927	484
Other	101	Q	32	Q	Q	1,010	206	301	Q	Q

Table B3. Census region, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	All buildings	North-east	Mid-west	South	West	All buildings	North-east	Mid-west	South	West
All buildings	5,557	805	1,237	2,247	1,267	87,093	15,534	18,919	34,279	18,360
Primary space-heating energy source										
Electricity	1,819	138	193	1,043	445	26,205	2,188	2,982	15,118	5,917
Natural gas	2,322	361	768	647	547	42,988	8,366	13,084	12,312	9,226
Fuel oil	205	141	Q	32	Q	2,542	1,988	Q	299	Q
District heat	47	15	6	18	7	5,797	1,954	864	2,112	867
Propane	261	46	84	92	38	1,948	377	723	613	235
Other	67	Q	Q	Q	Q	598	Q	Q	Q	Q
Cooling energy sources (more than one may apply)										
Electricity	4,413	583	967	1,861	1,001	76,034	13,303	16,826	29,950	15,955
Natural gas	12	6	Q	Q	Q	732	305	Q	Q	Q
District chilled water	54	7	2	35	9	4,608	794	585	2,479	749
Water-heating energy sources (more than one may apply)										
Electricity	2,658	324	525	1,242	567	42,755	6,561	7,934	19,449	8,811
Natural gas	1,758	291	493	527	447	39,523	7,533	10,615	12,258	9,116
Fuel oil	77	69	Q	Q	Q	1,911	1,401	Q	Q	Q
District heat	25	9	5	7	4	4,551	1,641	767	1,568	575
Propane	142	37	31	42	32	1,575	389	392	534	260
Cooking energy sources (more than one may apply)										
Electricity	1,010	120	260	439	191	25,151	4,677	6,159	9,812	4,503
Natural gas	740	123	163	286	168	24,770	5,357	5,642	8,572	5,200
Propane	144	48	28	53	Q	2,001	779	328	663	230
Energy end uses (more than one may apply)										
Buildings with space heating	4,722	727	1,096	1,842	1,057	80,078	15,053	18,055	30,499	16,471
Buildings with cooling	4,461	592	970	1,891	1,007	79,294	13,949	17,144	31,734	16,467
Buildings with water heating	4,423	671	1,014	1,740	997	79,015	14,633	17,592	30,261	16,529
Buildings with cooking	1,589	249	370	664	306	38,546	8,177	8,726	14,381	7,262
Buildings with manufacturing	259	44	55	83	77	5,078	1,059	1,172	1,708	1,139
Buildings with electricity generation	410	107	84	141	78	25,642	6,223	5,358	9,377	4,683
Percent of floorspace heated										
Not heated	835	79	141	405	210	7,015	481	864	3,781	1,890
1 to 50	697	86	103	297	211	10,130	1,132	1,310	3,979	3,709
51 to 99	727	137	137	267	185	14,650	2,873	2,239	6,218	3,320
100	3,298	503	856	1,278	661	55,298	11,049	14,506	20,302	9,441
Percent of floorspace cooled										
Not cooled	1,096	213	267	355	260	7,799	1,585	1,776	2,545	1,894
1 to 50	1,173	196	281	422	273	18,891	3,558	4,741	6,189	4,403
51 to 99	897	156	177	330	234	22,728	5,081	4,697	8,462	4,487
100	2,391	240	512	1,139	500	37,676	5,311	7,706	17,083	7,576

Table B3. Census region, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	All buildings	North-east	Mid-west	South	West	All buildings	North-east	Mid-west	South	West
All buildings	5,557	805	1,237	2,247	1,267	87,093	15,534	18,919	34,279	18,360
Percent lit when open										
Zero	70	Q	Q	Q	Q	322	Q	Q	Q	Q
1 to 50	1,099	170	292	379	258	12,628	2,097	2,870	4,755	2,907
51 to 99	1,666	259	382	614	411	34,814	6,288	7,932	13,288	7,307
100	2,222	308	427	1,011	476	35,726	6,670	7,266	14,405	7,385
Building never open/electricity not used	501	60	121	216	103	3,603	437	773	1,710	683
Percent lit during off hours										
Zero	2,489	366	528	945	650	24,746	3,877	5,594	9,120	6,156
1 to 50	2,441	360	592	990	499	50,753	9,299	11,464	20,182	9,808
51 to 100	202	40	25	97	40	6,926	1,801	953	2,567	1,605
Building always open with no "off hours"	102	5	25	54	18	2,443	314	550	1,157	423
Electricity not used	323	36	66	161	61	2,225	243	360	1,254	368
Heating equipment (more than one may apply)										
Heat pumps	628	48	53	392	134	11,846	1,397	1,068	6,927	2,453
Furnaces	755	85	252	282	137	8,654	1,244	2,511	3,363	1,536
Individual space heaters	1,247	239	340	381	287	20,766	4,918	5,735	6,519	3,594
District heat	48	16	7	18	7	5,925	1,981	906	2,171	867
Boilers	544	221	148	98	77	22,443	6,447	6,666	5,784	3,545
Packaged heating units	2,802	347	644	1,127	683	49,188	7,186	10,894	20,049	11,059
Other	62	Q	22	16	14	1,574	Q	370	550	339
Cooling equipment (more than one may apply)										
Residential-type central air conditioners	1,546	178	480	633	255	14,765	1,695	4,347	5,895	2,828
Heat pumps	692	53	65	409	165	12,538	1,490	1,024	7,108	2,916
Individual air conditioners	709	190	147	257	114	12,420	3,845	2,585	4,263	1,727
District chilled water	54	7	2	35	9	4,608	794	585	2,479	749
Central chillers	163	26	37	70	29	17,041	3,489	4,475	6,460	2,617
Packaged air conditioning units	1,909	253	362	786	508	45,153	8,697	9,816	17,185	9,455
Swamp coolers	109	Q	Q	Q	89	1,918	Q	Q	469	1,340
Other	Q	Q	Q	Q	Q	328	Q	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)										
Heating	1,874	315	448	744	367	27,558	5,356	6,886	10,048	5,268
Cooling	1,971	313	452	836	370	30,702	6,314	7,210	11,668	5,510
Water-heating equipment										
Centralized system	3,348	493	806	1,322	728	47,534	9,128	11,316	17,460	9,631
Distributed system	690	123	133	264	170	12,688	2,383	2,335	4,938	3,032
Combination of centralized and distributed system	385	56	76	154	99	18,793	3,122	3,942	7,863	3,866

Table B3. Census region, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	All buildings	North-east	Mid-west	South	West	All buildings	North-east	Mid-west	South	West
All buildings	5,557	805	1,237	2,247	1,267	87,093	15,534	18,919	34,279	18,360
Lighting equipment types (more than one may apply)										
Incandescent	1,826	293	460	721	353	38,406	7,565	9,038	14,581	7,222
Standard fluorescent	4,649	684	1,018	1,890	1,057	80,081	14,473	17,514	31,363	16,732
Compact fluorescent	2,302	354	542	840	566	53,816	10,771	11,841	20,042	11,163
High-intensity discharge (HID)	525	76	110	219	121	23,396	4,510	5,357	9,347	4,182
Halogen	905	148	203	377	177	28,059	5,267	6,169	10,970	5,653
LED	473	83	114	164	113	22,071	4,752	5,148	7,559	4,612
Other	10	Q	Q	Q	Q	446	Q	Q	Q	Q
Refrigeration equipment (more than one may apply)										
Any refrigeration	3,984	593	898	1,630	864	73,645	13,612	16,570	28,755	14,709
Walk-in units	811	139	175	332	166	28,361	5,870	6,331	10,777	5,384
Cases or cabinets	915	165	203	357	190	28,719	6,066	6,803	10,386	5,464
Large cold storage areas	78	12	14	33	19	4,171	569	972	1,700	930
Commercial ice makers	846	101	167	412	166	32,734	5,573	6,598	14,516	6,048
Residential-type or compact units	3,388	511	795	1,342	740	62,381	11,436	14,257	24,189	12,499
Vending machines	960	135	194	436	195	43,936	8,448	9,673	17,627	8,188
No refrigeration	1,573	213	340	617	404	13,448	1,922	2,350	5,525	3,651
Office equipment (more than one may apply)										
Desktop computers	3,977	593	876	1,550	957	77,063	14,116	16,861	29,686	16,400
With flat screen monitors	3,847	569	841	1,507	931	76,160	13,956	16,628	29,347	16,229
With multiple monitors	911	120	183	358	250	30,946	5,289	6,407	12,095	7,155
Laptop computers	2,730	412	598	1,074	646	63,486	11,774	13,895	24,921	12,896
Dedicated servers	1,748	254	358	693	442	53,369	10,087	11,271	20,565	11,447
Laser printers	2,339	355	524	857	603	54,256	10,317	12,158	20,460	11,320
Inkjet printers	2,187	311	468	916	493	36,235	6,559	7,682	14,297	7,697
FAX machines	3,185	486	684	1,258	756	66,682	12,733	14,439	25,795	13,715
Photocopiers	2,163	355	474	808	526	59,277	11,654	13,053	22,099	12,471
Number of desktop computers										
None	1,581	212	361	697	310	10,030	1,418	2,058	4,594	1,960
1 to 4	2,039	320	484	780	454	15,669	2,457	3,582	6,273	3,356
5 to 9	821	91	186	334	210	9,422	1,392	2,120	3,528	2,381
10 to 19	482	86	81	188	127	9,388	1,644	1,826	3,531	2,388
20 to 49	355	48	62	140	105	13,094	2,327	2,591	5,347	2,830
50 to 99	143	20	33	58	33	8,284	1,365	1,984	3,243	1,692
100 to 249	92	20	20	31	21	9,728	2,303	2,202	3,391	1,832
250 or more	44	8	10	18	8	11,478	2,628	2,556	4,373	1,921

Table B3. Census region, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	North-east	Mid-west	South	West	All buildings	North-east	Mid-west	South	West
All buildings	5,557	805	1,237	2,247	1,267	87,093	15,534	18,919	34,279	18,360
Number of laptop computers										
None	2,827	394	639	1,173	621	23,607	3,760	5,024	9,358	5,464
1 to 4	1,944	283	451	755	455	21,161	3,350	5,045	8,080	4,687
5 to 9	350	53	62	142	92	8,345	1,406	1,478	3,568	1,894
10 to 19	181	33	29	71	49	8,343	1,500	1,473	3,386	1,984
20 to 49	144	20	28	63	33	9,643	1,471	2,195	3,794	2,183
50 to 99	58	9	15	22	12	5,234	1,218	1,312	1,827	877
100 to 249	35	9	9	13	3	5,217	1,414	1,022	2,108	673
250 or more	20	4	5	9	2	5,542	1,415	1,370	2,159	598
Number of dedicated servers										
None	3,809	551	879	1,554	825	33,724	5,448	7,648	13,715	6,913
1 to 4	1,562	227	325	618	392	34,097	6,193	7,200	13,500	7,203
5 to 9	97	14	20	37	26	6,241	1,092	1,435	2,226	1,487
10 to 19	50	7	6	25	12	5,711	1,117	1,006	2,325	1,263
20 to 49	25	3	5	9	8	3,758	688	982	1,309	779
50 or more	13	3	2	4	4	3,562	996	649	1,204	714
Number of photocopiers										
None	3,394	451	763	1,438	742	27,816	3,880	5,866	12,181	5,889
One	1,325	216	299	485	325	17,080	2,604	3,942	6,129	4,405
2 to 4	648	104	139	246	158	20,312	3,581	4,583	8,063	4,085
5 to 9	116	18	23	47	27	8,863	1,946	2,167	3,203	1,547
10 or more	75	16	13	30	15	13,022	3,523	2,361	4,704	2,434
Number of TVs or video displays										
None	2,718	394	614	1,076	633	24,339	4,054	5,090	9,483	5,711
One	1,145	164	273	471	237	9,990	1,416	2,292	4,276	2,006
2 to 4	1,035	154	212	419	250	16,465	2,930	4,056	6,314	3,165
5 to 9	314	51	72	126	66	8,148	1,824	1,450	3,162	1,711
10 to 19	154	20	31	69	34	8,168	1,799	1,893	3,051	1,424
20 to 49	106	13	19	46	28	8,058	1,443	1,668	3,188	1,759
50 to 99	48	3	10	22	13	4,378	382	929	2,036	1,031
100 or more	37	7	7	17	7	7,547	1,685	1,541	2,769	1,552
Food preparation or serving areas in non-food service buildings (more than one may apply)										
Snack bar or concession stand	153	18	34	66	35	9,884	1,924	2,262	3,763	1,934
Fast food or small restaurant	173	29	31	77	37	9,787	1,751	1,774	3,797	2,464
Cafeteria or large restaurant	130	29	28	55	18	15,222	3,585	3,455	5,947	2,236
Commercial kitchen/ food preparation area	282	45	72	109	56	16,150	3,254	3,952	6,092	2,852
Small kitchen area	736	114	183	306	132	14,054	3,105	3,413	5,121	2,414
Separate computer areas (more than one may apply)										
Data center or server farm	97	14	25	31	27	11,105	2,377	2,488	3,873	2,366
Computer-based training room	244	34	47	112	51	17,723	3,341	3,950	7,121	3,311
Student or public computer center	238	40	46	91	61	14,341	2,710	3,338	5,999	2,293

Table B3. Census region, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	North-east	Mid-west	South	West	All buildings	North-east	Mid-west	South	West
All buildings	5,557	805	1,237	2,247	1,267	87,093	15,534	18,919	34,279	18,360
HVAC conservation features (more than one may apply)										
Economizer cycle	601	107	141	147	206	30,749	6,911	7,916	9,051	6,870
Regular HVAC maintenance	3,178	480	674	1,279	744	69,244	12,982	15,173	26,573	14,517
Building automation system (BAS) ²	781	117	160	291	212	37,051	6,934	7,996	14,578	7,542
Window and interior lighting features (more than one may apply)										
Multipaned windows	3,012	483	842	1,072	614	60,362	11,457	15,282	22,581	11,041
Tinted window glass	1,875	155	373	820	527	45,025	6,313	9,069	18,988	10,654
Reflective window glass	549	61	114	205	169	15,908	2,344	3,813	5,455	4,296
External overhangs or awnings	1,867	204	393	820	450	32,188	4,290	6,494	13,858	7,547
Skylights or atriums	591	80	94	210	207	22,261	4,058	4,091	8,083	6,028
Light scheduling	918	131	204	359	224	30,263	5,838	6,651	10,737	7,038
Occupancy sensors	813	137	155	256	266	35,871	7,732	7,916	11,922	8,300
Multi-level lighting or dimming	349	53	69	134	93	14,534	2,335	3,177	5,424	3,598
Daylight harvesting	125	19	29	53	24	6,114	1,032	1,522	1,996	1,564
Demand responsive lighting	176	Q	35	63	Q	4,738	648	912	1,692	1,487
Building automation system (BAS) for lighting ²	208	32	36	83	57	12,068	2,159	2,448	4,507	2,953
Equipment usage reduced when building not in full use (more than one may apply)										
Heating	3,699	582	842	1,398	877	63,167	12,290	14,126	23,309	13,442
Cooling	3,517	473	764	1,438	841	62,516	11,450	13,442	24,448	13,176
Lighting	4,757	707	1,055	1,898	1,096	78,594	14,259	17,263	30,541	16,531

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.

Release date: February 2015

Revised date: May 2016

Table B4. Census region and division, number of buildings, 2012

	Number of buildings (thousand)										
	Northeast			Midwest		South			West		
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	5,557	302	504	735	502	1,091	370	786	338	929	
Building floorspace (square feet)											
1,001 to 5,000	2,777	141	231	372	273	535	202	423	175	426	
5,001 to 10,000	1,229	72	100	144	113	245	83	164	72	239	
10,001 to 25,000	884	57	95	115	68	174	49	103	62	159	
25,001 to 50,000	332	18	29	55	27	64	15	48	13	62	
50,001 to 100,000	199	9	28	27	14	43	15	30	10	24	
100,001 to 200,000	90	3	15	13	4	20	4	13	3	14	
200,001 to 500,000	38	2	5	8	2	7	2	4	3	5	
Over 500,000	8	Q	2	1	(*)	2	Q	1	1	1	
Principal building activity											
Education	389	16	29	44	23	87	14	58	24	94	
Food sales	177	Q	Q	Q	Q	40	Q	Q	Q	24	
Food service	380	Q	36	45	32	78	35	47	22	59	
Health care	157	4	18	21	23	23	10	21	18	19	
Inpatient	10	1	1	Q	1	Q	Q	1	(*)	1	
Outpatient	147	Q	17	20	22	21	Q	20	17	18	
Lodging	158	Q	20	9	14	33	14	22	12	26	
Mercantile	602	34	64	84	47	142	31	78	31	91	
Retail (other than mall)	438	Q	54	62	41	92	Q	64	22	61	
Enclosed and strip malls	164	Q	9	22	6	51	Q	14	9	30	
Office	1,012	54	94	154	76	198	63	129	65	179	
Public assembly	352	36	29	65	34	45	34	31	16	61	
Public order and safety	84	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Religious worship	412	Q	28	50	42	80	57	58	22	52	
Service	619	41	68	102	75	100	41	89	Q	78	
Warehouse and storage	796	28	61	79	84	177	22	126	46	173	
Other	125	Q	Q	Q	Q	17	Q	Q	Q	27	
Vacant	296	Q	Q	24	27	58	Q	68	Q	34	
Year constructed											
Before 1920	362	46	66	54	52	45	34	24	Q	29	
1920 to 1945	488	24	101	85	55	57	25	46	22	72	
1946 to 1959	599	31	64	71	39	112	36	81	30	134	
1960 to 1969	639	30	70	86	73	117	46	68	23	124	
1970 to 1979	684	29	46	107	53	126	47	100	54	121	
1980 to 1989	915	45	41	91	81	205	60	162	63	168	
1990 to 1999	845	35	55	131	72	174	67	144	47	121	
2000 to 2003	375	21	25	46	34	83	16	60	28	62	
2004 to 2007	347	Q	15	33	16	91	22	51	38	Q	
2008 to 2012	303	Q	20	30	26	80	Q	50	21	39	

Table B4. Census region and division, number of buildings, 2012

	Number of buildings (thousand)										
	Northeast			Midwest			South			West	
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	5,557	302	504	735	502	1,091	370	786	338	929	
Number of floors											
One	3,836	124	236	468	317	803	287	647	249	704	
Two	1,158	101	135	173	124	205	63	110	73	175	
Three	374	62	84	73	48	38	10	15	12	31	
Four to nine	177	14	45	20	13	42	Q	12	3	17	
Ten or more	13	Q	3	2	Q	3	Q	1	1	1	
Elevators and escalators (more than one may apply)											
Any elevators	405	31	59	66	35	83	17	38	17	60	
Number of elevators											
One	272	24	34	47	27	51	12	26	11	39	
Two to five	118	6	21	17	8	28	4	10	5	19	
Six or more	16	(*)	4	2	1	3	1	1	1	2	
Any escalators	10	Q	3	Q	Q	1	Q	(*)	Q	1	
Number of workers (main shift)											
Fewer than 5	2,892	153	262	403	312	517	205	440	177	423	
5 to 9	1,085	72	82	131	93	234	60	155	68	191	
10 to 19	731	38	68	82	47	147	55	96	53	146	
20 to 49	513	22	46	70	34	112	32	54	27	116	
50 to 99	206	9	22	32	9	55	13	28	7	30	
100 to 249	93	5	16	11	7	21	3	9	5	16	
250 or more	37	2	9	5	2	6	1	5	2	7	
Weekly operating hours											
Fewer than 40	1,149	55	95	161	129	184	114	190	75	146	
40 to 48	1,346	66	103	169	133	234	95	207	81	259	
49 to 60	1,244	73	125	160	94	277	61	163	75	216	
61 to 84	764	61	70	101	54	162	34	74	45	163	
85 to 167	479	23	52	63	34	112	27	65	22	79	
Open continuously	575	24	60	81	58	122	38	87	40	66	
Ownership and occupancy											
Nongovernment owned	4,781	266	457	636	430	971	303	685	278	756	
Owner occupied	2,466	148	252	358	270	445	171	367	146	309	
Leased to tenant(s)	1,745	82	157	219	110	392	92	236	85	372	
Owner occupied and leased	349	28	34	38	31	84	21	34	24	54	
Unoccupied	221	Q	Q	Q	Q	49	Q	47	Q	21	
Government owned	776	36	47	100	72	121	67	101	61	172	
Federal	33	Q	Q	Q	Q	4	Q	Q	Q	Q	
State	185	Q	10	15	16	40	21	17	22	41	
Local	558	31	36	78	54	77	41	80	33	130	

Table B4. Census region and division, number of buildings, 2012

Table B4. Census region and division, number of buildings, 2012

	Number of buildings (thousand)										
	Northeast			Midwest		South			West		
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	5,557	302	504	735	502	1,091	370	786	338	929	
Predominant roof material											
Metal surfacing	1,672	Q	78	156	211	360	160	338	119	179	
Synthetic or rubber	911	55	120	188	104	151	45	65	62	121	
Built-up	836	21	69	78	39	189	45	138	43	213	
Slate or tile shingles	406	Q	51	36	Q	89	Q	57	28	103	
Wooden materials (including shingles)	157	Q	Q	Q	Q	35	Q	Q	Q	41	
Asphalt, fiberglass, or other shingles	1,483	125	157	244	127	244	95	159	80	252	
Concrete	51	Q	Q	Q	Q	18	Q	Q	Q	11	
Other	24	Q	Q	Q	Q	Q	Q	Q	Q	Q	
No one major type	18	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Roof characteristics											
Roof tilt											
Flat	1,960	76	210	244	114	421	93	250	110	442	
Shallow pitch	2,148	84	130	252	241	409	164	382	154	333	
Steeper pitch	1,449	142	164	239	147	262	113	153	75	154	
Cool roof	740	Q	54	80	52	118	63	99	67	185	
Renovations in buildings constructed before 2008 (more than one may apply)											
Any type of renovation	2,094	130	222	299	222	354	168	267	110	322	
Addition or annex	444	31	32	78	59	89	37	50	17	52	
Reduction in floorspace	71	Q	Q	Q	Q	16	Q	Q	Q	Q	
Roof replacement	987	71	107	147	125	134	101	124	45	132	
Exterior wall replacement	194	11	20	27	23	35	24	24	Q	24	
Interior wall reconfiguration	889	61	119	138	72	134	62	98	46	158	
Window replacement	560	52	66	96	60	81	44	59	28	75	
HVAC equipment upgrade	1,101	69	122	184	107	203	84	135	55	142	
Lighting upgrade	982	66	120	142	90	170	65	118	57	154	
Electrical upgrade	747	58	97	105	75	126	55	93	40	99	
Plumbing system upgrade	644	41	83	111	62	109	47	75	34	82	
Insulation upgrade	382	29	46	77	45	61	35	37	14	38	
Fire, safety, or security upgrade	616	53	92	88	59	90	46	75	29	85	
Structural upgrade	152	22	16	30	13	17	Q	Q	9	21	
Other	39	Q	Q	Q	Q	Q	Q	Q	Q	Q	
No renovations	3,160	153	263	406	254	657	185	469	207	568	
Buildings constructed 2008 or later	303	Q	20	30	26	80	Q	50	21	39	

Table B4. Census region and division, number of buildings, 2012

	Number of buildings (thousand)										
	Northeast			Midwest			South			West	
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	5,557	302	504	735	502	1,091	370	786	338	929	
Energy sources (more than one may apply)											
Electricity	5,234	285	485	706	466	1,020	354	712	316	891	
Natural gas	2,933	98	335	577	266	387	191	372	218	489	
Fuel oil	467	115	102	46	31	69	30	32	8	35	
District heat	48	Q	9	3	4	9	Q	5	Q	5	
District chilled water	54	Q	Q	2	Q	22	Q	6	1	8	
Propane	510	75	31	37	96	94	49	43	29	55	
Other	172	Q	22	28	22	19	Q	Q	12	Q	
Space-heating energy sources (more than one may apply)											
Electricity	2,858	99	211	282	211	704	239	437	165	511	
Natural gas	2,612	82	310	559	260	299	168	316	202	416	
Fuel oil	270	105	65	20	19	29	Q	Q	Q	Q	
District heat	48	Q	9	3	4	9	Q	5	Q	5	
Propane	342	38	21	29	76	58	35	Q	24	Q	
Other	101	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Primary space-heating energy source											
Electricity	1,819	38	100	90	102	557	153	334	80	365	
Natural gas	2,322	75	286	530	238	239	140	268	187	360	
Fuel oil	205	93	48	Q	Q	21	Q	Q	Q	Q	
District heat	47	Q	9	3	4	8	Q	5	Q	5	
Propane	261	33	Q	Q	61	43	28	Q	Q	Q	
Other	67	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Cooling energy sources (more than one may apply)											
Electricity	4,413	183	400	599	369	917	329	616	258	743	
Natural gas	12	Q	3	Q	Q	Q	Q	Q	Q	Q	
District chilled water	54	Q	Q	2	Q	22	Q	6	1	8	
Water-heating energy sources (more than one may apply)											
Electricity	2,658	127	197	295	230	665	238	339	130	437	
Natural gas	1,758	55	236	350	143	202	92	233	129	317	
Fuel oil	77	46	23	Q	Q	Q	Q	Q	Q	Q	
District heat	25	Q	Q	2	Q	Q	Q	Q	Q	3	
Propane	142	28	Q	Q	24	21	Q	Q	Q	Q	
Cooking energy sources (more than one may apply)											
Electricity	1,010	53	67	161	99	206	98	135	58	133	
Natural gas	740	33	90	120	43	124	59	103	36	132	
Propane	144	Q	10	Q	23	31	Q	Q	Q	Q	

Table B4. Census region and division, number of buildings, 2012

Table B4. Census region and division, number of buildings, 2012

	Number of buildings (thousand)										
	Northeast			Midwest		South			West		
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	5,557	302	504	735	502	1,091	370	786	338	929	
Cooling equipment (more than one may apply)											
Residential-type central air conditioners	1,546	53	124	305	175	251	112	270	73	182	
Heat pumps	692	16	38	33	32	296	54	59	31	134	
Individual air conditioners	709	67	123	80	68	121	54	81	23	91	
District chilled water	54	Q	Q	2	Q	22	Q	6	1	8	
Central chillers	163	12	14	24	13	40	8	22	12	18	
Packaged air conditioning units	1,909	81	172	235	127	376	156	254	125	383	
Swamp coolers	109	Q	Q	Q	N	Q	N	Q	36	53	
Other	Q	Q	Q	Q	Q	Q	N	Q	Q	Q	
Main equipment replaced since 1990 (more than one may apply)											
Heating	1,874	106	208	268	179	349	130	265	99	269	
Cooling	1,971	95	219	271	181	424	139	273	87	283	
Water-heating equipment											
Centralized system	3,348	166	327	490	316	617	268	437	195	533	
Distributed system	690	40	83	90	43	160	28	76	36	135	
Combination of centralized and distributed system	385	30	26	49	27	79	29	46	29	69	
Lighting equipment types (more than one may apply)											
Incandescent	1,826	111	182	276	183	353	149	219	105	247	
Standard fluorescent	4,649	236	448	620	398	948	319	624	269	788	
Compact fluorescent	2,302	139	214	349	194	422	136	282	132	433	
High-intensity discharge (HID)	525	34	41	73	37	122	29	67	27	95	
Halogen	905	70	79	138	64	196	44	137	45	132	
LED	473	36	47	80	34	96	29	38	26	87	
Other	10	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Refrigeration equipment (more than one may apply)											
Any refrigeration	3,984	212	381	566	332	789	311	530	222	641	
Walk-in units	811	59	81	113	62	180	51	100	43	122	
Cases or cabinets	915	68	98	132	72	191	66	100	51	138	
Large cold storage areas	78	Q	11	9	Q	19	Q	7	Q	14	
Commercial ice makers	846	36	64	111	55	216	77	119	49	118	
Residential-type or compact units	3,388	186	325	495	300	640	261	441	185	554	
Vending machines	960	47	88	117	77	220	89	126	51	145	
No refrigeration	1,573	90	122	170	170	303	59	256	116	287	

Table B4. Census region and division, number of buildings, 2012

	Number of buildings (thousand)										
	Northeast			Midwest			South			West	
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	5,557	302	504	735	502	1,091	370	786	338	929	
Office equipment (more than one may apply)											
Desktop computers	3,977	209	384	549	327	805	247	498	233	724	
With flat screen monitors	3,847	201	368	529	312	786	232	489	223	709	
With multiple monitors	911	37	83	126	57	192	51	115	64	186	
Laptop computers	2,730	151	261	385	213	557	179	338	155	492	
Dedicated servers	1,748	100	154	229	129	349	105	239	110	332	
Laser printers	2,339	121	234	339	185	457	130	270	155	448	
Inkjet printers	2,187	112	199	269	199	469	143	304	111	382	
FAX machines	3,185	162	325	447	238	648	191	420	183	573	
Photocopiers	2,163	138	217	309	165	396	141	271	129	397	
Number of desktop computers											
None	1,581	93	120	186	175	287	122	288	105	205	
1 to 4	2,039	117	204	295	189	398	126	256	117	337	
5 to 9	821	Q	67	116	70	171	61	102	46	164	
10 to 19	482	37	49	52	29	98	26	64	35	92	
20 to 49	355	17	32	40	22	80	19	40	19	86	
50 to 99	143	7	13	25	8	29	9	20	6	26	
100 to 249	92	6	14	14	6	20	3	8	7	14	
250 or more	44	2	6	7	3	9	2	7	3	5	
Number of laptop computers											
None	2,827	151	243	350	289	535	190	448	184	437	
1 to 4	1,944	96	187	286	165	382	129	243	108	347	
5 to 9	350	25	28	43	19	79	15	48	25	68	
10 to 19	181	15	18	19	10	37	18	16	6	42	
20 to 49	144	8	11	18	10	38	9	15	8	25	
50 to 99	58	3	7	10	4	10	4	9	5	7	
100 to 249	35	3	6	6	Q	5	Q	5	2	2	
250 or more	20	Q	3	3	Q	6	Q	2	1	2	
Number of dedicated servers											
None	3,809	201	350	506	373	743	264	547	228	597	
1 to 4	1,562	92	136	206	119	309	92	218	98	294	
5 to 9	97	5	9	14	5	21	6	10	5	20	
10 to 19	50	2	5	4	3	13	Q	8	Q	8	
20 to 49	25	Q	2	3	Q	4	Q	2	1	8	
50 or more	13	Q	3	2	Q	2	Q	Q	Q	3	
Number of photocopiers											
None	3,394	164	287	426	337	695	229	515	210	532	
One	1,325	90	126	198	101	228	93	165	81	244	
2 to 4	648	38	66	85	55	125	35	86	39	119	
5 to 9	116	7	11	17	6	28	7	12	5	22	
10 or more	75	3	14	9	4	16	7	8	3	12	

Table B4. Census region and division, number of buildings, 2012

	Number of buildings (thousand)										
	Northeast			Midwest			South			West	
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	5,557	302	504	735	502	1,091	370	786	338	929	
Number of TVs or video displays											
None	2,718	165	229	340	275	523	162	392	192	441	
One	1,145	59	105	172	101	214	75	182	56	181	
2 to 4	1,035	45	109	143	69	210	80	130	53	197	
5 to 9	314	17	34	40	31	60	28	38	13	53	
10 to 19	154	8	12	18	13	33	12	23	13	21	
20 to 49	106	Q	7	10	8	29	7	10	7	20	
50 to 99	48	Q	2	7	Q	14	Q	6	4	Q	
100 or more	37	1	6	5	2	9	Q	4	Q	5	
Food preparation or serving areas in non-food service buildings (more than one may apply)											
Snack bar or concession stand	153	Q	10	22	11	39	10	18	9	26	
Fast food or small restaurant	173	17	12	16	15	40	12	24	11	26	
Cafeteria or large restaurant	130	11	18	20	8	32	8	15	6	12	
Commercial kitchen/ food preparation area	282	18	27	50	22	61	20	28	16	40	
Small kitchen area	736	45	69	113	71	126	81	99	38	94	
Separate computer areas (more than one may apply)											
Data center or server farm	97	6	8	18	7	16	6	9	8	18	
Computer-based training room	244	12	22	31	16	56	24	31	20	31	
Student or public computer center	238	15	24	28	18	42	17	33	15	46	
HVAC conservation features (more than one may apply)											
Economizer cycle	601	30	77	97	44	90	15	43	43	163	
Regular HVAC maintenance	3,178	180	300	437	237	655	212	412	188	556	
Building automation system (BAS) ¹	781	42	75	108	52	154	42	95	44	169	
Window and interior lighting features (more than one may apply)											
Multipaned windows	3,012	203	280	509	333	547	203	322	213	401	
Tinted window glass	1,875	56	99	237	135	367	131	323	111	416	
Reflective window glass	549	23	39	75	38	112	33	61	45	123	
External overhangs or awnings	1,867	76	129	233	160	450	131	240	118	331	
Skylights or atriums	591	44	37	62	32	123	29	58	46	161	
Light scheduling	918	49	82	149	55	191	56	111	42	183	
Occupancy sensors	813	59	78	116	38	146	31	79	48	218	
Multi-level lighting or dimming	349	23	30	47	22	80	24	29	21	72	
Daylight harvesting	125	Q	11	19	10	22	Q	23	7	17	
Demand responsive lighting	176	Q	7	21	Q	45	Q	Q	Q	Q	
Building automation system (BAS) for lighting ¹	208	10	22	23	14	39	14	30	12	44	

Table B4. Census region and division, number of buildings, 2012

	Number of buildings (thousand)										
	Northeast			Midwest			South			West	
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	5,557	302	504	735	502	1,091	370	786	338	929	
Equipment usage reduced when building not in full use (more than one may apply)											
Heating	3,699	206	376	529	313	637	266	495	230	647	
Cooling	3,517	154	318	481	283	675	268	496	213	629	
Lighting	4,757	261	446	631	424	917	335	647	277	819	

¹In 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.

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

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.

Release date: February 2015

Revised date: May 2016

Table B5. Census region and division, floorspace, 2012

	Total floorspace (million square feet)										
	Northeast			Midwest			South			West	
	All buildings		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	87,093	4,302	11,232	12,742	6,178	17,981	4,904	11,394	4,981	13,379	
Building floorspace (square feet)											
1,001 to 5,000	8,041	405	652	1,066	792	1,564	613	1,206	528	1,216	
5,001 to 10,000	8,900	541	707	1,062	810	1,764	606	1,164	504	1,741	
10,001 to 25,000	14,105	901	1,507	1,823	1,065	2,709	769	1,732	990	2,609	
25,001 to 50,000	11,917	642	1,002	2,040	989	2,273	501	1,755	467	2,249	
50,001 to 100,000	13,918	598	2,078	1,809	920	3,049	1,002	2,088	725	1,648	
100,001 to 200,000	12,415	418	2,124	1,771	628	2,817	578	1,756	447	1,875	
200,001 to 500,000	10,724	597	1,636	2,129	597	2,089	503	1,089	774	1,310	
Over 500,000	7,074	Q	1,526	1,042	376	1,715	Q	604	546	731	
Principal building activity											
Education	12,239	642	1,414	2,205	968	2,840	469	1,853	783	1,065	
Food sales	1,252	Q	Q	Q	Q	188	Q	Q	Q	304	
Food service	1,819	Q	162	217	153	396	150	225	104	282	
Health care	4,155	274	792	549	313	662	271	508	289	497	
Inpatient	2,374	169	369	359	137	405	184	304	132	315	
Outpatient	1,781	Q	423	190	176	257	Q	204	157	182	
Lodging	5,826	Q	800	673	384	1,217	486	599	519	940	
Mercantile	11,330	463	1,190	1,488	644	2,746	736	1,247	727	2,088	
Retail (other than mall)	5,439	Q	672	748	394	1,052	Q	693	307	1,030	
Enclosed and strip malls	5,890	Q	518	740	250	1,694	Q	554	420	1,058	
Office	15,952	738	2,965	2,430	904	3,183	694	1,625	852	2,562	
Public assembly	5,559	350	603	1,196	390	904	330	769	321	697	
Public order and safety	1,440	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Religious worship	4,557	Q	613	547	378	857	614	540	214	511	
Service	4,630	255	568	847	625	741	318	583	Q	578	
Warehouse and storage	13,077	521	1,240	1,570	960	2,832	Q	1,919	591	2,938	
Other	2,002	Q	Q	Q	Q	568	Q	Q	Q	345	
Vacant	3,256	Q	Q	345	191	546	Q	934	Q	396	
Year constructed											
Before 1920	3,983	692	940	642	398	425	278	279	Q	225	
1920 to 1945	6,025	428	1,530	1,373	396	690	219	593	144	651	
1946 to 1959	7,381	349	1,233	1,154	508	1,515	268	850	325	1,179	
1960 to 1969	10,362	481	1,759	1,488	1,198	1,699	699	1,101	406	1,532	
1970 to 1979	10,846	502	1,450	1,865	754	1,703	555	1,435	802	1,780	
1980 to 1989	15,230	572	1,170	1,655	962	3,584	940	2,419	981	2,948	
1990 to 1999	13,803	485	1,560	1,942	856	2,798	1,213	2,161	804	1,984	
2000 to 2003	7,215	343	637	1,090	405	1,919	208	1,187	419	1,007	
2004 to 2007	6,524	Q	267	860	375	1,923	312	605	667	Q	
2008 to 2012	5,723	217	685	672	325	1,725	212	765	329	793	

Table B5. Census region and division, floorspace, 2012

	Total floorspace (million square feet)										
	Northeast			Midwest		South			West		
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	87,093	4,302	11,232	12,742	6,178	17,981	4,904	11,394	4,981	13,379	
Number of floors											
One	39,809	1,083	2,782	4,975	2,677	9,191	2,639	6,702	2,575	7,186	
Two	20,206	1,281	2,816	3,206	1,661	3,825	1,084	2,063	1,153	3,116	
Three	8,140	965	1,456	1,708	899	992	344	692	274	809	
Four to nine	13,535	782	2,626	2,085	829	2,913	705	1,396	498	1,700	
Ten or more	5,404	Q	1,552	767	Q	1,061	Q	541	Q	568	
Elevators and escalators (more than one may apply)											
Any elevators	32,120	1,857	6,054	5,439	2,115	6,484	1,236	3,302	1,700	3,932	
Number of elevators											
One	11,158	944	1,636	2,252	968	1,948	440	1,277	486	1,207	
Two to five	12,817	713	2,432	1,993	788	2,839	476	1,295	563	1,718	
Six or more	8,145	200	1,986	1,195	359	1,697	320	730	651	1,007	
Any escalators	3,654	Q	785	731	Q	646	Q	283	Q	461	
Number of workers (main shift)											
Fewer than 5	17,751	1,017	1,675	2,663	1,623	3,033	1,266	3,037	968	2,470	
5 to 9	8,973	496	786	1,110	800	1,751	491	1,312	565	1,662	
10 to 19	9,623	439	951	1,232	648	1,935	573	1,307	560	1,978	
20 to 49	14,514	546	1,358	2,270	1,102	3,001	964	1,646	858	2,771	
50 to 99	13,476	657	1,728	2,147	614	3,490	764	1,821	597	1,657	
100 to 249	10,941	686	1,843	1,548	766	2,622	447	1,094	689	1,246	
250 or more	11,815	460	2,892	1,771	626	2,150	399	1,178	745	1,595	
Weekly operating hours											
Fewer than 40	8,220	392	781	1,329	697	1,161	698	1,648	564	950	
40 to 48	15,828	830	1,531	1,988	1,060	2,901	1,269	2,618	896	2,734	
49 to 60	20,529	910	2,435	2,736	1,636	5,097	876	2,522	1,161	3,158	
61 to 84	15,867	984	2,329	2,591	1,037	3,459	476	1,339	807	2,844	
85 to 167	9,395	530	1,351	1,606	821	1,846	503	789	409	1,539	
Open continuously	17,253	655	2,806	2,491	927	3,518	1,082	2,477	1,144	2,155	
Ownership and occupancy											
Nongovernment owned	67,550	3,314	8,599	9,494	4,683	14,128	3,498	8,815	3,633	11,386	
Owner occupied	30,637	1,499	3,954	4,649	2,690	5,746	1,975	4,397	1,539	4,187	
Leased to tenant(s)	26,115	1,111	3,319	3,356	1,364	5,971	1,111	3,023	1,394	5,466	
Owner occupied and leased	8,873	604	1,182	1,246	521	2,071	330	840	532	1,546	
Unoccupied	1,925	Q	Q	Q	Q	338	Q	555	Q	187	
Government owned	19,543	988	2,634	3,247	1,495	3,853	1,406	2,580	1,348	1,993	
Federal	1,573	Q	Q	Q	Q	666	Q	Q	Q	Q	
State	5,539	Q	948	780	Q	715	Q	660	502	620	
Local	12,431	752	1,461	2,262	1,048	2,472	580	1,840	766	1,249	

Table B5. Census region and division, floorspace, 2012

Table B5. Census region and division, floorspace, 2012

	Total floorspace (million square feet)										
	Northeast			Midwest		South			West		
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	87,093	4,302	11,232	12,742	6,178	17,981	4,904	11,394	4,981	13,379	
Predominant roof material											
Metal surfacing	15,916	548	1,077	1,630	1,634	3,905	1,369	3,020	956	1,776	
Synthetic or rubber	25,817	1,755	4,125	5,361	2,141	4,388	1,387	1,968	1,841	2,851	
Built-up	21,835	684	3,098	2,894	1,104	4,714	880	3,296	1,169	3,995	
Slate or tile shingles	4,306	Q	591	288	Q	1,065	Q	Q	187	1,022	
Wooden materials (including shingles)	1,139	Q	Q	Q	Q	268	Q	Q	Q	428	
Asphalt, fiberglass, or other shingles	15,104	864	1,805	2,191	1,077	2,964	992	1,887	681	2,643	
Concrete	1,642	Q	288	Q	Q	490	Q	Q	Q	332	
Other	678	Q	Q	Q	Q	Q	Q	Q	Q	Q	
No one major type	657	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Roof characteristics											
Roof tilt											
Flat	49,623	2,157	7,905	7,483	3,091	10,067	2,046	6,007	2,767	8,099	
Shallow pitch	23,853	1,012	1,530	3,112	1,897	5,282	1,817	3,906	1,589	3,709	
Steeper pitch	13,617	1,133	1,798	2,146	1,190	2,631	1,041	1,481	625	1,572	
Cool roof	19,630	742	2,639	2,545	1,121	3,879	1,345	2,306	1,510	3,544	
Renovations in buildings constructed before 2008 (more than one may apply)											
Any type of renovation	42,216	2,625	6,639	6,653	3,443	7,251	2,752	5,390	2,245	5,217	
Addition or annex	13,022	815	1,759	2,501	1,580	2,353	778	1,478	855	902	
Reduction in floorspace	1,753	Q	Q	Q	Q	344	Q	Q	Q	Q	
Roof replacement	20,917	1,388	4,072	3,267	2,131	2,865	1,647	2,450	1,063	2,034	
Exterior wall replacement	4,230	264	646	605	468	773	300	369	Q	647	
Interior wall reconfiguration	21,340	1,431	3,589	3,577	1,625	3,346	1,228	2,280	1,418	2,848	
Window replacement	12,265	1,095	2,308	2,027	1,013	2,079	584	1,109	770	1,278	
HVAC equipment upgrade	26,779	1,570	4,908	4,574	1,967	4,584	1,437	3,342	1,561	2,837	
Lighting upgrade	25,503	1,666	4,343	4,115	1,989	4,151	1,440	3,238	1,496	3,065	
Electrical upgrade	16,160	1,172	2,796	2,625	1,378	2,571	979	1,932	986	1,721	
Plumbing system upgrade	13,828	1,023	2,355	2,294	1,153	2,371	825	1,433	782	1,593	
Insulation upgrade	7,607	581	1,168	1,268	929	1,159	409	790	Q	821	
Fire, safety, or security upgrade	17,196	1,368	3,234	2,613	1,201	2,782	900	2,193	912	1,994	
Structural upgrade	3,913	300	432	628	258	695	Q	Q	Q	717	
Other	848	Q	Q	Q	Q	Q	Q	Q	Q	Q	
No renovations	39,154	1,460	3,909	5,416	2,409	9,005	1,940	5,240	2,406	7,370	
Buildings constructed 2008 or later	5,723	217	685	672	325	1,725	212	765	329	793	

Table B5. Census region and division, floorspace, 2012

	Total floorspace (million square feet)											
	Northeast			Midwest			South			West		
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
All buildings	87,093	4,302	11,232	12,742	6,178	17,981	4,904	11,394	4,981	13,379		
Energy sources (more than one may apply)												
Electricity	84,869	4,192	11,099	12,544	6,016	17,608	4,824	10,594	4,812	13,180		
Natural gas	58,725	2,241	8,827	10,790	4,236	9,984	3,436	6,480	3,766	8,966		
Fuel oil	20,200	1,866	4,213	2,619	1,316	4,419	797	1,835	1,092	2,043		
District heat	5,964	Q	1,628	574	332	1,159	Q	646	482	404		
District chilled water	4,608	Q	656	420	Q	1,202	Q	773	Q	329		
Propane	7,706	861	885	829	1,080	1,476	470	621	503	982		
Other	3,826	397	691	532	267	554	Q	Q	403	631		
Space-heating energy sources (more than one may apply)												
Electricity	49,030	1,848	5,428	5,687	2,951	12,514	3,170	6,874	2,791	7,768		
Natural gas	49,511	1,990	7,362	10,122	3,909	7,309	2,662	5,467	3,180	7,509		
Fuel oil	4,351	1,270	1,581	292	375	458	Q	Q	Q	Q		
District heat	5,925	Q	1,628	574	332	1,148	Q	637	482	385		
Propane	3,067	314	339	280	723	498	218	Q	141	343		
Other	1,010	Q	Q	Q	Q	Q	Q	Q	Q	Q		
Primary space-heating energy source												
Electricity	26,205	468	1,720	1,702	1,281	8,533	1,982	4,604	1,122	4,794		
Natural gas	42,988	1,811	6,555	9,587	3,497	5,694	2,067	4,551	2,893	6,333		
Fuel oil	2,542	1,099	889	Q	Q	245	Q	Q	Q	Q		
District heat	5,797	Q	1,601	532	332	1,089	Q	637	482	385		
Propane	1,948	204	Q	Q	517	307	193	Q	Q	Q		
Other	598	Q	Q	Q	Q	Q	Q	Q	Q	Q		
Cooling energy sources (more than one may apply)												
Electricity	76,034	3,317	9,986	11,474	5,352	16,368	4,307	9,275	4,205	11,749		
Natural gas	732	Q	216	Q	Q	Q	Q	Q	Q	Q		
District chilled water	4,608	Q	656	420	Q	1,202	Q	773	Q	329		
Water-heating energy sources (more than one may apply)												
Electricity	42,755	1,939	4,622	4,914	3,020	11,163	2,900	5,386	2,000	6,810		
Natural gas	39,523	1,492	6,042	7,910	2,705	5,651	2,103	4,504	2,665	6,452		
Fuel oil	1,911	693	708	Q	Q	Q	Q	Q	Q	Q		
District heat	4,551	Q	1,383	470	Q	944	Q	Q	Q	243		
Propane	1,575	233	Q	Q	251	353	Q	Q	Q	Q		
Cooking energy sources (more than one may apply)												
Electricity	25,151	1,143	3,534	4,211	1,949	5,446	1,544	2,822	1,522	2,981		
Natural gas	24,770	1,015	4,341	4,293	1,349	4,427	1,487	2,658	1,694	3,506		
Propane	2,001	486	293	Q	211	510	Q	Q	Q	Q		

Table B5. Census region and division, floorspace, 2012

Table B5. Census region and division, floorspace, 2012

	Total floorspace (million square feet)										
	Northeast			Midwest		South			West		
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	87,093	4,302	11,232	12,742	6,178	17,981	4,904	11,394	4,981	13,379	
Cooling equipment (more than one may apply)											
Residential-type central air conditioners	14,765	451	1,244	2,854	1,493	2,574	891	2,429	668	2,160	
Heat pumps	12,538	388	1,103	604	421	4,925	839	1,344	672	2,244	
Individual air conditioners	12,420	1,035	2,810	1,806	779	2,484	808	971	565	1,162	
District chilled water	4,608	Q	656	420	Q	1,202	Q	773	Q	329	
Central chillers	17,041	783	2,706	3,484	991	3,884	831	1,746	920	1,697	
Packaged air conditioning units	45,153	2,062	6,635	6,839	2,977	9,119	2,686	5,379	2,314	7,141	
Swamp coolers	1,918	Q	Q	Q	N	Q	N	Q	722	617	
Other	328	Q	Q	Q	Q	Q	N	Q	Q	Q	
Main equipment replaced since 1990 (more than one may apply)											
Heating	27,558	1,646	3,709	4,404	2,482	5,204	1,616	3,228	1,365	3,903	
Cooling	30,702	1,516	4,798	4,620	2,591	6,455	1,755	3,458	1,440	4,070	
Water-heating equipment											
Centralized system	47,534	2,487	6,641	7,606	3,710	8,889	2,745	5,826	2,573	7,058	
Distributed system	12,688	586	1,797	1,671	663	3,030	437	1,471	699	2,333	
Combination of centralized and distributed system	18,793	843	2,279	2,804	1,137	4,226	1,416	2,222	1,168	2,698	
Lighting equipment types (more than one may apply)											
Incandescent	38,406	2,046	5,520	6,180	2,858	7,828	2,468	4,286	2,253	4,969	
Standard fluorescent	80,081	3,771	10,702	11,880	5,634	16,888	4,573	9,901	4,529	12,203	
Compact fluorescent	53,816	2,886	7,886	8,336	3,505	10,855	2,923	6,263	3,007	8,156	
High-intensity discharge (HID)	23,396	1,161	3,349	4,102	1,255	5,325	1,182	2,841	1,314	2,868	
Halogen	28,059	1,494	3,774	4,590	1,578	6,161	1,349	3,459	1,663	3,990	
LED	22,071	1,363	3,388	3,759	1,389	4,553	1,232	1,774	1,513	3,099	
Other	446	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Refrigeration equipment (more than one may apply)											
Any refrigeration	73,645	3,568	10,044	11,374	5,196	15,268	4,498	8,989	4,179	10,530	
Walk-in units	28,361	1,424	4,445	4,481	1,850	6,399	1,199	3,179	1,898	3,486	
Cases or cabinets	28,719	1,524	4,542	4,820	1,983	5,711	1,596	3,079	1,740	3,725	
Large cold storage areas	4,171	Q	430	695	Q	1,049	Q	316	Q	676	
Commercial ice makers	32,734	1,240	4,333	4,666	1,932	7,957	2,457	4,102	2,093	3,955	
Residential-type or compact units	62,381	3,081	8,354	9,850	4,407	13,129	3,747	7,312	3,323	9,176	
Vending machines	43,936	1,902	6,546	6,685	2,988	9,706	2,702	5,219	2,529	5,659	
No refrigeration	13,448	734	1,189	1,368	982	2,713	406	2,405	802	2,849	

Table B5. Census region and division, floorspace, 2012

	Total floorspace (million square feet)											
	Northeast			Midwest		South			West			
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
All buildings	87,093	4,302	11,232	12,742	6,178	17,981	4,904	11,394	4,981	13,379		
Office equipment (more than one may apply)												
Desktop computers	77,063	3,686	10,430	11,561	5,301	16,255	4,236	9,194	4,338	12,062		
With flat screen monitors	76,160	3,645	10,310	11,436	5,192	16,079	4,156	9,111	4,261	11,968		
With multiple monitors	30,946	1,158	4,132	4,244	2,164	6,888	1,498	3,708	1,992	5,163		
Laptop computers	63,486	3,093	8,681	9,507	4,389	13,950	3,421	7,550	3,614	9,282		
Dedicated servers	53,369	2,511	7,575	7,894	3,378	11,468	2,897	6,199	3,189	8,258		
Laser printers	54,256	2,696	7,622	8,535	3,624	11,789	2,681	5,990	2,952	8,367		
Inkjet printers	36,235	1,899	4,660	5,161	2,521	7,724	1,954	4,619	2,056	5,641		
FAX machines	66,682	3,164	9,569	9,955	4,484	14,307	3,404	8,084	3,708	10,007		
Photocopiers	59,277	2,989	8,665	9,111	3,942	12,279	3,057	6,763	3,360	9,111		
Number of desktop computers												
None	10,030	616	802	1,181	877	1,726	668	2,200	643	1,317		
1 to 4	15,669	846	1,611	2,283	1,299	3,318	911	2,044	782	2,575		
5 to 9	9,422	Q	1,142	1,390	730	1,723	649	1,156	515	1,866		
10 to 19	9,388	494	1,150	1,304	522	1,903	649	979	429	1,958		
20 to 49	13,094	717	1,610	1,633	958	2,966	758	1,623	873	1,957		
50 to 99	8,284	430	936	1,532	452	1,713	456	1,074	434	1,259		
100 to 249	9,728	432	1,870	1,569	634	2,156	410	826	653	1,179		
250 or more	11,478	518	2,110	1,850	706	2,476	403	1,493	653	1,268		
Number of laptop computers												
None	23,607	1,208	2,552	3,235	1,789	4,031	1,483	3,845	1,367	4,097		
1 to 4	21,161	1,083	2,267	3,260	1,785	4,218	1,281	2,580	1,163	3,524		
5 to 9	8,345	323	1,082	1,063	415	2,003	452	1,113	509	1,384		
10 to 19	8,343	521	979	1,060	414	1,994	489	904	405	1,579		
20 to 49	9,643	348	1,123	1,384	811	2,362	505	927	740	1,444		
50 to 99	5,234	242	976	978	334	809	244	774	309	568		
100 to 249	5,217	346	1,068	711	Q	1,078	Q	766	285	388		
250 or more	5,542	Q	1,185	1,051	319	1,487	Q	486	202	395		
Number of dedicated servers												
None	33,724	1,790	3,657	4,848	2,800	6,513	2,007	5,195	1,792	5,122		
1 to 4	34,097	1,582	4,611	5,055	2,145	7,735	1,785	3,980	2,061	5,143		
5 to 9	6,241	338	755	931	504	1,063	414	749	357	1,131		
10 to 19	5,711	340	777	663	343	1,286	Q	622	Q	899		
20 to 49	3,758	Q	566	714	Q	696	Q	455	282	497		
50 or more	3,562	Q	867	530	Q	688	Q	Q	Q	589		
Number of photocopiers												
None	27,816	1,312	2,568	3,630	2,236	5,702	1,847	4,631	1,621	4,269		
One	17,080	912	1,692	2,726	1,216	3,397	816	1,915	1,003	3,402		
2 to 4	20,312	1,017	2,564	3,003	1,581	4,073	1,247	2,743	1,137	2,948		
5 to 9	8,863	599	1,347	1,644	523	1,943	456	804	399	1,148		
10 or more	13,022	461	3,062	1,739	621	2,865	538	1,300	821	1,613		

Table B5. Census region and division, floorspace, 2012

	Total floorspace (million square feet)										
	Northeast			Midwest		South			West		
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	87,093	4,302	11,232	12,742	6,178	17,981	4,904	11,394	4,981	13,379	
Number of TVs or video displays											
None	24,339	1,513	2,541	3,230	1,861	4,717	1,132	3,635	1,447	4,264	
One	9,990	435	981	1,485	806	2,162	740	1,374	524	1,482	
2 to 4	16,465	833	2,097	2,889	1,167	3,192	964	2,158	688	2,477	
5 to 9	8,148	441	1,383	839	611	1,524	637	1,001	292	1,419	
10 to 19	8,168	391	1,408	1,134	760	1,558	435	1,058	488	936	
20 to 49	8,058	375	1,069	1,198	470	1,973	401	814	620	1,139	
50 to 99	4,378	Q	270	783	Q	1,213	Q	Q	409	622	
100 or more	7,547	202	1,483	1,184	357	1,643	Q	672	Q	1,039	
Food preparation or serving areas in non-food service buildings (more than one may apply)											
Snack bar or concession stand	9,884	Q	1,710	1,632	630	2,550	329	884	723	1,211	
Fast food or small restaurant	9,787	335	1,416	1,299	476	2,135	609	1,053	871	1,593	
Cafeteria or large restaurant	15,222	829	2,756	2,452	1,003	3,709	613	1,625	916	1,320	
Commercial kitchen/ food preparation area	16,150	915	2,339	2,960	993	3,867	722	1,503	992	1,859	
Small kitchen area	14,054	776	2,329	2,282	1,130	2,551	1,072	1,498	840	1,574	
Separate computer areas (more than one may apply)											
Data center or server farm	11,105	491	1,887	1,743	745	2,296	456	1,120	662	1,704	
Computer-based training room	17,723	747	2,594	2,728	1,222	3,895	879	2,347	1,364	1,947	
Student or public computer center	14,341	834	1,877	2,236	1,102	3,187	761	2,051	1,010	1,283	
HVAC conservation features (more than one may apply)											
Economizer cycle	30,749	1,412	5,498	5,550	2,366	5,286	1,059	2,706	2,022	4,849	
Regular HVAC maintenance	69,244	3,324	9,658	10,660	4,513	14,891	3,362	8,319	3,991	10,526	
Building automation system (BAS) ¹	37,051	1,734	5,199	5,646	2,350	8,070	1,880	4,628	2,310	5,233	
Window and interior lighting features (more than one may apply)											
Multipaned windows	60,362	3,410	8,047	10,082	5,200	12,612	3,378	6,592	3,822	7,219	
Tinted window glass	45,025	1,420	4,893	6,325	2,744	9,706	2,497	6,785	2,717	7,937	
Reflective window glass	15,908	495	1,849	2,633	1,180	2,980	711	1,765	1,264	3,032	
External overhangs or awnings	32,188	1,106	3,183	4,169	2,326	7,774	2,074	4,009	2,237	5,310	
Skylights or atriums	22,261	1,376	2,682	2,815	1,276	4,768	922	2,394	1,510	4,519	
Light scheduling	30,263	1,454	4,384	5,033	1,617	6,195	1,217	3,324	1,650	5,388	
Occupancy sensors	35,871	2,302	5,430	5,927	1,990	7,130	1,429	3,364	2,027	6,273	
Multi-level lighting or dimming	14,534	663	1,672	2,275	902	3,452	886	1,086	1,200	2,398	
Daylight harvesting	6,114	303	729	1,147	375	999	Q	666	461	1,103	
Demand responsive lighting	4,738	Q	448	506	406	1,315	Q	Q	Q	1,332	
Building automation system (BAS) for lighting ¹	12,068	526	1,633	1,680	768	2,714	495	1,298	807	2,146	

Table B5. Census region and division, floorspace, 2012

	Total floorspace (million square feet)										
	Northeast			Midwest		South			West		
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
All buildings	87,093	4,302	11,232	12,742	6,178	17,981	4,904	11,394	4,981	13,379	
Equipment usage reduced when building not in full use (more than one may apply)											
Heating	63,167	3,315	8,975	9,790	4,336	12,357	3,581	7,371	3,738	9,704	
Cooling	62,516	2,931	8,520	9,321	4,121	13,458	3,675	7,315	3,479	9,697	
Lighting	78,594	3,987	10,272	11,570	5,693	16,417	4,478	9,645	4,497	12,034	

¹In 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.

Release date: February 2015

Revised date: May 2016

Table B6. Building size, number of buildings, 2012

	Number of buildings (thousand)								
	Building size								
	1,001 to 5,000	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 to 200,000	200,001 to 500,000	Over 500,000	
All buildings	All buildings	square feet	square feet	square feet	square feet	square feet	square feet	square feet	
All buildings	5,557	2,777	1,229	884	332	199	90	38	8
Principal building activity									
Education	389	143	51	75	41	48	22	9	Q
Food sales	177	126	Q	Q	Q	Q	Q	N	N
Food service	380	267	89	24	Q	Q	N	N	N
Health care	157	81	33	21	8	8	2	3	1
Inpatient	10	N	N	Q	Q	3	1	2	1
Outpatient	147	81	33	21	7	5	Q	1	Q
Lodging	158	34	28	44	21	20	8	3	1
Mercantile	602	250	143	116	45	26	16	5	1
Retail (other than mall)	438	227	97	75	22	Q	9	Q	Q
Enclosed and strip malls	164	Q	46	42	22	20	7	3	1
Office	1,012	532	230	129	66	32	15	6	3
Public assembly	352	162	77	73	24	9	4	2	1
Public order and safety	84	Q	28	Q	Q	Q	Q	Q	Q
Religious worship	412	174	111	90	28	7	Q	Q	N
Service	619	372	143	78	19	Q	Q	Q	Q
Warehouse and storage	796	380	180	142	49	24	13	7	1
Other	125	59	Q	Q	Q	Q	Q	Q	Q
Vacant	296	165	59	47	14	9	Q	Q	Q
Year constructed									
Before 1920	362	210	77	50	13	7	3	Q	Q
1920 to 1945	488	291	83	71	26	9	6	2	1
1946 to 1959	599	352	112	81	24	18	7	4	(*)
1960 to 1969	639	290	158	109	40	26	10	5	1
1970 to 1979	684	336	148	118	45	22	10	4	1
1980 to 1989	915	415	231	152	66	26	14	9	2
1990 to 1999	845	425	197	119	44	39	14	6	1
2000 to 2003	375	178	72	70	24	15	13	2	1
2004 to 2007	347	162	73	54	28	22	5	3	1
2008 to 2012	303	119	78	57	22	16	9	2	Q
Census region									
Northeast	805	372	171	152	47	36	18	8	2
Midwest	1,237	645	257	183	83	40	18	10	2
South	2,247	1,159	491	327	127	88	37	13	3
West	1,267	601	310	221	75	34	17	7	1
Climate region¹									
Very cold/Cold	2,031	1,002	442	344	122	71	31	16	3
Mixed-humid	1,743	930	365	246	89	69	30	12	3
Mixed-dry/Hot-dry	837	370	225	150	54	22	12	5	1
Hot-humid	799	400	169	119	58	32	15	4	1
Marine	147	Q	29	24	10	6	2	1	Q

Table B6. Building size, number of buildings, 2012

	Number of buildings (thousand)								
	Building size								
	1,001 to 5,000	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 to 200,000	200,001 to 500,000	Over 500,000	
All buildings	square feet	square feet	square feet	square feet	square feet	square feet	square feet	square feet	
All buildings	5,557	2,777	1,229	884	332	199	90	38	8
Number of floors									
One	3,836	2,195	836	519	161	81	32	10	1
Two	1,158	423	301	254	100	54	18	7	1
Three	374	137	74	78	46	24	12	3	Q
Four to nine	177	Q	Q	32	24	39	26	12	2
Ten or more	13	N	N	N	Q	Q	3	6	3
Elevators and escalators (more than one may apply)									
Any elevators	405	Q	42	94	86	85	53	26	6
Number of elevators									
One	272	Q	39	91	64	41	17	5	Q
Two to five	118	N	Q	Q	21	43	33	13	1
Six or more	16	N	N	N	Q	Q	2	8	5
Any escalators	10	N	N	Q	N	Q	Q	1	3
Number of workers (main shift)									
Fewer than 5	2,892	1,984	550	279	52	21	5	Q	Q
5 to 9	1,085	547	331	159	39	7	Q	Q	Q
10 to 19	731	217	239	195	58	17	4	Q	Q
20 to 49	513	30	108	202	100	56	14	2	Q
50 to 99	206	N	Q	41	64	62	32	6	Q
100 to 249	93	N	N	Q	18	33	19	15	1
250 or more	37	N	N	Q	Q	4	13	12	6
Weekly operating hours									
Fewer than 40	1,149	746	216	139	34	10	3	Q	Q
40 to 48	1,346	750	298	180	58	40	16	4	Q
49 to 60	1,244	496	338	239	91	53	18	8	1
61 to 84	764	309	161	161	73	35	17	8	2
85 to 167	479	251	80	69	32	24	15	5	1
Open continuously	575	226	137	95	45	37	20	12	4
Ownership and occupancy									
Nongovernment owned	4,781	2,435	1,101	753	265	130	65	27	6
Owner occupied	2,466	1,311	570	377	114	52	31	11	2
Leased to tenant(s)	1,745	881	402	260	103	59	26	11	3
Owner occupied and leased	349	108	88	85	38	16	7	5	2
Unoccupied	221	135	41	30	Q	Q	Q	Q	Q
Government owned	776	342	129	131	67	69	25	11	2
Federal	33	Q	Q	Q	Q	Q	Q	Q	1
State	185	81	Q	37	17	20	10	4	Q
Local	558	252	104	88	45	47	15	7	1

Table B6. Building size, number of buildings, 2012

Table B6. Building size, number of buildings, 2012

	Number of buildings (thousand)								
	Building size								
	1,001 to 5,000	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 to 200,000	200,001 to 500,000	Over 500,000	
All buildings	square feet	square feet	square feet	square feet	square feet	square feet	square feet	square feet	
All buildings	5,557	2,777	1,229	884	332	199	90	38	8
Predominant roof material									
Metal surfacing	1,672	918	419	235	55	31	10	2	Q
Synthetic or rubber	911	327	185	178	101	67	32	18	3
Built-up	836	330	159	163	84	57	28	12	3
Slate or tile shingles	406	227	99	50	19	7	Q	Q	Q
Wooden materials (including shingles)	157	99	37	16	Q	Q	Q	Q	N
Asphalt, fiberglass, or other shingles	1,483	852	312	213	64	29	10	2	1
Concrete	51	Q	Q	Q	Q	Q	3	Q	Q
Other	24	Q	Q	Q	Q	Q	Q	Q	Q
No one major type	18	Q	Q	Q	Q	Q	Q	Q	Q
Roof characteristics									
Roof tilt									
Flat	1,960	766	390	382	194	131	63	29	6
Shallow pitch	2,148	1,212	491	285	88	43	21	7	2
Steeper pitch	1,449	799	348	217	50	26	6	1	1
Cool roof	740	314	141	143	57	43	24	16	3
Renovations in buildings constructed before 2008 (more than one may apply)									
Any type of renovation	2,094	945	471	353	152	100	44	24	5
Addition or annex	444	158	102	80	44	34	14	10	2
Reduction in floorspace	71	32	Q	Q	Q	Q	Q	1	(*)
Roof replacement	987	446	225	171	61	47	19	14	3
Exterior wall replacement	194	104	32	31	12	8	4	2	1
Interior wall reconfiguration	889	390	185	150	73	51	21	14	3
Window replacement	560	246	119	99	45	31	11	7	2
HVAC equipment upgrade	1,101	443	246	205	93	62	30	17	4
Lighting upgrade	982	405	221	166	80	62	27	18	4
Electrical upgrade	747	358	154	120	49	37	15	11	3
Plumbing system upgrade	644	308	139	95	48	34	8	10	2
Insulation upgrade	382	180	78	68	27	19	6	4	1
Fire, safety, or security upgrade	616	250	133	106	53	42	16	12	3
Structural upgrade	152	59	36	30	Q	10	3	2	1
Other	39	Q	Q	Q	Q	Q	Q	Q	Q
No renovations	3,160	1,713	680	473	159	84	37	12	2
Buildings constructed 2008 or later	303	119	78	57	22	16	9	2	Q

Table B6. Building size, number of buildings, 2012

	Number of buildings (thousand)								
	Building size								
	1,001 to 5,000	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 to 200,000	200,001 to 500,000	Over 500,000	
All buildings	square feet	square feet	square feet	square feet	square feet	square feet	square feet	square feet	
All buildings	5,557	2,777	1,229	884	332	199	90	38	8
Energy sources <i>(more than one may apply)</i>									
Electricity	5,234	2,556	1,171	852	326	195	90	37	8
Natural gas	2,933	1,253	660	548	227	142	67	29	6
Fuel oil	467	204	74	67	39	39	19	18	6
District heat	48	Q	Q	Q	6	10	9	5	2
District chilled water	54	Q	Q	9	Q	10	9	4	1
Propane	510	252	134	74	24	14	8	3	1
Other	172	69	41	31	16	8	4	3	1
Space-heating energy sources <i>(more than one may apply)</i>									
Electricity	2,858	1,379	606	482	189	123	54	21	4
Natural gas	2,612	1,115	595	494	203	121	54	25	4
Fuel oil	270	148	49	42	15	9	4	2	(*)
District heat	48	Q	Q	Q	6	10	9	5	2
Propane	342	180	96	51	9	Q	Q	Q	Q
Other	101	48	29	Q	Q	Q	Q	Q	Q
Primary space-heating energy source									
Electricity	1,819	928	398	280	106	70	27	8	2
Natural gas	2,322	1,025	520	433	174	97	48	23	4
Fuel oil	205	119	37	32	Q	6	2	Q	Q
District heat	47	Q	Q	Q	6	10	9	5	2
Propane	261	146	70	35	Q	Q	Q	Q	N
Other	67	35	Q	Q	Q	Q	Q	Q	N
Cooling energy sources <i>(more than one may apply)</i>									
Electricity	4,413	2,054	996	764	296	179	81	35	7
Natural gas	12	Q	Q	Q	Q	Q	Q	Q	(*)
District chilled water	54	Q	Q	9	Q	10	9	4	1
Water-heating energy sources <i>(more than one may apply)</i>									
Electricity	2,658	1,304	594	431	167	94	46	18	4
Natural gas	1,758	684	384	351	157	109	49	21	4
Fuel oil	77	Q	Q	Q	Q	Q	2	1	(*)
District heat	25	Q	Q	Q	Q	6	6	4	2
Propane	142	58	47	26	Q	Q	Q	Q	Q
Cooking energy sources <i>(more than one may apply)</i>									
Electricity	1,010	441	225	167	63	63	31	16	4
Natural gas	740	265	168	126	64	62	33	18	4
Propane	144	77	37	17	Q	6	Q	Q	Q

Table B6. Building size, number of buildings, 2012

	Number of buildings (thousand)								
	Building size								
	1,001 to 5,000	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 to 200,000	200,001 to 500,000	Over 500,000	
All buildings	square feet	square feet	square feet	square feet	square feet	square feet	square feet	square feet	
All buildings	5,557	2,777	1,229	884	332	199	90	38	8
Energy end uses <i>(more than one may apply)</i>									
Buildings with space heating	4,722	2,257	1,046	797	304	187	86	36	8
Buildings with cooling	4,461	2,062	1,004	774	302	187	88	37	8
Buildings with water heating	4,423	2,032	992	775	307	186	86	36	8
Buildings with cooking	1,589	673	376	257	108	96	48	25	6
Buildings with manufacturing	259	86	75	51	28	11	5	2	Q
Buildings with electricity generation	410	92	77	64	55	58	35	22	6
Percent of floorspace heated									
Not heated	835	520	183	86	28	12	4	Q	Q
1 to 50	697	301	186	143	36	19	8	4	1
51 to 99	727	299	184	135	47	36	16	8	2
100	3,298	1,657	676	520	221	133	63	24	5
Percent of floorspace cooled									
Not cooled	1,096	716	225	110	30	13	Q	Q	Q
1 to 50	1,173	465	308	248	89	36	17	8	1
51 to 99	897	310	236	173	76	58	25	15	3
100	2,391	1,286	459	352	137	92	46	15	3
Percent lit when open									
Zero	70	54	Q	Q	Q	N	N	Q	N
1 to 50	1,099	564	259	182	54	29	8	3	Q
51 to 99	1,666	638	418	331	126	92	40	18	3
100	2,222	1,196	436	317	141	72	41	16	4
Building never open/electricity not used	501	326	105	49	Q	Q	Q	Q	Q
Percent lit during off hours									
Zero	2,489	1,381	590	359	95	38	21	4	1
1 to 50	2,441	1,035	521	448	211	138	57	26	5
51 to 100	202	90	42	25	15	15	8	5	1
Building always open with no "off hours"	102	50	Q	20	Q	Q	3	2	(*)
Electricity not used	323	222	58	31	Q	Q	Q	Q	Q
Heating equipment (more than one may apply)									
Heat pumps	628	286	147	93	46	39	12	5	1
Furnaces	755	359	194	140	40	15	5	2	(*)
Individual space heaters	1,247	612	281	195	84	41	21	11	2
District heat	48	Q	Q	Q	6	10	9	5	2
Boilers	544	128	99	123	75	69	31	17	3
Packaged heating units	2,802	1,259	628	511	202	120	55	21	4
Other	62	Q	Q	Q	Q	8	Q	Q	Q

Table B6. Building size, number of buildings, 2012

	Number of buildings (thousand)								
	Building size								
	1,001 to 5,000	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 to 200,000	200,001 to 500,000	Over 500,000	
All buildings	square feet	square feet	square feet	square feet	square feet	square feet	square feet	square feet	
All buildings	5,557	2,777	1,229	884	332	199	90	38	8
Cooling equipment (more than one may apply)									
Residential-type central air conditioners	1,546	796	403	246	72	21	7	2	Q
Heat pumps	692	321	168	91	52	41	13	5	1
Individual air conditioners	709	362	136	116	46	29	12	7	1
District chilled water	54	Q	Q	9	Q	10	9	4	1
Central chillers	163	Q	Q	36	29	36	23	18	5
Packaged air conditioning units	1,909	697	418	407	181	124	54	24	5
Swamp coolers	109	58	Q	Q	Q	7	Q	Q	Q
Other	Q	Q	N	Q	Q	Q	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)									
Heating	1,874	916	427	314	114	64	26	11	2
Cooling	1,971	952	454	329	124	67	28	15	3
Water-heating equipment									
Centralized system	3,348	1,653	789	538	198	103	45	17	4
Distributed system	690	322	120	143	57	28	13	5	1
Combination of centralized and distributed system	385	57	82	93	51	55	29	14	3
Lighting equipment types (more than one may apply)									
Incandescent	1,826	824	396	311	135	89	45	20	5
Standard fluorescent	4,649	2,192	1,045	786	308	189	85	37	8
Compact fluorescent	2,302	925	517	427	194	138	65	30	7
High-intensity discharge	525	106	99	140	74	53	30	17	5
Halogen	905	299	201	181	96	71	34	18	5
LED	473	108	94	112	61	48	28	17	5
Other	10	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration equipment (more than one may apply)									
Any refrigeration	3,984	1,815	903	688	276	177	82	35	8
Walk-in units	811	344	150	116	60	73	40	22	5
Cases or cabinets	915	379	185	142	75	69	38	22	5
Large cold storage areas	78	Q	Q	Q	Q	9	6	4	1
Commercial ice makers	846	279	172	147	82	90	44	25	6
Residential-type or compact units	3,388	1,520	791	585	239	150	68	29	7
Vending machines	960	182	167	236	153	117	66	31	7
No refrigeration	1,573	962	326	196	56	22	8	2	Q

Table B6. Building size, number of buildings, 2012

	Number of buildings (thousand)								
	Building size								
	1,001 to 5,000	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 to 200,000	200,001 to 500,000	Over 500,000	
All buildings	square feet	square feet	square feet	square feet	square feet	square feet	square feet	square feet	
All buildings	5,557	2,777	1,229	884	332	199	90	38	8
Office equipment <i>(more than one may apply)</i>									
Desktop computers	3,977	1,705	916	736	298	189	86	37	8
With flat screen monitors	3,847	1,627	879	727	296	187	86	37	8
With multiple monitors	911	250	220	201	100	78	36	20	6
Laptop computers	2,730	1,031	637	540	250	158	72	34	8
Dedicated servers	1,748	526	394	378	198	144	68	33	7
Laser printers	2,339	890	540	464	206	140	65	27	7
Inkjet printers	2,187	992	538	378	144	78	38	17	3
FAX machines	3,185	1,308	730	602	262	164	80	32	7
Photocopiers	2,163	700	468	492	231	156	75	33	7
Number of desktop computers									
None	1,581	1,072	313	147	34	10	4	Q	Q
1 to 4	2,039	1,197	478	287	52	17	8	Q	N
5 to 9	821	358	237	152	52	16	6	Q	Q
10 to 19	482	133	122	130	56	29	10	2	Q
20 to 49	355	Q	76	122	69	48	17	6	1
50 to 99	143	Q	Q	40	49	32	11	6	1
100 to 249	92	N	Q	Q	19	39	19	7	2
250 or more	44	N	N	N	Q	9	15	15	5
Number of laptop computers									
None	2,827	1,746	592	344	82	41	18	4	Q
1 to 4	1,944	942	497	357	94	36	14	4	Q
5 to 9	350	77	99	83	54	25	9	2	Q
10 to 19	181	Q	32	51	43	28	11	5	1
20 to 49	144	Q	Q	33	42	37	14	6	1
50 to 99	58	N	N	Q	13	17	10	3	1
100 to 249	35	N	N	Q	Q	11	10	6	1
250 or more	20	N	N	Q	Q	5	7	3	
Number of dedicated servers									
None	3,809	2,251	835	506	134	55	22	5	1
1 to 4	1,562	517	382	338	163	105	42	13	2
5 to 9	97	Q	Q	28	18	18	10	6	1
10 to 19	50	Q	Q	Q	12	10	10	6	1
20 to 49	25	N	Q	Q	Q	7	3	4	1
50 or more	13	N	Q	N	Q	Q	4	4	2
Number of photocopiers									
None	3,394	2,077	761	392	101	43	15	4	1
One	1,325	590	322	275	81	37	17	2	Q
2 to 4	648	105	135	192	105	73	29	9	1
5 to 9	116	Q	Q	20	34	26	14	9	1
10 or more	75	Q	Q	Q	11	20	15	13	5

Table B6. Building size, number of buildings, 2012

	Number of buildings (thousand)								
	Building size								
	1,001 to 5,000	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 to 200,000	200,001 to 500,000	Over 500,000	
All buildings	square feet	square feet	square feet	square feet	square feet	square feet	square feet	square feet	
All buildings	5,557	2,777	1,229	884	332	199	90	38	8
Number of TVs or video displays									
None	2,718	1,637	578	343	101	39	15	4	1
One	1,145	661	265	159	38	14	6	Q	Q
2 to 4	1,035	368	280	231	98	40	14	5	Q
5 to 9	314	92	77	72	30	28	11	4	1
10 to 19	154	Q	Q	39	28	32	13	5	1
20 to 49	106	Q	Q	27	23	23	15	7	1
50 to 99	48	N	Q	Q	10	9	9	5	1
100 or more	37	N	N	Q	Q	13	7	7	3
Food preparation or serving areas in non-food service buildings (more than one may apply)									
Snack bar or concession stand	153	43	32	24	13	14	15	8	3
Fast food or small restaurant	173	38	39	33	20	19	14	8	3
Cafeteria or large restaurant	130	Q	Q	13	24	45	23	13	4
Commercial kitchen/ food preparation area	282	38	51	72	39	43	22	13	3
Small kitchen area	736	316	187	132	48	30	14	7	2
Separate computer areas (more than one may apply)									
Data center or server farm	97	Q	Q	Q	18	15	13	12	4
Computer-based training room	244	31	29	52	43	42	27	16	4
Student or public computer center	238	30	35	48	38	49	25	13	1
HVAC conservation features (more than one may apply)									
Economizer cycle	601	128	95	137	82	83	46	25	5
Regular HVAC maintenance	3,178	1,286	706	614	277	169	82	36	8
Building automation system (BAS) ²	781	197	130	163	94	101	62	28	6
Window and interior lighting features (more than one may apply)									
Multipaned windows	3,012	1,278	708	531	236	154	68	30	6
Tinted window glass	1,875	722	410	360	184	114	55	26	5
Reflective window glass	549	183	129	107	53	45	19	10	2
External overhangs or awnings	1,867	855	448	321	114	78	33	15	3
Skylights or atriums	591	138	146	144	62	52	31	15	4
Light scheduling	918	304	188	182	102	77	40	19	5
Occupancy sensors	813	172	153	196	110	99	54	24	6
Multi-level lighting or dimming	349	78	78	72	47	39	19	13	2
Daylight harvesting	125	39	Q	26	16	14	10	4	1
Demand responsive lighting	176	55	44	38	19	9	7	3	1
Building automation system (BAS) for lighting ²	208	42	35	43	27	30	19	9	3

Table B6. Building size, number of buildings, 2012

	Number of buildings (thousand)								
	Building size								
	1,001 to 5,000	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 to 200,000	200,001 to 500,000	Over 500,000	
All buildings	square feet	square feet	square feet	square feet	square feet	square feet	square feet	square feet	
All buildings	5,557	2,777	1,229	884	332	199	90	38	8
Equipment usage reduced when building not in full use (more than one may apply)									
Heating	3,699	1,737	842	624	242	149	71	28	6
Cooling	3,517	1,604	813	610	236	148	73	28	6
Lighting	4,757	2,281	1,072	796	303	180	84	34	7

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.

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

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.

Release date: February 2015

Revised date: May 2016

Table B7. Building size, floorspace, 2012

	Total floorspace (million square feet)								
	Building size								
	1,001 to 5,000	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 to 200,000	200,001 to 500,000	Over 500,000	Over 500,000
All buildings	All square feet	square feet	square feet	square feet	square feet	square feet	square feet	square feet	square feet
All buildings	87,093	8,041	8,900	14,105	11,917	13,918	12,415	10,724	7,074
Principal building activity									
Education	12,239	391	353	1,212	1,492	3,363	3,020	2,358	Q
Food sales	1,252	360	Q	Q	Q	Q	Q	N	N
Food service	1,819	788	640	355	Q	Q	N	N	N
Health care	4,155	268	241	364	316	529	350	859	1,227
Inpatient	2,374	N	N	Q	Q	220	196	677	1,219
Outpatient	1,781	268	241	355	263	309	Q	182	Q
Lodging	5,826	85	214	705	764	1,270	1,127	919	742
Mercantile	11,330	730	1,052	1,821	1,648	1,909	2,178	1,264	726
Retail (other than mall)	5,439	661	684	1,132	821	Q	1,169	Q	Q
Enclosed and strip malls	5,890	Q	367	689	827	1,428	1,009	805	696
Office	15,952	1,520	1,663	2,012	2,333	2,203	2,054	1,946	2,221
Public assembly	5,559	498	536	1,108	861	627	553	748	627
Public order and safety	1,440	Q	221	Q	Q	Q	Q	Q	Q
Religious worship	4,557	572	790	1,443	926	585	Q	Q	N
Service	4,630	1,031	1,051	1,253	607	Q	Q	Q	Q
Warehouse and storage	13,077	1,127	1,329	2,331	1,814	1,632	1,946	1,827	1,071
Other	2,002	156	Q	Q	Q	Q	Q	Q	Q
Vacant	3,256	404	376	791	521	641	Q	Q	Q
Year constructed									
Before 1920	3,983	640	519	771	527	471	442	Q	Q
1920 to 1945	6,025	777	635	1,152	880	569	719	579	713
1946 to 1959	7,381	918	793	1,328	829	1,315	927	1,002	269
1960 to 1969	10,362	806	1,149	1,773	1,469	1,736	1,333	1,444	653
1970 to 1979	10,846	974	1,069	1,862	1,557	1,563	1,488	1,151	1,181
1980 to 1989	15,230	1,238	1,655	2,430	2,362	1,845	1,872	2,561	1,268
1990 to 1999	13,803	1,281	1,461	1,871	1,628	2,732	1,882	1,694	1,254
2000 to 2003	7,215	527	512	1,140	893	1,083	1,751	678	632
2004 to 2007	6,524	511	527	863	1,004	1,495	753	778	592
2008 to 2012	5,723	369	581	914	768	1,110	1,248	578	Q
Census region									
Northeast	15,534	1,057	1,248	2,408	1,644	2,676	2,542	2,232	1,727
Midwest	18,919	1,858	1,872	2,889	3,029	2,729	2,400	2,726	1,418
South	34,279	3,383	3,535	5,209	4,528	6,139	5,152	3,681	2,652
West	18,360	1,744	2,245	3,599	2,716	2,374	2,321	2,084	1,277
Climate region¹									
Very cold/Cold	31,898	2,913	3,193	5,437	4,358	5,001	4,264	4,336	2,396
Mixed-humid	27,873	2,741	2,637	3,870	3,163	4,817	4,215	3,445	2,984
Mixed-dry/Hot-dry	12,037	1,034	1,630	2,439	1,922	1,480	1,666	1,328	536
Hot-humid	12,831	1,148	1,222	1,929	2,099	2,204	2,004	1,287	938
Marine	2,454	Q	218	429	375	416	265	327	Q

Table B7. Building size, floorspace, 2012

Total floorspace (million square feet)										
	Building size									
	1,001 to 5,000 square feet		5,001 to 10,000 square feet		10,001 to 25,000 square feet		25,001 to 50,000 square feet		50,001 to 100,000 square feet	
	All buildings		square feet		square feet		square feet		square feet	
	1,001	5,001	10,001	25,001	50,001	100,001	200,001	Over 200,000	Over 500,000	Over 500,000
All buildings	87,093	8,041	8,900	14,105	11,917	13,918	12,415	10,724	7,074	
Number of floors										
One	39,809	6,244	6,044	8,129	5,761	5,643	4,355	2,630	1,004	
Two	20,206	1,315	2,181	4,162	3,584	3,882	2,538	1,915	630	
Three	8,140	416	536	1,234	1,655	1,624	1,537	918	Q	
Four to nine	13,535	Q	Q	581	906	2,708	3,552	3,466	2,116	
Ten or more	5,404	N	N	N	Q	Q	433	1,795	3,104	
Elevators and escalators (more than one may apply)										
Any elevators	32,120	Q	320	1,678	3,198	5,951	7,344	7,703	5,885	
Number of elevators										
One	11,158	Q	297	1,612	2,378	2,838	2,391	1,351	Q	
Two to five	12,817	N	Q	Q	818	3,093	4,565	3,660	592	
Six or more	8,145	N	N	N	Q	Q	387	2,692	5,043	
Any escalators	3,654	N	N	Q	N	Q	Q	503	2,758	
Number of workers (main shift)										
Fewer than 5	17,751	5,362	3,843	4,334	1,791	1,332	677	Q	Q	
5 to 9	8,973	1,768	2,389	2,454	1,437	447	Q	Q	Q	
10 to 19	9,623	794	1,793	3,135	2,017	1,051	574	Q	Q	
20 to 49	14,514	117	869	3,314	3,615	4,036	1,903	595	Q	
50 to 99	13,476	N	Q	719	2,339	4,388	4,152	1,544	Q	
100 to 249	10,941	N	N	Q	686	2,328	2,861	4,078	845	
250 or more	11,815	N	N	Q	Q	337	1,879	3,842	5,718	
Weekly operating hours										
Fewer than 40	8,220	2,012	1,475	2,100	1,164	743	384	Q	Q	
40 to 48	15,828	2,215	2,140	3,053	2,139	2,784	2,146	1,068	Q	
49 to 60	20,529	1,488	2,496	3,768	3,174	3,675	2,644	2,315	969	
61 to 84	15,867	943	1,182	2,546	2,628	2,550	2,481	2,164	1,373	
85 to 167	9,395	730	598	1,056	1,141	1,686	1,926	1,549	710	
Open continuously	17,253	653	1,009	1,582	1,671	2,480	2,835	3,427	3,597	
Ownership and occupancy										
Nongovernment owned	67,550	7,077	7,953	11,987	9,482	9,104	8,905	7,634	5,408	
Owner occupied	30,637	3,871	4,118	6,045	4,067	3,712	4,306	2,976	1,542	
Leased to tenant(s)	26,115	2,526	2,932	4,149	3,656	4,051	3,493	3,084	2,223	
Owner occupied and leased	8,873	382	635	1,305	1,353	1,106	1,025	1,482	1,584	
Unoccupied	1,925	298	267	488	Q	Q	Q	Q	Q	
Government owned	19,543	964	947	2,117	2,435	4,814	3,510	3,090	1,666	
Federal	1,573	Q	Q	Q	Q	Q	Q	Q	806	
State	5,539	230	Q	621	647	1,327	1,392	1,024	Q	
Local	12,431	713	765	1,373	1,649	3,351	1,989	1,928	663	

Table B7. Building size, floorspace, 2012

Table B7. Building size, floorspace, 2012

	Total floorspace (million square feet)								
	Building size								
	1,001 to 5,000 square feet	5,001 to 10,000 square feet	10,001 to 25,000 square feet	25,001 to 50,000 square feet	50,001 to 100,000 square feet	100,001 to 200,000 square feet	200,001 to 500,000 square feet	Over 500,000 square feet	
All buildings	87,093	8,041	8,900	14,105	11,917	13,918	12,415	10,724	7,074
Predominant roof material									
Metal surfacing	15,916	2,742	2,991	3,647	1,836	2,113	1,319	602	Q
Synthetic or rubber	25,817	1,011	1,330	2,970	3,660	4,730	4,464	5,001	2,651
Built-up	21,835	959	1,168	2,689	3,059	4,057	3,860	3,534	2,510
Slate or tile shingles	4,306	618	715	770	691	413	Q	Q	Q
Wooden materials (including shingles)	1,139	269	275	240	Q	Q	Q	Q	N
Asphalt, fiberglass, or other shingles	15,104	2,362	2,280	3,369	2,329	2,038	1,412	681	632
Concrete	1,642	Q	Q	Q	Q	Q	412	Q	Q
Other	678	Q	Q	Q	Q	Q	Q	Q	Q
No one major type	657	Q	Q	Q	Q	Q	Q	Q	Q
Roof characteristics									
Roof tilt									
Flat	49,623	2,236	2,906	6,167	7,037	9,248	8,616	8,394	5,019
Shallow pitch	23,853	3,431	3,481	4,569	3,134	2,921	2,983	1,921	1,412
Steeper pitch	13,617	2,374	2,513	3,368	1,746	1,749	816	409	643
Cool roof	19,630	951	1,029	2,372	1,985	3,003	3,427	4,182	2,683
Renovations in buildings constructed before 2008 (more than one may apply)									
Any type of renovation	42,216	2,820	3,378	5,712	5,407	6,912	6,095	6,871	5,021
Addition or annex	13,022	504	744	1,315	1,546	2,408	1,792	2,794	1,920
Reduction in floorspace	1,753	119	Q	Q	Q	Q	Q	342	240
Roof replacement	20,917	1,317	1,609	2,852	2,162	3,345	2,628	3,929	3,075
Exterior wall replacement	4,230	317	250	539	472	535	565	711	841
Interior wall reconfiguration	21,340	1,213	1,341	2,463	2,677	3,501	2,857	4,208	3,081
Window replacement	12,265	735	868	1,609	1,671	2,118	1,536	1,944	1,783
HVAC equipment upgrade	26,779	1,353	1,751	3,263	3,300	4,288	4,121	4,776	3,928
Lighting upgrade	25,503	1,221	1,584	2,678	2,838	4,269	3,685	5,025	4,202
Electrical upgrade	16,160	1,066	1,121	1,944	1,757	2,497	2,001	3,185	2,590
Plumbing system upgrade	13,828	908	1,010	1,505	1,722	2,329	1,159	2,860	2,335
Insulation upgrade	7,607	563	560	1,057	968	1,264	767	1,251	1,178
Fire, safety, or security upgrade	17,196	803	969	1,715	1,869	2,868	2,242	3,515	3,215
Structural upgrade	3,913	175	255	509	Q	679	426	663	819
Other	848	Q	Q	Q	Q	Q	Q	Q	Q
No renovations	39,154	4,852	4,941	7,479	5,742	5,896	5,073	3,274	1,897
Buildings constructed 2008 or later	5,723	369	581	914	768	1,110	1,248	578	Q

Table B7. Building size, floorspace, 2012

	Total floorspace (million square feet)								
	Building size								
	1,001 to 5,000 square feet	5,001 to 10,000 square feet	10,001 to 25,000 square feet	25,001 to 50,000 square feet	50,001 to 100,000 square feet	100,001 to 200,000 square feet	200,001 to 500,000 square feet	Over 500,000 square feet	
All buildings	87,093	8,041	8,900	14,105	11,917	13,918	12,415	10,724	7,074
Energy sources <i>(more than one may apply)</i>									
Electricity	84,869	7,492	8,489	13,565	11,672	13,604	12,362	10,652	7,033
Natural gas	58,725	3,757	4,817	8,823	8,148	9,935	9,416	8,293	5,535
Fuel oil	20,200	604	559	1,123	1,490	2,822	2,858	5,370	5,374
District heat	5,964	Q	Q	Q	213	704	1,313	1,565	2,001
District chilled water	4,608	Q	Q	145	Q	567	1,273	1,064	1,306
Propane	7,706	762	959	1,124	920	1,042	1,061	959	879
Other	3,826	193	303	486	520	566	564	809	384
Space-heating energy sources <i>(more than one may apply)</i>									
Electricity	49,030	4,185	4,384	7,716	6,897	8,668	7,321	5,991	3,869
Natural gas	49,511	3,323	4,343	7,989	7,228	8,524	7,507	6,990	3,608
Fuel oil	4,351	412	366	725	576	698	548	632	394
District heat	5,925	Q	Q	Q	213	704	1,313	1,553	1,974
Propane	3,067	538	682	767	329	Q	Q	Q	Q
Other	1,010	129	213	Q	Q	Q	Q	Q	Q
Primary space-heating energy source									
Electricity	26,205	2,766	2,865	4,433	3,871	4,892	3,646	2,129	1,603
Natural gas	42,988	3,050	3,802	6,957	6,174	6,844	6,624	6,487	3,050
Fuel oil	2,542	329	280	509	Q	413	348	Q	Q
District heat	5,797	Q	Q	Q	213	704	1,283	1,472	1,956
Propane	1,948	444	493	556	Q	Q	Q	Q	N
Other	598	93	Q	Q	Q	Q	Q	Q	N
Cooling energy sources <i>(more than one may apply)</i>									
Electricity	76,034	6,107	7,252	12,211	10,615	12,618	11,034	9,887	6,310
Natural gas	732	Q	Q	Q	Q	Q	Q	Q	167
District chilled water	4,608	Q	Q	145	Q	567	1,273	1,064	1,306
Water-heating energy sources <i>(more than one may apply)</i>									
Electricity	42,755	3,881	4,348	6,926	5,975	6,672	6,162	5,005	3,786
Natural gas	39,523	2,081	2,809	5,657	5,643	7,528	6,819	5,995	2,990
Fuel oil	1,911	Q	Q	Q	Q	Q	238	370	215
District heat	4,551	Q	Q	Q	Q	425	965	1,318	1,652
Propane	1,575	171	321	376	Q	Q	Q	Q	Q
Cooking energy sources <i>(more than one may apply)</i>									
Electricity	25,151	1,351	1,625	2,651	2,279	4,530	4,204	4,658	3,854
Natural gas	24,770	819	1,252	2,124	2,271	4,526	4,677	5,172	3,930
Propane	2,001	242	281	253	Q	367	Q	Q	Q

Table B7. Building size, floorspace, 2012

	Total floorspace (million square feet)								
	Building size								
	1,001 to 5,000 square feet	5,001 to 10,000 square feet	10,001 to 25,000 square feet	25,001 to 50,000 square feet	50,001 to 100,000 square feet	100,001 to 200,000 square feet	200,001 to 500,000 square feet	Over 500,000 square feet	
All buildings	87,093	8,041	8,900	14,105	11,917	13,918	12,415	10,724	7,074
Energy end uses <i>(more than one may apply)</i>									
Buildings with space heating	80,078	6,699	7,590	12,744	10,911	13,114	11,941	10,348	6,730
Buildings with cooling	79,294	6,124	7,304	12,357	10,813	13,069	12,152	10,518	6,958
Buildings with water heating	79,015	6,102	7,236	12,401	11,007	13,063	11,903	10,351	6,951
Buildings with cooking	38,546	2,073	2,733	4,134	3,858	6,870	6,587	6,969	5,322
Buildings with manufacturing	5,078	284	542	855	1,022	761	691	665	Q
Buildings with electricity generation	25,642	321	596	1,008	2,032	4,139	5,050	6,665	5,830
Percent of floorspace heated									
Not heated	7,015	1,342	1,310	1,360	1,007	804	474	Q	Q
1 to 50	10,130	951	1,387	2,365	1,292	1,359	1,146	1,131	500
51 to 99	14,650	914	1,338	2,048	1,657	2,469	2,163	2,202	1,859
100	55,298	4,833	4,866	8,332	7,962	9,287	8,632	7,015	4,371
Percent of floorspace cooled									
Not cooled	7,799	1,917	1,596	1,747	1,105	849	Q	Q	Q
1 to 50	18,891	1,430	2,249	3,943	3,123	2,489	2,432	2,150	1,076
51 to 99	22,728	935	1,738	2,766	2,679	4,077	3,496	4,007	3,029
100	37,676	3,759	3,316	5,648	5,011	6,503	6,225	4,360	2,853
Percent lit when open									
Zero	322	156	Q	Q	Q	N	N	Q	N
1 to 50	12,628	1,680	1,879	2,824	1,885	1,956	1,141	837	Q
51 to 99	34,814	1,924	3,060	5,326	4,519	6,445	5,539	5,220	2,781
100	35,726	3,474	3,151	5,070	5,071	5,043	5,560	4,552	3,806
Building never open/electricity not used	3,603	807	727	829	Q	Q	Q	Q	Q
Percent lit during off hours									
Zero	24,746	4,000	4,256	5,728	3,411	2,617	2,976	1,087	671
1 to 50	50,753	3,068	3,798	7,104	7,515	9,677	7,717	7,294	4,580
51 to 100	6,926	280	319	424	557	1,060	1,231	1,661	1,394
Building always open with no "off hours"	2,443	144	Q	309	Q	Q	437	610	388
Electricity not used	2,225	550	411	539	Q	Q	Q	Q	Q
Heating equipment (more than one may apply)									
Heat pumps	11,846	868	1,038	1,477	1,642	2,664	1,549	1,527	1,080
Furnaces	8,654	1,091	1,416	2,233	1,439	1,042	683	466	284
Individual space heaters	20,766	1,747	2,025	3,115	3,021	2,763	2,915	2,970	2,211
District heat	5,925	Q	Q	Q	213	704	1,313	1,553	1,974
Boilers	22,443	400	734	2,008	2,707	4,938	4,258	4,970	2,430
Packaged heating units	49,188	3,809	4,622	8,246	7,237	8,489	7,569	5,991	3,225
Other	1,574	Q	Q	Q	Q	541	Q	Q	Q

Table B7. Building size, floorspace, 2012

	Total floorspace (million square feet)								
	Building size								
	1,001 to 5,000 square feet	5,001 to 10,000 square feet	10,001 to 25,000 square feet	25,001 to 50,000 square feet	50,001 to 100,000 square feet	100,001 to 200,000 square feet	200,001 to 500,000 square feet	Over 500,000 square feet	
All buildings	87,093	8,041	8,900	14,105	11,917	13,918	12,415	10,724	7,074
Cooling equipment (more than one may apply)									
Residential-type central air conditioners	14,765	2,350	2,968	3,883	2,526	1,395	895	610	Q
Heat pumps	12,538	983	1,193	1,457	1,866	2,825	1,718	1,422	1,073
Individual air conditioners	12,420	1,027	972	1,855	1,606	1,956	1,652	2,091	1,262
District chilled water	4,608	Q	Q	145	Q	567	1,273	1,064	1,306
Central chillers	17,041	Q	Q	631	1,095	2,724	3,211	5,127	4,145
Packaged air conditioning units	45,153	2,154	3,082	6,557	6,466	8,705	7,447	6,702	4,039
Swamp coolers	1,918	155	Q	Q	Q	441	Q	Q	Q
Other	328	Q	N	Q	Q	Q	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)									
Heating	27,558	2,710	3,029	5,048	4,041	4,376	3,564	3,228	1,562
Cooling	30,702	2,797	3,246	5,184	4,358	4,623	3,895	4,201	2,397
Water-heating equipment									
Centralized system	47,534	4,906	5,731	8,549	7,125	7,181	6,120	4,924	2,998
Distributed system	12,688	1,011	890	2,318	1,983	1,904	1,846	1,516	1,220
Combination of centralized and distributed system	18,793	185	615	1,534	1,899	3,978	3,937	3,911	2,734
Lighting equipment types (more than one may apply)									
Incandescent	38,406	2,453	2,917	4,987	4,788	6,218	6,239	6,002	4,803
Standard fluorescent	80,081	6,466	7,589	12,533	11,063	13,217	11,745	10,552	6,915
Compact fluorescent	53,816	2,815	3,740	6,767	6,970	9,652	9,078	8,775	6,021
High-intensity discharge	23,396	373	736	2,175	2,712	3,766	4,244	4,981	4,409
Halogen	28,059	944	1,487	2,903	3,556	4,989	4,605	5,161	4,413
LED	22,071	348	714	1,882	2,252	3,479	3,919	4,866	4,612
Other	446	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration equipment (more than one may apply)									
Any refrigeration	73,645	5,448	6,565	11,012	9,901	12,334	11,371	10,080	6,935
Walk-in units	28,361	1,039	1,103	1,837	2,247	5,193	5,729	6,233	4,981
Cases or cabinets	28,719	1,132	1,350	2,276	2,693	4,840	5,326	6,333	4,768
Large cold storage areas	4,171	Q	Q	Q	Q	718	825	1,139	804
Commercial ice makers	32,734	851	1,248	2,424	3,017	6,276	6,236	7,022	5,660
Residential-type or compact units	62,381	4,571	5,741	9,307	8,558	10,393	9,530	8,371	5,910
Vending machines	43,936	531	1,252	3,940	5,558	8,174	9,288	8,881	6,311
No refrigeration	13,448	2,593	2,335	3,093	2,017	1,584	1,044	643	Q

Table B7. Building size, floorspace, 2012

	Total floorspace (million square feet)								
	Building size								
	1,001 to 5,000 square feet	5,001 to 10,000 square feet	10,001 to 25,000 square feet	25,001 to 50,000 square feet	50,001 to 100,000 square feet	100,001 to 200,000 square feet	200,001 to 500,000 square feet	Over 500,000 square feet	
All buildings	87,093	8,041	8,900	14,105	11,917	13,918	12,415	10,724	7,074
All buildings	87,093	8,041	8,900	14,105	11,917	13,918	12,415	10,724	7,074
Office equipment <i>(more than one may apply)</i>									
Desktop computers	77,063	5,205	6,719	11,823	10,689	13,267	11,937	10,435	6,987
With flat screen monitors	76,160	4,970	6,465	11,674	10,601	13,147	11,885	10,435	6,982
With multiple monitors	30,946	776	1,648	3,238	3,594	5,464	5,117	5,908	5,201
Laptop computers	63,486	3,216	4,689	8,677	9,042	11,127	10,027	9,800	6,907
Dedicated servers	53,369	1,685	2,956	6,120	7,120	10,092	9,540	9,339	6,516
Laser printers	54,256	2,724	3,953	7,407	7,363	9,874	9,066	7,815	6,054
Inkjet printers	36,235	3,047	3,932	6,046	5,194	5,475	5,144	4,920	2,476
FAX machines	66,682	4,014	5,342	9,674	9,446	11,540	10,999	9,157	6,511
Photocopiers	59,277	2,210	3,478	7,873	8,247	10,930	10,451	9,504	6,583
Number of desktop computers									
None	10,030	2,836	2,181	2,281	1,228	651	478	Q	Q
1 to 4	15,669	3,502	3,440	4,422	1,878	1,102	1,095	Q	N
5 to 9	9,422	1,179	1,787	2,497	1,808	1,124	746	Q	Q
10 to 19	9,388	458	889	2,166	1,965	2,049	1,309	453	Q
20 to 49	13,094	Q	579	1,970	2,480	3,453	2,409	1,629	518
50 to 99	8,284	Q	Q	682	1,768	2,113	1,492	1,565	637
100 to 249	9,728	N	Q	Q	741	2,743	2,806	1,847	1,499
250 or more	11,478	N	N	N	Q	682	2,081	4,474	4,191
Number of laptop computers									
None	23,607	4,825	4,211	5,427	2,875	2,791	2,388	923	Q
1 to 4	21,161	2,919	3,624	5,623	3,383	2,391	1,855	1,097	Q
5 to 9	8,345	244	750	1,358	1,921	1,800	1,292	601	Q
10 to 19	8,343	Q	253	900	1,561	2,057	1,510	1,327	690
20 to 49	9,643	Q	Q	498	1,566	2,523	1,939	1,826	1,221
50 to 99	5,234	N	N	Q	451	1,231	1,402	933	962
100 to 249	5,217	N	N	Q	Q	827	1,345	1,928	962
250 or more	5,542	N	N	Q	Q	Q	683	2,088	2,425
Number of dedicated servers									
None	33,724	6,356	5,944	7,984	4,797	3,826	2,875	1,384	558
1 to 4	34,097	1,658	2,867	5,441	5,844	7,310	5,840	3,516	1,621
5 to 9	6,241	Q	Q	494	704	1,247	1,407	1,516	789
10 to 19	5,711	Q	Q	Q	372	777	1,392	1,854	1,179
20 to 49	3,758	N	Q	Q	Q	575	424	1,243	1,261
50 or more	3,562	N	Q	N	Q	Q	477	1,210	1,666
Number of photocopiers									
None	27,816	5,831	5,422	6,231	3,671	2,988	1,964	1,219	490
One	17,080	1,815	2,382	4,336	2,818	2,479	2,284	625	Q
2 to 4	20,312	368	1,012	3,098	3,768	5,164	3,822	2,436	644
5 to 9	8,863	Q	Q	351	1,244	1,891	2,104	2,357	851
10 or more	13,022	Q	Q	Q	416	1,396	2,242	4,087	4,747

Table B7. Building size, floorspace, 2012

	Total floorspace (million square feet)								
	Building size								
	1,001 to 5,000 square feet	5,001 to 10,000 square feet	10,001 to 25,000 square feet	25,001 to 50,000 square feet	50,001 to 100,000 square feet	100,001 to 200,000 square feet	200,001 to 500,000 square feet	Over 500,000 square feet	
All buildings	87,093	8,041	8,900	14,105	11,917	13,918	12,415	10,724	7,074
Number of TVs or video displays									
None	24,339	4,604	4,079	5,439	3,612	2,722	2,067	1,224	593
One	9,990	1,908	1,947	2,434	1,355	1,110	821	Q	Q
2 to 4	16,465	1,160	2,057	3,690	3,530	2,690	1,742	1,193	Q
5 to 9	8,148	314	595	1,204	1,053	1,962	1,565	979	477
10 to 19	8,168	Q	Q	678	964	2,276	1,853	1,539	676
20 to 49	8,058	Q	Q	452	851	1,680	1,991	2,055	964
50 to 99	4,378	N	Q	Q	372	626	1,368	1,226	583
100 or more	7,547	N	N	Q	Q	852	1,008	2,188	3,280
Food preparation or serving areas in non-food service buildings (more than one may apply)									
Snack bar or concession stand	9,884	139	239	418	507	1,033	2,200	2,497	2,852
Fast food or small restaurant	9,787	131	307	541	749	1,375	1,859	2,223	2,601
Cafeteria or large restaurant	15,222	Q	Q	243	892	3,133	3,294	3,890	3,728
Commercial kitchen/ food preparation area	16,150	142	394	1,224	1,403	3,136	3,110	3,888	2,852
Small kitchen area	14,054	972	1,325	2,055	1,698	2,178	1,921	2,003	1,901
Separate computer areas (more than one may apply)									
Data center or server farm	11,105	Q	Q	Q	619	1,090	1,859	3,747	3,452
Computer-based training room	17,723	102	223	856	1,619	3,093	3,717	4,586	3,527
Student or public computer center	14,341	101	255	862	1,352	3,495	3,482	3,614	1,180
HVAC conservation features (more than one may apply)									
Economizer cycle	30,749	398	720	2,280	2,924	5,905	6,350	7,119	5,053
Regular HVAC maintenance	69,244	3,875	5,175	9,894	9,902	11,857	11,348	10,269	6,924
Building automation system (BAS) ²	37,051	630	972	2,613	3,473	7,262	8,451	7,883	5,767
Window and interior lighting features (more than one may apply)									
Multipaned windows	60,362	3,852	5,164	8,620	8,605	10,660	9,407	8,629	5,425
Tinted window glass	45,025	2,215	3,008	5,833	6,571	7,933	7,434	7,431	4,600
Reflective window glass	15,908	573	969	1,680	1,847	3,086	2,581	2,897	2,276
External overhangs or awnings	32,188	2,530	3,275	5,157	4,097	5,423	4,501	4,217	2,987
Skylights or atriums	22,261	425	1,115	2,385	2,199	3,777	4,397	4,505	3,459
Light scheduling	30,263	984	1,417	2,928	3,730	5,570	5,355	5,378	4,903
Occupancy sensors	35,871	527	1,171	3,177	4,019	6,912	7,381	6,851	5,832
Multi-level lighting or dimming	14,534	237	576	1,169	1,663	2,647	2,467	3,563	2,211
Daylight harvesting	6,114	100	Q	432	560	971	1,492	1,191	1,244
Demand responsive lighting	4,738	154	340	639	655	703	912	777	557
Building automation system (BAS) for lighting ²	12,068	135	288	693	1,040	2,270	2,583	2,644	2,413

Table B7. Building size, floorspace, 2012

	Total floorspace (million square feet)								
	Building size								
	All buildings	1,001 to 5,000 square feet	5,001 to 10,000 square feet	10,001 to 25,000 square feet	25,001 to 50,000 square feet	50,001 to 100,000 square feet	100,001 to 200,000 square feet	200,001 to 500,000 square feet	Over 500,000 square feet
All buildings	87,093	8,041	8,900	14,105	11,917	13,918	12,415	10,724	7,074
Equipment usage reduced when building not in full use (more than one may apply)									
Heating	63,167	5,154	6,085	9,898	8,637	10,459	9,938	7,956	5,040
Cooling	62,516	4,759	5,907	9,726	8,428	10,424	10,135	7,828	5,309
Lighting	78,594	6,738	7,814	12,689	10,841	12,653	11,576	9,753	6,531

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.

Release date: February 2015

Revised date: May 2016

Table B8. Year constructed, number of buildings, 2012

	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 2007	2008 to 2012	
All buildings	5,557	850	599	639	684	915	845	722	303	
Building floorspace (square feet)										
1,001 to 5,000	2,777	502	352	290	336	415	425	339	119	
5,001 to 10,000	1,229	160	112	158	148	231	197	145	78	
10,001 to 25,000	884	121	81	109	118	152	119	124	57	
25,001 to 50,000	332	39	24	40	45	66	44	52	22	
50,001 to 100,000	199	16	18	26	22	26	39	37	16	
100,001 to 200,000	90	8	7	10	10	14	14	18	9	
200,001 to 500,000	38	3	4	5	4	9	6	5	2	
Over 500,000	8	1	(*)	1	1	2	1	1	Q	
Principal building activity										
Education	389	40	48	61	38	47	64	70	21	
Food sales	177	Q	Q	Q	Q	30	40	Q	Q	
Food service	380	70	39	36	50	54	65	42	Q	
Health care	157	15	12	17	28	34	22	19	10	
Inpatient	10	Q	1	1	3	1	1	1	1	
Outpatient	147	Q	Q	17	25	33	20	18	Q	
Lodging	158	16	17	27	24	24	25	16	9	
Mercantile	602	102	59	64	83	98	77	81	38	
Retail (other than mall)	438	100	47	45	45	66	56	55	25	
Enclosed and strip malls	164	Q	12	19	38	32	21	26	Q	
Office	1,012	170	111	102	132	192	139	123	44	
Public assembly	352	86	45	39	37	37	51	34	23	
Public order and safety	84	Q	Q	Q	Q	Q	16	Q	Q	
Religious worship	412	85	57	52	52	58	40	55	Q	
Service	619	87	67	94	78	99	97	67	30	
Warehouse and storage	796	73	55	65	88	160	163	134	58	
Other	125	Q	Q	Q	Q	25	24	25	Q	
Vacant	296	75	64	33	32	43	21	Q	Q	
Census region										
Northeast	805	237	96	100	75	86	90	83	38	
Midwest	1,237	247	110	159	160	172	203	130	57	
South	2,247	232	229	232	274	427	385	322	147	
West	1,267	134	164	148	176	231	168	187	61	
Climate region¹										
Very cold/Cold	2,031	425	205	229	257	275	309	229	100	
Mixed-humid	1,743	273	187	193	202	274	289	224	102	
Mixed-dry/Hot-dry	837	75	129	105	104	153	84	135	Q	
Hot-humid	799	55	62	89	106	185	143	120	38	
Marine	147	21	Q	Q	Q	Q	19	Q	Q	

Table B8. Year constructed, number of buildings, 2012

	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 2007	2008 to 2012	
All buildings	5,557	850	599	639	684	915	845	722	303	
Number of floors										
One	3,836	317	419	423	515	699	690	538	235	
Two	1,158	252	130	170	136	171	109	149	41	
Three	374	198	32	27	20	27	31	24	15	
Four to nine	177	80	18	18	11	15	13	10	11	
Ten or more	13	3	1	2	2	3	1	1	Q	
Elevators and escalators (more than one may apply)										
Any elevators	405	79	28	46	41	53	54	66	37	
Number of elevators										
One	272	63	17	32	28	28	36	46	22	
Two to five	118	15	10	11	12	21	17	18	14	
Six or more	16	2	1	2	2	3	2	2	1	
Any escalators	10	Q	Q	1	1	1	1	1	Q	
Number of workers (main shift)										
Fewer than 5	2,892	558	380	316	329	435	421	329	123	
5 to 9	1,085	146	96	133	145	178	168	143	76	
10 to 19	731	68	59	81	107	131	124	111	50	
20 to 49	513	48	32	68	65	105	85	80	30	
50 to 99	206	18	25	26	21	38	30	34	13	
100 to 249	93	8	6	12	12	19	12	18	7	
250 or more	37	4	2	2	6	9	6	6	2	
Weekly operating hours										
Fewer than 40	1,149	275	172	113	147	151	147	112	32	
40 to 48	1,346	219	154	173	159	227	190	173	52	
49 to 60	1,244	138	126	147	156	238	189	168	81	
61 to 84	764	112	66	96	93	114	124	108	51	
85 to 167	479	53	44	46	59	77	87	73	39	
Open continuously	575	52	38	63	70	108	108	88	48	
Ownership and occupancy										
Nongovernment owned	4,781	734	514	528	596	805	731	612	260	
Owner occupied	2,466	434	258	264	311	344	386	327	143	
Leased to tenant(s)	1,745	208	164	199	219	350	283	231	90	
Owner occupied and leased	349	44	38	36	39	80	51	41	21	
Unoccupied	221	49	54	29	27	Q	Q	Q	Q	
Government owned	776	116	85	111	88	110	114	110	42	
Federal	33	Q	Q	Q	Q	Q	3	Q	N	
State	185	24	25	36	24	24	18	23	Q	
Local	558	87	60	68	59	78	93	80	33	

Table B8. Year constructed, number of buildings, 2012

Table B8. Year constructed, number of buildings, 2012

Table B8. Year constructed, number of buildings, 2012

	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 2007	2008 to 2012	
All buildings	5,557	850	599	639	684	915	845	722	303	
Energy sources (more than one may apply)										
Electricity	5,234	795	554	609	651	856	762	711	296	
Natural gas	2,933	490	334	401	406	431	407	326	138	
Fuel oil	467	100	53	75	58	50	51	53	27	
District heat	48	12	5	9	10	2	3	6	Q	
District chilled water	54	Q	Q	11	9	3	10	11	Q	
Propane	510	80	49	54	62	52	89	92	31	
Other	172	38	15	20	24	21	19	19	Q	
Space-heating energy sources (more than one may apply)										
Electricity	2,858	356	320	308	370	513	398	413	182	
Natural gas	2,612	452	310	357	353	383	352	279	126	
Fuel oil	270	78	39	52	21	19	23	28	Q	
District heat	48	12	5	9	10	2	3	6	Q	
Propane	342	60	32	27	48	36	59	58	Q	
Other	101	26	Q	Q	Q	Q	Q	Q	Q	
Primary space-heating energy source										
Electricity	1,819	181	187	161	219	363	269	306	133	
Natural gas	2,322	424	266	326	311	336	320	237	103	
Fuel oil	205	65	29	37	Q	Q	20	Q	Q	
District heat	47	12	5	9	10	2	2	6	Q	
Propane	261	40	Q	Q	34	28	56	42	Q	
Other	67	Q	Q	Q	Q	Q	Q	Q	Q	
Cooling energy sources (more than one may apply)										
Electricity	4,413	639	472	528	555	727	654	606	232	
Natural gas	12	Q	Q	Q	Q	Q	Q	Q	Q	
District chilled water	54	Q	Q	11	9	3	10	11	Q	
Water-heating energy sources (more than one may apply)										
Electricity	2,658	360	267	278	342	495	377	393	145	
Natural gas	1,758	280	189	269	245	243	249	200	83	
Fuel oil	77	28	Q	14	Q	Q	Q	Q	Q	
District heat	25	7	2	5	4	1	2	Q	Q	
Propane	142	Q	Q	Q	Q	21	30	22	Q	
Cooking energy sources (more than one may apply)										
Electricity	1,010	166	109	108	130	148	145	144	60	
Natural gas	740	118	96	105	93	103	113	78	34	
Propane	144	Q	19	Q	14	9	27	31	Q	

Table B8. Year constructed, number of buildings, 2012

	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 2007	2008 to 2012	
All buildings	5,557	850	599	639	684	915	845	722	303	
Energy end uses (more than one may apply)										
Buildings with space heating	4,722	736	517	559	599	754	675	613	270	
Buildings with cooling	4,461	641	477	538	563	730	663	613	235	
Buildings with water heating	4,423	669	460	540	577	727	631	587	231	
Buildings with cooking	1,589	269	189	188	195	221	232	210	84	
Buildings with manufacturing	259	34	21	25	32	51	31	48	Q	
Buildings with electricity generation	410	36	24	57	60	59	63	69	42	
Percent of floorspace heated										
Not heated	835	114	83	80	85	161	170	109	33	
1 to 50	697	107	81	74	101	134	101	69	30	
51 to 99	727	144	85	82	76	121	94	87	37	
100	3,298	484	350	403	421	500	480	457	203	
Percent of floorspace cooled										
Not cooled	1,096	209	122	100	121	185	182	109	68	
1 to 50	1,173	199	141	136	148	203	157	138	51	
51 to 99	897	161	93	106	109	130	128	124	46	
100	2,391	281	243	297	306	397	378	352	137	
Percent lit when open										
Zero	70	Q	Q	Q	Q	Q	Q	Q	Q	
1 to 50	1,099	236	130	123	124	179	120	135	52	
51 to 99	1,666	243	183	217	232	249	223	226	92	
100	2,222	264	208	258	268	399	387	307	130	
Building never open/electricity not used	501	102	74	42	58	77	108	Q	Q	
Percent lit during off hours										
Zero	2,489	417	288	258	281	407	367	335	135	
1 to 50	2,441	357	247	312	333	393	335	321	143	
51 to 100	202	21	17	32	22	32	44	29	5	
Building always open with no "off hours"	102	Q	Q	Q	14	24	17	26	Q	
Electricity not used	323	55	45	Q	34	59	83	Q	Q	
Heating equipment (more than one may apply)										
Heat pumps	628	68	70	61	57	126	102	99	46	
Furnaces	755	112	76	88	107	138	118	81	36	
Individual space heaters	1,247	249	170	160	185	167	139	117	60	
District heat	48	12	5	9	10	2	3	6	Q	
Boilers	544	132	75	91	59	49	50	60	28	
Packaged heating units	2,802	382	283	343	370	442	421	397	163	
Other	62	Q	Q	Q	Q	Q	11	Q	Q	

Table B8. Year constructed, number of buildings, 2012

	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 2007	2008 to 2012	
All buildings	5,557	850	599	639	684	915	845	722	303	
Cooling equipment (more than one may apply)										
Residential-type central air conditioners	1,546	269	145	192	203	234	235	192	76	
Heat pumps	692	69	76	71	67	137	124	98	50	
Individual air conditioners	709	184	109	89	86	87	78	63	12	
District chilled water	54	Q	Q	11	9	3	10	11	Q	
Central chillers	163	17	18	25	21	26	22	20	15	
Packaged air conditioning units	1,909	202	185	241	258	341	271	301	110	
Swamp coolers	109	16	Q	13	16	13	15	13	Q	
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	N
Main equipment replaced since 1990 (more than one may apply)										
Heating	1,874	447	307	328	360	431	N	N	N	
Cooling	1,971	463	327	358	362	462	N	N	N	
Water-heating equipment										
Centralized system	3,348	520	356	427	435	527	498	424	161	
Distributed system	690	108	78	60	87	139	86	92	39	
Combination of centralized and distributed system	385	41	26	53	55	61	48	70	30	
Lighting equipment types (more than one may apply)										
Incandescent	1,826	371	196	234	256	281	217	203	69	
Standard fluorescent	4,649	660	489	574	588	787	671	632	249	
Compact fluorescent	2,302	356	243	268	299	343	342	310	142	
High-intensity discharge	525	54	39	73	66	98	75	90	31	
Halogen	905	148	81	101	95	149	123	143	64	
LED	473	67	43	50	52	80	56	74	51	
Other	10	Q	N	Q	Q	Q	Q	Q	Q	
Refrigeration equipment (more than one may apply)										
Any refrigeration	3,984	600	433	476	498	626	595	535	220	
Walk-in units	811	97	71	101	115	132	132	115	48	
Cases or cabinets	915	137	79	109	107	132	156	131	65	
Large cold storage areas	78	Q	Q	9	7	17	14	12	Q	
Commercial ice makers	846	76	75	100	101	147	160	112	74	
Residential-type or compact units	3,388	529	377	410	427	528	481	451	185	
Vending machines	960	70	89	138	135	169	149	148	62	
No refrigeration	1,573	250	166	163	187	289	250	187	83	

Table B8. Year constructed, number of buildings, 2012

	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 2007	2008 to 2012	
All buildings	5,557	850	599	639	684	915	845	722	303	
Office equipment (more than one may apply)										
Desktop computers	3,977	553	400	495	494	675	579	563	219	
With flat screen monitors	3,847	517	385	477	481	664	559	549	215	
With multiple monitors	911	99	70	104	118	183	125	147	66	
Laptop computers	2,730	381	271	336	349	470	377	394	152	
Dedicated servers	1,748	202	167	205	233	330	239	267	106	
Laser printers	2,339	312	224	297	284	400	350	342	131	
Inkjet printers	2,187	291	231	278	293	359	341	279	115	
FAX machines	3,185	425	324	369	410	579	473	440	164	
Photocopiers	2,163	273	199	268	294	391	312	312	114	
Number of desktop computers										
None	1,581	297	200	144	190	240	267	160	84	
1 to 4	2,039	366	227	240	245	317	276	262	106	
5 to 9	821	99	75	117	107	143	126	108	44	
10 to 19	482	30	43	64	60	77	86	92	31	
20 to 49	355	26	25	36	43	87	57	57	24	
50 to 99	143	19	17	18	22	24	16	21	Q	
100 to 249	92	10	8	14	11	16	10	16	6	
250 or more	44	3	4	5	6	10	7	7	3	
Number of laptop computers										
None	2,827	469	328	303	335	445	468	328	150	
1 to 4	1,944	309	196	239	252	305	264	268	109	
5 to 9	350	29	34	44	49	70	54	53	Q	
10 to 19	181	14	18	16	18	43	24	35	12	
20 to 49	144	14	13	21	17	33	19	19	Q	
50 to 99	58	8	6	6	7	11	8	8	4	
100 to 249	35	5	1	8	3	4	5	7	Q	
250 or more	20	2	3	1	2	4	3	3	2	
Number of dedicated servers										
None	3,809	648	433	434	451	585	607	455	197	
1 to 4	1,562	186	154	190	209	284	214	233	91	
5 to 9	97	7	7	8	15	25	11	16	Q	
10 to 19	50	6	2	5	4	12	8	10	Q	
20 to 49	25	Q	Q	1	3	7	4	4	Q	
50 or more	13	1	1	Q	2	2	1	3	Q	
Number of photocopiers										
None	3,394	577	401	371	390	524	533	410	189	
One	1,325	180	143	158	188	228	185	183	61	
2 to 4	648	72	41	91	84	113	105	102	41	
5 to 9	116	9	9	10	13	37	12	19	Q	
10 or more	75	12	5	9	9	14	11	9	6	

Table B8. Year constructed, number of buildings, 2012

	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 2007	2008 to 2012	
All buildings	5,557	850	599	639	684	915	845	722	303	
Number of TVs or video displays										
None	2,718	453	326	281	334	445	423	318	137	
One	1,145	177	122	146	141	199	182	136	41	
2 to 4	1,035	144	94	124	123	166	131	173	80	
5 to 9	314	46	25	40	37	43	55	46	22	
10 to 19	154	21	16	15	24	30	21	17	10	
20 to 49	106	6	9	16	13	19	17	18	6	
50 to 99	48	Q	6	8	6	5	10	8	Q	
100 or more	37	1	2	8	5	7	6	6	3	
Food preparation or serving areas in non-food service buildings (more than one may apply)										
Snack bar or concession stand	153	13	18	19	22	28	25	19	10	
Fast food or small restaurant	173	8	9	29	23	29	32	28	15	
Cafeteria or large restaurant	130	11	17	20	19	17	20	19	6	
Commercial kitchen/ food preparation area	282	36	32	39	30	38	43	47	18	
Small kitchen area	736	154	96	83	90	102	92	89	29	
Separate computer areas (more than one may apply)										
Data center or server farm	97	6	6	10	15	25	11	16	8	
Computer-based training room	244	19	24	25	34	39	33	48	21	
Student or public computer center	238	19	27	39	31	44	33	35	11	
HVAC conservation features (more than one may apply)										
Economizer cycle	601	54	62	67	73	84	92	114	54	
Regular HVAC maintenance	3,178	398	317	397	391	549	466	467	193	
Building automation system (BAS) ²	781	57	68	108	82	99	114	162	90	
Window and interior lighting features (more than one may apply)										
Multipaned windows	3,012	389	256	315	362	490	486	497	218	
Tinted window glass	1,875	172	155	203	260	370	292	305	118	
Reflective window glass	549	54	48	52	60	102	80	102	51	
External overhangs or awnings	1,867	251	210	248	249	287	266	246	112	
Skylights or atriums	591	61	37	73	69	139	93	92	27	
Light scheduling	918	87	78	100	113	150	173	143	74	
Occupancy sensors	813	60	87	82	94	139	98	157	96	
Multi-level lighting or dimming	349	49	29	30	43	53	42	69	34	
Daylight harvesting	125	18	13	12	12	19	11	22	18	
Demand responsive lighting	176	21	14	25	28	28	18	28	Q	
Building automation system (BAS) for lighting ²	208	4	14	18	25	29	40	46	32	

Table B8. Year constructed, number of buildings, 2012

	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 2007	2008 to 2012	
All buildings	5,557	850	599	639	684	915	845	722	303	
Equipment usage reduced when building not in full use (more than one may apply)										
Heating	3,699	573	412	451	473	595	526	453	217	
Cooling	3,517	508	374	430	457	581	515	463	187	
Lighting	4,757	733	503	570	598	781	690	625	257	

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.

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

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.

Release date: February 2015

Revised date: May 2016

Table B9. Year constructed, floorspace, 2012

	Total floorspace (million square feet)									
	Year constructed									
	All buildings	Before 1946	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2007	2008 to 2012	
All buildings	87,093	10,008	7,381	10,362	10,846	15,230	13,803	13,739	5,723	
Building floorspace (square feet)										
1,001 to 5,000	8,041	1,418	918	806	974	1,238	1,281	1,038	369	
5,001 to 10,000	8,900	1,154	793	1,149	1,069	1,655	1,461	1,038	581	
10,001 to 25,000	14,105	1,924	1,328	1,773	1,862	2,430	1,871	2,003	914	
25,001 to 50,000	11,917	1,407	829	1,469	1,557	2,362	1,628	1,897	768	
50,001 to 100,000	13,918	1,040	1,315	1,736	1,563	1,845	2,732	2,578	1,110	
100,001 to 200,000	12,415	1,162	927	1,333	1,488	1,872	1,882	2,504	1,248	
200,001 to 500,000	10,724	836	1,002	1,444	1,151	2,561	1,694	1,456	578	
Over 500,000	7,074	1,069	269	653	1,181	1,268	1,254	1,225	Q	
Principal building activity										
Education	12,239	1,382	1,447	2,180	1,178	1,268	1,655	2,327	802	
Food sales	1,252	Q	Q	Q	Q	157	292	Q	Q	
Food service	1,819	318	183	167	243	306	309	180	Q	
Health care	4,155	197	356	384	867	595	604	608	544	
Inpatient	2,374	Q	244	265	681	215	304	311	292	
Outpatient	1,781	Q	Q	119	186	380	301	298	Q	
Lodging	5,826	375	362	761	830	1,178	1,066	850	403	
Mercantile	11,330	639	657	1,029	1,573	2,275	2,085	2,168	902	
Retail (other than mall)	5,439	632	303	387	534	767	1,072	1,190	554	
Enclosed and strip malls	5,890	Q	354	642	1,039	1,508	1,013	978	Q	
Office	15,952	2,506	1,254	1,427	2,125	3,969	2,108	1,914	649	
Public assembly	5,559	1,020	521	866	586	599	890	718	360	
Public order and safety	1,440	Q	Q	Q	Q	Q	419	Q	Q	
Religious worship	4,557	703	612	704	378	547	651	765	Q	
Service	4,630	671	330	520	629	877	775	584	245	
Warehouse and storage	13,077	1,153	740	1,386	1,467	2,294	2,204	2,753	1,081	
Other	2,002	Q	Q	Q	Q	273	280	236	Q	
Vacant	3,256	680	348	305	454	712	464	Q	Q	
Census region										
Northeast	15,534	3,591	1,581	2,240	1,952	1,743	2,044	1,480	903	
Midwest	18,919	2,808	1,662	2,687	2,619	2,617	2,798	2,731	997	
South	34,279	2,485	2,634	3,499	3,693	6,942	6,172	6,154	2,701	
West	18,360	1,124	1,504	1,937	2,582	3,929	2,788	3,374	1,122	
Climate region¹										
Very cold/Cold	31,898	4,886	3,072	4,115	4,190	4,352	4,884	4,384	2,016	
Mixed-humid	27,873	3,425	2,489	3,440	3,137	4,411	4,458	4,503	2,011	
Mixed-dry/Hot-dry	12,037	777	1,023	1,514	1,690	2,334	1,565	2,227	908	
Hot-humid	12,831	715	604	974	1,598	3,397	2,553	2,266	724	
Marine	2,454	205	Q	318	232	737	344	359	Q	

Table B9. Year constructed, floorspace, 2012

	Total floorspace (million square feet)									
	Year constructed									
	All buildings	Before 1946	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2007	2008 to 2012	
All buildings	87,093	10,008	7,381	10,362	10,846	15,230	13,803	13,739	5,723	
Number of floors										
One	39,809	2,080	3,194	3,969	4,970	7,897	7,756	7,022	2,921	
Two	20,206	1,716	1,926	3,192	3,000	3,135	2,866	3,234	1,137	
Three	8,140	2,146	642	1,070	700	996	827	1,091	667	
Four to nine	13,535	3,079	1,404	1,364	1,332	1,899	1,708	1,879	871	
Ten or more	5,404	988	215	767	844	1,303	646	512	Q	
Elevators and escalators (more than one may apply)										
Any elevators	32,120	4,656	2,401	3,825	3,973	5,086	4,640	5,151	2,387	
Number of elevators										
One	11,158	1,967	974	1,438	1,226	1,117	1,624	2,062	750	
Two to five	12,817	1,491	1,037	1,409	1,528	2,271	1,873	1,956	1,252	
Six or more	8,145	1,198	390	979	1,219	1,698	1,143	1,133	385	
Any escalators	3,654	738	Q	375	576	722	534	542	Q	
Number of workers (main shift)										
Fewer than 5	17,751	3,338	1,890	2,109	2,100	2,678	2,546	2,138	954	
5 to 9	8,973	1,121	723	1,185	1,175	1,443	1,252	1,332	743	
10 to 19	9,623	844	755	1,167	1,425	1,566	1,686	1,469	711	
20 to 49	14,514	1,067	1,043	2,016	1,706	2,771	2,460	2,426	1,026	
50 to 99	13,476	1,293	1,472	1,610	1,171	2,371	2,305	2,298	955	
100 to 249	10,941	812	812	1,321	1,139	1,849	1,802	2,358	849	
250 or more	11,815	1,535	686	955	2,131	2,552	1,752	1,718	485	
Weekly operating hours										
Fewer than 40	8,220	1,783	962	909	1,178	1,109	1,223	784	272	
40 to 48	15,828	2,281	1,933	1,949	1,588	2,689	2,081	2,418	889	
49 to 60	20,529	2,113	1,550	2,353	2,393	4,379	3,263	3,216	1,263	
61 to 84	15,867	1,558	1,073	2,079	2,101	2,902	2,468	2,466	1,220	
85 to 167	9,395	913	713	1,112	1,041	1,094	1,395	2,381	745	
Open continuously	17,253	1,360	1,150	1,961	2,545	3,057	3,373	2,474	1,333	
Ownership and occupancy										
Nongovernment owned	67,550	7,187	5,253	7,070	8,539	13,074	10,757	10,940	4,729	
Owner occupied	30,637	3,420	2,918	3,356	3,618	4,465	5,366	5,244	2,251	
Leased to tenant(s)	26,115	2,366	1,458	2,554	3,578	5,961	4,076	4,365	1,757	
Owner occupied and leased	8,873	1,054	628	911	1,048	2,277	1,066	1,239	651	
Unoccupied	1,925	348	249	249	295	Q	Q	Q	Q	
Government owned	19,543	2,821	2,128	3,293	2,306	2,156	3,046	2,799	994	
Federal	1,573	588	Q	Q	Q	Q	277	Q	N	
State	5,539	761	679	991	895	580	687	709	Q	
Local	12,431	1,472	1,413	2,097	1,246	1,509	2,081	1,855	757	

Table B9. Year constructed, floorspace, 2012

Table B9. Year constructed, floorspace, 2012

Table B9. Year constructed, floorspace, 2012

	Total floorspace (million square feet)									
	Year constructed									
	All buildings	Before 1946	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2007	2008 to 2012	
All buildings	87,093	10,008	7,381	10,362	10,846	15,230	13,803	13,739	5,723	
Energy sources (more than one may apply)										
Electricity	84,869	9,667	7,208	10,198	10,556	14,791	13,118	13,678	5,653	
Natural gas	58,725	6,112	5,393	7,553	7,979	9,887	9,162	8,819	3,821	
Fuel oil	20,200	2,546	1,530	2,407	2,614	3,806	3,201	2,964	1,133	
District heat	5,964	1,428	446	1,002	930	449	642	866	Q	
District chilled water	4,608	601	203	923	811	310	664	915	Q	
Propane	7,706	585	525	921	880	1,214	1,339	1,682	559	
Other	3,826	455	415	490	499	591	572	598	Q	
Space-heating energy sources (more than one may apply)										
Electricity	49,030	4,611	3,836	5,387	5,931	9,378	7,947	8,258	3,683	
Natural gas	49,511	5,172	4,908	6,574	6,549	7,995	7,613	7,212	3,488	
Fuel oil	4,351	1,173	616	695	590	421	370	393	Q	
District heat	5,925	1,411	446	1,002	930	446	642	856	Q	
Propane	3,067	319	203	388	425	330	539	653	Q	
Other	1,010	211	Q	Q	Q	Q	Q	Q	Q	
Primary space-heating energy source										
Electricity	26,205	1,786	1,414	2,394	2,988	5,760	4,634	5,086	2,142	
Natural gas	42,988	4,756	4,453	5,802	5,484	6,868	6,478	6,240	2,908	
Fuel oil	2,542	870	378	292	Q	Q	258	Q	Q	
District heat	5,797	1,411	439	995	930	441	534	856	Q	
Propane	1,948	199	Q	Q	293	208	425	309	Q	
Other	598	Q	Q	Q	Q	Q	Q	Q	Q	
Cooling energy sources (more than one may apply)										
Electricity	76,034	7,989	6,569	8,962	9,440	13,830	11,924	12,185	5,135	
Natural gas	732	Q	Q	Q	Q	Q	Q	Q	Q	
District chilled water	4,608	601	203	923	811	310	664	915	Q	
Water-heating energy sources (more than one may apply)										
Electricity	42,755	4,215	2,829	4,423	4,854	8,845	6,946	7,791	2,852	
Natural gas	39,523	3,635	3,659	5,654	5,625	6,263	6,084	5,968	2,635	
Fuel oil	1,911	471	299	366	Q	Q	Q	Q	Q	
District heat	4,551	1,215	287	828	718	200	442	Q	Q	
Propane	1,575	Q	Q	Q	Q	312	334	260	Q	
Cooking energy sources (more than one may apply)										
Electricity	25,151	2,816	1,948	2,862	2,990	4,342	4,293	4,068	1,831	
Natural gas	24,770	2,168	2,274	3,360	3,265	4,168	4,387	3,736	1,410	
Propane	2,001	Q	196	Q	262	360	452	266	Q	

Table B9. Year constructed, floorspace, 2012

	Total floorspace (million square feet)									
	Year constructed									
	All buildings	Before 1946	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2007	2008 to 2012	
All buildings	87,093	10,008	7,381	10,362	10,846	15,230	13,803	13,739	5,723	
Energy end uses (more than one may apply)										
Buildings with space heating	80,078	9,110	6,895	9,730	10,045	13,723	12,389	12,679	5,505	
Buildings with cooling	79,294	8,302	6,679	9,634	10,031	14,011	12,402	13,010	5,225	
Buildings with water heating	79,015	8,702	6,410	9,699	10,158	13,831	12,209	12,844	5,162	
Buildings with cooking	38,546	4,205	3,409	4,644	4,837	6,545	6,517	6,015	2,375	
Buildings with manufacturing	5,078	670	575	497	828	969	396	856	Q	
Buildings with electricity generation	25,642	1,806	1,523	3,083	3,145	4,690	4,184	4,941	2,269	
Percent of floorspace heated										
Not heated	7,015	898	486	633	800	1,507	1,414	1,060	218	
1 to 50	10,130	1,212	927	1,094	1,378	2,091	1,417	1,463	547	
51 to 99	14,650	2,091	1,358	1,407	1,474	2,991	2,487	2,177	664	
100	55,298	5,807	4,610	7,228	7,193	8,641	8,485	9,040	4,294	
Percent of floorspace cooled										
Not cooled	7,799	1,707	702	728	815	1,220	1,401	729	498	
1 to 50	18,891	2,563	1,748	2,711	2,400	3,285	2,445	2,714	1,026	
51 to 99	22,728	2,862	2,287	2,731	2,665	3,805	4,184	3,145	1,050	
100	37,676	2,877	2,644	4,193	4,966	6,921	5,774	7,151	3,150	
Percent lit when open										
Zero	322	Q	Q	Q	Q	Q	Q	Q	Q	
1 to 50	12,628	2,162	1,351	1,266	1,313	2,222	1,395	2,065	854	
51 to 99	34,814	3,722	3,215	4,594	4,445	6,151	4,726	5,918	2,043	
100	35,726	3,414	2,494	4,174	4,549	6,294	6,680	5,485	2,637	
Building never open/electricity not used	3,603	698	312	312	536	533	954	Q	Q	
Percent lit during off hours										
Zero	24,746	3,449	2,135	2,730	2,710	4,244	3,590	3,943	1,946	
1 to 50	50,753	5,454	4,510	6,228	6,516	9,083	7,752	8,076	3,134	
51 to 100	6,926	675	479	1,111	963	972	1,194	1,222	310	
Building always open with no "off hours"	2,443	Q	Q	Q	367	492	583	438	Q	
Electricity not used	2,225	342	174	Q	290	440	685	Q	Q	
Heating equipment (more than one may apply)										
Heat pumps	11,846	1,115	907	1,295	1,198	2,386	2,136	1,982	826	
Furnaces	8,654	917	685	1,168	1,345	1,763	1,266	1,066	442	
Individual space heaters	20,766	3,159	2,277	2,586	2,923	3,424	2,996	2,453	948	
District heat	5,925	1,411	446	1,002	930	446	642	856	Q	
Boilers	22,443	3,237	2,659	3,506	2,763	2,973	2,970	3,031	1,303	
Packaged heating units	49,188	3,968	3,715	5,670	6,156	9,037	8,544	8,356	3,741	
Other	1,574	Q	Q	Q	Q	Q	397	Q	Q	

Table B9. Year constructed, floorspace, 2012

	Total floorspace (million square feet)									
	Year constructed									
	All buildings	Before 1946	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2007	2008 to 2012	
All buildings	87,093	10,008	7,381	10,362	10,846	15,230	13,803	13,739	5,723	
Cooling equipment (more than one may apply)										
Residential-type central air conditioners	14,765	2,066	996	2,075	2,044	2,503	2,386	1,907	786	
Heat pumps	12,538	1,108	1,097	1,300	1,330	2,556	2,214	1,995	939	
Individual air conditioners	12,420	2,493	1,485	1,740	1,649	1,768	1,425	1,358	503	
District chilled water	4,608	601	203	923	811	310	664	915	Q	
Central chillers	17,041	1,774	1,755	2,052	2,371	3,210	2,276	2,433	1,169	
Packaged air conditioning units	45,153	4,141	3,674	5,552	5,445	8,585	7,222	7,644	2,890	
Swamp coolers	1,918	181	Q	299	207	267	344	349	Q	
Other	328	Q	Q	Q	Q	Q	Q	Q	Q	N
Main equipment replaced since 1990 (more than one may apply)										
Heating	27,558	4,694	4,000	5,192	5,885	7,786	N	N	N	
Cooling	30,702	5,173	4,559	5,850	6,274	8,846	N	N	N	
Water-heating equipment										
Centralized system	47,534	5,205	4,305	6,252	6,298	7,338	7,417	7,543	3,176	
Distributed system	12,688	1,269	943	1,005	1,773	2,888	1,724	2,152	933	
Combination of centralized and distributed system	18,793	2,228	1,162	2,442	2,087	3,605	3,069	3,148	1,053	
Lighting equipment types (more than one may apply)										
Incandescent	38,406	5,042	3,494	4,629	5,560	6,972	5,494	5,619	1,595	
Standard fluorescent	80,081	8,752	6,860	9,857	9,992	14,263	12,267	13,019	5,070	
Compact fluorescent	53,816	6,060	4,340	6,463	6,913	9,199	8,327	8,941	3,574	
High-intensity discharge	23,396	2,099	1,785	2,525	3,311	4,591	4,127	3,843	1,116	
Halogen	28,059	3,156	2,028	2,948	3,418	5,124	4,364	5,093	1,929	
LED	22,071	2,272	1,306	2,224	2,632	4,374	3,489	4,028	1,747	
Other	446	Q	N	Q	Q	Q	Q	Q	Q	
Refrigeration equipment (more than one may apply)										
Any refrigeration	73,645	7,854	6,269	8,963	9,062	12,812	11,609	12,081	4,995	
Walk-in units	28,361	2,258	2,104	3,574	4,015	5,184	4,937	4,575	1,715	
Cases or cabinets	28,719	2,759	1,869	3,183	4,079	4,816	4,817	4,856	2,340	
Large cold storage areas	4,171	Q	Q	387	497	829	688	937	Q	
Commercial ice makers	32,734	2,336	2,350	3,650	4,044	6,287	5,983	5,644	2,441	
Residential-type or compact units	62,381	6,572	5,336	7,745	7,772	10,950	9,498	10,132	4,376	
Vending machines	43,936	3,283	3,648	5,235	5,659	8,021	7,222	7,758	3,109	
No refrigeration	13,448	2,154	1,112	1,399	1,784	2,418	2,194	1,658	728	

Table B9. Year constructed, floorspace, 2012

Total floorspace (million square feet)									
	Year constructed								
	All buildings	Before 1946	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2007	2008 to 2012
All buildings	87,093	10,008	7,381	10,362	10,846	15,230	13,803	13,739	5,723
Office equipment (more than one may apply)									
Desktop computers	77,063	8,086	6,423	9,461	9,538	13,653	12,031	12,695	5,176
With flat screen monitors	76,160	7,893	6,329	9,299	9,404	13,558	11,934	12,584	5,159
With multiple monitors	30,946	2,607	2,218	3,169	3,901	6,209	5,188	5,238	2,417
Laptop computers	63,486	6,439	5,438	8,082	7,976	11,484	9,420	10,524	4,122
Dedicated servers	53,369	4,993	4,087	6,039	6,818	10,182	8,504	9,229	3,518
Laser printers	54,256	5,759	4,149	6,535	6,427	9,739	8,440	9,494	3,712
Inkjet printers	36,235	3,794	3,421	4,690	4,710	6,107	5,686	5,401	2,426
FAX machines	66,682	6,756	5,372	7,833	8,319	12,226	10,576	11,289	4,310
Photocopiers	59,277	6,058	4,801	7,324	7,421	10,637	9,117	10,088	3,830
Number of desktop computers									
None	10,030	1,922	958	901	1,308	1,578	1,772	1,044	547
1 to 4	15,669	2,489	1,752	1,977	1,854	2,329	1,940	2,241	1,087
5 to 9	9,422	792	569	1,261	1,299	1,675	1,659	1,388	778
10 to 19	9,388	526	704	1,163	1,023	1,542	1,870	2,005	556
20 to 49	13,094	971	882	1,362	1,428	2,839	2,253	2,122	1,237
50 to 99	8,284	954	844	1,000	969	1,427	1,294	1,410	Q
100 to 249	9,728	1,001	826	1,260	1,197	1,491	1,161	2,207	585
250 or more	11,478	1,354	847	1,438	1,768	2,348	1,854	1,322	547
Number of laptop computers									
None	23,607	3,570	1,943	2,280	2,870	3,746	4,383	3,215	1,600
1 to 4	21,161	2,545	1,772	2,846	2,686	3,394	2,922	3,293	1,702
5 to 9	8,345	540	670	1,130	1,227	1,587	1,519	1,323	Q
10 to 19	8,343	480	835	687	902	1,835	1,182	1,714	708
20 to 49	9,643	922	914	1,346	1,078	1,697	1,345	1,900	Q
50 to 99	5,234	760	413	591	600	919	702	787	462
100 to 249	5,217	652	206	1,006	646	905	839	819	Q
250 or more	5,542	539	628	476	837	1,146	911	688	317
Number of dedicated servers									
None	33,724	5,015	3,295	4,324	4,028	5,049	5,299	4,510	2,205
1 to 4	34,097	3,288	2,749	4,151	4,286	5,663	5,477	5,855	2,628
5 to 9	6,241	401	471	627	920	1,346	1,025	1,149	Q
10 to 19	5,711	517	455	421	470	1,585	1,000	1,088	Q
20 to 49	3,758	Q	Q	254	583	1,061	600	607	Q
50 or more	3,562	478	265	586	559	526	403	530	Q
Number of photocopiers									
None	27,816	3,951	2,580	3,038	3,425	4,593	4,686	3,651	1,892
One	17,080	1,658	1,626	2,296	2,253	2,728	2,514	2,974	1,030
2 to 4	20,312	1,843	1,540	2,619	2,132	3,624	3,252	3,736	1,567
5 to 9	8,863	706	861	936	1,033	1,771	1,385	1,611	Q
10 or more	13,022	1,851	774	1,473	2,003	2,514	1,966	1,767	674

Table B9. Year constructed, floorspace, 2012

	Total floorspace (million square feet)									
	Year constructed									
	All buildings	Before 1946	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2007	2008 to 2012	
All buildings	87,093	10,008	7,381	10,362	10,846	15,230	13,803	13,739	5,723	
Number of TVs or video displays										
None	24,339	3,652	2,294	2,825	2,798	4,300	3,699	3,122	1,648	
One	9,990	1,256	1,018	1,070	1,220	1,675	1,729	1,623	399	
2 to 4	16,465	2,034	1,269	2,089	2,087	2,475	2,073	3,147	1,291	
5 to 9	8,148	854	798	776	806	1,313	1,419	1,570	613	
10 to 19	8,168	931	582	1,010	1,257	1,665	1,340	958	426	
20 to 49	8,058	528	549	983	1,044	1,592	1,441	1,306	616	
50 to 99	4,378	Q	492	582	438	613	848	874	Q	
100 or more	7,547	521	379	1,029	1,197	1,597	1,255	1,139	430	
Food preparation or serving areas										
in non-food service buildings (more than one may apply)										
Snack bar or concession stand	9,884	978	592	1,291	1,305	1,775	1,547	1,738	658	
Fast food or small restaurant	9,787	672	301	1,040	1,280	2,202	1,837	1,729	727	
Cafeteria or large restaurant	15,222	1,297	1,467	1,961	2,162	2,742	2,478	2,287	828	
Commercial kitchen/ food preparation area	16,150	1,525	1,356	2,113	2,198	2,621	2,426	2,861	1,049	
Small kitchen area	14,054	2,018	1,413	1,520	1,733	2,374	2,030	2,190	776	
Separate computer areas (more than one may apply)										
Data center or server farm	11,105	911	670	1,281	1,643	2,408	1,632	1,922	637	
Computer-based training room	17,723	1,762	1,429	2,025	2,254	2,465	3,228	3,354	1,208	
Student or public computer center	14,341	1,086	1,633	2,365	1,750	2,085	1,830	2,682	910	
HVAC conservation features (more than one may apply)										
Economizer cycle	30,749	2,661	2,446	3,845	3,834	5,081	5,067	5,075	2,739	
Regular HVAC maintenance	69,244	6,583	5,533	8,425	8,633	12,410	10,844	11,929	4,887	
Building automation system (BAS) ²	37,051	2,904	2,585	4,306	4,153	6,279	6,312	7,226	3,285	
Window and interior lighting features (more than one may apply)										
Multipaned windows	60,362	5,727	4,717	6,562	6,572	10,740	10,190	11,041	4,813	
Tinted window glass	45,025	2,966	3,151	5,045	5,890	9,467	7,535	7,954	3,016	
Reflective window glass	15,908	948	1,125	1,460	1,767	3,421	2,670	3,037	1,480	
External overhangs or awnings	32,188	2,265	2,664	4,153	4,657	5,542	5,329	5,478	2,100	
Skylights or atriums	22,261	1,539	1,489	2,535	2,986	5,042	3,672	3,747	1,249	
Light scheduling	30,263	2,353	1,849	3,008	3,772	5,631	5,958	5,238	2,453	
Occupancy sensors	35,871	3,288	2,629	3,827	4,170	6,317	5,716	6,825	3,098	
Multi-level lighting or dimming	14,534	1,077	980	1,420	1,590	2,850	2,517	2,905	1,195	
Daylight harvesting	6,114	460	342	629	674	1,089	974	1,235	710	
Demand responsive lighting	4,738	330	206	464	688	1,084	710	901	Q	
Building automation system (BAS) for lighting ²	12,068	531	609	829	1,323	2,360	2,376	2,800	1,241	

Table B9. Year constructed, floorspace, 2012

	Total floorspace (million square feet)									
	Year constructed									
	All buildings	Before 1946	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2007	2008 to 2012	
All buildings	87,093	10,008	7,381	10,362	10,846	15,230	13,803	13,739	5,723	
Equipment usage reduced when building not in full use (more than one may apply)										
Heating	63,167	7,244	5,367	7,444	7,816	11,087	9,726	10,051	4,431	
Cooling	62,516	6,737	5,120	7,164	8,045	11,139	9,711	10,399	4,203	
Lighting	78,594	9,077	6,818	9,668	9,771	13,863	11,767	12,403	5,229	

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.

Release date: February 2015

Revised date: May 2016

Table B10. Number of floors, number of buildings and floorspace, 2012

	Number of buildings (thousand)						Total floorspace (million square feet)					
	All buildings	One floor	Two floors	Three floors	Four to nine floors	Ten or more floors	All buildings	One floor	Two floors	Three floors	Four to nine floors	Ten or more floors
All buildings	5,557	3,836	1,158	374	177	13	87,093	39,809	20,206	8,140	13,535	5,404
Building floorspace (square feet)												
1,001 to 5,000	2,777	2,195	423	137	Q	N	8,041	6,244	1,315	416	Q	N
5,001 to 10,000	1,229	836	301	74	Q	N	8,900	6,044	2,181	536	Q	N
10,001 to 25,000	884	519	254	78	32	N	14,105	8,129	4,162	1,234	581	N
25,001 to 50,000	332	161	100	46	24	Q	11,917	5,761	3,584	1,655	906	Q
50,001 to 100,000	199	81	54	24	39	Q	13,918	5,643	3,882	1,624	2,708	Q
100,001 to 200,000	90	32	18	12	26	3	12,415	4,355	2,538	1,537	3,552	433
200,001 to 500,000	38	10	7	3	12	6	10,724	2,630	1,915	918	3,466	1,795
Over 500,000	8	1	1	Q	2	3	7,074	1,004	630	Q	2,116	3,104
Principal building activity												
Education	389	266	66	36	19	Q	12,239	4,419	3,765	1,967	1,987	Q
Food sales	177	140	23	Q	N	N	1,252	949	223	Q	N	N
Food service	380	284	60	29	Q	N	1,819	1,205	388	162	Q	N
Health care	157	92	48	10	7	1	4,155	740	662	400	1,780	574
Inpatient	10	Q	Q	1	4	1	2,374	Q	Q	104	1,486	534
Outpatient	147	89	46	Q	2	Q	1,781	627	523	Q	294	Q
Lodging	158	49	53	23	30	3	5,826	697	912	817	2,194	1,206
Mercantile	602	441	116	32	Q	Q	11,330	8,616	1,986	349	Q	Q
Retail (other than mall)	438	303	91	32	Q	Q	5,439	3,951	991	279	Q	Q
Enclosed and strip malls	164	138	26	Q	Q	Q	5,890	4,665	995	Q	Q	Q
Office	1,012	554	277	118	56	7	15,952	3,644	3,577	1,877	3,949	2,904
Public assembly	352	223	87	24	18	Q	5,559	2,097	1,209	594	1,605	Q
Public order and safety	84	59	17	Q	Q	Q	1,440	509	293	Q	Q	Q
Religious worship	412	261	125	21	Q	N	4,557	1,916	2,030	426	Q	N
Service	619	495	94	24	Q	Q	4,630	2,996	1,157	236	Q	Q
Warehouse and storage	796	661	114	15	Q	N	13,077	9,153	2,925	683	Q	N
Other	125	94	24	Q	Q	Q	2,002	1,086	407	Q	Q	Q
Vacant	296	217	50	Q	8	Q	3,256	1,782	672	Q	544	Q
Year constructed												
Before 1920	362	77	126	106	51	Q	3,983	530	856	902	1,552	Q
1920 to 1945	488	240	125	91	29	2	6,025	1,550	860	1,244	1,527	845
1946 to 1959	599	419	130	32	18	1	7,381	3,194	1,926	642	1,404	215
1960 to 1969	639	423	170	27	18	2	10,362	3,969	3,192	1,070	1,364	767
1970 to 1979	684	515	136	20	11	2	10,846	4,970	3,000	700	1,332	844
1980 to 1989	915	699	171	27	15	3	15,230	7,897	3,135	996	1,899	1,303
1990 to 1999	845	690	109	31	13	1	13,803	7,756	2,866	827	1,708	646
2000 to 2003	375	280	76	14	5	Q	7,215	3,517	1,734	656	1,150	Q
2004 to 2007	347	258	74	10	5	Q	6,524	3,505	1,500	436	729	Q
2008 to 2012	303	235	41	15	11	Q	5,723	2,921	1,137	667	871	Q
Census region												
Northeast	805	360	236	147	60	4	15,534	3,865	4,098	2,421	3,409	1,742
Midwest	1,237	785	296	121	33	2	18,919	7,652	4,867	2,607	2,915	879
South	2,247	1,737	377	63	64	5	34,279	18,532	6,972	2,028	5,013	1,734
West	1,267	954	248	43	21	2	18,360	9,760	4,269	1,083	2,198	1,049

Table B10. Number of floors, number of buildings and floorspace, 2012

	Number of buildings (thousand)						Total floorspace (million square feet)					
	All buildings	One floor	Two floors	Three floors	Four to nine floors	Ten or more floors	All buildings	One floor	Two floors	Three floors	Four to nine floors	Ten or more floors
All buildings	5,557	3,836	1,158	374	177	13	87,093	39,809	20,206	8,140	13,535	5,404
Climate region¹												
Very cold/Cold	2,031	1,200	523	227	76	4	31,898	12,175	8,343	4,460	5,340	1,580
Mixed-humid	1,743	1,222	339	106	70	6	27,873	12,382	6,124	2,292	4,616	2,459
Mixed-dry/Hot-dry	837	664	134	23	16	1	12,037	6,815	2,492	697	1,577	455
Hot-humid	799	646	128	11	12	2	12,831	7,485	2,556	527	1,581	682
Marine	147	103	34	Q	3	Q	2,454	952	690	Q	420	Q
Elevators and escalators (more than one may apply)												
Any elevators	405	N	167	105	121	13	32,120	N	8,548	5,654	12,514	5,404
Number of elevators												
One	272	N	144	75	53	Q	11,158	N	6,069	2,771	2,305	Q
Two to five	118	N	22	29	61	5	12,817	N	2,335	2,579	7,010	893
Six or more	16	N	Q	1	7	8	8,145	N	Q	304	3,199	4,498
Any escalators	10	N	Q	Q	4	2	3,654	N	333	Q	1,372	1,813
Number of workers (main shift)												
Fewer than 5	2,892	2,191	494	164	42	Q	17,751	11,548	3,555	1,547	1,002	Q
5 to 9	1,085	767	220	77	21	Q	8,973	5,638	2,234	715	379	Q
10 to 19	731	475	197	42	16	Q	9,623	5,709	2,560	710	597	Q
20 to 49	513	282	152	55	24	Q	14,514	6,907	4,279	1,764	1,442	Q
50 to 99	206	87	65	21	31	1	13,476	5,841	3,670	1,372	2,290	303
100 to 249	93	31	24	11	27	2	10,941	3,289	2,711	1,240	3,289	412
250 or more	37	3	6	4	15	8	11,815	876	1,196	792	4,535	4,415
Weekly operating hours												
Fewer than 40	1,149	846	229	58	16	Q	8,220	4,998	1,974	587	617	Q
40 to 48	1,346	933	284	95	34	Q	15,828	8,264	4,018	1,479	1,836	Q
49 to 60	1,244	830	295	69	45	4	20,529	9,541	5,074	1,806	2,783	1,326
61 to 84	764	510	160	67	26	2	15,867	7,516	4,016	1,669	1,711	955
85 to 167	479	355	80	33	11	Q	9,395	4,788	2,281	970	1,296	Q
Open continuously	575	363	110	52	45	6	17,253	4,702	2,844	1,629	5,291	2,788
Ownership and occupancy												
Nongovernment owned	4,781	3,290	1,010	328	142	11	67,550	32,751	15,005	5,929	9,454	4,410
Owner occupied	2,466	1,651	552	191	70	2	30,637	13,707	7,954	3,564	4,439	973
Leased to tenant(s)	1,745	1,288	321	84	46	5	26,115	14,937	4,864	1,284	2,830	2,199
Owner occupied and leased	349	183	98	42	23	3	8,873	2,885	1,805	975	2,015	1,193
Unoccupied	221	169	38	Q	Q	Q	1,925	1,221	382	Q	Q	Q
Government owned	776	546	148	46	35	2	19,543	7,058	5,201	2,210	4,081	993
Federal	33	21	Q	Q	1	1	1,573	323	Q	Q	469	496
State	185	112	48	10	14	1	5,539	1,530	1,682	655	1,473	199
Local	558	413	90	35	20	Q	12,431	5,205	3,336	1,454	2,139	Q
Party responsible for operation and maintenance of energy systems												
Building owner	4,715	3,223	992	329	159	12	73,702	31,061	17,556	7,461	12,524	5,099
Business owner or tenant	724	537	137	38	12	Q	11,309	7,944	2,193	507	612	Q
Property management	54	41	8	Q	Q	Q	1,250	438	176	Q	Q	Q
Other	64	35	Q	Q	Q	Q	832	366	Q	Q	Q	Q

Table B10. Number of floors, number of buildings and floorspace, 2012

	Number of buildings (thousand)						Total floorspace (million square feet)					
	All buildings	One floor	Two floors	Three floors	Four to nine floors	Ten or more floors	All buildings	One floor	Two floors	Three floors	Four to nine floors	Ten or more floors
All buildings	5,557	3,836	1,158	374	177	13	87,093	39,809	20,206	8,140	13,535	5,404
Provider of direct input on energy-related equipment purchases												
Building owner	4,876	3,347	1,013	343	161	12	76,271	32,776	18,070	7,744	12,529	5,151
Business owner or tenant	540	394	114	22	10	Q	8,256	5,688	1,655	250	610	Q
Property management	35	26	Q	Q	Q	Q	880	378	Q	Q	Q	Q
Other	106	70	26	Q	Q	Q	1,686	967	360	Q	Q	Q
Number of establishments												
One	4,205	2,997	833	259	112	4	54,994	25,686	14,210	5,591	7,895	1,613
2 to 5	862	510	224	87	39	3	17,756	7,605	3,755	1,810	3,323	1,263
6 to 10	147	87	38	10	10	1	4,425	2,016	891	254	746	518
11 to 20	68	39	16	Q	6	2	3,704	1,851	467	Q	532	638
More than 20	27	17	2	Q	4	3	3,821	1,183	439	Q	720	1,327
Currently unoccupied	248	186	45	Q	Q	Q	2,393	1,470	444	Q	Q	Q
Campus or complex activity												
Not part of a campus or complex	3,683	2,470	817	272	116	8	52,275	24,692	13,112	4,929	6,580	2,961
Primary or secondary school	237	196	31	8	Q	N	4,616	2,284	1,374	553	Q	N
College or university	84	25	18	17	23	Q	4,068	359	640	653	2,125	Q
Office complex	154	82	53	12	6	1	3,456	830	745	347	809	725
Retail complex	258	208	40	Q	Q	Q	5,159	4,061	889	Q	Q	Q
Storage complex	314	288	20	Q	Q	N	3,212	2,468	404	Q	Q	N
Religious campus or complex	197	119	61	13	Q	Q	1,932	749	831	239	Q	Q
Health care complex	52	28	11	5	8	1	3,362	319	Q	341	1,727	556
Lodging or resort complex	65	36	24	Q	Q	Q	1,295	210	334	Q	Q	Q
Transportation complex	35	27	Q	Q	Q	Q	554	275	Q	Q	Q	Q
Government complex	104	71	23	Q	3	Q	2,107	523	461	Q	476	Q
Other	371	287	58	19	8	Q	5,057	3,040	893	360	682	Q
Predominant exterior wall material												
Brick, stone, or stucco	2,312	1,438	542	211	117	5	40,463	15,139	9,534	5,280	8,553	1,957
Concrete (block or poured)	1,121	812	244	39	24	3	20,726	10,766	5,215	1,280	2,263	1,202
Concrete panels	210	148	40	9	10	3	8,693	3,781	1,753	423	1,563	1,173
Siding or shingles	905	570	215	97	22	Q	5,750	2,938	1,610	708	400	Q
Metal panels	933	824	98	Q	Q	Q	8,673	6,511	1,696	Q	Q	Q
Window glass	17	Q	Q	Q	2	1	1,340	Q	Q	Q	396	590
Other	37	26	Q	Q	Q	Q	856	353	Q	Q	Q	Q
No one major type	21	Q	Q	Q	Q	Q	592	Q	Q	Q	Q	Q
Predominant roof material												
Metal surfacing	1,672	1,377	249	36	10	Q	15,916	11,145	3,198	560	757	Q
Synthetic or rubber	911	516	235	103	51	5	25,817	9,289	6,314	3,137	4,914	2,163
Built-up	836	576	159	47	49	5	21,835	8,821	4,922	1,783	4,230	2,078
Slate or tile shingles	406	261	92	33	20	Q	4,306	1,361	1,140	479	1,284	Q
Wooden materials (including shingles)	157	122	21	Q	Q	N	1,139	742	216	Q	Q	N
Asphalt, fiberglass, or other shingles	1,483	931	381	134	36	1	15,104	7,404	3,882	1,888	1,386	544
Concrete	51	34	Q	Q	5	1	1,642	530	Q	Q	461	278
Other	24	Q	Q	Q	Q	Q	678	Q	Q	Q	Q	Q
No one major type	18	Q	Q	Q	Q	Q	657	Q	Q	Q	Q	Q

Table B10. Number of floors, number of buildings and floorspace, 2012

	Number of buildings (thousand)						Total floorspace (million square feet)					
	All buildings	One floor	Two floors	Three floors	Four to nine floors	Ten or more floors	All buildings	One floor	Two floors	Three floors	Four to nine floors	Ten or more floors
All buildings	5,557	3,836	1,158	374	177	13	87,093	39,809	20,206	8,140	13,535	5,404
Roof characteristics												
Roof tilt												
Flat	1,960	1,298	415	137	99	11	49,623	18,851	11,361	4,942	9,767	4,702
Shallow pitch	2,148	1,653	383	83	28	Q	23,853	14,813	5,271	1,295	2,000	Q
Steeper pitch	1,449	885	359	154	50	Q	13,617	6,145	3,574	1,903	1,767	Q
Cool roof	740	505	154	48	29	4	19,630	8,205	4,406	1,560	3,563	1,897
Renovations in buildings constructed before 2008 (more than one may apply)												
Any type of renovation	2,094	1,250	552	195	88	9	42,216	15,663	10,408	4,547	7,555	4,043
Addition or annex	444	241	145	34	23	1	13,022	4,081	3,879	1,423	2,755	885
Reduction in floorspace	71	43	20	Q	1	1	1,753	589	512	Q	303	212
Roof replacement	987	574	267	100	42	5	20,917	6,744	5,453	2,494	3,900	2,325
Exterior wall replacement	194	111	48	28	7	1	4,230	1,196	1,285	617	684	448
Interior wall reconfiguration	889	506	245	86	48	5	21,340	6,684	4,805	2,416	4,831	2,605
Window replacement	560	271	162	88	37	3	12,265	3,516	2,927	1,554	2,823	1,444
HVAC equipment upgrade	1,101	594	322	118	60	6	26,779	8,828	6,588	2,933	5,258	3,173
Lighting upgrade	982	530	282	112	52	6	25,503	8,495	5,544	2,885	5,359	3,219
Electrical upgrade	747	392	222	86	43	4	16,160	5,230	3,764	1,741	3,553	1,872
Plumbing system upgrade	644	329	197	77	38	4	13,828	4,059	3,336	1,585	2,862	1,987
Insulation upgrade	382	188	110	60	22	1	7,607	2,404	1,840	996	1,620	748
Fire, safety, or security upgrade	616	289	198	78	45	6	17,196	4,263	4,022	2,060	4,297	2,554
Structural upgrade	152	65	47	30	8	1	3,913	1,041	966	525	809	573
Other	39	Q	Q	Q	Q	Q	848	Q	Q	Q	Q	Q
No renovations	3,160	2,351	564	164	78	4	39,154	21,225	8,661	2,926	5,109	1,233
Buildings constructed 2008 or later	303	235	41	15	11	Q	5,723	2,921	1,137	667	871	Q
Energy sources (more than one may apply)												
Electricity	5,234	3,555	1,128	365	175	12	84,869	38,053	19,928	8,102	13,417	5,368
Natural gas	2,933	1,832	723	245	124	8	58,725	24,497	14,665	6,084	9,764	3,715
Fuel oil	467	256	105	58	38	9	20,200	4,139	3,375	2,091	6,246	4,349
District heat	48	Q	11	10	18	3	5,964	Q	Q	544	2,830	1,900
District chilled water	54	17	13	8	15	1	4,608	219	578	404	2,523	883
Propane	510	351	110	38	11	Q	7,706	3,938	2,000	642	801	Q
Other	172	96	46	25	4	Q	3,826	1,364	1,217	463	600	Q
Energy end uses (more than one may apply)												
Buildings with space heating	4,722	3,113	1,072	355	170	12	80,078	34,513	19,411	7,896	12,992	5,265
Buildings with cooling	4,461	2,954	994	338	163	12	79,294	34,156	19,012	7,734	13,036	5,356
Buildings with water heating	4,423	2,862	1,039	344	166	12	79,015	33,591	19,088	7,932	13,141	5,264
Buildings with cooking	1,589	977	385	137	82	8	38,546	13,994	9,154	3,816	7,519	4,064
Buildings with manufacturing	259	168	64	19	7	Q	5,078	2,825	1,409	433	298	Q
Buildings with electricity generation	410	216	100	45	40	9	25,642	6,187	5,134	2,584	7,344	4,393
Percent of floorspace heated												
Not heated	835	723	86	Q	6	Q	7,015	5,296	795	Q	543	Q
1 to 50	697	489	151	42	15	Q	10,130	5,882	2,788	583	690	Q
51 to 99	727	418	170	93	42	4	14,650	5,845	2,862	1,500	2,606	1,836
100	3,298	2,206	750	220	114	8	55,298	22,786	13,761	5,812	9,697	3,242

Table B10. Number of floors, number of buildings and floorspace, 2012

	Number of buildings (thousand)						Total floorspace (million square feet)					
	All buildings	One floor	Two floors	Three floors	Four to nine floors	Ten or more floors	All buildings	One floor	Two floors	Three floors	Four to nine floors	Ten or more floors
All buildings	5,557	3,836	1,158	374	177	13	87,093	39,809	20,206	8,140	13,535	5,404
Percent of floorspace cooled												
Not cooled	1,096	882	164	36	14	Q	7,799	5,653	1,194	405	499	Q
1 to 50	1,173	782	275	85	30	Q	18,891	10,371	5,511	1,378	1,426	Q
51 to 99	897	482	227	121	61	6	22,728	7,750	4,834	2,590	4,713	2,840
100	2,391	1,690	492	132	72	5	37,676	16,035	8,666	3,766	6,896	2,313
Percent lit when open												
Zero	70	64	Q	Q	Q	N	322	288	Q	Q	Q	N
1 to 50	1,099	647	301	110	41	Q	12,628	5,680	3,641	1,600	1,571	Q
51 to 99	1,666	1,042	399	144	74	7	34,814	14,604	7,751	3,465	6,414	2,579
100	2,222	1,675	386	99	56	5	35,726	16,711	8,271	2,918	5,181	2,644
Building never open/electricity not used	501	408	68	Q	Q	Q	3,603	2,526	537	Q	Q	Q
Percent lit during off hours												
Zero	2,489	1,794	512	145	37	1	24,746	14,152	6,327	2,230	1,788	249
1 to 50	2,441	1,545	565	201	121	9	50,753	20,673	12,052	5,255	9,034	3,740
51 to 100	202	131	41	15	13	2	6,926	1,848	1,234	518	2,118	1,208
Building always open with no "off hours"	102	85	10	Q	3	(*)	2,443	1,380	316	Q	477	171
Electricity not used	323	282	30	Q	Q	Q	2,225	1,756	278	Q	Q	Q
Heating equipment (more than one may apply)												
Heat pumps	628	415	146	37	28	3	11,846	4,642	2,844	1,229	2,089	1,041
Furnaces	755	471	203	61	21	Q	8,654	4,356	2,518	857	826	Q
Individual space heaters	1,247	818	274	106	46	3	20,766	8,857	4,987	2,150	3,398	1,374
District heat	48	Q	11	10	18	3	5,925	Q	Q	544	2,791	1,900
Boilers	544	184	164	119	71	6	22,443	4,257	5,762	3,667	6,521	2,236
Packaged heating units	2,802	1,904	655	168	71	4	49,188	24,999	13,422	3,918	5,180	1,669
Other	62	42	14	Q	Q	Q	1,574	1,127	297	Q	Q	Q
Cooling equipment (more than one may apply)												
Residential-type central air conditioners	1,546	1,027	370	120	29	Q	14,765	8,638	4,035	1,185	816	Q
Heat pumps	692	465	162	35	29	2	12,538	5,319	3,056	1,155	2,029	979
Individual air conditioners	709	394	163	105	44	3	12,420	3,436	3,034	1,960	2,851	1,138
District chilled water	54	17	13	8	15	1	4,608	219	578	404	2,523	883
Central chillers	163	48	40	27	39	8	17,041	2,072	3,075	2,116	5,873	3,905
Packaged air conditioning units	1,909	1,301	419	115	69	6	45,153	21,523	11,281	3,795	6,087	2,466
Swamp coolers	109	89	13	Q	Q	Q	1,918	1,161	357	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	328	Q	Q	Q	Q	Q
Water-heating equipment												
Centralized system	3,348	2,179	786	259	118	6	47,534	20,177	11,762	5,148	7,998	2,450
Distributed system	690	451	156	58	23	2	12,688	6,094	3,133	1,181	1,646	635
Combination of centralized and distributed system	385	231	97	26	26	5	18,793	7,321	4,194	1,602	3,497	2,179

Table B10. Number of floors, number of buildings and floorspace, 2012

	Number of buildings (thousand)						Total floorspace (million square feet)					
	All buildings	One floor	Two floors	Three floors	Four to nine floors	Ten or more floors	All buildings	One floor	Two floors	Three floors	Four to nine floors	Ten or more floors
All buildings	5,557	3,836	1,158	374	177	13	87,093	39,809	20,206	8,140	13,535	5,404
Lighting equipment types (more than one may apply)												
Incandescent	1,826	1,071	474	171	104	7	38,406	13,966	9,208	3,886	7,842	3,504
Standard fluorescent	4,649	3,120	1,022	329	166	12	80,081	34,818	19,068	7,767	13,083	5,344
Compact fluorescent	2,302	1,372	577	210	132	12	53,816	18,664	12,629	5,761	11,610	5,152
High-intensity discharge	525	326	130	37	28	5	23,396	8,474	5,326	2,239	4,469	2,888
Halogen	905	506	245	85	62	7	28,059	9,952	5,781	2,789	6,053	3,484
LED	473	261	113	48	45	7	22,071	6,930	3,905	1,950	5,642	3,645
Other	10	Q	Q	Q	Q	Q	446	Q	Q	Q	Q	Q
Refrigeration equipment (more than one may apply)												
Any refrigeration	3,984	2,602	915	301	154	12	73,645	31,001	17,915	7,152	12,368	5,209
Walk-in units	811	553	151	59	43	6	28,361	10,649	6,100	2,393	5,897	3,322
Cases or cabinets	915	605	182	77	44	7	28,719	10,961	5,918	2,625	5,730	3,485
Large cold storage areas	78	50	20	Q	4	(*)	4,171	1,931	942	Q	751	348
Commercial ice makers	846	541	183	60	54	7	32,734	11,581	6,986	2,980	7,380	3,807
Residential-type or compact units	3,388	2,176	800	267	135	10	62,381	25,926	15,363	6,139	10,708	4,245
Vending machines	960	563	235	78	75	10	43,936	15,933	9,519	4,288	9,715	4,481
No refrigeration	1,573	1,234	242	73	23	Q	13,448	8,809	2,290	988	1,167	Q
Food preparation or serving areas in non-food service buildings (more than one may apply)												
Snack bar or concession stand	153	99	34	10	8	2	9,884	2,655	2,051	1,080	2,379	1,719
Fast food or small restaurant	173	123	33	4	9	4	9,787	4,502	1,133	308	1,803	2,041
Cafeteria or large restaurant	130	56	35	14	22	3	15,222	3,435	3,686	1,563	4,054	2,483
Commercial kitchen/food preparation area	282	149	75	31	24	3	16,150	4,853	3,907	1,638	3,890	1,862
Small kitchen area	736	401	214	76	41	3	14,054	4,414	3,629	1,621	2,942	1,448
Window and interior lighting features (more than one may apply)												
Multipaned windows	3,012	1,914	720	250	119	9	60,362	25,811	14,300	6,199	10,016	4,036
Tinted window glass	1,875	1,284	400	116	67	8	45,025	19,777	10,137	4,063	7,385	3,663
Reflective window glass	549	344	144	32	26	4	15,908	5,890	3,716	1,461	2,919	1,922
External overhangs or awnings	1,867	1,283	419	113	49	4	32,188	16,607	7,423	2,367	3,976	1,815
Skylights or atriums	591	338	175	42	33	3	22,261	8,545	5,864	1,980	4,066	1,805
Light scheduling	918	598	211	59	43	7	30,263	12,166	6,418	2,568	5,639	3,473
Occupancy sensors	813	467	185	84	67	9	35,871	11,946	7,593	3,829	8,000	4,502
Multi-level lighting or dimming	349	199	84	34	28	4	14,534	5,358	2,657	1,381	3,136	2,002
Daylight harvesting	125	79	23	15	6	1	6,114	2,552	1,041	547	1,221	754
Demand responsive lighting	176	120	42	Q	3	1	4,738	2,723	1,069	Q	468	274
Building automation system (BAS) for lighting ²	208	148	38	8	12	3	12,068	5,368	2,428	602	2,276	1,394

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.

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

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.

Release date: February 2015

Revised date: May 2016

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	

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
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

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
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

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
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

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
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

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
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

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
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

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
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

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
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

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
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.

Release date: February 2015

Revised date: May 2016

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Building floorspace (square feet)								
1,001 to 5,000	8,041	1,520	1,127	1,031	730	572	391	498
5,001 to 10,000	8,900	1,663	1,329	1,051	1,052	790	353	536
10,001 to 25,000	14,105	2,012	2,331	1,253	1,821	1,443	1,212	1,108
25,001 to 50,000	11,917	2,333	1,814	607	1,648	926	1,492	861
50,001 to 100,000	13,918	2,203	1,632	Q	1,909	585	3,363	627
100,001 to 200,000	12,415	2,054	1,946	Q	2,178	Q	3,020	553
200,001 to 500,000	10,724	1,946	1,827	Q	1,264	Q	2,358	748
Over 500,000	7,074	2,221	1,071	Q	726	N	Q	627
Year constructed								
Before 1920	3,983	1,014	680	Q	339	319	260	380
1920 to 1945	6,025	1,491	473	489	300	385	1,122	640
1946 to 1959	7,381	1,254	740	330	657	612	1,447	521
1960 to 1969	10,362	1,427	1,386	520	1,029	704	2,180	866
1970 to 1979	10,846	2,125	1,467	629	1,573	378	1,178	586
1980 to 1989	15,230	3,969	2,294	877	2,275	547	1,268	599
1990 to 1999	13,803	2,108	2,204	775	2,085	651	1,655	890
2000 to 2003	7,215	1,040	1,316	263	1,085	477	1,427	360
2004 to 2007	6,524	874	1,437	321	1,083	Q	900	359
2008 to 2012	5,723	649	1,081	245	902	Q	802	360
Census region and division								
Northeast	15,534	3,703	1,761	823	1,653	897	2,056	953
New England	4,302	738	521	255	463	Q	642	350
Middle Atlantic	11,232	2,965	1,240	568	1,190	613	1,414	603
Midwest	18,919	3,334	2,530	1,472	2,132	925	3,173	1,585
East North Central	12,742	2,430	1,570	847	1,488	547	2,205	1,196
West North Central	6,178	904	960	625	644	378	968	390
South	34,279	5,501	5,257	1,642	4,729	2,011	5,162	2,003
South Atlantic	17,981	3,183	2,832	741	2,746	857	2,840	904
East South Central	4,904	694	Q	318	736	614	469	330
West South Central	11,394	1,625	1,919	583	1,247	540	1,853	769
West	18,360	3,414	3,529	694	2,815	725	1,848	1,018
Mountain	4,981	852	591	Q	727	214	783	321
Pacific	13,379	2,562	2,938	578	2,088	511	1,065	697
Climate region¹								
Very cold/Cold	31,898	6,033	4,121	1,957	3,920	1,623	4,739	2,351
Mixed-humid	27,873	5,496	3,740	1,503	3,444	1,698	4,426	1,479
Mixed-dry/Hot-dry	12,037	1,873	2,932	582	1,652	461	1,075	834
Hot-humid	12,831	1,776	2,066	512	1,979	674	1,878	622
Marine	2,454	774	Q	Q	335	Q	Q	Q

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Number of floors								
One	39,809	3,644	9,153	2,996	8,616	1,916	4,419	2,097
Two	20,206	3,577	2,925	1,157	1,986	2,030	3,765	1,209
Three	8,140	1,877	683	236	349	426	1,967	594
Four to nine	13,535	3,949	Q	Q	Q	Q	1,987	1,605
Ten or more	5,404	2,904	N	Q	Q	N	Q	Q
Elevators and escalators (more than one may apply)								
Any elevators	32,120	9,940	1,841	Q	947	796	6,057	2,513
Number of elevators								
One	11,158	2,722	1,029	Q	358	480	3,694	657
Two to five	12,817	4,116	813	Q	Q	Q	2,309	1,036
Six or more	8,145	3,101	N	Q	Q	Q	Q	820
Any escalators	3,654	1,387	N	Q	476	Q	N	668
Number of workers (main shift)								
Fewer than 5	17,751	1,003	4,003	1,671	1,236	2,397	504	1,695
5 to 9	8,973	1,206	1,496	780	1,291	751	544	941
10 to 19	9,623	1,276	2,201	794	1,232	595	774	540
20 to 49	14,514	2,134	2,028	778	2,590	560	3,156	635
50 to 99	13,476	2,556	1,330	Q	2,333	Q	3,829	537
100 to 249	10,941	2,059	1,473	Q	1,789	Q	2,899	596
250 or more	11,815	5,718	547	Q	859	N	533	614
Weekly operating hours								
Fewer than 40	8,220	227	800	288	228	2,208	855	690
40 to 48	15,828	4,530	3,221	1,109	710	651	3,420	666
49 to 60	20,529	5,981	3,798	1,612	1,968	705	3,867	811
61 to 84	15,867	2,198	1,541	1,001	5,272	556	2,303	1,380
85 to 167	9,395	788	1,867	254	2,047	Q	1,454	1,206
Open continuously	17,253	2,228	1,850	Q	1,105	Q	340	806
Ownership and occupancy								
Nongovernment owned	67,550	12,815	12,316	3,800	11,298	4,542	3,084	3,178
Owner occupied	30,637	3,169	5,098	1,803	3,189	4,097	2,471	2,049
Leased to tenant(s)	26,115	7,118	5,989	1,629	6,566	224	327	508
Owner occupied and leased	8,873	2,528	1,229	368	1,543	Q	Q	620
Unoccupied	1,925	N	N	N	N	N	N	N
Government owned	19,543	3,136	761	830	Q	Q	9,154	2,381
Federal	1,573	600	Q	Q	Q	N	Q	Q
State	5,539	1,203	Q	Q	Q	N	2,408	514
Local	12,431	1,333	Q	375	Q	Q	6,689	1,736

Table B12. Selected principal building activity: part 1, floorspace, 2012

Total floorspace (million square feet)								
	Principal building activity							
	All buildings	Warehouse and storage			Service	Mercantile	Religious worship	Education
		Office	and storage					
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Party responsible for operation and maintenance of energy systems								
Building owner	73,702	14,126	9,847	3,593	7,195	4,471	11,988	5,009
Business owner or tenant	11,309	1,261	2,924	905	4,011	Q	Q	372
Property management	1,250	474	Q	Q	Q	N	Q	Q
Other	832	Q	Q	Q	Q	Q	Q	Q
Provider of direct input on energy-related equipment purchases								
Building owner	76,271	14,481	10,526	3,801	8,046	4,479	12,011	5,078
Business owner or tenant	8,256	921	2,071	695	2,808	Q	Q	Q
Property management	880	294	Q	Q	Q	N	Q	Q
Other	1,686	255	Q	Q	368	Q	Q	Q
Number of establishments								
One	54,994	7,318	9,157	3,396	3,827	3,864	11,241	3,850
2 to 5	17,756	3,988	3,128	957	2,483	694	998	1,307
6 to 10	4,425	1,693	325	Q	1,613	N	N	Q
11 to 20	3,704	1,234	Q	Q	1,775	N	N	Q
More than 20	3,821	1,719	Q	N	1,632	N	N	Q
Currently unoccupied	2,393	N	N	N	N	N	N	N
Campus or complex activity								
Not part of a campus or complex	52,275	10,225	8,220	3,021	7,219	3,178	5,692	2,977
Primary or secondary school	4,616	Q	Q	Q	N	Q	4,060	241
College or university	4,068	521	Q	Q	N	N	1,879	696
Office complex	3,456	2,904	Q	Q	Q	N	Q	Q
Retail complex	5,159	Q	Q	273	3,909	N	N	Q
Storage complex	3,212	Q	2,774	Q	Q	N	N	N
Religious campus or complex	1,932	Q	N	N	Q	1,371	244	Q
Health care complex	3,362	Q	Q	N	N	N	Q	Q
Lodging or resort complex	1,295	Q	Q	Q	Q	N	Q	Q
Transportation complex	554	Q	Q	Q	N	N	N	240
Government complex	2,107	967	Q	Q	N	N	Q	Q
Other	5,057	577	1,568	754	Q	N	232	668
Predominant exterior wall material								
Brick, stone, or stucco	40,463	7,746	2,526	1,300	4,385	3,066	8,615	2,397
Concrete (block or poured)	20,726	2,887	3,576	1,454	4,661	475	2,267	1,221
Concrete panels	8,693	2,306	2,786	Q	606	Q	437	302
Siding or shingles	5,750	977	652	276	550	527	374	759
Metal panels	8,673	738	3,086	1,389	977	292	439	617
Window glass	1,340	884	Q	N	Q	Q	Q	Q
Other	856	240	Q	Q	Q	Q	Q	Q
No one major type	592	Q	Q	Q	Q	Q	Q	Q

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Predominant roof material								
Metal surfacing	15,916	1,662	4,177	2,019	1,973	809	1,512	1,292
Synthetic or rubber	25,817	5,633	3,234	1,192	3,696	475	3,980	1,747
Built-up	21,835	4,721	3,020	478	3,196	445	4,427	965
Slate or tile shingles	4,306	667	Q	Q	143	800	848	Q
Wooden materials (including shingles)	1,139	178	Q	Q	Q	Q	Q	Q
Asphalt, fiberglass, or other shingles	15,104	2,608	1,626	522	1,660	1,923	1,166	788
Concrete	1,642	385	Q	Q	Q	N	Q	Q
Other	678	Q	Q	Q	Q	Q	Q	Q
No one major type	657	Q	Q	Q	Q	Q	Q	Q
Roof characteristics								
Roof tilt								
Flat	49,623	11,075	6,462	2,044	6,860	780	8,079	2,388
Shallow pitch	23,853	2,845	5,720	1,847	3,591	763	2,944	2,082
Steeper pitch	13,617	2,031	896	739	879	3,015	1,215	1,088
Cool roof	19,630	3,914	2,889	820	3,023	582	3,350	1,013
Renovations in buildings constructed before 2008 (more than one may apply)								
Any type of renovation	42,216	9,372	4,758	1,580	4,837	2,413	6,293	3,044
Addition or annex	13,022	1,613	1,267	485	1,075	931	3,335	775
Reduction in floorspace	1,753	599	Q	Q	Q	Q	Q	Q
Roof replacement	20,917	4,716	1,836	814	2,133	1,542	3,714	1,472
Exterior wall replacement	4,230	767	512	Q	494	Q	855	Q
Interior wall reconfiguration	21,340	6,558	2,021	647	2,310	699	2,643	1,636
Window replacement	12,265	2,882	938	499	972	764	2,418	1,133
HVAC equipment upgrade	26,779	6,326	2,307	975	3,201	1,359	4,485	1,919
Lighting upgrade	25,503	6,019	2,448	820	3,025	982	4,268	2,047
Electrical upgrade	16,160	3,743	1,527	441	1,909	773	2,588	1,255
Plumbing system upgrade	13,828	3,544	1,089	347	1,303	625	2,139	1,098
Insulation upgrade	7,607	1,662	750	373	639	439	1,243	642
Fire, safety, or security upgrade	17,196	4,610	1,460	390	1,325	748	3,183	1,169
Structural upgrade	3,913	735	Q	Q	Q	Q	574	400
Other	848	Q	Q	N	Q	Q	Q	Q
No renovations	39,154	5,931	7,238	2,805	5,590	1,948	5,143	2,155
Buildings constructed 2008 or later	5,723	649	1,081	245	902	Q	802	360

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Energy sources (more than one may apply)								
Electricity	84,869	15,952	12,568	4,512	11,320	4,557	12,239	5,559
Natural gas	58,725	10,290	7,007	2,790	8,493	3,016	9,520	3,888
Fuel oil	20,200	5,328	1,773	733	1,119	391	2,185	1,663
District heat	5,964	1,794	Q	Q	Q	N	1,155	888
District chilled water	4,608	1,096	N	N	N	Q	1,292	880
Propane	7,706	358	1,516	555	839	487	877	858
Other	3,826	757	549	383	482	Q	806	288
Space-heating energy sources (more than one may apply)								
Electricity	49,030	10,281	6,476	2,193	8,132	2,656	6,254	2,645
Natural gas	49,511	8,555	6,499	2,758	7,435	2,671	7,967	3,337
Fuel oil	4,351	560	Q	393	306	Q	1,074	Q
District heat	5,925	1,794	Q	Q	Q	N	1,155	888
Propane	3,067	209	293	432	386	366	307	306
Other	1,010	Q	Q	370	Q	Q	Q	Q
Primary space-heating energy source								
Electricity	26,205	6,053	3,556	981	3,901	1,472	2,972	1,184
Natural gas	42,988	7,445	5,855	2,247	6,337	2,482	7,188	2,820
Fuel oil	2,542	296	Q	254	Q	Q	649	Q
District heat	5,797	1,772	Q	Q	Q	N	1,096	883
Propane	1,948	166	Q	253	Q	313	Q	270
Other	598	Q	Q	249	Q	Q	Q	Q
Cooling energy sources (more than one may apply)								
Electricity	76,034	15,179	10,059	3,758	11,121	4,271	10,673	4,629
Natural gas	732	Q	Q	N	Q	N	Q	N
District chilled water	4,608	1,096	N	N	N	Q	1,292	880
Water-heating energy sources (more than one may apply)								
Electricity	42,755	9,572	7,195	2,303	8,922	2,481	4,160	2,094
Natural gas	39,523	6,015	3,545	1,416	5,490	1,962	7,712	2,813
Fuel oil	1,911	Q	Q	Q	Q	Q	638	Q
District heat	4,551	1,368	N	Q	Q	N	842	742
Propane	1,575	Q	Q	Q	Q	Q	Q	Q
Cooking energy sources (more than one may apply)								
Electricity	25,151	3,637	669	447	4,107	1,966	5,876	1,980
Natural gas	24,770	2,799	Q	Q	4,886	1,799	5,686	1,484
Propane	2,001	Q	Q	Q	Q	Q	420	241

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Energy end uses (more than one may apply)								
Buildings with space heating	80,078	15,753	9,987	4,157	10,794	4,511	12,099	5,323
Buildings with cooling	79,294	15,882	10,120	3,773	11,121	4,271	11,811	5,235
Buildings with water heating	79,015	15,663	10,041	3,763	10,960	4,337	11,905	5,318
Buildings with cooking	38,546	5,230	922	517	6,396	3,394	8,479	2,751
Buildings with manufacturing	5,078	684	1,996	465	529	Q	Q	Q
Buildings with electricity generation	25,642	6,027	2,326	422	2,281	Q	4,126	1,878
Percent of floorspace heated								
Not heated	7,015	198	3,091	474	536	Q	Q	236
1 to 50	10,130	758	4,737	767	914	496	Q	544
51 to 99	14,650	3,558	843	747	3,302	710	1,699	996
100	55,298	11,437	4,407	2,643	6,577	3,305	10,178	3,783
Percent of floorspace cooled								
Not cooled	7,799	Q	2,958	857	209	286	428	324
1 to 50	18,891	1,305	7,911	2,446	1,480	633	1,810	981
51 to 99	22,728	5,750	722	514	4,324	1,024	3,532	1,589
100	37,676	8,828	1,487	813	5,317	2,614	6,469	2,665
Percent lit when open								
Zero	322	N	223	Q	N	N	N	Q
1 to 50	12,628	1,732	3,750	813	695	1,665	530	728
51 to 99	34,814	6,723	3,431	1,240	6,509	1,654	5,777	2,699
100	35,726	7,497	4,881	2,304	4,116	1,236	5,932	2,093
Building never open/electricity not used	3,603	N	793	Q	Q	Q	N	Q
Percent lit during off hours								
Zero	24,746	4,290	5,462	2,074	1,415	2,515	3,764	2,114
1 to 50	50,753	10,621	6,116	2,157	8,677	2,034	8,106	2,704
51 to 100	6,926	827	519	Q	603	Q	354	644
Building always open with no "off hours"	2,443	Q	Q	Q	Q	N	Q	Q
Electricity not used	2,225	N	509	Q	Q	N	N	N
Heating equipment (more than one may apply)								
Heat pumps	11,846	2,667	1,138	356	1,419	581	2,209	727
Furnaces	8,654	1,691	1,294	497	1,423	927	564	582
Individual space heaters	20,766	3,727	3,480	1,919	2,568	859	1,750	1,560
District heat	5,925	1,794	Q	Q	Q	N	1,155	888
Boilers	22,443	4,650	841	433	1,138	1,359	6,637	1,621
Packaged heating units	49,188	8,407	7,297	2,498	9,434	2,801	6,107	3,016
Other	1,574	Q	Q	Q	872	Q	Q	Q

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Cooling equipment (more than one may apply)								
Residential-type central air conditioners	14,765	2,270	2,567	1,143	2,510	1,632	912	948
Heat pumps	12,538	2,913	1,216	414	1,716	714	2,304	661
Individual air conditioners	12,420	2,184	1,566	701	763	712	2,074	628
District chilled water	4,608	1,096	N	N	N	Q	1,292	880
Central chillers	17,041	5,050	465	Q	419	Q	4,127	1,038
Packaged air conditioning units	45,153	7,993	6,472	1,854	9,094	2,229	5,934	2,672
Swamp coolers	1,918	Q	Q	Q	415	Q	Q	Q
Other	328	Q	Q	Q	N	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)								
Heating	27,558	5,774	3,135	1,499	4,000	1,518	4,341	1,609
Cooling	30,702	6,682	3,284	1,433	4,343	1,627	4,677	1,748
Water-heating equipment								
Centralized system	47,534	8,724	5,204	2,695	4,705	2,850	7,580	3,389
Distributed system	12,688	2,934	3,449	669	1,492	711	1,269	514
Combination of centralized and distributed system	18,793	4,006	1,388	Q	4,763	776	3,057	1,415
Lighting equipment types (more than one may apply)								
Incandescent	38,406	7,541	3,094	1,026	6,646	3,015	5,004	3,035
Standard fluorescent	80,081	15,547	11,280	4,142	10,714	4,293	12,180	5,208
Compact fluorescent	53,816	11,438	4,040	1,569	8,053	3,187	8,559	4,125
High-intensity discharge (HID)	23,396	3,858	2,934	980	3,959	839	4,376	1,922
Halogen	28,059	5,598	2,438	1,024	5,925	1,540	3,069	2,172
LED	22,071	5,034	998	Q	5,118	902	2,135	1,955
Other	446	Q	N	N	Q	N	Q	Q
Refrigeration equipment (more than one may apply)								
Any refrigeration	73,645	13,979	8,584	3,626	10,328	4,243	11,319	4,956
Walk-in units	28,361	3,419	848	Q	6,088	Q	7,060	1,545
Cases or cabinets	28,719	3,969	1,027	Q	6,876	837	5,760	1,758
Large cold storage areas	4,171	Q	883	N	1,200	Q	Q	Q
Commercial ice makers	32,734	5,458	1,695	Q	5,554	1,064	6,152	2,189
Residential-type or compact units	62,381	12,888	7,545	3,145	8,831	3,789	8,956	4,309
Vending machines	43,936	8,853	4,998	1,710	7,074	449	7,666	2,714
No refrigeration	13,448	1,973	4,493	1,005	1,002	314	920	603

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Office equipment (more than one may apply)								
Desktop computers	77,063	15,652	10,176	3,812	10,959	3,531	12,078	4,978
With flat screen monitors	76,160	15,617	10,042	3,750	10,841	3,366	12,060	4,847
With multiple monitors	30,946	10,183	3,981	749	4,226	900	3,608	1,787
Laptop computers	63,486	14,372	7,930	2,437	8,418	2,790	11,055	4,035
Dedicated servers	53,369	13,118	6,637	1,794	8,029	1,476	8,774	2,986
Laser printers	54,256	12,832	7,291	2,352	7,249	1,583	8,664	3,167
Inkjet printers	36,235	6,190	4,679	2,010	5,283	2,380	5,518	2,721
FAX machines	66,682	14,084	8,917	3,376	10,377	2,473	10,318	3,802
Photocopiers	59,277	13,626	7,276	1,883	7,938	3,097	10,526	3,557
Number of desktop computers								
None	10,030	299	2,902	818	370	1,027	161	581
1 to 4	15,669	1,170	2,550	1,727	1,755	2,040	587	1,557
5 to 9	9,422	1,471	1,648	841	1,731	529	623	588
10 to 19	9,388	1,385	2,003	531	2,293	Q	563	424
20 to 49	13,094	2,303	2,320	Q	3,252	Q	1,389	800
50 to 99	8,284	2,073	918	Q	1,078	Q	2,364	358
100 to 249	9,728	2,276	648	Q	609	Q	3,487	599
250 or more	11,478	4,973	Q	N	Q	N	3,065	652
Number of laptop computers								
None	23,607	1,580	5,147	2,193	2,912	1,767	1,184	1,524
1 to 4	21,161	2,871	3,943	1,711	3,386	1,870	1,228	1,861
5 to 9	8,345	1,510	1,429	Q	1,896	549	951	434
10 to 19	8,343	1,578	1,136	Q	1,872	Q	1,110	509
20 to 49	9,643	2,458	1,070	Q	919	Q	2,705	385
50 to 99	5,234	1,416	Q	Q	Q	Q	1,906	Q
100 to 249	5,217	1,723	Q	Q	Q	N	1,907	Q
250 or more	5,542	2,817	Q	N	Q	N	1,248	Q
Number of dedicated servers								
None	33,724	2,834	6,441	2,836	3,300	3,081	3,465	2,573
1 to 4	34,097	5,745	5,189	1,703	5,539	1,414	6,085	1,845
5 to 9	6,241	1,712	879	Q	1,401	Q	995	Q
10 to 19	5,711	2,126	Q	Q	924	N	975	Q
20 to 49	3,758	1,756	Q	Q	Q	N	513	332
50 or more	3,562	1,778	Q	N	N	N	Q	Q
Number of photocopiers								
None	27,816	2,325	5,801	2,748	3,392	1,460	1,712	2,002
One	17,080	1,756	2,819	979	3,252	1,850	1,590	1,201
2 to 4	20,312	3,873	3,099	573	2,752	1,146	5,157	939
5 to 9	8,863	2,242	967	Q	1,483	Q	2,446	486
10 or more	13,022	5,755	Q	Q	451	Q	1,333	931

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Number of TVs or video displays								
None	24,339	3,231	7,446	1,890	1,733	1,241	2,280	1,087
One	9,990	1,871	1,866	1,157	1,311	1,001	746	506
2 to 4	16,465	3,294	2,680	1,129	2,152	1,384	1,922	1,515
5 to 9	8,148	2,389	622	Q	1,203	515	1,211	605
10 to 19	8,168	2,084	Q	Q	1,609	Q	1,909	417
20 to 49	8,058	1,404	Q	N	2,512	Q	2,261	553
50 to 99	4,378	659	Q	N	657	N	1,409	Q
100 or more	7,547	1,019	Q	N	Q	N	Q	535
Food preparation or serving areas in non-food service buildings (more than one may apply)								
Snack bar or concession stand	9,884	1,298	Q	Q	1,715	Q	2,528	1,421
Fast food or small restaurant	9,787	1,447	Q	Q	4,977	N	Q	754
Cafeteria or large restaurant	15,222	2,575	Q	N	1,245	Q	6,511	533
Commercial kitchen/food preparation area	16,150	1,197	Q	Q	2,021	1,103	4,816	1,074
Small kitchen area	14,054	1,994	490	295	1,592	2,345	2,077	1,576
Separate computer areas (more than one may apply)								
Data center or server farm	11,105	4,531	919	Q	Q	Q	1,900	691
Computer-based training room	17,723	3,988	869	Q	2,527	Q	5,956	899
Student or public computer center	14,341	693	Q	Q	1,230	Q	8,374	904
HVAC conservation features (more than one may apply)								
Economizer cycle	30,749	7,386	2,278	536	4,679	560	6,261	2,322
Regular HVAC maintenance	69,244	14,341	8,172	2,895	9,752	3,195	11,572	4,621
Building automation system (BAS) ²	37,051	8,284	1,637	602	6,262	1,063	8,736	2,643
Window and interior lighting features (more than one may apply)								
Multipaned windows	60,362	11,693	7,350	2,517	8,908	3,023	9,139	3,653
Tinted window glass	45,025	9,863	5,313	1,903	7,446	1,880	6,064	2,745
Reflective window glass	15,908	3,795	1,606	653	3,214	658	1,826	885
External overhangs or awnings	32,188	5,382	3,470	1,158	7,794	1,350	3,860	2,380
Skylights or atriums	22,261	3,725	3,776	593	3,592	728	3,914	1,690
Light scheduling	30,263	6,665	2,373	760	7,976	709	3,731	2,154
Occupancy sensors	35,871	8,606	4,273	837	6,082	639	6,278	2,381
Multi-level lighting or dimming	14,534	2,686	435	Q	3,971	859	1,934	1,222
Daylight harvesting	6,114	1,385	602	Q	1,806	Q	631	431
Demand responsive lighting	4,738	432	551	Q	2,389	Q	318	Q
Building automation system (BAS) for lighting ²	12,068	2,643	561	Q	4,744	Q	1,505	812

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Equipment usage reduced when building not in full use (more than one may apply)								
Heating	63,167	13,273	7,047	3,228	9,624	4,082	11,092	4,175
Cooling	62,516	13,422	7,012	3,019	10,129	3,843	10,556	4,053
Lighting	78,594	15,543	11,140	4,234	10,566	4,482	12,124	5,327

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.

Release date: February 2015

Revised date: May 2016

Table B13. Selected principal building activity: part 2, number of buildings, 2012

Number of buildings (thousand)							
	Principal building activity						
	Health care				Public order and safety		
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	5,557	380	177	158	10	147	84
Building floorspace (square feet)							
1,001 to 10,000	4,007	356	154	62	N	113	61
10,001 to 100,000	1,415	24	22	84	5	32	20
Over 100,000	136	N	Q	12	5	2	2
Year constructed							
Before 1946	850	70	Q	16	Q	Q	Q
1946 to 1979	1,922	125	59	68	5	53	26
1980 to 1999	1,760	119	70	49	2	53	31
2000 to 2012	1,025	65	33	25	2	26	23
Census region							
Northeast	805	62	27	27	2	21	14
Midwest	1,237	77	34	23	2	42	19
South	2,247	160	81	69	4	50	39
West	1,267	80	35	38	2	35	Q
Climate region¹							
Very cold/Cold	2,031	128	64	50	3	60	25
Mixed-humid	1,743	141	61	48	2	39	31
Mixed-dry/Hot-dry	837	51	Q	27	Q	17	Q
Hot-humid	799	49	33	31	3	28	Q
Marine	147	Q	Q	Q	Q	Q	Q
Number of floors							
One	3,836	284	140	49	Q	89	59
Two	1,158	60	23	53	Q	46	17
Three	374	29	Q	23	1	Q	Q
Four to nine	177	Q	N	30	4	2	Q
Ten or more	13	N	N	3	1	Q	Q
Elevators and escalators (more than one may apply)							
Any elevators	405	Q	Q	46	7	22	9
Number of elevators							
One	272	Q	Q	25	Q	16	Q
Two to five	118	Q	N	18	3	5	Q
Six or more	16	N	N	2	3	1	Q
Any escalators	10	N	Q	1	(*)	Q	Q
Number of workers (main shift)							
Fewer than 10	3,977	255	150	102	N	80	40
10 to 99	1,450	123	26	50	Q	60	42
100 or more	131	Q	Q	6	6	8	2

Table B13. Selected principal building activity: part 2, number of buildings, 2012

	Number of buildings (thousand)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	5,557	380	177	158	10	147	84
Weekly operating hours							
Fewer than 49	2,495	58	Q	Q	N	79	28
49 to 84	2,008	166	31	N	N	61	Q
85 to 167	479	131	94	Q	N	Q	N
Open continuously	575	24	49	153	10	Q	54
Ownership and occupancy							
Nongovernment owned	4,781	364	177	151	7	138	Q
Owner occupied	2,466	202	93	119	5	74	Q
Leased to tenant(s)	1,745	157	69	29	Q	43	Q
Owner occupied and leased	349	Q	Q	3	1	21	Q
Unoccupied	221	N	N	N	N	N	N
Government owned	776	Q	N	7	2	9	70
Federal	33	N	N	N	(*)	Q	Q
State	185	Q	N	Q	Q	Q	Q
Local	558	Q	N	Q	2	Q	64
Party responsible for operation and maintenance of energy systems							
Building owner	4,715	292	129	153	9	129	76
Business owner or tenant	724	75	44	Q	Q	Q	Q
Property management	54	Q	Q	Q	Q	Q	N
Other	64	Q	Q	Q	Q	Q	Q
Provider of direct input on energy-related equipment purchases							
Building owner	4,876	302	135	154	9	131	75
Business owner or tenant	540	59	36	Q	Q	Q	Q
Property management	35	Q	Q	Q	Q	Q	N
Other	106	Q	Q	Q	Q	Q	Q
Number of establishments							
One	4,205	346	150	146	8	105	70
2 to 5	862	33	27	12	2	37	14
6 to 10	147	Q	Q	Q	Q	Q	N
11 to 20	68	N	N	Q	Q	Q	N
More than 20	27	N	N	Q	Q	Q	N
Currently unoccupied	248	N	N	N	N	N	N

Table B13. Selected principal building activity: part 2, number of buildings, 2012

	Number of buildings (thousand)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	5,557	380	177	158	10	147	84
Campus or complex activity							
Not part of a campus or complex	3,683	315	164	69	4	105	65
Primary or secondary school	237	Q	N	Q	N	N	N
College or university	84	Q	N	15	Q	Q	Q
Office complex	154	Q	N	N	N	Q	Q
Retail complex	258	28	Q	Q	N	Q	N
Storage complex	314	Q	N	N	N	N	N
Religious campus or complex	197	Q	N	Q	N	N	N
Health care complex	52	Q	N	7	5	19	N
Lodging or resort complex	65	Q	N	48	N	N	N
Transportation complex	35	N	N	N	N	N	N
Government complex	104	N	N	Q	N	Q	Q
Other	371	Q	Q	Q	Q	Q	Q
Predominant exterior wall material							
Brick, stone, or stucco	2,312	202	69	91	5	87	43
Concrete (block or poured)	1,121	72	44	28	2	25	18
Concrete panels	210	Q	Q	4	1	Q	Q
Siding or shingles	905	76	37	31	Q	23	Q
Metal panels	933	Q	Q	Q	Q	Q	Q
Window glass	17	Q	Q	Q	Q	Q	N
Other	37	Q	Q	Q	Q	Q	N
No one major type	21	N	Q	Q	Q	N	N
Predominant roof material							
Metal surfacing	1,672	71	48	23	Q	22	33
Synthetic or rubber	911	75	40	25	4	26	7
Built-up	836	63	Q	15	3	25	10
Slate or tile shingles	406	36	Q	21	Q	Q	Q
Wooden materials (including shingles)	157	Q	Q	Q	Q	Q	Q
Asphalt, fiberglass, or other shingles	1,483	110	39	66	1	55	25
Concrete	51	Q	Q	Q	Q	Q	Q
Other	24	Q	N	Q	N	Q	N
No one major type	18	Q	Q	Q	Q	N	Q
Roof characteristics							
Roof tilt							
Flat	1,960	171	80	57	8	60	23
Shallow pitch	2,148	125	73	38	Q	51	Q
Steeper pitch	1,449	84	Q	63	Q	36	37
Cool roof	740	49	25	20	4	13	10

Table B13. Selected principal building activity: part 2, number of buildings, 2012

	Number of buildings (thousand)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	5,557	380	177	158	10	147	84
Renovations in buildings constructed before 2008 (more than one may apply)							
Any type of renovation	2,094	155	65	80	7	82	35
Addition or annex	444	33	Q	17	5	15	Q
Reduction in floorspace	71	Q	Q	Q	(*)	Q	Q
Roof replacement	987	64	Q	40	3	28	21
Exterior wall replacement	194	Q	Q	10	1	Q	Q
Interior wall reconfiguration	889	70	Q	32	3	53	13
Window replacement	560	48	Q	29	2	18	Q
HVAC equipment upgrade	1,101	83	28	39	5	47	11
Lighting upgrade	982	78	44	42	4	36	12
Electrical upgrade	747	70	Q	29	4	29	Q
Plumbing system upgrade	644	74	Q	40	3	29	Q
Insulation upgrade	382	34	Q	14	1	Q	Q
Fire, safety, or security upgrade	616	62	Q	36	4	22	Q
Structural upgrade	152	21	Q	Q	(*)	Q	Q
Other	39	N	N	Q	Q	Q	Q
No renovations	3,160	201	98	70	2	57	43
Buildings constructed 2008 or later	303	Q	Q	9	1	Q	Q
Energy sources (more than one may apply)							
Electricity	5,234	380	177	158	10	147	84
Natural gas	2,933	283	82	99	8	87	53
Fuel oil	467	Q	Q	28	9	15	34
District heat	48	Q	N	4	1	Q	Q
District chilled water	54	Q	N	Q	1	Q	Q
Propane	510	47	Q	26	2	Q	Q
Other	172	Q	Q	Q	Q	Q	Q
Space-heating energy sources (more than one may apply)							
Electricity	2,858	202	123	116	4	87	44
Natural gas	2,612	207	63	64	5	80	47
Fuel oil	270	Q	Q	Q	2	Q	Q
District heat	48	Q	N	4	1	Q	Q
Propane	342	25	Q	Q	Q	Q	Q
Other	101	Q	Q	Q	Q	Q	Q
Primary space-heating energy source							
Electricity	1,819	146	88	93	Q	58	Q
Natural gas	2,322	183	56	45	5	77	45
Fuel oil	205	Q	Q	Q	Q	Q	Q
District heat	47	Q	N	4	1	Q	Q
Propane	261	Q	Q	Q	N	Q	Q
Other	67	Q	Q	Q	Q	Q	Q

Table B13. Selected principal building activity: part 2, number of buildings, 2012

Number of buildings (thousand)							
Principal building activity							
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	5,557	380	177	158	10	147	84
Cooling energy sources (more than one may apply)							
Electricity	4,413	356	165	142	9	143	74
Natural gas	12	N	N	Q	(*)	Q	Q
District chilled water	54	Q	N	Q	1	Q	Q
Water-heating energy sources (more than one may apply)							
Electricity	2,658	155	115	55	2	90	46
Natural gas	1,758	216	59	91	7	58	28
Fuel oil	77	Q	Q	Q	1	Q	Q
District heat	25	Q	N	3	1	Q	Q
Propane	142	27	Q	Q	Q	Q	Q
Cooking energy sources (more than one may apply)							
Electricity	1,010	183	79	52	5	13	38
Natural gas	740	246	38	49	7	Q	16
Propane	144	40	Q	14	Q	Q	Q
Energy end uses (more than one may apply)							
Buildings with space heating	4,722	359	160	153	9	144	81
Buildings with cooling	4,461	358	165	145	10	145	74
Buildings with water heating	4,423	379	177	158	10	146	80
Buildings with cooking	1,589	353	111	94	9	13	56
Buildings with manufacturing	259	Q	Q	Q	Q	Q	N
Buildings with electricity generation	410	Q	16	34	9	19	59
Percent of floorspace heated							
Not heated	835	Q	Q	Q	Q	Q	Q
1 to 50	697	37	Q	Q	Q	Q	Q
51 to 99	727	63	46	15	1	12	Q
100	3,298	260	105	128	8	121	66
Percent of floorspace cooled							
Not cooled	1,096	Q	Q	Q	N	Q	Q
1 to 50	1,173	41	Q	11	Q	Q	32
51 to 99	897	85	46	37	2	29	16
100	2,391	233	99	97	7	107	26
Percent lit when open							
Zero	70	N	N	Q	N	N	N
1 to 50	1,099	57	Q	51	Q	Q	Q
51 to 99	1,666	104	54	47	3	65	24
100	2,222	219	104	60	7	67	32
Building never open/electricity not used	501	N	N	N	N	N	Q

Table B13. Selected principal building activity: part 2, number of buildings, 2012

	Number of buildings (thousand)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	5,557	380	177	158	10	147	84
Percent lit during off hours							
Zero	2,489	136	Q	Q	Q	67	Q
1 to 50	2,441	214	99	91	6	79	46
51 to 100	202	26	28	35	3	Q	Q
Building always open with no "off hours"	102	Q	Q	16	1	N	Q
Electricity not used	323	N	N	N	N	N	N
Heating equipment (more than one may apply)							
Heat pumps	628	32	Q	39	2	21	Q
Furnaces	755	53	Q	21	(*)	22	Q
Individual space heaters	1,247	52	31	60	2	29	24
District heat	48	Q	N	4	1	Q	Q
Boilers	544	23	Q	38	6	17	14
Packaged heating units	2,802	251	111	55	5	97	43
Other	62	Q	Q	Q	Q	N	Q
Cooling equipment (more than one may apply)							
Residential-type central air conditioners	1,546	110	64	34	Q	57	23
Heat pumps	692	37	Q	36	2	26	Q
Individual air conditioners	709	48	Q	71	2	Q	Q
District chilled water	54	Q	N	Q	1	Q	Q
Central chillers	163	Q	Q	11	6	10	4
Packaged air conditioning units	1,909	188	76	40	6	66	32
Swamp coolers	109	21	Q	Q	Q	Q	Q
Other	Q	N	N	Q	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)							
Heating	1,874	156	44	74	4	57	25
Cooling	1,971	172	57	80	5	70	26
Water-heating equipment							
Centralized system	3,348	307	155	132	6	118	72
Distributed system	690	33	Q	7	Q	21	Q
Combination of centralized and distributed system	385	39	Q	19	2	Q	Q

Table B13. Selected principal building activity: part 2, number of buildings, 2012

Number of buildings (thousand)							
Principal building activity							
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	5,557	380	177	158	10	147	84
Lighting equipment types (more than one may apply)							
Incandescent	1,826	174	49	68	7	62	22
Standard fluorescent	4,649	352	169	125	10	139	72
Compact fluorescent	2,302	237	69	132	9	80	37
High-intensity discharge (HID)	525	17	Q	18	4	11	8
Halogen	905	91	23	37	4	33	10
LED	473	42	27	23	4	13	Q
Other	10	Q	N	Q	Q	N	N
Refrigeration equipment (more than one may apply)							
Any refrigeration	3,984	380	175	144	10	132	78
Walk-in units	811	293	145	37	8	Q	Q
Cases or cabinets	915	260	140	34	6	11	Q
Large cold storage areas	78	Q	19	Q	1	Q	Q
Commercial ice makers	846	259	85	61	9	9	21
Residential-type or compact units	3,388	201	58	126	9	131	71
Vending machines	960	42	44	68	9	27	24
No refrigeration	1,573	N	Q	Q	N	Q	Q
Office equipment (more than one may apply)							
Desktop computers	3,977	264	126	107	10	146	75
With flat screen monitors	3,847	246	121	103	10	146	73
With multiple monitors	911	42	Q	11	6	35	22
Laptop computers	2,730	142	59	85	9	101	56
Dedicated servers	1,748	85	55	47	8	88	24
Laser printers	2,339	108	73	66	8	103	36
Inkjet printers	2,187	180	59	55	5	75	44
FAX machines	3,185	182	107	85	9	128	50
Photocopiers	2,163	49	40	61	9	97	36
Number of desktop computers							
None	1,581	116	51	51	N	Q	Q
1 to 4	2,039	230	102	52	N	51	50
5 to 9	821	31	Q	20	Q	31	Q
10 to 19	482	Q	Q	11	Q	31	Q
20 to 49	355	Q	Q	19	Q	19	Q
50 to 99	143	N	N	3	Q	9	Q
100 to 249	92	N	N	Q	3	3	Q
250 or more	44	N	N	Q	4	1	Q

Table B13. Selected principal building activity: part 2, number of buildings, 2012

	Number of buildings (thousand)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	5,557	380	177	158	10	147	84
Number of laptop computers							
None	2,827	238	118	73	Q	46	27
1 to 4	1,944	132	56	44	Q	59	42
5 to 9	350	Q	Q	13	Q	22	Q
10 to 19	181	Q	N	7	2	13	Q
20 to 49	144	N	N	7	1	4	Q
50 to 99	58	N	N	Q	1	Q	Q
100 to 249	35	N	N	Q	1	Q	Q
250 or more	20	N	N	Q	1	Q	Q
Number of dedicated servers							
None	3,809	294	121	111	1	59	60
1 to 4	1,562	82	55	44	3	82	19
5 to 9	97	Q	N	Q	1	Q	Q
10 to 19	50	N	N	Q	1	Q	Q
20 to 49	25	N	N	Q	1	Q	Q
50 or more	13	N	N	Q	2	Q	Q
Number of photocopiers							
None	3,394	331	137	97	Q	50	48
One	1,325	42	35	35	Q	55	24
2 to 4	648	Q	Q	22	Q	33	Q
5 to 9	116	N	Q	2	2	Q	Q
10 or more	75	N	N	1	5	6	4
Number of TVs or video displays							
None	2,718	111	80	Q	Q	42	Q
One	1,145	78	50	Q	N	33	Q
2 to 4	1,035	114	35	16	Q	48	30
5 to 9	314	56	Q	Q	Q	18	Q
10 to 19	154	16	Q	16	Q	Q	Q
20 to 49	106	Q	Q	27	1	2	Q
50 to 99	48	Q	N	25	3	Q	Q
100 or more	37	N	N	28	4	Q	Q
Food preparation or serving areas in non-food service buildings (more than one may apply)							
Snack bar or concession stand	153	N	40	7	2	Q	Q
Fast food or small restaurant	173	N	41	6	(*)	Q	Q
Cafeteria or large restaurant	130	N	Q	13	6	Q	Q
Commercial kitchen/ food preparation area	282	N	18	46	5	Q	9
Small kitchen area	736	N	33	50	3	12	48

Table B13. Selected principal building activity: part 2, number of buildings, 2012

	Number of buildings (thousand)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	5,557	380	177	158	10	147	84
Separate computer areas (more than one may apply)							
Data center or server farm	97	Q	N	2	4	Q	Q
Computer-based training room	244	Q	Q	5	5	5	Q
Student or public computer center	238	Q	Q	19	2	Q	Q
HVAC conservation features (more than one may apply)							
Economizer cycle	601	51	Q	19	6	23	12
Regular HVAC maintenance	3,178	260	115	110	9	104	55
Building automation system (BAS) ¹	781	38	29	19	7	33	13
Window and interior lighting features (more than one may apply)							
Multipaned windows	3,012	232	96	102	8	101	56
Tinted window glass	1,875	135	62	47	7	67	29
Reflective window glass	549	33	Q	10	3	21	Q
External overhangs or awnings	1,867	198	86	62	4	65	13
Skylights or atriums	591	19	Q	20	3	21	Q
Light scheduling	918	73	38	28	2	23	10
Occupancy sensors	813	43	28	27	6	24	18
Multi-level lighting or dimming	349	58	Q	17	2	Q	Q
Daylight harvesting	125	Q	Q	Q	1	Q	Q
Demand responsive lighting	176	Q	Q	Q	Q	Q	Q
Building automation system (BAS) for lighting ²	208	Q	Q	2	(*)	Q	Q
Equipment usage reduced when building not in full use (more than one may apply)							
Heating	3,699	286	80	75	4	120	44
Cooling	3,517	286	77	70	4	122	46
Lighting	4,757	358	141	123	8	147	62

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.

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

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.

Release date: February 2015

Revised date: May 2016

Table B14. Selected principal building activity: part 2, floorspace, 2012

Total floorspace (million square feet)								
	Principal building activity						Public order and safety	
	Health care							
	All buildings	Food service	Food sales	Lodging	In- patient	Out- patient		
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440	
Building floorspace (square feet)								
1,001 to 10,000	16,941	1,429	557	299	N	510	331	
10,001 to 100,000	39,940	390	562	2,739	282	927	557	
Over 100,000	30,212	N	Q	2,788	2,092	345	552	
Year constructed								
Before 1946	10,008	318	Q	375	Q	Q	Q	
1946 to 1979	28,589	592	393	1,953	1,191	416	452	
1980 to 1999	29,033	616	449	2,244	518	681	600	
2000 to 2012	19,462	293	317	1,253	603	550	252	
Census region								
Northeast	15,534	292	316	1,007	538	529	345	
Midwest	18,919	369	174	1,058	496	366	334	
South	34,279	771	399	2,302	894	548	576	
West	18,360	387	363	1,459	447	339	Q	
Climate region¹								
Very cold/Cold	31,898	636	540	1,999	878	876	477	
Mixed-humid	27,873	636	326	1,929	790	427	597	
Mixed-dry/Hot-dry	12,037	229	Q	836	268	130	Q	
Hot-humid	12,831	250	135	917	364	322	Q	
Marine	2,454	Q	Q	Q	Q	Q	Q	
Number of floors								
One	39,809	1,205	949	697	Q	627	509	
Two	20,206	388	223	912	Q	523	293	
Three	8,140	162	Q	817	104	Q	Q	
Four to nine	13,535	Q	N	2,194	1,486	294	Q	
Ten or more	5,404	N	N	1,206	534	Q	Q	
Elevators and escalators (more than one may apply)								
Any elevators	32,120	Q	Q	4,145	2,260	978	755	
Number of elevators								
One	11,158	Q	Q	1,021	Q	382	Q	
Two to five	12,817	Q	N	1,921	430	356	Q	
Six or more	8,145	N	N	1,203	1,775	240	Q	
Any escalators	3,654	N	Q	720	141	Q	Q	
Number of workers (main shift)								
Fewer than 10	26,724	941	583	1,515	N	357	277	
10 to 99	37,613	820	632	2,848	Q	812	709	
100 or more	22,756	Q	Q	1,463	2,210	612	454	

Table B14. Selected principal building activity: part 2, floorspace, 2012

	Total floorspace (million square feet)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Weekly operating hours							
Fewer than 49	24,049	284	Q	Q	N	469	219
49 to 84	36,396	783	245	N	N	1,084	Q
85 to 167	9,395	640	702	Q	N	Q	N
Open continuously	17,253	113	281	5,733	2,374	Q	957
Ownership and occupancy							
Nongovernment owned	67,550	1,702	1,252	5,360	1,900	1,623	Q
Owner occupied	30,637	1,008	612	3,656	1,247	760	Q
Leased to tenant(s)	26,115	656	448	1,130	Q	381	Q
Owner occupied and leased	8,873	Q	Q	574	450	482	Q
Unoccupied	1,925	N	N	N	N	N	N
Government owned	19,543	Q	N	466	475	158	1,274
Federal	1,573	N	N	N	104	Q	Q
State	5,539	Q	N	Q	156	Q	Q
Local	12,431	Q	N	Q	214	Q	1,019
Party responsible for operation and maintenance of energy systems							
Building owner	73,702	1,409	849	5,292	2,198	1,632	1,394
Business owner or tenant	11,309	352	354	Q	Q	Q	Q
Property management	1,250	Q	Q	Q	Q	Q	N
Other	832	Q	Q	Q	Q	Q	Q
Provider of direct input on energy-related equipment purchases							
Building owner	76,271	1,469	881	5,447	2,185	1,617	1,355
Business owner or tenant	8,256	275	316	Q	Q	Q	Q
Property management	880	Q	Q	Q	Q	Q	N
Other	1,686	Q	Q	Q	Q	Q	Q
Number of establishments							
One	54,994	1,570	942	4,778	1,603	917	927
2 to 5	17,756	249	292	947	546	609	512
6 to 10	4,425	Q	Q	Q	Q	Q	N
11 to 20	3,704	N	N	Q	Q	Q	N
More than 20	3,821	N	N	Q	Q	Q	N
Currently unoccupied	2,393	N	N	N	N	N	N

Table B14. Selected principal building activity: part 2, floorspace, 2012

	Total floorspace (million square feet)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Campus or complex activity							
Not part of a campus or complex	52,275	1,418	1,121	3,196	528	1,163	762
Primary or secondary school	4,616	Q	N	Q	N	N	N
College or university	4,068	Q	N	637	Q	Q	Q
Office complex	3,456	Q	N	N	N	Q	Q
Retail complex	5,159	170	Q	Q	N	Q	N
Storage complex	3,212	Q	N	N	N	N	N
Religious campus or complex	1,932	Q	N	Q	N	N	N
Health care complex	3,362	Q	N	529	1,811	450	N
Lodging or resort complex	1,295	Q	N	1,156	N	N	N
Transportation complex	554	N	N	N	N	N	N
Government complex	2,107	N	N	Q	N	Q	Q
Other	5,057	Q	Q	Q	Q	Q	Q
Predominant exterior wall material							
Brick, stone, or stucco	40,463	1,021	383	3,349	1,410	1,075	695
Concrete (block or poured)	20,726	335	505	1,318	417	250	434
Concrete panels	8,693	Q	Q	608	316	Q	Q
Siding or shingles	5,750	347	153	429	Q	198	Q
Metal panels	8,673	Q	Q	Q	Q	Q	Q
Window glass	1,340	Q	Q	Q	Q	Q	N
Other	856	Q	Q	Q	Q	Q	N
No one major type	592	N	Q	Q	Q	N	N
Predominant roof material							
Metal surfacing	15,916	368	323	348	Q	177	222
Synthetic or rubber	25,817	372	315	1,744	1,044	705	191
Built-up	21,835	275	Q	1,006	970	420	525
Slate or tile shingles	4,306	212	Q	588	Q	Q	Q
Wooden materials (including shingles)	1,139	Q	Q	Q	Q	Q	Q
Asphalt, fiberglass, or other shingles	15,104	480	250	1,913	204	376	301
Concrete	1,642	Q	Q	Q	Q	Q	Q
Other	678	Q	N	Q	N	Q	N
No one major type	657	Q	Q	Q	Q	N	Q
Roof characteristics							
Roof tilt							
Flat	49,623	770	660	3,107	2,205	1,142	838
Shallow pitch	23,853	612	513	822	Q	368	Q
Steeper pitch	13,617	438	Q	1,897	Q	271	345
Cool roof	19,630	237	235	1,280	946	287	347

Table B14. Selected principal building activity: part 2, floorspace, 2012

	Total floorspace (million square feet)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Renovations in buildings constructed before 2008 (more than one may apply)							
Any type of renovation	42,216	815	456	3,049	1,838	907	616
Addition or annex	13,022	186	Q	1,011	1,285	179	Q
Reduction in floorspace	1,753	Q	Q	Q	180	Q	Q
Roof replacement	20,917	352	Q	1,573	1,167	327	322
Exterior wall replacement	4,230	Q	Q	246	251	Q	Q
Interior wall reconfiguration	21,340	400	Q	1,099	1,366	611	337
Window replacement	12,265	249	Q	1,040	624	230	Q
HVAC equipment upgrade	26,779	450	213	1,947	1,502	547	346
Lighting upgrade	25,503	450	363	1,790	1,467	452	286
Electrical upgrade	16,160	394	Q	1,035	1,131	248	Q
Plumbing system upgrade	13,828	424	Q	1,340	881	219	Q
Insulation upgrade	7,607	201	Q	622	505	Q	Q
Fire, safety, or security upgrade	17,196	362	Q	1,538	1,309	259	Q
Structural upgrade	3,913	127	Q	Q	252	Q	Q
Other	848	N	N	Q	Q	Q	Q
No renovations	39,154	891	728	2,374	244	622	758
Buildings constructed 2008 or later	5,723	Q	Q	403	292	Q	Q
Energy sources (more than one may apply)							
Electricity	84,869	1,819	1,252	5,826	2,374	1,781	1,440
Natural gas	58,725	1,394	846	4,918	2,113	1,179	1,007
Fuel oil	20,200	Q	Q	2,051	2,257	520	908
District heat	5,964	Q	N	630	576	Q	Q
District chilled water	4,608	Q	N	Q	477	Q	Q
Propane	7,706	237	Q	883	225	Q	Q
Other	3,826	Q	Q	Q	Q	Q	Q
Space-heating energy sources (more than one may apply)							
Electricity	49,030	1,017	883	3,878	1,008	1,076	643
Natural gas	49,511	1,023	667	3,153	1,627	989	851
Fuel oil	4,351	Q	Q	Q	430	Q	Q
District heat	5,925	Q	N	621	563	Q	Q
Propane	3,067	124	Q	Q	Q	Q	Q
Other	1,010	Q	Q	Q	Q	Q	Q
Primary space-heating energy source							
Electricity	26,205	695	461	2,814	160	658	Q
Natural gas	42,988	892	630	2,086	1,517	900	747
Fuel oil	2,542	Q	Q	Q	Q	Q	Q
District heat	5,797	Q	N	594	550	Q	Q
Propane	1,948	Q	Q	Q	N	Q	Q
Other	598	Q	Q	Q	Q	Q	Q

Table B14. Selected principal building activity: part 2, floorspace, 2012

Total floorspace (million square feet)							
Principal building activity							
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Cooling energy sources (more than one may apply)							
Electricity	76,034	1,668	1,190	5,308	2,227	1,739	1,358
Natural gas	732	N	N	Q	176	Q	Q
District chilled water	4,608	Q	N	Q	477	Q	Q
Water-heating energy sources (more than one may apply)							
Electricity	42,755	750	776	1,122	401	908	635
Natural gas	39,523	1,026	672	4,267	1,688	899	742
Fuel oil	1,911	Q	Q	Q	248	Q	Q
District heat	4,551	Q	N	573	489	Q	Q
Propane	1,575	135	Q	Q	Q	Q	Q
Cooking energy sources (more than one may apply)							
Electricity	25,151	847	651	2,250	1,564	388	622
Natural gas	24,770	1,263	588	3,167	1,826	Q	455
Propane	2,001	213	Q	362	Q	Q	Q
Energy end uses (more than one may apply)							
Buildings with space heating	80,078	1,762	1,196	5,696	2,354	1,754	1,391
Buildings with cooling	79,294	1,712	1,190	5,700	2,374	1,774	1,384
Buildings with water heating	79,015	1,817	1,252	5,821	2,374	1,779	1,341
Buildings with cooking	38,546	1,738	943	4,293	2,230	419	912
Buildings with manufacturing	5,078	Q	Q	Q	Q	Q	N
Buildings with electricity generation	25,642	Q	394	2,781	2,266	688	1,185
Percent of floorspace heated							
Not heated	7,015	Q	Q	Q	Q	Q	Q
1 to 50	10,130	185	Q	Q	Q	Q	Q
51 to 99	14,650	368	405	938	269	166	Q
100	55,298	1,209	743	4,572	2,069	1,495	1,200
Percent of floorspace cooled							
Not cooled	7,799	Q	Q	Q	N	Q	Q
1 to 50	18,891	184	Q	377	Q	Q	290
51 to 99	22,728	449	576	1,764	682	339	615
100	37,676	1,080	502	3,559	1,664	1,356	479
Percent lit when open							
Zero	322	N	N	Q	N	N	N
1 to 50	12,628	275	Q	1,059	Q	Q	Q
51 to 99	34,814	596	349	2,596	958	737	578
100	35,726	949	815	2,163	1,392	938	650
Building never open/electricity not used	3,603	N	N	N	N	N	Q

Table B14. Selected principal building activity: part 2, floorspace, 2012

	Total floorspace (million square feet)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Percent lit during off hours							
Zero	24,746	618	Q	Q	Q	494	Q
1 to 50	50,753	1,055	654	3,457	1,151	1,200	1,075
51 to 100	6,926	127	407	1,724	956	Q	Q
Building always open with no "off hours"	2,443	Q	Q	523	240	N	Q
Electricity not used	2,225	N	N	N	N	N	N
Heating equipment (more than one may apply)							
Heat pumps	11,846	146	Q	1,259	506	233	Q
Furnaces	8,654	266	Q	638	124	133	Q
Individual space heaters	20,766	256	336	2,168	501	466	253
District heat	5,925	Q	N	621	563	Q	Q
Boilers	22,443	145	Q	2,105	1,698	588	466
Packaged heating units	49,188	1,296	944	2,561	1,073	1,012	601
Other	1,574	Q	Q	Q	Q	N	Q
Cooling equipment (more than one may apply)							
Residential-type central air conditioners	14,765	471	357	749	Q	349	248
Heat pumps	12,538	189	Q	1,124	515	223	Q
Individual air conditioners	12,420	204	Q	2,349	537	Q	Q
District chilled water	4,608	Q	N	Q	477	Q	Q
Central chillers	17,041	Q	Q	1,658	1,883	572	416
Packaged air conditioning units	45,153	954	748	2,379	1,385	989	804
Swamp coolers	1,918	85	Q	Q	Q	Q	Q
Other	328	N	N	Q	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)							
Heating	27,558	830	305	2,069	522	436	378
Cooling	30,702	847	317	2,581	912	563	435
Water-heating equipment							
Centralized system	47,534	1,449	883	4,418	1,419	1,211	1,139
Distributed system	12,688	130	Q	369	Q	354	Q
Combination of centralized and distributed system	18,793	237	Q	1,034	860	Q	Q

Table B14. Selected principal building activity: part 2, floorspace, 2012

	Total floorspace (million square feet)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Lighting equipment types (more than one may apply)							
Incandescent	38,406	924	443	3,585	1,745	646	623
Standard fluorescent	80,081	1,671	1,232	5,409	2,373	1,701	1,375
Compact fluorescent	53,816	1,177	560	5,258	2,260	1,275	1,086
High-intensity discharge (HID)	23,396	121	Q	1,848	1,217	231	404
Halogen	28,059	496	271	2,696	1,452	423	416
LED	22,071	275	323	2,024	1,647	598	360
Other	446	Q	N	Q	Q	N	N
Refrigeration equipment (more than one may apply)							
Any refrigeration	73,645	1,819	1,248	5,713	2,374	1,686	1,384
Walk-in units	28,361	1,524	1,026	3,126	2,216	Q	Q
Cases or cabinets	28,719	1,278	1,091	2,754	1,890	351	Q
Large cold storage areas	4,171	Q	285	Q	311	Q	Q
Commercial ice makers	32,734	1,338	688	4,303	2,293	598	521
Residential-type or compact units	62,381	929	505	4,554	2,059	1,619	1,203
Vending machines	43,936	207	670	4,286	2,297	936	944
No refrigeration	13,448	N	Q	Q	N	Q	Q
Office equipment (more than one may apply)							
Desktop computers	77,063	1,387	1,040	5,373	2,374	1,773	1,411
With flat screen monitors	76,160	1,303	1,032	5,328	2,369	1,773	1,402
With multiple monitors	30,946	245	Q	1,112	1,854	752	719
Laptop computers	63,486	787	391	4,323	2,312	1,531	1,152
Dedicated servers	53,369	486	712	3,496	2,141	1,067	920
Laser printers	54,256	640	776	3,884	2,042	1,375	933
Inkjet printers	36,235	983	431	2,263	923	737	757
FAX machines	66,682	969	993	4,468	2,104	1,643	1,182
Photocopiers	59,277	360	492	3,942	2,267	1,459	1,092
Number of desktop computers							
None	10,030	432	212	452	N	Q	Q
1 to 4	15,669	1,118	477	1,183	N	224	360
5 to 9	9,422	214	Q	824	Q	165	Q
10 to 19	9,388	Q	Q	706	Q	276	Q
20 to 49	13,094	Q	Q	1,336	Q	342	Q
50 to 99	8,284	N	N	486	118	278	Q
100 to 249	9,728	N	N	Q	370	330	Q
250 or more	11,478	N	N	Q	1,746	157	Q

Table B14. Selected principal building activity: part 2, floorspace, 2012

	Total floorspace (million square feet)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Number of laptop computers							
None	23,607	1,033	860	1,502	Q	250	288
1 to 4	21,161	674	329	1,330	Q	434	363
5 to 9	8,345	Q	Q	613	Q	177	Q
10 to 19	8,343	Q	N	684	306	354	Q
20 to 49	9,643	N	N	804	295	258	Q
50 to 99	5,234	N	N	Q	316	Q	Q
100 to 249	5,217	N	N	Q	459	Q	Q
250 or more	5,542	N	N	Q	701	Q	Q
Number of dedicated servers							
None	33,724	1,333	540	2,330	233	715	519
1 to 4	34,097	467	712	2,601	373	731	455
5 to 9	6,241	Q	N	Q	263	Q	Q
10 to 19	5,711	N	N	Q	276	Q	Q
20 to 49	3,758	N	N	Q	472	Q	Q
50 or more	3,562	N	N	Q	757	Q	Q
Number of photocopiers							
None	27,816	1,459	759	1,884	107	322	348
One	17,080	292	375	1,324	Q	298	294
2 to 4	20,312	Q	Q	1,494	Q	531	Q
5 to 9	8,863	N	Q	358	163	Q	Q
10 or more	13,022	N	N	766	1,967	514	498
Number of TVs or video displays							
None	24,339	458	508	Q	Q	275	Q
One	9,990	266	300	Q	N	171	Q
2 to 4	16,465	568	231	158	Q	531	351
5 to 9	8,148	341	Q	Q	Q	269	Q
10 to 19	8,168	123	Q	324	Q	Q	Q
20 to 49	8,058	Q	Q	514	142	242	Q
50 to 99	4,378	Q	N	894	253	Q	Q
100 or more	7,547	N	N	3,312	1,855	Q	Q
Food preparation or serving areas in non-food service buildings (more than one may apply)							
Snack bar or concession stand	9,884	N	357	934	913	Q	Q
Fast food or small restaurant	9,787	N	272	1,319	431	Q	Q
Cafeteria or large restaurant	15,222	N	Q	1,842	1,906	Q	Q
Commercial kitchen/ food preparation area	16,150	N	447	2,954	1,701	Q	401
Small kitchen area	14,054	N	189	1,912	667	302	403

Table B14. Selected principal building activity: part 2, floorspace, 2012

	Total floorspace (million square feet)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	In-patient	Out-patient	Public order and safety
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Separate computer areas (more than one may apply)							
Data center or server farm	11,105	Q	N	600	1,478	Q	Q
Computer-based training room	17,723	Q	Q	639	1,503	251	Q
Student or public computer center	14,341	Q	Q	1,443	817	Q	Q
HVAC conservation features (more than one may apply)							
Economizer cycle	30,749	299	Q	2,035	1,856	798	573
Regular HVAC maintenance	69,244	1,313	954	5,035	2,368	1,557	1,280
Building automation system (BAS) ²	37,051	256	456	2,249	2,201	850	618
Window and interior lighting features (more than one may apply)							
Multipaned windows	60,362	1,209	856	4,598	2,180	1,493	1,064
Tinted window glass	45,025	655	414	2,424	1,774	1,090	793
Reflective window glass	15,908	200	Q	835	1,052	394	Q
External overhangs or awnings	32,188	967	631	2,121	1,092	577	337
Skylights or atriums	22,261	130	Q	1,307	1,220	300	Q
Light scheduling	30,263	383	642	2,101	1,029	566	465
Occupancy sensors	35,871	276	318	2,112	1,744	545	684
Multi-level lighting or dimming	14,534	360	Q	1,413	826	Q	Q
Daylight harvesting	6,114	Q	Q	Q	350	Q	Q
Demand responsive lighting	4,738	Q	Q	Q	Q	Q	Q
Building automation system (BAS) for lighting ²	12,068	Q	Q	319	327	Q	Q
Equipment usage reduced when building not in full use (more than one may apply)							
Heating	63,167	1,411	670	2,870	1,238	1,314	711
Cooling	62,516	1,386	604	3,023	1,228	1,342	780
Lighting	78,594	1,734	943	4,838	2,076	1,777	1,314

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.

Release date: February 2015

Revised date: May 2016

Table B15. Employment size category, number of buildings, 2012

	Number of buildings (thousand)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	5,557	2,892	1,085	731	513	206	93	37
Building floorspace (square feet)								
1,001 to 5,000	2,777	1,984	547	217	30	N	N	N
5,001 to 10,000	1,229	550	331	239	108	Q	N	N
10,001 to 25,000	884	279	159	195	202	41	Q	Q
25,001 to 50,000	332	52	39	58	100	64	18	Q
50,001 to 100,000	199	21	7	17	56	62	33	4
100,001 to 200,000	90	5	Q	4	14	32	19	13
200,001 to 500,000	38	Q	Q	Q	2	6	15	12
Over 500,000	8	Q	Q	Q	Q	Q	1	6
Principal building activity								
Education	389	122	71	50	82	45	17	3
Food sales	177	118	32	Q	Q	Q	Q	N
Food service	380	136	119	88	35	N	Q	N
Health care	157	Q	60	32	21	9	9	5
Inpatient	10	N	N	N	Q	Q	2	4
Outpatient	147	Q	60	32	20	7	7	1
Lodging	158	73	29	22	18	10	5	1
Mercantile	602	265	132	95	72	27	10	2
Retail (other than mall)	438	251	89	59	26	9	Q	Q
Enclosed and strip malls	164	Q	42	37	45	18	6	1
Office	1,012	320	254	168	144	70	34	22
Public assembly	352	230	65	32	15	6	2	1
Public order and safety	84	Q	Q	Q	Q	9	Q	Q
Religious worship	412	296	61	42	11	Q	Q	N
Service	619	398	119	61	30	Q	Q	Q
Warehouse and storage	796	528	104	89	54	12	7	2
Other	125	75	Q	Q	Q	Q	Q	Q
Vacant	296	283	Q	Q	Q	Q	Q	Q
Year constructed								
Before 1920	362	235	60	37	20	6	4	1
1920 to 1945	488	324	87	30	28	13	5	2
1946 to 1959	599	380	96	59	32	25	6	2
1960 to 1969	639	316	133	81	68	26	12	2
1970 to 1979	684	329	145	107	65	21	12	6
1980 to 1989	915	435	178	131	105	38	19	9
1990 to 1999	845	421	168	124	85	30	12	6
2000 to 2003	375	171	73	57	43	17	10	4
2004 to 2007	347	158	70	54	37	18	8	2
2008 to 2012	303	123	76	50	30	13	7	2

Table B15. Employment size category, number of buildings, 2012

	Number of buildings (thousand)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	5,557	2,892	1,085	731	513	206	93	37
Census region								
Northeast	805	414	154	106	68	31	21	10
Midwest	1,237	715	224	129	104	41	18	7
South	2,247	1,163	448	297	198	97	32	11
West	1,267	600	259	200	143	36	22	8
Climate region¹								
Very cold/Cold	2,031	1,099	383	247	183	71	35	13
Mixed-humid	1,743	943	312	227	152	69	29	12
Mixed-dry/Hot-dry	837	380	189	138	85	25	17	4
Hot-humid	799	392	178	103	73	36	10	6
Marine	147	Q	Q	17	20	5	Q	2
Number of floors								
One	3,836	2,191	767	475	282	87	31	3
Two	1,158	494	220	197	152	65	24	6
Three	374	164	77	42	55	21	11	4
Four to nine	177	42	21	16	24	31	27	15
Ten or more	13	Q	Q	Q	Q	1	2	8
Elevators and escalators (more than one may apply)								
Any elevators	405	55	34	53	96	78	56	33
Number of elevators								
One	272	45	31	46	79	46	20	5
Two to five	118	10	Q	7	17	32	33	17
Six or more	16	Q	Q	N	Q	Q	3	12
Any escalators	10	Q	N	Q	Q	Q	1	3
Weekly operating hours								
Fewer than 40	1,149	982	98	46	17	Q	Q	Q
40 to 48	1,346	612	353	191	121	49	18	3
49 to 60	1,244	495	296	212	150	52	26	13
61 to 84	764	278	169	137	115	42	18	6
85 to 167	479	217	84	76	62	28	10	2
Open continuously	575	308	86	70	49	29	21	12
Ownership and occupancy								
Nongovernment owned	4,781	2,586	941	613	411	133	68	29
Owner occupied	2,466	1,418	506	294	165	49	27	8
Leased to tenant(s)	1,745	838	345	263	185	69	29	15
Owner occupied and leased	349	108	90	56	60	15	13	6
Unoccupied	221	221	N	N	N	N	N	N
Government owned	776	306	144	118	102	72	25	8
Federal	33	Q	Q	Q	Q	Q	Q	1
State	185	77	28	24	23	24	5	3
Local	558	218	111	90	74	44	17	4

Table B15. Employment size category, number of buildings, 2012

	Number of buildings (thousand)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	5,557	2,892	1,085	731	513	206	93	37
Party responsible for operation and maintenance of energy systems								
Building owner	4,715	2,554	889	586	402	171	80	33
Business owner or tenant	724	295	161	129	98	29	10	3
Property management	54	Q	Q	Q	Q	Q	Q	1
Other	64	Q	Q	Q	Q	Q	Q	Q
Provider of direct input on energy-related equipment purchases								
Building owner	4,876	2,626	932	604	421	177	83	34
Business owner or tenant	540	219	112	106	71	22	8	2
Property management	35	Q	Q	Q	Q	Q	Q	Q
Other	106	34	32	Q	19	Q	Q	Q
Number of establishments								
One	4,205	2,325	846	526	312	127	51	17
2 to 5	862	278	215	171	123	42	25	8
6 to 10	147	Q	21	29	50	16	4	4
11 to 20	68	Q	Q	Q	26	16	7	3
More than 20	27	Q	Q	N	Q	5	7	5
Currently unoccupied	248	248	N	N	N	N	N	N
Energy sources (more than one may apply)								
Electricity	5,234	2,570	1,084	731	513	206	93	37
Natural gas	2,933	1,225	606	498	348	154	74	27
Fuel oil	467	214	73	45	44	39	30	21
District heat	48	Q	Q	Q	11	7	7	7
District chilled water	54	Q	Q	Q	9	9	6	5
Propane	510	286	98	66	40	11	7	2
Other	172	84	36	24	11	9	6	2
Space-heating energy sources (more than one may apply)								
Electricity	2,858	1,217	658	425	341	141	54	22
Natural gas	2,612	1,126	527	434	306	134	64	21
Fuel oil	270	171	43	22	16	11	5	2
District heat	48	Q	Q	Q	11	7	7	6
Propane	342	218	55	40	23	Q	Q	Q
Other	101	63	Q	Q	Q	Q	Q	Q
Primary space-heating energy source								
Electricity	1,819	788	467	269	186	74	24	11
Natural gas	2,322	1,040	451	370	274	112	58	18
Fuel oil	205	136	33	Q	Q	7	2	Q
District heat	47	Q	Q	Q	11	7	7	6
Propane	261	172	46	27	Q	Q	Q	Q
Other	67	41	Q	Q	Q	Q	Q	Q

Table B15. Employment size category, number of buildings, 2012

	Number of buildings (thousand)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	5,557	2,892	1,085	731	513	206	93	37
Cooling energy sources (more than one may apply)								
Electricity	4,413	1,918	994	696	486	197	87	35
Natural gas	12	Q	N	N	Q	Q	Q	1
District chilled water	54	Q	Q	Q	9	9	6	5
Water-heating energy sources (more than one may apply)								
Electricity	2,658	1,207	606	376	290	115	45	20
Natural gas	1,758	644	354	339	239	110	55	17
Fuel oil	77	39	Q	Q	Q	Q	2	1
District heat	25	Q	Q	Q	5	4	6	5
Propane	142	71	37	23	Q	Q	Q	Q
Cooking energy sources (more than one may apply)								
Electricity	1,010	416	206	163	124	62	25	14
Natural gas	740	243	131	141	121	61	30	13
Propane	144	81	Q	22	Q	5	2	Q
Energy end uses (more than one may apply)								
Buildings with space heating	4,722	2,184	1,020	692	494	203	92	37
Buildings with cooling	4,461	1,932	999	699	498	203	93	37
Buildings with water heating	4,423	1,917	977	700	495	203	93	37
Buildings with cooking	1,589	660	308	271	197	92	40	21
Buildings with manufacturing	259	92	61	42	44	13	5	2
Buildings with electricity generation	410	89	67	65	63	58	45	23
Percent of floorspace heated								
Not heated	835	708	65	39	19	Q	Q	Q
1 to 50	697	366	165	92	57	10	5	1
51 to 99	727	331	153	107	74	41	14	7
100	3,298	1,487	702	493	362	152	74	29
Percent of floorspace cooled								
Not cooled	1,096	960	86	32	15	Q	Q	N
1 to 50	1,173	593	254	175	112	26	12	2
51 to 99	897	321	169	174	130	64	27	12
100	2,391	1,018	576	351	256	114	54	23
Percent lit when open								
Zero	70	68	Q	Q	N	N	N	N
1 to 50	1,099	754	201	83	45	12	3	1
51 to 99	1,666	616	372	284	234	103	44	13
100	2,222	957	508	364	233	90	46	23
Building never open/electricity not used	501	496	Q	N	Q	N	N	N

Table B15. Employment size category, number of buildings, 2012

	Number of buildings (thousand)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	5,557	2,892	1,085	731	513	206	93	37
Percent lit during off hours								
Zero	2,489	1,484	513	274	156	38	17	7
1 to 50	2,441	954	518	413	319	151	64	23
51 to 100	202	79	37	34	27	12	8	5
Building always open with no "off hours"	102	53	Q	Q	12	5	Q	1
Electricity not used	323	322	Q	N	N	N	N	N
Heating equipment (more than one may apply)								
Heat pumps	628	246	159	85	81	38	13	5
Furnaces	755	330	186	142	69	23	5	1
Individual space heaters	1,247	672	239	149	114	46	18	8
District heat	48	Q	Q	Q	11	7	7	6
Boilers	544	182	79	77	88	58	44	16
Packaged heating units	2,802	1,171	618	458	342	139	55	18
Other	62	Q	Q	Q	10	Q	2	Q
Cooling equipment (more than one may apply)								
Residential-type central air conditioners	1,546	736	379	255	136	30	10	1
Heat pumps	692	272	171	95	96	39	13	6
Individual air conditioners	709	389	127	88	60	23	16	5
District chilled water	54	Q	Q	Q	9	9	6	5
Central chillers	163	23	16	17	28	35	27	19
Packaged air conditioning units	1,909	644	418	353	288	132	53	21
Swamp coolers	109	48	26	Q	8	6	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)								
Heating	1,874	892	418	248	194	82	31	9
Cooling	1,971	913	440	276	212	83	35	13
Water-heating equipment								
Centralized system	3,348	1,547	777	515	319	122	51	17
Distributed system	690	292	140	118	78	36	20	6
Combination of centralized and distributed system	385	78	61	66	98	46	23	14
Lighting equipment types (more than one may apply)								
Incandescent	1,826	813	364	281	206	98	43	21
Standard fluorescent	4,649	2,102	1,018	703	498	199	92	37
Compact fluorescent	2,302	885	501	385	292	140	66	33
High-intensity discharge (HID)	525	152	108	82	86	53	31	14
Halogen	905	327	180	148	130	70	32	18
LED	473	119	76	89	87	55	30	16
Other	10	Q	Q	Q	Q	Q	Q	Q

Table B15. Employment size category, number of buildings, 2012

	Number of buildings (thousand)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	5,557	2,892	1,085	731	513	206	93	37
Refrigeration equipment (more than one may apply)								
Any refrigeration	3,984	1,697	899	632	445	190	86	35
Walk-in units	811	229	169	150	139	75	34	16
Cases or cabinets	915	312	203	151	133	59	38	18
Large cold storage areas	78	Q	Q	Q	14	8	7	2
Commercial ice makers	846	232	167	160	141	80	43	23
Residential-type or compact units	3,388	1,449	764	532	379	162	72	30
Vending machines	960	195	169	159	205	132	69	31
No refrigeration	1,573	1,195	187	99	68	16	8	2
Office equipment (more than one may apply)								
Desktop computers	3,977	1,509	964	673	498	203	93	36
With flat screen monitors	3,847	1,406	949	665	496	203	93	36
With multiple monitors	911	174	190	171	205	84	59	28
Laptop computers	2,730	946	586	480	410	185	87	36
Dedicated servers	1,748	345	394	385	343	167	79	34
Laser printers	2,339	703	586	428	364	156	72	30
Inkjet printers	2,187	958	502	381	202	88	43	15
FAX machines	3,185	1,124	755	566	441	181	85	33
Photocopiers	2,163	573	486	421	386	179	84	34
Number of desktop computers								
None	1,581	1,382	121	58	Q	Q	Q	Q
1 to 4	2,039	1,283	468	211	70	Q	Q	Q
5 to 9	821	184	361	184	78	10	Q	Q
10 to 19	482	24	99	214	126	17	Q	Q
20 to 49	355	Q	32	57	161	70	17	Q
50 to 99	143	N	Q	Q	43	72	16	2
100 to 249	92	Q	N	Q	18	23	43	8
250 or more	44	N	N	Q	Q	8	11	23
Number of laptop computers								
None	2,827	1,946	499	251	103	21	7	Q
1 to 4	1,944	884	502	348	171	32	7	Q
5 to 9	350	41	69	98	102	30	8	Q
10 to 19	181	Q	Q	24	72	49	17	3
20 to 49	144	Q	Q	Q	52	47	26	6
50 to 99	58	Q	Q	Q	8	18	15	7
100 to 249	35	Q	Q	Q	7	10	10	7
250 or more	20	Q	Q	Q	Q	4	11	11

Table B15. Employment size category, number of buildings, 2012

	Number of buildings (thousand)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	5,557	2,892	1,085	731	513	206	93	37
Number of dedicated servers								
None	3,809	2,546	691	347	170	38	15	3
1 to 4	1,562	340	389	371	300	119	35	9
5 to 9	97	Q	Q	Q	27	30	19	4
10 to 19	50	Q	Q	Q	Q	13	14	7
20 to 49	25	N	N	Q	Q	5	9	6
50 or more	13	Q	N	Q	Q	Q	Q	8
Number of photocopiers								
None	3,394	2,319	599	310	127	26	10	3
One	1,325	516	377	267	134	26	5	Q
2 to 4	648	56	106	148	210	99	25	4
5 to 9	116	Q	Q	Q	33	40	28	6
10 or more	75	N	N	Q	Q	14	26	23
Number of TVs or video displays								
None	2,718	1,798	499	235	138	35	10	2
One	1,145	602	257	175	83	24	Q	Q
2 to 4	1,035	367	224	224	142	54	21	4
5 to 9	314	78	69	62	57	24	18	6
10 to 19	154	24	Q	13	50	26	14	9
20 to 49	106	Q	Q	Q	28	26	14	5
50 to 99	48	Q	Q	7	9	8	10	3
100 or more	37	Q	Q	5	7	8	4	7
Food preparation or serving areas in non-food service buildings (more than one may apply)								
Snack bar or concession stand	153	57	Q	26	21	18	12	6
Fast food or small restaurant	173	27	33	36	39	20	11	7
Cafeteria or large restaurant	130	Q	Q	9	37	43	18	12
Commercial kitchen/ food preparation area	282	87	19	43	61	44	20	8
Small kitchen area	736	387	130	108	66	27	13	6
Separate computer areas (more than one may apply)								
Data center or server farm	97	Q	Q	Q	18	19	22	16
Computer-based training room	244	Q	31	35	68	51	25	16
Student or public computer center	238	38	30	34	64	46	21	6
HVAC conservation features (more than one may apply)								
Economizer cycle	601	132	93	94	128	83	48	24
Regular HVAC maintenance	3,178	1,171	690	549	449	190	92	37
Building automation system (BAS) ²	781	198	146	109	144	93	62	29

Table B15. Employment size category, number of buildings, 2012

	Number of buildings (thousand)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	5,557	2,892	1,085	731	513	206	93	37
Window and interior lighting features (more than one may apply)								
Multipaned windows	3,012	1,253	664	488	351	157	72	28
Tinted window glass	1,875	685	412	301	264	125	62	26
Reflective window glass	549	180	124	87	80	42	23	13
External overhangs or awnings	1,867	781	433	306	214	87	33	12
Skylights or atriums	591	187	117	94	100	55	26	12
Light scheduling	918	271	205	163	140	79	38	21
Occupancy sensors	813	167	153	149	160	103	56	25
Multi-level lighting or dimming	349	89	57	61	76	38	19	9
Daylight harvesting	125	35	28	Q	25	14	10	4
Demand responsive lighting	176	64	30	31	28	16	6	1
Building automation system (BAS) for lighting ²	208	38	43	33	42	28	16	9
Equipment usage reduced when building not in full use (more than one may apply)								
Heating	3,699	1,678	792	557	401	165	77	29
Cooling	3,517	1,497	789	562	397	166	77	29
Lighting	4,757	2,200	1,046	702	489	197	87	36

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.

Release date: February 2015

Revised date: May 2016

Table B16. Employment size category, floorspace, 2012

	Total floorspace (million square feet)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	87,093	17,751	8,973	9,623	14,514	13,476	10,941	11,815
Building floorspace (square feet)								
1,001 to 5,000	8,041	5,362	1,768	794	117	N	N	N
5,001 to 10,000	8,900	3,843	2,389	1,793	869	Q	N	N
10,001 to 25,000	14,105	4,334	2,454	3,135	3,314	719	Q	Q
25,001 to 50,000	11,917	1,791	1,437	2,017	3,615	2,339	686	Q
50,001 to 100,000	13,918	1,332	447	1,051	4,036	4,388	2,328	337
100,001 to 200,000	12,415	677	Q	574	1,903	4,152	2,861	1,879
200,001 to 500,000	10,724	Q	Q	Q	595	1,544	4,078	3,842
Over 500,000	7,074	Q	Q	Q	Q	Q	845	5,718
Principal building activity								
Education	12,239	504	544	774	3,156	3,829	2,899	533
Food sales	1,252	422	161	Q	Q	Q	Q	N
Food service	1,819	434	507	518	303	N	Q	N
Health care	4,155	Q	305	220	368	388	681	2,141
Inpatient	2,374	N	N	N	Q	Q	236	1,974
Outpatient	1,781	Q	305	220	344	249	444	167
Lodging	5,826	998	516	900	1,088	861	654	809
Mercantile	11,330	1,236	1,291	1,232	2,590	2,333	1,789	859
Retail (other than mall)	5,439	1,135	888	841	993	861	Q	Q
Enclosed and strip malls	5,890	Q	403	391	1,597	1,472	1,194	732
Office	15,952	1,003	1,206	1,276	2,134	2,556	2,059	5,718
Public assembly	5,559	1,695	941	540	635	537	596	614
Public order and safety	1,440	Q	Q	Q	Q	421	Q	Q
Religious worship	4,557	2,397	751	595	560	Q	Q	N
Service	4,630	1,671	780	794	778	Q	Q	Q
Warehouse and storage	13,077	4,003	1,496	2,201	2,028	1,330	1,473	547
Other	2,002	393	Q	Q	Q	Q	Q	Q
Vacant	3,256	2,747	Q	Q	Q	Q	Q	Q
Year constructed								
Before 1920	3,983	1,586	407	363	392	458	356	421
1920 to 1945	6,025	1,752	714	480	675	835	456	1,114
1946 to 1959	7,381	1,890	723	755	1,043	1,472	812	686
1960 to 1969	10,362	2,109	1,185	1,167	2,016	1,610	1,321	955
1970 to 1979	10,846	2,100	1,175	1,425	1,706	1,171	1,139	2,131
1980 to 1989	15,230	2,678	1,443	1,566	2,771	2,371	1,849	2,552
1990 to 1999	13,803	2,546	1,252	1,686	2,460	2,305	1,802	1,752
2000 to 2003	7,215	1,020	685	754	1,344	1,082	1,377	954
2004 to 2007	6,524	1,118	647	715	1,082	1,216	981	765
2008 to 2012	5,723	954	743	711	1,026	955	849	485

Table B16. Employment size category, floorspace, 2012

	Total floorspace (million square feet)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	87,093	17,751	8,973	9,623	14,514	13,476	10,941	11,815
Census region								
Northeast	15,534	2,692	1,282	1,390	1,903	2,385	2,530	3,352
Midwest	18,919	4,286	1,910	1,880	3,372	2,761	2,314	2,397
South	34,279	7,336	3,553	3,814	5,611	6,076	4,163	3,726
West	18,360	3,438	2,227	2,538	3,628	2,254	1,934	2,341
Climate region¹								
Very cold/Cold	31,898	6,604	3,165	3,373	5,387	4,891	4,203	4,276
Mixed-humid	27,873	5,458	2,519	2,883	4,280	4,634	3,744	4,356
Mixed-dry/Hot-dry	12,037	2,616	1,537	1,708	2,115	1,441	1,554	1,066
Hot-humid	12,831	2,720	1,505	1,382	2,154	2,209	1,211	1,651
Marine	2,454	354	Q	277	577	302	Q	466
Number of floors								
One	39,809	11,548	5,638	5,709	6,907	5,841	3,289	876
Two	20,206	3,555	2,234	2,560	4,279	3,670	2,711	1,196
Three	8,140	1,547	715	710	1,764	1,372	1,240	792
Four to nine	13,535	1,002	379	597	1,442	2,290	3,289	4,535
Ten or more	5,404	Q	Q	Q	Q	303	412	4,415
Elevators and escalators (more than one may apply)								
Any elevators	32,120	1,669	796	1,532	4,453	5,970	6,960	10,741
Number of elevators								
One	11,158	839	664	1,082	2,907	2,915	2,023	729
Two to five	12,817	731	Q	451	1,505	2,754	4,079	3,178
Six or more	8,145	Q	Q	N	Q	Q	857	6,834
Any escalators	3,654	Q	N	Q	Q	Q	372	2,802
Weekly operating hours								
Fewer than 40	8,220	6,143	709	480	369	Q	Q	Q
40 to 48	15,828	3,098	2,383	2,200	3,156	2,875	1,466	649
49 to 60	20,529	2,890	2,509	3,043	3,861	2,696	2,534	2,996
61 to 84	15,867	1,774	1,638	1,704	3,191	2,799	2,646	2,116
85 to 167	9,395	1,296	716	759	1,941	2,400	1,485	798
Open continuously	17,253	2,550	1,019	1,437	1,998	2,408	2,640	5,203
Ownership and occupancy								
Nongovernment owned	67,550	15,635	7,865	7,911	11,024	8,465	7,679	8,971
Owner occupied	30,637	8,458	4,190	4,011	4,570	3,455	3,345	2,608
Leased to tenant(s)	26,115	4,456	2,798	3,222	4,568	3,914	3,152	4,004
Owner occupied and leased	8,873	795	877	679	1,886	1,096	1,182	2,359
Unoccupied	1,925	1,925	N	N	N	N	N	N
Government owned	19,543	2,116	1,108	1,711	3,490	5,011	3,262	2,844
Federal	1,573	Q	Q	Q	Q	Q	Q	873
State	5,539	675	279	505	1,036	1,522	720	802
Local	12,431	1,392	764	1,096	2,313	3,347	2,351	1,168

Table B16. Employment size category, floorspace, 2012

	Total floorspace (million square feet)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	87,093	17,751	8,973	9,623	14,514	13,476	10,941	11,815
Party responsible for operation and maintenance of energy systems								
Building owner	73,702	16,098	7,471	7,793	11,425	11,305	9,045	10,564
Business owner or tenant	11,309	1,395	1,234	1,671	2,796	1,824	1,550	840
Property management	1,250	Q	Q	Q	Q	Q	Q	373
Other	832	Q	Q	Q	Q	Q	Q	Q
Provider of direct input on energy-related equipment purchases								
Building owner	76,271	16,547	7,869	8,117	12,135	11,719	9,282	10,602
Business owner or tenant	8,256	935	840	1,206	1,951	1,271	1,249	803
Property management	880	Q	Q	Q	Q	Q	Q	Q
Other	1,686	174	225	Q	379	Q	Q	Q
Number of establishments								
One	54,994	13,276	6,712	6,905	8,722	8,068	6,459	4,853
2 to 5	17,756	1,785	2,002	2,291	3,443	3,184	2,404	2,647
6 to 10	4,425	Q	195	343	1,362	924	378	1,010
11 to 20	3,704	Q	Q	Q	855	955	772	939
More than 20	3,821	Q	Q	N	Q	346	928	2,366
Currently unoccupied	2,393	2,393	N	N	N	N	N	N
Energy sources (more than one may apply)								
Electricity	84,869	15,530	8,970	9,623	14,514	13,476	10,941	11,815
Natural gas	58,725	7,858	5,355	6,799	10,613	10,320	8,880	8,900
Fuel oil	20,200	1,489	717	765	1,824	3,137	4,040	8,229
District heat	5,964	Q	Q	Q	623	669	1,096	3,082
District chilled water	4,608	Q	Q	Q	505	683	982	1,986
Propane	7,706	1,689	902	932	1,246	1,052	958	927
Other	3,826	543	359	365	416	656	870	618
Space-heating energy sources (more than one may apply)								
Electricity	49,030	6,806	5,390	5,488	9,380	8,881	6,410	6,676
Natural gas	49,511	7,144	4,655	5,914	9,275	8,947	7,504	6,072
Fuel oil	4,351	998	348	311	555	786	710	644
District heat	5,925	Q	Q	Q	623	669	1,096	3,053
Propane	3,067	1,222	465	390	388	Q	Q	Q
Other	1,010	284	Q	Q	Q	Q	Q	Q
Primary space-heating energy source								
Electricity	26,205	4,326	3,673	3,380	4,997	4,367	2,446	3,015
Natural gas	42,988	6,471	3,941	4,804	7,987	7,604	6,863	5,317
Fuel oil	2,542	831	185	Q	Q	488	316	Q
District heat	5,797	Q	Q	Q	623	610	1,091	3,015
Propane	1,948	963	412	287	Q	Q	Q	Q
Other	598	167	Q	Q	Q	Q	Q	Q

Table B16. Employment size category, floorspace, 2012

	Total floorspace (million square feet)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	87,093	17,751	8,973	9,623	14,514	13,476	10,941	11,815
Cooling energy sources (more than one may apply)								
Electricity	76,034	11,383	8,177	9,070	13,707	12,844	10,076	10,777
Natural gas	732	Q	N	N	Q	Q	Q	378
District chilled water	4,608	Q	Q	Q	505	683	982	1,986
Water-heating energy sources (more than one may apply)								
Electricity	42,755	6,498	4,882	4,980	7,767	7,104	5,572	5,951
Natural gas	39,523	4,706	3,280	4,518	7,529	7,742	6,380	5,367
Fuel oil	1,911	319	Q	Q	Q	Q	347	332
District heat	4,551	Q	Q	Q	331	409	961	2,581
Propane	1,575	512	289	210	Q	Q	Q	Q
Cooking energy sources (more than one may apply)								
Electricity	25,151	2,425	1,747	2,080	3,839	5,012	3,989	6,060
Natural gas	24,770	1,747	1,095	1,501	4,502	5,178	4,852	5,895
Propane	2,001	510	Q	250	Q	438	268	Q
Energy end uses (more than one may apply)								
Buildings with space heating	80,078	12,931	8,492	8,970	14,126	13,184	10,805	11,570
Buildings with cooling	79,294	11,595	8,238	9,190	14,219	13,323	10,913	11,815
Buildings with water heating	79,015	11,783	8,205	9,137	14,097	13,171	10,912	11,711
Buildings with cooking	38,546	4,138	2,501	3,203	6,481	7,501	6,181	8,540
Buildings with manufacturing	5,078	556	519	787	1,231	965	508	512
Buildings with electricity generation	25,642	1,002	857	1,058	2,923	4,761	6,177	8,863
Percent of floorspace heated								
Not heated	7,015	4,820	481	652	389	Q	Q	Q
1 to 50	10,130	2,527	2,012	1,543	1,988	968	648	444
51 to 99	14,650	1,904	1,369	1,323	2,561	2,870	1,721	2,900
100	55,298	8,500	5,111	6,104	9,576	9,345	8,436	8,226
Percent of floorspace cooled								
Not cooled	7,799	6,156	735	433	295	Q	Q	N
1 to 50	18,891	4,108	2,862	3,207	3,724	2,240	1,977	775
51 to 99	22,728	2,234	1,525	2,227	3,822	4,519	3,543	4,858
100	37,676	5,253	3,851	3,757	6,674	6,565	5,394	6,182
Percent lit when open								
Zero	322	290	Q	Q	N	N	N	N
1 to 50	12,628	5,292	2,241	1,545	1,750	908	518	375
51 to 99	34,814	4,069	3,117	3,883	6,751	6,773	5,492	4,729
100	35,726	4,524	3,567	4,186	6,011	5,795	4,932	6,711
Building never open/electricity not used	3,603	3,576	Q	N	Q	N	N	N

Table B16. Employment size category, floorspace, 2012

	Total floorspace (million square feet)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	87,093	17,751	8,973	9,623	14,514	13,476	10,941	11,815
Percent lit during off hours								
Zero	24,746	8,412	3,865	3,571	3,546	2,276	1,747	1,330
1 to 50	50,753	6,180	4,582	5,367	9,737	9,673	7,520	7,692
51 to 100	6,926	597	401	545	866	1,060	1,172	2,285
Building always open with no "off hours"	2,443	340	Q	Q	366	467	Q	507
Electricity not used	2,225	2,221	Q	N	N	N	N	N
Heating equipment (more than one may apply)								
Heat pumps	11,846	1,366	1,230	1,234	2,268	2,409	1,490	1,849
Furnaces	8,654	1,921	1,264	1,758	1,678	1,278	387	367
Individual space heaters	20,766	3,710	2,274	2,219	3,752	3,323	2,390	3,097
District heat	5,925	Q	Q	Q	623	669	1,096	3,053
Boilers	22,443	1,908	982	1,219	3,764	4,610	4,938	5,021
Packaged heating units	49,188	6,967	5,320	6,041	9,817	9,055	6,596	5,393
Other	1,574	Q	Q	Q	448	Q	422	Q
Cooling equipment (more than one may apply)								
Residential-type central air conditioners	14,765	3,835	2,699	2,854	2,827	1,445	886	218
Heat pumps	12,538	1,498	1,127	1,442	2,657	2,538	1,358	1,918
Individual air conditioners	12,420	1,963	1,204	1,348	2,253	1,630	1,868	2,153
District chilled water	4,608	Q	Q	Q	505	683	982	1,986
Central chillers	17,041	531	334	475	1,765	3,087	3,736	7,112
Packaged air conditioning units	45,153	4,823	3,980	5,020	9,001	9,135	6,713	6,481
Swamp coolers	1,918	181	196	Q	312	461	Q	Q
Other	328	Q	Q	Q	Q	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)								
Heating	27,558	5,093	3,205	2,960	5,112	5,026	3,436	2,724
Cooling	30,702	5,268	3,249	3,384	5,497	5,273	3,971	4,060
Water-heating equipment								
Centralized system	47,534	8,984	6,262	6,320	7,957	7,105	5,614	5,292
Distributed system	12,688	1,713	1,188	1,690	2,282	2,192	1,893	1,730
Combination of centralized and distributed system	18,793	1,086	755	1,126	3,859	3,873	3,404	4,689
Lighting equipment types (more than one may apply)								
Incandescent	38,406	4,834	3,346	3,753	6,370	6,902	5,568	7,633
Standard fluorescent	80,081	12,622	8,446	9,292	14,195	13,040	10,782	11,704
Compact fluorescent	53,816	6,162	4,404	5,181	9,078	9,597	8,461	10,933
High-intensity discharge (HID)	23,396	1,664	1,445	1,673	3,603	4,563	4,441	6,007
Halogen	28,059	2,418	1,953	2,355	4,800	5,243	4,227	7,062
LED	22,071	993	902	1,360	3,548	4,223	4,231	6,814
Other	446	Q	Q	Q	Q	Q	Q	Q

Table B16. Employment size category, floorspace, 2012

	Total floorspace (million square feet)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	87,093	17,751	8,973	9,623	14,514	13,476	10,941	11,815
Refrigeration equipment (more than one may apply)								
Any refrigeration	73,645	10,252	7,466	8,231	13,005	12,696	10,456	11,539
Walk-in units	28,361	1,110	1,132	1,695	4,819	6,582	5,592	7,432
Cases or cabinets	28,719	1,895	1,569	1,971	4,419	5,651	5,584	7,630
Large cold storage areas	4,171	Q	Q	Q	641	988	1,059	994
Commercial ice makers	32,734	1,648	1,553	2,466	5,227	6,404	6,584	8,852
Residential-type or compact units	62,381	8,745	6,349	7,070	11,172	10,606	8,529	9,909
Vending machines	43,936	2,055	2,088	3,252	7,595	9,583	8,983	10,379
No refrigeration	13,448	7,499	1,507	1,392	1,509	780	485	276
Office equipment (more than one may apply)								
Desktop computers	77,063	9,500	8,102	9,113	14,384	13,400	10,883	11,680
With flat screen monitors	76,160	8,869	7,940	9,064	14,329	13,400	10,878	11,680
With multiple monitors	30,946	1,123	1,689	2,282	5,454	5,018	6,437	8,944
Laptop computers	63,486	6,124	5,236	6,526	12,038	11,781	10,129	11,652
Dedicated servers	53,369	2,434	3,346	5,419	10,417	11,235	9,428	11,089
Laser printers	54,256	4,395	4,780	6,192	10,407	10,174	8,524	9,783
Inkjet printers	36,235	6,047	4,259	4,772	6,145	5,717	4,861	4,434
FAX machines	66,682	6,919	6,514	7,733	12,796	12,043	9,889	10,790
Photocopiers	59,277	4,139	4,401	6,110	11,596	12,005	9,989	11,037
Number of desktop computers								
None	10,030	8,251	871	509	Q	Q	Q	Q
1 to 4	15,669	7,883	3,795	2,452	1,059	Q	Q	Q
5 to 9	9,422	1,110	2,981	2,670	1,824	532	Q	Q
10 to 19	9,388	186	811	2,836	3,937	1,248	Q	Q
20 to 49	13,094	Q	456	1,009	4,582	4,600	1,915	Q
50 to 99	8,284	N	Q	Q	1,655	3,872	1,989	588
100 to 249	9,728	Q	N	Q	1,123	1,790	4,253	2,536
250 or more	11,478	N	N	Q	Q	1,009	2,228	8,026
Number of laptop computers								
None	23,607	11,627	3,737	3,097	2,476	1,694	812	Q
1 to 4	21,161	5,332	4,274	4,350	4,279	2,096	651	Q
5 to 9	8,345	297	544	1,352	2,941	1,997	722	Q
10 to 19	8,343	Q	Q	448	2,274	2,538	2,102	768
20 to 49	9,643	Q	Q	Q	1,760	2,904	2,675	1,969
50 to 99	5,234	Q	Q	Q	365	1,197	1,542	1,925
100 to 249	5,217	Q	Q	Q	Q	786	1,575	2,202
250 or more	5,542	Q	Q	Q	Q	Q	862	4,117

Table B16. Employment size category, floorspace, 2012

	Total floorspace (million square feet)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	87,093	17,751	8,973	9,623	14,514	13,476	10,941	11,815
Number of dedicated servers								
None	33,724	15,317	5,627	4,204	4,097	2,241	1,513	726
1 to 4	34,097	2,377	3,303	5,202	8,917	7,893	4,123	2,282
5 to 9	6,241	Q	Q	Q	778	1,973	2,105	1,215
10 to 19	5,711	Q	Q	Q	Q	942	1,710	2,463
20 to 49	3,758	N	N	Q	Q	331	1,106	2,207
50 or more	3,562	Q	N	Q	Q	Q	Q	2,922
Number of photocopiers								
None	27,816	13,612	4,572	3,512	2,919	1,471	952	778
One	17,080	3,614	3,298	3,812	3,534	1,950	657	Q
2 to 4	20,312	515	1,079	2,212	6,778	6,167	2,684	878
5 to 9	8,863	Q	Q	Q	1,107	2,945	3,385	1,337
10 or more	13,022	N	N	Q	Q	943	3,263	8,608
Number of TVs or video displays								
None	24,339	10,826	3,738	2,986	3,351	1,803	1,157	479
One	9,990	2,850	1,859	1,850	1,730	1,220	Q	Q
2 to 4	16,465	2,485	2,082	2,909	3,563	2,920	1,718	788
5 to 9	8,148	608	562	748	1,645	1,757	1,614	1,212
10 to 19	8,168	358	Q	206	1,901	1,790	1,662	2,032
20 to 49	8,058	Q	Q	Q	1,223	2,218	2,035	1,917
50 to 99	4,378	Q	Q	359	442	775	1,556	1,028
100 or more	7,547	Q	Q	347	659	993	843	4,234
Food preparation or serving areas in non-food service buildings (more than one may apply)								
Snack bar or concession stand	9,884	423	Q	466	996	1,860	2,276	3,627
Fast food or small restaurant	9,787	152	331	422	1,567	1,878	2,045	3,394
Cafeteria or large restaurant	15,222	Q	Q	220	2,006	4,022	3,238	5,545
Commercial kitchen/ food preparation area	16,150	908	270	678	2,840	4,019	3,324	4,111
Small kitchen area	14,054	2,451	1,344	1,531	2,152	1,888	1,988	2,699
Separate computer areas (more than one may apply)								
Data center or server farm	11,105	Q	Q	Q	640	1,341	2,766	6,137
Computer-based training room	17,723	Q	457	536	2,811	4,000	3,980	5,823
Student or public computer center	14,341	387	341	763	2,878	4,123	3,617	2,233
HVAC conservation features (more than one may apply)								
Economizer cycle	30,749	1,306	1,068	1,741	5,096	6,458	6,707	8,372
Regular HVAC maintenance	69,244	7,487	6,092	7,631	12,999	12,504	10,773	11,759
Building automation system (BAS) ²	37,051	1,805	1,665	1,807	5,777	7,791	8,283	9,921

Table B16. Employment size category, floorspace, 2012

	Total floorspace (million square feet)							
	Number of workers							
	All buildings	Fewer than 5 workers	5 to 9 workers	10 to 19 workers	20 to 49 workers	50 to 99 workers	100 to 249 workers	250 or more workers
All buildings	87,093	17,751	8,973	9,623	14,514	13,476	10,941	11,815
Window and interior lighting features (more than one may apply)								
Multipaned windows	60,362	8,759	5,648	6,431	10,699	10,800	8,685	9,339
Tinted window glass	45,025	5,507	3,612	4,157	8,059	8,361	7,229	8,099
Reflective window glass	15,908	1,453	1,112	1,217	2,545	2,874	2,691	4,016
External overhangs or awnings	32,188	4,240	3,562	3,722	6,005	5,730	4,542	4,389
Skylights or atriums	22,261	1,911	1,430	1,626	3,772	4,159	4,285	5,077
Light scheduling	30,263	2,165	2,102	2,350	4,866	6,231	4,817	7,732
Occupancy sensors	35,871	2,046	1,623	2,421	5,986	7,676	7,093	9,027
Multi-level lighting or dimming	14,534	734	656	908	2,713	3,082	2,933	3,509
Daylight harvesting	6,114	280	280	Q	1,055	1,003	1,425	1,856
Demand responsive lighting	4,738	323	296	440	1,000	1,035	988	656
Building automation system (BAS) for lighting ²	12,068	217	610	507	1,871	2,614	2,613	3,635
Equipment usage reduced when building not in full use (more than one may apply)								
Heating	63,167	9,710	6,343	6,934	11,237	11,100	8,888	8,956
Cooling	62,516	8,679	6,268	7,055	11,237	11,149	8,937	9,191
Lighting	78,594	12,874	8,611	9,178	13,834	12,628	10,322	11,147

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.

Release date: February 2015

Revised date: May 2016

Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

	Number of buildings (thousand)										
	Nongovernment-owned buildings					Government-owned buildings					
	All buildings		All buildings		Owner occupied	Leased to tenant(s)		Owner occupied and leased	Unoccupied	All buildings	Federal
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	5,557	4,781	2,466	1,745	349	221	776	33	185	558	
Building floorspace (square feet)											
1,001 to 5,000	2,777	2,435	1,311	881	108	135	342	Q	81	252	
5,001 to 10,000	1,229	1,101	570	402	88	41	129	Q	Q	104	
10,001 to 25,000	884	753	377	260	85	30	131	Q	37	88	
25,001 to 50,000	332	265	114	103	38	Q	67	Q	17	45	
50,001 to 100,000	199	130	52	59	16	Q	69	Q	20	47	
100,001 to 200,000	90	65	31	26	7	Q	25	Q	10	15	
200,001 to 500,000	38	27	11	11	5	Q	11	Q	4	7	
Over 500,000	8	6	2	3	2	Q	2	1	Q	1	
Principal building activity											
Education	389	162	124	33	Q	N	227	Q	60	162	
Food sales	177	177	93	69	Q	N	N	N	N	N	
Food service	380	364	202	157	Q	N	Q	N	Q	Q	
Health care	157	145	79	44	22	N	12	Q	3	8	
Inpatient	10	7	5	Q	1	N	2	(*)	Q	2	
Outpatient	147	138	74	43	21	N	9	Q	Q	Q	
Lodging	158	151	119	29	3	N	7	N	Q	Q	
Mercantile	602	598	233	314	51	N	Q	Q	Q	Q	
Retail (other than mall)	438	434	233	179	23	N	Q	N	Q	Q	
Enclosed and strip malls	164	164	N	135	29	N	Q	Q	N	N	
Office	1,012	862	370	357	135	N	150	9	43	98	
Public assembly	352	234	163	53	18	N	118	Q	21	97	
Public order and safety	84	Q	Q	Q	Q	N	70	Q	Q	64	
Religious worship	412	411	368	32	Q	N	Q	N	N	Q	
Service	619	544	282	237	25	N	74	Q	Q	49	
Warehouse and storage	796	743	334	364	44	N	53	Q	Q	Q	
Other	125	109	65	36	Q	N	Q	Q	Q	Q	
Vacant	296	267	Q	20	Q	221	29	Q	Q	24	
Year constructed											
Before 1920	362	320	184	87	26	Q	42	Q	Q	34	
1920 to 1945	488	415	250	122	17	Q	73	Q	18	52	
1946 to 1959	599	514	258	164	38	54	85	Q	25	60	
1960 to 1969	639	528	264	199	36	29	111	Q	36	68	
1970 to 1979	684	596	311	219	39	27	88	Q	24	59	
1980 to 1989	915	805	344	350	80	Q	110	Q	24	78	
1990 to 1999	845	731	386	283	51	Q	114	3	18	93	
2000 to 2003	375	310	183	104	16	Q	65	Q	14	47	
2004 to 2007	347	302	144	127	24	Q	45	Q	Q	33	
2008 to 2012	303	260	143	90	21	Q	42	N	Q	33	
Census region											
Northeast	805	723	400	239	62	Q	83	Q	15	67	
Midwest	1,237	1,066	629	329	69	40	171	9	31	131	
South	2,247	1,958	983	721	140	115	289	14	77	198	
West	1,267	1,034	455	457	78	43	233	Q	62	162	

Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

	Number of buildings (thousand)										
	Nongovernment-owned buildings						Government-owned buildings				
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	5,557	4,781	2,466	1,745	349	221	776	33	185	558	
Climate region¹											
Very cold/Cold	2,031	1,752	998	560	130	65	278	16	55	207	
Mixed-humid	1,743	1,551	764	607	103	76	193	13	50	129	
Mixed-dry/Hot-dry	837	679	305	286	53	35	158	Q	33	124	
Hot-humid	799	674	351	228	53	43	125	Q	39	84	
Marine	147	125	49	64	Q	Q	22	Q	Q	15	
Number of floors											
One	3,836	3,290	1,651	1,288	183	169	546	21	112	413	
Two	1,158	1,010	552	321	98	38	148	Q	48	90	
Three	374	328	191	84	42	Q	46	Q	10	35	
Four to nine	177	142	70	46	23	Q	35	1	14	20	
Ten or more	13	11	2	5	3	Q	2	1	1	Q	
Elevators and escalators (more than one may apply)											
Any elevators	405	305	147	94	58	5	100	7	34	60	
Number of elevators											
One	272	204	105	57	38	Q	67	Q	23	41	
Two to five	118	88	38	32	17	Q	30	Q	10	16	
Six or more	16	13	4	5	4	Q	3	1	1	2	
Any escalators	10	8	2	5	1	Q	2	Q	Q	1	
Number of workers (main shift)											
Fewer than 5	2,892	2,586	1,418	838	108	221	306	Q	77	218	
5 to 9	1,085	941	506	345	90	N	144	Q	28	111	
10 to 19	731	613	294	263	56	N	118	Q	24	90	
20 to 49	513	411	165	185	60	N	102	Q	23	74	
50 to 99	206	133	49	69	15	N	72	Q	24	44	
100 to 249	93	68	27	29	13	N	25	Q	5	17	
250 or more	37	29	8	15	6	N	8	1	3	4	
Weekly operating hours											
Fewer than 40	1,149	998	582	173	Q	221	151	Q	28	119	
40 to 48	1,346	1,098	556	423	119	N	248	Q	69	171	
49 to 60	1,244	1,080	542	434	104	N	164	7	40	117	
61 to 84	764	676	300	328	47	N	88	Q	21	59	
85 to 167	479	443	212	201	30	N	36	Q	14	20	
Open continuously	575	487	274	186	27	N	88	Q	13	73	
Party responsible for operation and maintenance of energy systems											
Building owner	4,715	3,984	2,416	1,062	304	202	731	31	173	527	
Business owner or tenant	724	698	Q	619	39	Q	26	Q	Q	19	
Property management	54	53	Q	40	Q	Q	Q	Q	N	Q	
Other	64	47	Q	24	Q	Q	Q	Q	Q	Q	

Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

	Number of buildings (thousand)										
	Nongovernment-owned buildings						Government-owned buildings				
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	5,557	4,781	2,466	1,745	349	221	776	33	185	558	
Provider of direct input on energy-related equipment purchases											
Building owner	4,876	4,144	2,432	1,186	318	208	733	31	176	525	
Business owner or tenant	540	520	Q	471	24	Q	20	Q	Q	Q	
Property management	35	34	Q	30	Q	N	Q	Q	N	Q	
Other	106	83	17	58	Q	Q	23	Q	Q	19	
Number of establishments											
One	4,205	3,537	2,318	1,220	N	N	668	27	164	477	
2 to 5	862	782	142	351	289	N	80	6	17	58	
6 to 10	147	147	Q	103	40	N	Q	Q	Q	Q	
11 to 20	68	67	Q	52	12	N	Q	Q	Q	Q	
More than 20	27	27	N	20	7	N	Q	Q	N	Q	
Currently unoccupied	248	221	N	N	N	221	27	N	Q	22	
Campus or complex activity											
Not part of a campus or complex	3,683	3,355	1,729	1,177	273	176	328	20	44	264	
Primary or secondary school	237	50	42	Q	Q	N	187	Q	56	128	
College or university	84	47	44	Q	Q	N	37	Q	33	Q	
Office complex	154	142	34	79	25	Q	12	Q	Q	Q	
Retail complex	258	250	79	156	10	Q	Q	N	Q	Q	
Storage complex	314	308	98	187	Q	Q	Q	N	Q	Q	
Religious campus or complex	197	197	182	Q	Q	Q	N	N	N	N	
Health care complex	52	43	27	10	Q	Q	9	(*)	Q	Q	
Lodging or resort complex	65	64	51	Q	Q	Q	Q	N	Q	N	
Transportation complex	35	19	Q	Q	Q	N	Q	N	Q	Q	
Government complex	104	Q	Q	Q	Q	N	101	7	25	69	
Other	371	302	173	100	15	Q	69	Q	15	52	
Predominant exterior wall material											
Brick, stone, or stucco	2,312	1,947	971	713	164	99	365	16	85	264	
Concrete (block or poured)	1,121	973	479	377	68	48	148	Q	36	105	
Concrete panels	210	196	67	95	24	Q	14	Q	4	10	
Siding or shingles	905	768	441	254	41	Q	137	Q	30	102	
Metal panels	933	827	472	280	44	Q	106	Q	25	76	
Window glass	17	15	Q	6	2	Q	Q	Q	Q	Q	
Other	37	34	18	13	Q	N	Q	Q	Q	Q	
No one major type	21	20	Q	Q	Q	N	Q	Q	Q	Q	

Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

	Number of buildings (thousand)										
	Nongovernment-owned buildings						Government-owned buildings				
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	5,557	4,781	2,466	1,745	349	221	776	33	185	558	
Predominant roof material											
Metal surfacing	1,672	1,448	827	488	80	53	224	Q	58	157	
Synthetic or rubber	911	772	351	300	88	32	139	11	35	93	
Built-up	836	663	258	298	62	44	173	6	39	129	
Slate or tile shingles	406	365	186	145	19	Q	41	Q	Q	34	
Wooden materials (including shingles)	157	146	63	76	Q	Q	Q	N	Q	Q	
Asphalt, fiberglass, or other shingles	1,483	1,308	755	392	88	73	175	Q	38	132	
Concrete	51	47	11	31	Q	Q	4	Q	Q	Q	
Other	24	16	Q	Q	Q	N	Q	N	Q	Q	
No one major type	18	16	Q	Q	Q	N	Q	Q	Q	Q	
Roof characteristics											
Roof tilt											
Flat	1,960	1,680	656	800	141	83	280	22	77	181	
Shallow pitch	2,148	1,871	1,012	633	136	90	277	Q	67	201	
Steeper pitch	1,449	1,230	799	311	72	48	219	Q	41	176	
Cool roof	740	601	339	198	52	Q	139	7	34	98	
Renovations in buildings constructed before 2008 (more than one may apply)											
Any type of renovation	2,094	1,785	941	627	163	54	310	9	73	227	
Addition or annex	444	363	234	88	35	Q	81	Q	20	57	
Reduction in floorspace	71	64	26	21	10	Q	Q	Q	Q	Q	
Roof replacement	987	817	466	256	67	Q	170	5	39	125	
Exterior wall replacement	194	169	90	59	13	Q	26	Q	5	18	
Interior wall reconfiguration	889	777	346	316	89	25	113	5	26	81	
Window replacement	560	471	262	155	46	Q	89	Q	19	69	
HVAC equipment upgrade	1,101	919	499	286	107	28	181	5	40	136	
Lighting upgrade	982	805	419	283	84	Q	177	5	43	129	
Electrical upgrade	747	653	345	221	65	Q	94	2	25	67	
Plumbing system upgrade	644	557	290	199	51	Q	87	2	18	67	
Insulation upgrade	382	320	175	104	35	Q	62	Q	11	49	
Fire, safety, or security upgrade	616	522	291	167	56	Q	93	3	24	66	
Structural upgrade	152	131	74	36	16	Q	21	Q	Q	16	
Other	39	29	Q	Q	Q	N	Q	Q	Q	Q	
No renovations	3,160	2,736	1,382	1,028	165	161	424	24	103	298	
Buildings constructed 2008 or later	303	260	143	90	21	Q	42	N	Q	33	
Energy sources (more than one may apply)											
Electricity	5,234	4,480	2,395	1,675	344	66	755	33	183	538	
Natural gas	2,933	2,489	1,317	951	198	23	444	21	100	322	
Fuel oil	467	365	223	108	29	Q	101	Q	15	83	
District heat	48	22	13	Q	2	Q	26	1	18	7	
District chilled water	54	17	14	2	1	N	37	Q	20	16	
Propane	510	435	297	107	29	Q	75	Q	13	57	
Other	172	145	100	31	13	Q	27	Q	Q	16	

Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

	Number of buildings (thousand)										
	Nongovernment-owned buildings						Government-owned buildings				
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	5,557	4,781	2,466	1,745	349	221	776	33	185	558	
Space-heating energy sources (more than one may apply)											
Electricity	2,858	2,464	1,264	958	221	22	394	19	100	275	
Natural gas	2,612	2,203	1,162	838	181	22	409	18	91	300	
Fuel oil	270	234	145	69	15	Q	36	Q	Q	32	
District heat	48	22	13	Q	2	Q	26	1	18	7	
Propane	342	290	202	67	19	Q	52	Q	Q	38	
Other	101	96	72	Q	Q	N	Q	Q	Q	Q	
Primary space-heating energy source											
Electricity	1,819	1,600	834	611	136	Q	219	Q	58	149	
Natural gas	2,322	1,944	1,025	735	163	21	378	17	81	281	
Fuel oil	205	176	109	52	Q	Q	29	Q	Q	26	
District heat	47	21	13	Q	2	Q	26	1	18	7	
Propane	261	223	171	43	Q	Q	38	Q	Q	26	
Other	67	63	47	Q	Q	N	Q	N	Q	Q	
Cooling energy sources (more than one may apply)											
Electricity	4,413	3,802	2,038	1,415	322	26	611	32	142	437	
Natural gas	12	11	Q	Q	Q	N	Q	Q	Q	Q	
District chilled water	54	17	14	2	1	N	37	Q	20	16	
Water-heating energy sources (more than one may apply)											
Electricity	2,658	2,323	1,195	904	213	Q	335	18	75	242	
Natural gas	1,758	1,482	806	541	121	Q	275	14	66	195	
Fuel oil	77	63	45	Q	Q	N	14	Q	Q	12	
District heat	25	13	10	1	2	N	12	1	10	2	
Propane	142	120	86	27	Q	Q	22	Q	Q	Q	
Cooking energy sources (more than one may apply)											
Electricity	1,010	846	544	253	46	Q	165	7	27	131	
Natural gas	740	646	352	247	44	Q	94	1	19	73	
Propane	144	125	87	30	Q	N	19	Q	Q	17	
Energy end uses (more than one may apply)											
Buildings with space heating	4,722	4,028	2,198	1,458	325	47	694	33	168	493	
Buildings with cooling	4,461	3,817	2,046	1,421	324	26	644	33	159	452	
Buildings with water heating	4,423	3,791	2,048	1,401	316	26	632	33	146	452	
Buildings with cooking	1,589	1,359	854	416	82	Q	230	8	40	182	
Buildings with manufacturing	259	248	130	100	18	N	10	Q	Q	Q	
Buildings with electricity generation	410	266	160	75	30	Q	144	6	27	111	

Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

	Number of buildings (thousand)										
	Nongovernment-owned buildings						Government-owned buildings				
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	5,557	4,781	2,466	1,745	349	221	776	33	185	558	
Percent of floorspace heated											
Not heated	835	753	268	287	24	174	82	Q	Q	65	
1 to 50	697	640	323	253	56	Q	57	Q	Q	37	
51 to 99	727	623	326	231	61	Q	103	4	26	73	
100	3,298	2,764	1,549	974	208	34	534	24	127	383	
Percent of floorspace cooled											
Not cooled	1,096	964	420	323	Q	195	132	N	26	106	
1 to 50	1,173	1,033	524	411	94	Q	140	Q	29	102	
51 to 99	897	755	394	289	69	Q	143	5	41	97	
100	2,391	2,030	1,128	722	161	Q	361	19	89	253	
Percent lit when open											
Zero	70	67	Q	Q	Q	N	Q	N	Q	Q	
1 to 50	1,099	977	564	333	80	N	122	Q	24	90	
51 to 99	1,666	1,422	703	567	152	N	244	15	69	160	
100	2,222	1,859	1,052	697	110	N	363	10	81	271	
Building never open/electricity not used	501	456	127	102	Q	221	45	Q	Q	36	
Percent lit during off hours											
Zero	2,489	2,101	1,217	711	128	45	388	Q	102	274	
1 to 50	2,441	2,111	1,035	852	203	21	330	21	77	232	
51 to 100	202	178	94	74	10	N	24	Q	4	19	
Building always open with no "off hours"	102	89	48	38	Q	N	13	Q	Q	Q	
Electricity not used	323	301	71	69	Q	155	Q	N	Q	Q	
Heating equipment (more than one may apply)											
Heat pumps	628	507	286	164	54	Q	121	Q	28	90	
Furnaces	755	681	378	236	57	Q	74	Q	19	51	
Individual space heaters	1,247	1,068	585	383	91	Q	179	Q	45	126	
District heat	48	22	13	Q	2	Q	26	1	18	7	
Boilers	544	405	243	120	38	Q	139	7	31	102	
Packaged heating units	2,802	2,443	1,249	969	201	25	359	20	84	255	
Other	62	55	26	26	Q	Q	Q	Q	Q	Q	
Cooling equipment (more than one may apply)											
Residential-type central air conditioners	1,546	1,398	767	507	115	Q	148	Q	34	102	
Heat pumps	692	567	323	183	58	Q	125	Q	30	93	
Individual air conditioners	709	600	342	203	50	Q	109	Q	21	82	
District chilled water	54	17	14	2	1	N	37	Q	20	16	
Central chillers	163	89	52	24	11	Q	74	6	21	47	
Packaged air conditioning units	1,909	1,646	790	692	155	Q	263	12	62	190	
Swamp coolers	109	96	58	36	Q	N	14	Q	Q	Q	
Other	Q	Q	Q	Q	Q	N	Q	Q	Q	Q	

Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

	Number of buildings (thousand)										
	Nongovernment-owned buildings						Government-owned buildings				
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	5,557	4,781	2,466	1,745	349	221	776	33	185	558	
Main equipment replaced since 1990 (more than one may apply)											
Heating	1,874	1,624	904	569	137	Q	250	11	73	166	
Cooling	1,971	1,729	945	626	146	Q	242	12	67	163	
Water-heating equipment											
Centralized system	3,348	2,851	1,634	1,001	195	21	497	29	106	362	
Distributed system	690	617	289	251	75	Q	72	Q	22	50	
Combination of centralized and distributed system	385	323	125	149	46	Q	62	3	19	40	
Lighting equipment types (more than one may apply)											
Incandescent	1,826	1,637	910	575	147	Q	189	12	46	132	
Standard fluorescent	4,649	3,955	2,104	1,501	329	20	695	33	166	496	
Compact fluorescent	2,302	1,997	1,096	721	177	Q	305	15	82	208	
High-intensity discharge (HID)	525	421	189	178	54	Q	104	6	29	69	
Halogen	905	826	408	325	93	Q	79	8	25	45	
LED	473	395	169	179	47	Q	78	Q	19	55	
Other	10	Q	Q	Q	Q	N	Q	Q	Q	Q	
Refrigeration equipment (more than one may apply)											
Any refrigeration	3,984	3,449	1,899	1,247	288	Q	535	26	124	385	
Walk-in units	811	711	345	315	49	Q	100	2	24	74	
Cases or cabinets	915	812	411	340	57	Q	103	Q	20	80	
Large cold storage areas	78	73	32	33	7	N	6	Q	Q	3	
Commercial ice makers	846	726	395	273	54	Q	120	2	40	77	
Residential-type or compact units	3,388	2,924	1,625	1,030	259	Q	464	23	106	334	
Vending machines	960	763	346	332	82	Q	197	11	62	124	
No refrigeration	1,573	1,332	568	498	61	206	241	Q	61	174	
Office equipment (more than one may apply)											
Desktop computers	3,977	3,353	1,728	1,314	308	Q	624	32	151	441	
With flat screen monitors	3,847	3,236	1,652	1,276	305	Q	611	32	147	432	
With multiple monitors	911	768	305	351	112	N	143	8	45	90	
Laptop computers	2,730	2,293	1,103	944	244	Q	437	15	109	314	
Dedicated servers	1,748	1,481	675	630	175	Q	267	14	66	187	
Laser printers	2,339	1,938	923	810	205	Q	401	24	88	289	
Inkjet printers	2,187	1,883	1,004	711	167	Q	305	10	71	224	
FAX machines	3,185	2,746	1,370	1,097	275	Q	439	24	95	320	
Photocopiers	2,163	1,785	935	654	193	Q	378	17	91	270	

Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

	Number of buildings (thousand)										
	Nongovernment-owned buildings						Government-owned buildings				
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	5,557	4,781	2,466	1,745	349	221	776	33	185	558	
Number of desktop computers											
None	1,581	1,429	738	430	41	219	152	Q	34	117	
1 to 4	2,039	1,816	1,051	672	91	Q	223	Q	45	163	
5 to 9	821	709	353	284	72	N	112	Q	28	74	
10 to 19	482	415	166	174	75	N	67	Q	17	48	
20 to 49	355	258	102	115	40	Q	97	Q	24	72	
50 to 99	143	84	30	39	14	N	60	Q	19	38	
100 to 249	92	47	18	19	10	N	45	Q	12	32	
250 or more	44	24	8	11	5	N	20	1	5	14	
Number of laptop computers											
None	2,827	2,488	1,363	801	105	219	339	Q	76	244	
1 to 4	1,944	1,702	883	664	152	Q	242	Q	52	182	
5 to 9	350	297	108	141	48	N	53	Q	12	38	
10 to 19	181	146	49	75	22	N	35	Q	8	25	
20 to 49	144	87	38	36	14	N	56	Q	19	36	
50 to 99	58	31	12	15	4	N	26	Q	8	18	
100 to 249	35	18	9	6	3	N	16	Q	6	10	
250 or more	20	12	5	6	2	N	8	(*)	2	5	
Number of dedicated servers											
None	3,809	3,300	1,792	1,114	173	221	509	Q	119	371	
1 to 4	1,562	1,342	629	565	147	Q	220	9	49	162	
5 to 9	97	76	19	44	13	N	21	Q	9	10	
10 to 19	50	35	16	10	9	N	15	Q	6	8	
20 to 49	25	18	6	7	4	N	8	Q	2	6	
50 or more	13	10	4	5	2	N	3	(*)	Q	Q	
Number of photocopiers											
None	3,394	2,997	1,531	1,090	156	219	398	Q	93	289	
One	1,325	1,138	671	379	85	Q	187	Q	36	141	
2 to 4	648	510	225	208	77	N	137	Q	39	94	
5 to 9	116	78	19	40	20	N	37	Q	11	23	
10 or more	75	57	20	27	11	N	17	1	5	11	
Number of TVs or video displays											
None	2,718	2,384	1,154	868	143	219	333	Q	74	244	
One	1,145	984	558	373	52	Q	160	Q	36	113	
2 to 4	1,035	883	472	311	98	Q	153	Q	36	113	
5 to 9	314	273	149	94	31	N	41	Q	12	29	
10 to 19	154	110	51	48	11	N	44	Q	12	29	
20 to 49	106	80	37	35	8	N	26	Q	5	20	
50 to 99	48	39	26	9	3	N	10	Q	3	7	
100 or more	37	28	20	6	2	N	9	(*)	6	3	

Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

	Number of buildings (thousand)										
	Nongovernment-owned buildings						Government-owned buildings				
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	5,557	4,781	2,466	1,745	349	221	776	33	185	558	
Food preparation or serving areas in non-food service buildings (more than one may apply)											
Snack bar or concession stand	153	123	57	47	19	N	30	1	8	21	
Fast food or small restaurant	173	169	43	99	27	N	5	Q	Q	3	
Cafeteria or large restaurant	130	64	29	25	10	N	66	1	13	52	
Commercial kitchen/ food preparation area	282	221	137	60	22	Q	61	(*)	13	48	
Small kitchen area	736	616	459	113	39	Q	119	Q	17	96	
Separate computer areas (more than one may apply)											
Data center or server farm	97	65	31	25	9	N	31	Q	9	20	
Computer-based training room	244	158	69	68	20	N	86	2	28	55	
Student or public computer center	238	121	69	38	15	N	117	Q	28	88	
HVAC conservation features (more than one may apply)											
Economizer cycle	601	429	217	167	41	Q	172	6	45	121	
Regular HVAC maintenance	3,178	2,630	1,436	935	234	26	547	28	143	376	
Building automation system (BAS) ²	781	538	279	206	51	Q	243	9	61	173	
Window and interior lighting features (more than one may apply)											
Multipaned windows	3,012	2,586	1,400	887	219	80	426	20	95	311	
Tinted window glass	1,875	1,598	780	618	159	41	277	11	67	199	
Reflective window glass	549	489	237	193	57	Q	60	5	16	39	
External overhangs or awnings	1,867	1,633	777	680	140	36	234	9	68	157	
Skylights or atriums	591	508	225	208	63	Q	83	6	26	50	
Light scheduling	918	787	348	360	76	Q	130	11	33	86	
Occupancy sensors	813	612	251	300	61	Q	201	7	53	140	
Multi-level lighting or dimming	349	309	149	128	32	Q	40	Q	13	24	
Daylight harvesting	125	102	58	29	12	Q	24	Q	8	10	
Demand responsive lighting	176	154	64	75	15	N	23	Q	Q	11	
Building automation system (BAS) for lighting ²	208	168	57	94	17	Q	41	2	10	28	
Equipment usage reduced when building not in full use (more than one may apply)											
Heating	3,699	3,156	1,699	1,142	283	33	543	29	138	376	
Cooling	3,517	3,000	1,585	1,117	283	15	516	30	133	352	
Lighting	4,757	4,053	2,199	1,516	338	N	704	33	174	498	

Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

	Number of buildings (thousand)																			
	Nongovernment-owned buildings						Government-owned buildings													
	All buildings		All buildings		Owner occupied		Leased to tenant(s)		Owner occupied and leased		Unoccupied	All buildings	Federal	State	Local					
	All buildings	5,557	All buildings	4,781	Owner occupied	2,466	Leased to tenant(s)	1,745	Owner occupied and leased	349	Unoccupied	All buildings	Federal	State	Local					
All buildings		5,557		4,781		2,466		1,745		349		221		776		33		185		558

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.

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

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.

Release date: February 2015

Revised date: May 2016

Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

	Total floorspace (million square feet)											
	Nongovernment-owned buildings					Government-owned buildings						
	All buildings		All buildings		Owner occupied	Leased to tenant(s)		Owner occupied and leased	Unoccupied	All buildings	Federal	
	All buildings	All buildings	Owner occupied	Leased to tenant(s)					All buildings	Federal	State	Local
All buildings	87,093	67,550	30,637	26,115	8,873				19,543	1,573	5,539	12,431
Building floorspace (square feet)												
1,001 to 5,000	8,041	7,077	3,871	2,526	382	298	964	Q	230	713		
5,001 to 10,000	8,900	7,953	4,118	2,932	635	267	947	Q	Q	765		
10,001 to 25,000	14,105	11,987	6,045	4,149	1,305	488	2,117	Q	621	1,373		
25,001 to 50,000	11,917	9,482	4,067	3,656	1,353	Q	2,435	Q	647	1,649		
50,001 to 100,000	13,918	9,104	3,712	4,051	1,106	Q	4,814	Q	1,327	3,351		
100,001 to 200,000	12,415	8,905	4,306	3,493	1,025	Q	3,510	Q	1,392	1,989		
200,001 to 500,000	10,724	7,634	2,976	3,084	1,482	Q	3,090	Q	1,024	1,928		
Over 500,000	7,074	5,408	1,542	2,223	1,584	Q	1,666	806	Q	663		
Principal building activity												
Education	12,239	3,084	2,471	327	Q	N	9,154	Q	2,408	6,689		
Food sales	1,252	1,252	612	448	Q	N	N	N	N	N		
Food service	1,819	1,702	1,008	656	Q	N	Q	N	Q	Q		
Health care	4,155	3,523	2,007	584	932	N	632	143	178	311		
Inpatient	2,374	1,900	1,247	Q	450	N	475	104	156	214		
Outpatient	1,781	1,623	760	381	482	N	158	Q	Q	Q		
Lodging	5,826	5,360	3,656	1,130	574	N	466	N	Q	Q		
Mercantile	11,330	11,298	3,189	6,566	1,543	N	Q	Q	Q	Q		
Retail (other than mall)	5,439	5,427	3,189	1,628	610	N	Q	N	Q	Q		
Enclosed and strip malls	5,890	5,871	N	4,938	933	N	Q	Q	N	N		
Office	15,952	12,815	3,169	7,118	2,528	N	3,136	600	1,203	1,333		
Public assembly	5,559	3,178	2,049	508	620	N	2,381	Q	514	1,736		
Public order and safety	1,440	Q	Q	Q	Q	N	1,274	Q	Q	1,019		
Religious worship	4,557	4,542	4,097	224	Q	N	Q	N	N	Q		
Service	4,630	3,800	1,803	1,629	368	N	830	Q	Q	375		
Warehouse and storage	13,077	12,316	5,098	5,989	1,229	N	761	Q	Q	Q		
Other	2,002	1,826	1,181	443	Q	N	Q	Q	Q	Q		
Vacant	3,256	2,689	Q	455	Q	1,925	567	Q	Q	411		
Year constructed												
Before 1920	3,983	3,116	1,274	979	644	Q	867	Q	Q	393		
1920 to 1945	6,025	4,071	2,146	1,386	410	Q	1,954	447	429	1,079		
1946 to 1959	7,381	5,253	2,918	1,458	628	249	2,128	Q	679	1,413		
1960 to 1969	10,362	7,070	3,356	2,554	911	249	3,293	Q	991	2,097		
1970 to 1979	10,846	8,539	3,618	3,578	1,048	295	2,306	Q	895	1,246		
1980 to 1989	15,230	13,074	4,465	5,961	2,277	Q	2,156	Q	580	1,509		
1990 to 1999	13,803	10,757	5,366	4,076	1,066	Q	3,046	277	687	2,081		
2000 to 2003	7,215	5,796	3,051	2,159	539	Q	1,419	Q	311	1,004		
2004 to 2007	6,524	5,143	2,192	2,206	700	Q	1,381	Q	397	851		
2008 to 2012	5,723	4,729	2,251	1,757	651	Q	994	N	Q	757		
Census region												
Northeast	15,534	11,913	5,454	4,430	1,786	Q	3,621	Q	1,149	2,213		
Midwest	18,919	14,177	7,338	4,720	1,767	352	4,742	275	1,158	3,310		
South	34,279	26,441	12,119	10,105	3,242	975	7,839	835	2,111	4,893		
West	18,360	15,019	5,726	6,860	2,078	355	3,341	204	1,122	2,015		

Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

	Total floorspace (million square feet)										
	Nongovernment-owned buildings						Government-owned buildings				
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	87,093	67,550	30,637	26,115	8,873	1,925	19,543	1,573	5,539	12,431	
Climate region¹											
Very cold/Cold	31,898	24,295	12,072	8,401	3,199	624	7,603	402	2,300	4,901	
Mixed-humid	27,873	20,730	9,096	8,427	2,804	404	7,143	996	1,891	4,256	
Mixed-dry/Hot-dry	12,037	10,197	4,141	4,430	1,313	313	1,840	Q	468	1,305	
Hot-humid	12,831	10,246	4,636	3,831	1,225	554	2,585	Q	747	1,743	
Marine	2,454	2,081	693	1,026	332	Q	372	Q	Q	225	
Number of floors											
One	39,809	32,751	13,707	14,937	2,885	1,221	7,058	323	1,530	5,205	
Two	20,206	15,005	7,954	4,864	1,805	382	5,201	Q	1,682	3,336	
Three	8,140	5,929	3,564	1,284	975	Q	2,210	Q	655	1,454	
Four to nine	13,535	9,454	4,439	2,830	2,015	Q	4,081	469	1,473	2,139	
Ten or more	5,404	4,410	973	2,199	1,193	Q	993	496	199	Q	
Elevators and escalators (more than one may apply)											
Any elevators	32,120	21,858	9,683	7,287	4,618	270	10,262	1,177	3,193	5,892	
Number of elevators											
One	11,158	6,522	3,576	1,732	1,124	Q	4,636	Q	1,687	2,848	
Two to five	12,817	9,288	4,250	3,235	1,668	Q	3,529	256	1,162	2,112	
Six or more	8,145	6,048	1,857	2,320	1,826	Q	2,097	820	344	932	
Any escalators	3,654	2,560	471	1,246	819	Q	1,094	Q	Q	582	
Number of workers (main shift)											
Fewer than 5	17,751	15,635	8,458	4,456	795	1,925	2,116	Q	675	1,392	
5 to 9	8,973	7,865	4,190	2,798	877	N	1,108	Q	279	764	
10 to 19	9,623	7,911	4,011	3,222	679	N	1,711	Q	505	1,096	
20 to 49	14,514	11,024	4,570	4,568	1,886	N	3,490	Q	1,036	2,313	
50 to 99	13,476	8,465	3,455	3,914	1,096	N	5,011	Q	1,522	3,347	
100 to 249	10,941	7,679	3,345	3,152	1,182	N	3,262	Q	720	2,351	
250 or more	11,815	8,971	2,608	4,004	2,359	N	2,844	873	802	1,168	
Weekly operating hours											
Fewer than 40	8,220	6,625	3,606	890	Q	1,925	1,596	Q	303	1,241	
40 to 48	15,828	10,950	4,932	4,295	1,723	N	4,878	Q	1,293	3,416	
49 to 60	20,529	15,766	6,461	7,095	2,210	N	4,763	312	1,001	3,450	
61 to 84	15,867	12,911	4,234	6,902	1,775	N	2,955	Q	857	1,838	
85 to 167	9,395	7,572	3,447	3,238	888	N	1,823	Q	828	851	
Open continuously	17,253	13,725	7,958	3,695	2,073	N	3,528	635	1,257	1,636	
Party responsible for operation and maintenance of energy systems											
Building owner	73,702	54,927	30,060	15,337	7,818	1,713	18,775	1,525	5,359	11,891	
Business owner or tenant	11,309	10,819	Q	9,557	816	Q	489	Q	Q	Q	
Property management	1,250	1,144	Q	839	Q	Q	Q	Q	N	Q	
Other	832	659	Q	382	Q	Q	Q	Q	Q	Q	

Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

	Total floorspace (million square feet)										
	Nongovernment-owned buildings						Government-owned buildings				
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	87,093	67,550	30,637	26,115	8,873	1,925	19,543	1,573	5,539	12,431	
Provider of direct input on energy-related equipment purchases											
Building owner	76,271	57,471	30,242	17,233	8,205	1,792	18,800	1,473	5,454	11,873	
Business owner or tenant	8,256	7,906	Q	7,239	382	Q	350	Q	Q	Q	
Property management	880	826	Q	646	Q	N	Q	Q	N	Q	
Other	1,686	1,347	158	996	Q	Q	339	Q	Q	254	
Number of establishments											
One	54,994	39,577	27,607	11,970	N	N	15,417	940	4,352	10,126	
2 to 5	17,756	14,543	2,918	5,886	5,739	N	3,213	594	990	1,629	
6 to 10	4,425	4,303	Q	3,125	1,088	N	Q	Q	Q	Q	
11 to 20	3,704	3,533	Q	2,731	778	N	Q	Q	Q	Q	
More than 20	3,821	3,669	N	2,401	1,268	N	Q	Q	N	Q	
Currently unoccupied	2,393	1,925	N	N	N	1,925	468	N	Q	Q	
Campus or complex activity											
Not part of a campus or complex	52,275	43,046	19,501	16,136	6,015	1,393	9,229	686	1,468	7,075	
Primary or secondary school	4,616	802	624	Q	Q	N	3,814	Q	1,037	2,754	
College or university	4,068	2,173	1,813	Q	Q	N	1,895	Q	1,852	Q	
Office complex	3,456	3,142	565	2,017	464	Q	314	Q	Q	Q	
Retail complex	5,159	4,963	1,041	3,474	355	Q	Q	N	Q	Q	
Storage complex	3,212	3,172	1,065	1,753	Q	Q	Q	N	Q	Q	
Religious campus or complex	1,932	1,932	1,836	Q	Q	Q	N	N	N	N	
Health care complex	3,362	2,572	1,633	422	498	Q	790	104	Q	210	
Lodging or resort complex	1,295	1,263	853	Q	Q	Q	Q	N	Q	N	
Transportation complex	554	272	Q	Q	Q	N	282	N	Q	226	
Government complex	2,107	Q	Q	Q	Q	N	2,002	572	236	1,194	
Other	5,057	4,108	1,603	1,765	561	Q	948	Q	275	608	
Predominant exterior wall material											
Brick, stone, or stucco	40,463	29,025	14,367	9,787	3,999	872	11,438	839	3,282	7,316	
Concrete (block or poured)	20,726	16,285	6,623	7,228	2,147	287	4,441	Q	1,080	2,969	
Concrete panels	8,693	7,594	2,452	3,585	1,189	Q	1,099	Q	369	584	
Siding or shingles	5,750	4,750	2,387	1,854	385	Q	1,001	Q	236	733	
Metal panels	8,673	7,516	4,110	2,531	646	Q	1,157	Q	438	615	
Window glass	1,340	1,112	Q	597	274	Q	228	Q	Q	Q	
Other	856	784	311	324	Q	N	Q	Q	Q	Q	
No one major type	592	483	Q	Q	Q	N	Q	Q	Q	Q	

Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

	Total floorspace (million square feet)										
	Nongovernment-owned buildings					Government-owned buildings					
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	87,093	67,550	30,637	26,115	8,873	1,925	19,543	1,573	5,539	12,431	
Predominant roof material											
Metal surfacing	15,916	13,220	7,400	4,425	968	427	2,696	Q	780	1,628	
Synthetic or rubber	25,817	19,413	7,354	8,007	3,638	414	6,403	664	1,899	3,841	
Built-up	21,835	15,277	5,127	7,269	2,286	596	6,557	410	1,942	4,205	
Slate or tile shingles	4,306	3,706	2,531	899	223	Q	600	Q	Q	368	
Wooden materials (including shingles)	1,139	981	475	460	Q	Q	Q	N	Q	Q	
Asphalt, fiberglass, or other shingles	15,104	12,642	7,053	3,900	1,317	373	2,461	Q	577	1,806	
Concrete	1,642	1,315	325	748	Q	Q	327	Q	Q	Q	
Other	678	485	Q	Q	Q	N	Q	N	Q	Q	
No one major type	657	510	Q	Q	Q	N	Q	Q	Q	Q	
Roof characteristics											
Roof tilt											
Flat	49,623	37,026	13,576	16,780	5,550	1,121	12,597	1,139	3,656	7,802	
Shallow pitch	23,853	19,570	9,795	6,960	2,280	535	4,283	Q	1,204	2,731	
Steeper pitch	13,617	10,954	7,267	2,375	1,043	269	2,663	Q	679	1,899	
Cool roof	19,630	14,300	5,973	5,629	2,438	Q	5,330	542	1,722	3,066	
Renovations in buildings constructed before 2008 (more than one may apply)											
Any type of renovation	42,216	31,673	13,831	11,884	5,393	565	10,543	835	3,290	6,418	
Addition or annex	13,022	8,486	4,755	2,204	1,449	Q	4,536	291	1,209	3,036	
Reduction in floorspace	1,753	1,250	459	437	327	Q	Q	Q	Q	Q	
Roof replacement	20,917	14,683	7,032	4,756	2,682	Q	6,233	471	1,919	3,844	
Exterior wall replacement	4,230	3,046	1,380	969	688	Q	1,184	Q	319	753	
Interior wall reconfiguration	21,340	16,175	6,137	6,487	3,241	311	5,165	594	1,626	2,945	
Window replacement	12,265	8,541	3,596	3,039	1,865	Q	3,723	384	996	2,343	
HVAC equipment upgrade	26,779	19,199	8,248	7,032	3,635	284	7,580	712	2,337	4,532	
Lighting upgrade	25,503	18,255	8,051	6,527	3,517	Q	7,248	715	2,249	4,283	
Electrical upgrade	16,160	11,551	5,306	3,956	2,121	Q	4,609	436	1,563	2,611	
Plumbing system upgrade	13,828	9,845	3,953	3,739	2,056	Q	3,983	375	1,275	2,333	
Insulation upgrade	7,607	5,269	2,546	1,529	1,129	Q	2,338	199	714	1,426	
Fire, safety, or security upgrade	17,196	11,953	5,137	4,320	2,431	Q	5,244	461	1,833	2,950	
Structural upgrade	3,913	2,754	1,624	554	546	Q	1,160	Q	Q	662	
Other	848	587	Q	Q	Q	N	Q	Q	Q	Q	
No renovations	39,154	31,148	14,555	12,473	2,829	1,291	8,007	739	2,013	5,255	
Buildings constructed 2008 or later	5,723	4,729	2,251	1,757	651	Q	994	N	Q	757	
Energy sources (more than one may apply)											
Electricity	84,869	65,620	30,321	25,809	8,820	670	19,248	1,573	5,522	12,153	
Natural gas	58,725	44,481	20,542	17,361	6,254	325	14,244	868	3,939	9,438	
Fuel oil	20,200	14,057	6,308	4,749	2,928	Q	6,143	1,083	1,400	3,660	
District heat	5,964	3,135	1,842	730	557	Q	2,829	708	1,538	584	
District chilled water	4,608	2,104	1,478	297	329	N	2,504	Q	1,448	612	
Propane	7,706	5,896	3,569	1,567	743	Q	1,810	Q	394	1,332	
Other	3,826	2,663	1,431	789	427	Q	1,163	Q	Q	616	

Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

	Total floorspace (million square feet)										
	Nongovernment-owned buildings						Government-owned buildings				
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	87,093	67,550	30,637	26,115	8,873	1,925	19,543	1,573	5,539	12,431	
Space-heating energy sources (more than one may apply)											
Electricity	49,030	39,210	16,986	16,368	5,641	214	9,821	798	2,730	6,293	
Natural gas	49,511	37,495	16,788	15,108	5,282	317	12,016	657	3,069	8,290	
Fuel oil	4,351	2,844	1,691	734	392	Q	1,507	Q	Q	1,169	
District heat	5,925	3,119	1,825	730	557	Q	2,807	697	1,526	584	
Propane	3,067	2,429	1,638	497	285	Q	638	Q	Q	397	
Other	1,010	834	523	Q	Q	N	Q	Q	Q	Q	
Primary space-heating energy source											
Electricity	26,205	22,225	9,948	9,250	2,842	Q	3,980	Q	983	2,785	
Natural gas	42,988	32,258	14,409	12,976	4,592	280	10,730	593	2,717	7,420	
Fuel oil	2,542	1,658	976	426	Q	Q	884	Q	Q	656	
District heat	5,797	3,076	1,793	730	547	Q	2,721	697	1,445	579	
Propane	1,948	1,644	1,311	262	Q	Q	303	Q	Q	235	
Other	598	481	307	Q	Q	N	Q	N	Q	Q	
Cooling energy sources (more than one may apply)											
Electricity	76,034	59,329	26,984	23,688	8,379	278	16,705	1,403	4,086	11,217	
Natural gas	732	542	147	Q	Q	N	Q	Q	Q	Q	
District chilled water	4,608	2,104	1,478	297	329	N	2,504	Q	1,448	612	
Water-heating energy sources (more than one may apply)											
Electricity	42,755	35,729	13,903	16,509	5,232	Q	7,025	667	1,907	4,452	
Natural gas	39,523	28,106	13,220	10,578	4,063	Q	11,417	628	3,096	7,693	
Fuel oil	1,911	1,108	757	Q	Q	N	804	Q	Q	607	
District heat	4,551	2,566	1,593	456	517	N	1,986	691	1,010	285	
Propane	1,575	1,179	849	195	Q	Q	396	Q	Q	Q	
Cooking energy sources (more than one may apply)											
Electricity	25,151	16,711	8,113	6,036	2,557	Q	8,440	851	1,659	5,930	
Natural gas	24,770	17,556	8,066	6,438	3,041	Q	7,214	305	1,546	5,363	
Propane	2,001	1,424	904	280	Q	N	577	Q	Q	462	
Energy end uses (more than one may apply)											
Buildings with space heating	80,078	61,341	28,745	23,766	8,328	502	18,736	1,557	5,411	11,768	
Buildings with cooling	79,294	60,960	28,174	23,907	8,602	278	18,334	1,573	5,252	11,508	
Buildings with water heating	79,015	60,645	27,869	23,900	8,544	332	18,370	1,565	5,270	11,535	
Buildings with cooking	38,546	26,909	13,400	9,378	4,115	Q	11,637	933	2,538	8,166	
Buildings with manufacturing	5,078	4,745	2,024	2,107	614	N	333	Q	Q	Q	
Buildings with electricity generation	25,642	17,555	8,079	5,917	3,502	Q	8,086	1,122	1,829	5,136	

Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

	Total floorspace (million square feet)										
	Nongovernment-owned buildings					Government-owned buildings					
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	87,093	67,550	30,637	26,115	8,873	1,925	19,543	1,573	5,539	12,431	
Percent of floorspace heated											
Not heated	7,015	6,208	1,892	2,349	544	1,423	807	Q	Q	663	
1 to 50	10,130	9,311	3,844	3,801	1,528	Q	819	Q	Q	545	
51 to 99	14,650	11,566	4,662	4,986	1,877	Q	3,084	460	1,135	1,490	
100	55,298	40,465	20,239	14,980	4,923	323	14,833	1,055	4,045	9,733	
Percent of floorspace cooled											
Not cooled	7,799	6,589	2,464	2,208	Q	1,648	1,210	N	287	923	
1 to 50	18,891	15,853	7,022	6,681	2,046	Q	3,037	Q	943	2,011	
51 to 99	22,728	16,290	6,644	6,758	2,846	Q	6,437	926	2,170	3,341	
100	37,676	28,816	14,508	10,468	3,710	Q	8,859	564	2,140	6,155	
Percent lit when open											
Zero	322	304	Q	Q	Q	N	Q	N	Q	Q	Q
1 to 50	12,628	11,290	5,915	3,885	1,490	N	1,338	Q	433	816	
51 to 99	34,814	26,289	11,103	11,365	3,821	N	8,525	891	2,777	4,856	
100	35,726	26,617	12,885	10,265	3,467	N	9,109	577	2,185	6,348	
Building never open/electricity not used	3,603	3,050	643	429	Q	1,925	553	Q	Q	406	
Percent lit during off hours											
Zero	24,746	19,295	9,859	7,328	1,677	431	5,451	Q	1,459	3,788	
1 to 50	50,753	38,812	16,371	16,094	6,108	239	11,941	1,089	3,385	7,467	
51 to 100	6,926	5,391	2,821	1,771	799	N	1,535	Q	599	665	
Building always open with no "off hours"	2,443	2,122	1,269	616	Q	N	322	Q	Q	Q	
Electricity not used	2,225	1,929	317	306	Q	1,255	Q	N	Q	Q	
Heating equipment (more than one may apply)											
Heat pumps	11,846	8,500	3,841	3,022	1,597	Q	3,346	212	636	2,497	
Furnaces	8,654	7,472	3,629	2,880	900	Q	1,182	Q	378	753	
Individual space heaters	20,766	16,206	7,363	6,507	2,284	Q	4,561	558	1,375	2,628	
District heat	5,925	3,119	1,825	730	557	Q	2,807	697	1,526	584	
Boilers	22,443	13,405	6,663	4,091	2,590	Q	9,038	471	2,305	6,263	
Packaged heating units	49,188	40,336	17,635	17,239	5,102	360	8,852	495	2,213	6,144	
Other	1,574	1,316	214	1,021	Q	Q	Q	Q	Q	Q	
Cooling equipment (more than one may apply)											
Residential-type central air conditioners	14,765	12,846	6,442	4,937	1,431	Q	1,919	Q	511	1,250	
Heat pumps	12,538	9,142	4,113	3,345	1,673	Q	3,396	Q	636	2,582	
Individual air conditioners	12,420	9,115	4,591	2,856	1,657	Q	3,305	407	761	2,137	
District chilled water	4,608	2,104	1,478	297	329	N	2,504	Q	1,448	612	
Central chillers	17,041	10,175	4,184	3,678	2,278	Q	6,866	932	1,798	4,135	
Packaged air conditioning units	45,153	36,119	15,037	15,687	5,186	Q	9,034	682	2,246	6,106	
Swamp coolers	1,918	1,373	643	576	Q	N	545	Q	Q	Q	
Other	328	Q	Q	Q	Q	N	Q	Q	Q	Q	

Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

	Total floorspace (million square feet)										
	Nongovernment-owned buildings						Government-owned buildings				
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	87,093	67,550	30,637	26,115	8,873	1,925	19,543	1,573	5,539	12,431	
Main equipment replaced since 1990 (more than one may apply)											
Heating	27,558	21,157	9,562	8,292	3,125	Q	6,400	266	1,797	4,338	
Cooling	30,702	23,862	10,494	9,430	3,825	Q	6,840	409	1,972	4,459	
Water-heating equipment											
Centralized system	47,534	35,837	19,154	12,749	3,698	237	11,697	837	3,188	7,672	
Distributed system	12,688	11,091	4,090	4,804	2,181	Q	1,596	Q	746	749	
Combination of centralized and distributed system	18,793	13,717	4,626	6,347	2,665	Q	5,076	626	1,336	3,115	
Lighting equipment types (more than one may apply)											
Incandescent	38,406	29,885	13,181	11,650	5,011	Q	8,522	761	2,581	5,180	
Standard fluorescent	80,081	61,330	28,109	24,494	8,508	219	18,751	1,572	5,320	11,859	
Compact fluorescent	53,816	40,348	18,432	15,538	6,323	Q	13,469	1,288	4,009	8,171	
High-intensity discharge (HID)	23,396	16,399	6,238	6,932	3,190	Q	6,998	804	1,955	4,238	
Halogen	28,059	22,488	8,652	9,504	4,293	Q	5,571	949	1,716	2,906	
LED	22,071	17,210	6,135	7,422	3,647	Q	4,862	798	1,480	2,584	
Other	446	Q	Q	Q	Q	N	Q	Q	Q	Q	
Refrigeration equipment (more than one may apply)											
Any refrigeration	73,645	55,949	26,616	21,437	7,777	Q	17,696	1,517	4,998	11,180	
Walk-in units	28,361	18,873	7,630	7,877	3,345	Q	9,488	864	2,260	6,365	
Cases or cabinets	28,719	21,072	8,763	8,868	3,422	Q	7,647	836	1,876	4,936	
Large cold storage areas	4,171	3,292	1,365	1,240	687	N	879	Q	Q	587	
Commercial ice makers	32,734	23,456	10,557	8,954	3,907	Q	9,278	874	2,645	5,759	
Residential-type or compact units	62,381	47,604	22,109	18,695	6,748	Q	14,776	1,227	4,114	9,435	
Vending machines	43,936	31,303	13,162	13,020	5,071	Q	12,633	1,288	4,022	7,323	
No refrigeration	13,448	11,601	4,021	4,677	1,096	1,806	1,848	Q	541	1,251	
Office equipment (more than one may apply)											
Desktop computers	77,063	58,540	26,561	23,368	8,546	Q	18,523	1,564	5,276	11,683	
With flat screen monitors	76,160	57,715	26,016	23,163	8,472	Q	18,445	1,564	5,267	11,614	
With multiple monitors	30,946	23,308	8,360	10,617	4,332	N	7,638	998	2,371	4,269	
Laptop computers	63,486	47,112	20,017	19,751	7,317	Q	16,374	1,314	4,565	10,496	
Dedicated servers	53,369	40,203	16,319	17,242	6,604	Q	13,166	1,230	3,438	8,498	
Laser printers	54,256	40,763	17,695	16,747	6,284	Q	13,493	1,309	3,803	8,381	
Inkjet printers	36,235	27,684	12,573	11,001	4,107	Q	8,551	455	2,248	5,847	
FAX machines	66,682	51,133	22,209	20,978	7,881	Q	15,550	1,446	4,053	10,051	
Photocopiers	59,277	43,565	19,647	17,099	6,755	Q	15,711	1,326	4,626	9,760	

Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

Total floorspace (million square feet)

	Nongovernment-owned buildings						Government-owned buildings			
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local
All buildings	87,093	67,550	30,637	26,115	8,873	1,925	19,543	1,573	5,539	12,431
Number of desktop computers										
None	10,030	9,010	4,076	2,747	327	1,860	1,020	Q	263	748
1 to 4	15,669	13,784	8,435	4,501	820	Q	1,885	Q	453	1,273
5 to 9	9,422	8,172	4,093	3,082	996	N	1,250	Q	413	666
10 to 19	9,388	8,335	3,442	3,521	1,371	N	1,054	Q	277	691
20 to 49	13,094	10,590	4,473	4,542	1,537	Q	2,505	Q	839	1,627
50 to 99	8,284	5,121	1,629	2,591	901	N	3,164	Q	1,079	1,929
100 to 249	9,728	5,398	2,262	1,980	1,156	N	4,330	Q	1,163	2,892
250 or more	11,478	7,142	2,226	3,151	1,765	N	4,336	679	1,051	2,605
Number of laptop computers										
None	23,607	20,438	10,620	6,364	1,556	1,898	3,169	Q	974	1,935
1 to 4	21,161	18,233	9,562	6,597	2,046	Q	2,929	Q	758	2,041
5 to 9	8,345	6,792	2,542	3,251	999	N	1,554	Q	Q	1,006
10 to 19	8,343	6,572	1,995	3,405	1,171	N	1,772	Q	421	1,212
20 to 49	9,643	6,199	2,623	2,582	993	N	3,445	Q	1,189	2,154
50 to 99	5,234	2,730	1,062	1,036	632	N	2,504	Q	567	1,697
100 to 249	5,217	2,931	1,138	1,148	645	N	2,286	Q	671	1,402
250 or more	5,542	3,657	1,094	1,733	830	N	1,886	405	498	983
Number of dedicated servers										
None	33,724	27,347	14,318	8,873	2,269	1,888	6,377	Q	2,101	3,933
1 to 4	34,097	25,711	11,554	10,896	3,224	Q	8,386	519	2,193	5,674
5 to 9	6,241	4,648	1,257	2,526	865	N	1,593	Q	352	1,112
10 to 19	5,711	4,587	1,730	1,563	1,294	N	1,124	Q	443	603
20 to 49	3,758	2,632	738	1,199	696	N	1,125	Q	241	726
50 or more	3,562	2,625	1,040	1,058	526	N	938	345	Q	383
Number of photocopiers										
None	27,816	23,984	10,991	9,016	2,118	1,860	3,832	Q	913	2,671
One	17,080	14,576	8,175	5,074	1,262	Q	2,504	Q	666	1,663
2 to 4	20,312	13,983	6,016	5,752	2,215	N	6,329	Q	2,104	4,102
5 to 9	8,863	5,557	1,971	2,445	1,141	N	3,305	Q	1,120	2,085
10 or more	13,022	9,450	3,484	3,828	2,138	N	3,572	927	735	1,910
Number of TVs or video displays										
None	24,339	20,462	8,687	7,885	1,993	1,898	3,877	Q	959	2,763
One	9,990	8,307	4,623	3,047	634	Q	1,683	Q	555	871
2 to 4	16,465	13,194	6,410	5,052	1,707	Q	3,271	Q	921	2,203
5 to 9	8,148	6,297	2,647	2,679	971	N	1,851	Q	634	1,119
10 to 19	8,168	5,169	1,914	2,354	902	N	2,999	Q	884	1,839
20 to 49	8,058	5,372	1,684	2,692	995	N	2,686	Q	509	1,972
50 to 99	4,378	2,989	1,662	814	513	N	1,390	Q	429	808
100 or more	7,547	5,760	3,011	1,592	1,157	N	1,787	283	648	856

Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

	Total floorspace (million square feet)										
	Nongovernment-owned buildings					Government-owned buildings					
	All buildings	All buildings	Owner occupied	Leased to tenant(s)	Owner occupied and leased	Unoccupied	All buildings	Federal	State	Local	
All buildings	87,093	67,550	30,637	26,115	8,873	1,925	19,543	1,573	5,539	12,431	
Food preparation or serving areas in non-food service buildings (more than one may apply)											
Snack bar or concession stand	9,884	6,017	2,527	1,985	1,505	N	3,868	614	853	2,401	
Fast food or small restaurant	9,787	8,787	2,077	4,745	1,965	N	1,000	Q	Q	614	
Cafeteria or large restaurant	15,222	7,773	3,351	2,662	1,760	N	7,449	508	1,556	5,386	
Commercial kitchen/ food preparation area	16,150	9,952	5,062	2,952	1,929	Q	6,198	508	1,368	4,321	
Small kitchen area	14,054	10,324	6,181	2,492	1,644	Q	3,730	276	841	2,613	
Separate computer areas (more than one may apply)											
Data center or server farm	11,105	7,934	3,418	2,823	1,694	N	3,171	531	816	1,824	
Computer-based training room	17,723	10,525	4,645	4,167	1,713	N	7,199	806	2,063	4,330	
Student or public computer center	14,341	6,484	3,431	2,159	894	N	7,858	Q	2,102	5,626	
HVAC conservation features (more than one may apply)											
Economizer cycle	30,749	20,885	8,595	8,599	3,610	Q	9,864	1,013	3,001	5,850	
Regular HVAC maintenance	69,244	51,901	23,421	20,514	7,661	304	17,344	1,553	4,825	10,966	
Building automation system (BAS) ²	37,051	24,391	10,251	9,923	4,114	Q	12,660	1,238	3,525	7,897	
Window and interior lighting features (more than one may apply)											
Multipaned windows	60,362	46,287	21,268	17,938	6,141	941	14,075	1,192	3,894	8,988	
Tinted window glass	45,025	34,511	13,814	14,748	5,242	707	10,514	885	3,246	6,383	
Reflective window glass	15,908	13,120	4,775	6,103	2,126	Q	2,789	362	689	1,737	
External overhangs or awnings	32,188	25,663	10,225	11,637	3,488	313	6,526	528	1,984	4,014	
Skylights or atriums	22,261	16,637	6,525	6,931	2,880	Q	5,623	655	1,768	3,201	
Light scheduling	30,263	23,907	8,247	11,537	4,076	Q	6,356	844	1,687	3,825	
Occupancy sensors	35,871	26,125	9,881	11,955	4,237	Q	9,746	1,202	2,926	5,617	
Multi-level lighting or dimming	14,534	11,424	4,410	5,085	1,906	Q	3,110	470	1,096	1,543	
Daylight harvesting	6,114	4,696	1,688	1,811	1,182	Q	1,418	414	437	567	
Demand responsive lighting	4,738	4,168	981	2,504	683	N	570	Q	Q	288	
Building automation system (BAS) for lighting ²	12,068	9,350	2,425	5,249	1,671	Q	2,717	397	715	1,606	
Equipment usage reduced when building not in full use (more than one may apply)											
Heating	63,167	47,806	21,373	19,438	6,580	415	15,361	1,378	4,358	9,625	
Cooling	62,516	47,611	20,750	19,741	6,890	230	14,905	1,376	4,220	9,309	
Lighting	78,594	60,178	27,704	24,140	8,334	N	18,417	1,517	5,274	11,626	

Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

	Total floorspace (million square feet)																			
	Nongovernment-owned buildings						Government-owned buildings													
	All buildings		All buildings		Owner occupied		Leased to tenant(s)		Owner occupied and leased		Unoccupied	All buildings	Federal	State	Local					
	All buildings	87,093	All buildings	67,550	Owner occupied	30,637	Leased to tenant(s)	26,115	Owner occupied and leased	8,873	Unoccupied	All buildings	Federal	State	Local					
All buildings		87,093		67,550		30,637		26,115		8,873		1,925		19,543		1,573		5,539		12,431

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.

Release date: February 2015

Revised date: May 2016

Table B19. Number of establishments in building, number of buildings, 2012

	Number of buildings (thousand)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	5,557	4,205	862	147	68	27	248
Building floorspace (square feet)							
1,001 to 5,000	2,777	2,285	315	Q	Q	Q	145
5,001 to 10,000	1,229	907	235	34	Q	N	50
10,001 to 25,000	884	600	179	54	16	Q	34
25,001 to 50,000	332	208	65	20	23	Q	Q
50,001 to 100,000	199	125	35	16	10	6	Q
100,001 to 200,000	90	55	21	4	5	3	Q
200,001 to 500,000	38	21	10	1	2	3	Q
Over 500,000	8	3	2	1	(*)	2	Q
Principal building activity							
Education	389	369	19	N	N	N	N
Food sales	177	150	27	Q	N	N	N
Food service	380	346	33	Q	N	N	N
Health care	157	113	39	1	Q	Q	N
Inpatient	10	8	2	Q	Q	Q	N
Outpatient	147	105	37	Q	Q	Q	N
Lodging	158	146	12	Q	Q	Q	N
Mercantile	602	372	133	58	30	8	N
Retail (other than mall)	438	372	62	Q	Q	Q	N
Enclosed and strip malls	164	N	71	57	29	7	N
Office	1,012	657	275	52	19	8	N
Public assembly	352	300	50	Q	Q	Q	N
Public order and safety	84	70	14	N	N	N	N
Religious worship	412	385	26	N	N	N	N
Service	619	526	82	Q	Q	N	N
Warehouse and storage	796	642	110	22	Q	Q	N
Other	125	93	28	Q	Q	Q	N
Vacant	296	35	Q	Q	Q	N	248
Year constructed							
Before 1920	362	263	57	Q	Q	Q	33
1920 to 1945	488	395	56	Q	Q	Q	30
1946 to 1959	599	433	97	Q	Q	Q	58
1960 to 1969	639	484	100	16	7	Q	30
1970 to 1979	684	500	116	20	11	Q	30
1980 to 1989	915	660	154	38	18	11	33
1990 to 1999	845	668	129	22	9	3	Q
2000 to 2003	375	303	51	10	4	Q	Q
2004 to 2007	347	266	53	14	Q	Q	Q
2008 to 2012	303	232	49	Q	Q	Q	Q

Table B19. Number of establishments in building, number of buildings, 2012

	Number of buildings (thousand)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	5,557	4,205	862	147	68	27	248
Census region							
Northeast	805	602	150	19	8	3	24
Midwest	1,237	974	192	21	8	2	41
South	2,247	1,690	328	63	27	8	130
West	1,267	939	193	44	25	14	53
Climate region¹							
Very cold/Cold	2,031	1,540	349	46	19	Q	70
Mixed-humid	1,743	1,368	228	44	19	7	78
Mixed-dry/Hot-dry	837	627	126	Q	11	5	43
Hot-humid	799	567	138	24	11	3	56
Marine	147	102	22	Q	Q	Q	Q
Number of floors							
One	3,836	2,997	510	87	39	17	186
Two	1,158	833	224	38	16	2	45
Three	374	259	87	10	Q	Q	Q
Four to nine	177	112	39	10	6	4	Q
Ten or more	13	4	3	1	2	3	Q
Elevators and escalators (more than one may apply)							
Any elevators	405	248	104	21	15	9	8
Number of elevators							
One	272	175	71	12	Q	Q	Q
Two to five	118	67	28	9	6	5	Q
Six or more	16	7	4	1	2	2	Q
Any escalators	10	4	Q	Q	(*)	1	Q
Number of workers (main shift)							
Fewer than 5	2,892	2,325	278	Q	Q	Q	248
5 to 9	1,085	846	215	21	Q	Q	N
10 to 19	731	526	171	29	Q	N	N
20 to 49	513	312	123	50	26	Q	N
50 to 99	206	127	42	16	16	5	N
100 to 249	93	51	25	4	7	7	N
250 or more	37	17	8	4	3	5	N
Weekly operating hours							
Fewer than 40	1,149	829	68	Q	N	N	248
40 to 48	1,346	1,033	278	24	Q	Q	N
49 to 60	1,244	940	230	47	21	5	N
61 to 84	764	534	147	40	30	14	N
85 to 167	479	392	68	11	Q	Q	N
Open continuously	575	476	71	21	4	Q	N

Table B19. Number of establishments in building, number of buildings, 2012

	Number of buildings (thousand)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	5,557	4,205	862	147	68	27	248
Ownership and occupancy							
Nongovernment owned	4,781	3,537	782	147	67	27	221
Owner occupied	2,466	2,318	142	Q	Q	N	N
Leased to tenant(s)	1,745	1,220	351	103	52	20	N
Owner occupied and leased	349	N	289	40	12	7	N
Unoccupied	221	N	N	N	N	N	221
Government owned	776	668	80	Q	Q	Q	27
Federal	33	27	6	Q	Q	Q	N
State	185	164	17	Q	Q	N	Q
Local	558	477	58	Q	Q	Q	22
Party responsible for operation and maintenance of energy systems							
Building owner	4,715	3,654	670	99	42	21	229
Business owner or tenant	724	466	173	39	24	5	Q
Property management	54	37	Q	Q	Q	Q	Q
Other	64	48	Q	Q	Q	Q	Q
Provider of direct input on energy-related equipment purchases							
Building owner	4,876	3,733	716	119	50	24	235
Business owner or tenant	540	370	119	21	16	2	Q
Property management	35	26	Q	Q	Q	Q	N
Other	106	76	23	Q	Q	Q	Q
Campus or complex activity							
Not part of a campus or complex	3,683	2,753	605	86	36	10	192
Primary or secondary school	237	228	Q	N	Q	N	Q
College or university	84	76	6	Q	N	Q	Q
Office complex	154	75	56	13	5	1	Q
Retail complex	258	157	55	25	13	4	Q
Storage complex	314	255	20	Q	Q	Q	Q
Religious campus or complex	197	184	Q	N	N	N	Q
Health care complex	52	33	16	Q	Q	Q	Q
Lodging or resort complex	65	59	Q	Q	Q	Q	Q
Transportation complex	35	22	Q	Q	Q	Q	N
Government complex	104	87	15	Q	N	Q	Q
Other	371	276	61	10	Q	Q	Q
Energy sources (more than one may apply)							
Electricity	5,234	4,079	862	136	66	19	72
Natural gas	2,933	2,244	514	91	47	11	26
Fuel oil	467	356	89	7	4	5	Q
District heat	48	36	8	Q	Q	1	Q
District chilled water	54	46	5	Q	Q	Q	Q
Propane	510	430	75	Q	Q	Q	Q
Other	172	137	29	Q	Q	Q	Q

Table B19. Number of establishments in building, number of buildings, 2012

	Number of buildings (thousand)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	5,557	4,205	862	147	68	27	248
Energy end uses (more than one may apply)							
Buildings with space heating	4,722	3,646	816	132	60	18	51
Buildings with cooling	4,461	3,414	807	134	60	18	28
Buildings with water heating	4,423	3,391	794	130	62	19	27
Buildings with cooking	1,589	1,262	232	46	31	11	Q
Buildings with manufacturing	259	187	48	Q	Q	Q	N
Buildings with electricity generation	410	303	84	10	7	5	Q
Percent of floorspace heated							
Not heated	835	559	47	Q	Q	Q	197
1 to 50	697	524	135	18	Q	Q	Q
51 to 99	727	528	129	43	14	8	Q
100	3,298	2,594	551	71	37	8	37
Percent of floorspace cooled							
Not cooled	1,096	791	55	Q	Q	Q	220
1 to 50	1,173	888	246	24	Q	Q	Q
51 to 99	897	655	151	51	25	9	Q
100	2,391	1,870	410	59	26	7	Q
Percent lit when open							
Zero	70	56	Q	Q	Q	N	N
1 to 50	1,099	870	206	16	Q	Q	N
51 to 99	1,666	1,200	323	88	43	12	N
100	2,222	1,854	321	30	11	6	N
Building never open/electricity not used	501	226	Q	Q	Q	Q	248
Percent lit during off hours							
Zero	2,489	2,056	349	22	Q	Q	49
1 to 50	2,441	1,782	463	104	53	15	22
51 to 100	202	161	32	6	Q	1	N
Building always open with no "off hours"	102	80	19	Q	Q	Q	N
Electricity not used	323	126	N	Q	Q	Q	176
Heating equipment (more than one may apply)							
Heat pumps	628	474	101	35	11	3	Q
Furnaces	755	560	142	29	9	Q	Q
Individual space heaters	1,247	954	235	31	15	3	Q
District heat	48	36	8	Q	Q	1	Q
Boilers	544	408	98	19	10	5	Q
Packaged heating units	2,802	2,101	514	100	49	13	25
Other	62	43	Q	Q	Q	Q	Q

Table B19. Number of establishments in building, number of buildings, 2012

	Number of buildings (thousand)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	5,557	4,205	862	147	68	27	248
Cooling equipment (more than one may apply)							
Residential-type central air conditioners	1,546	1,189	272	55	17	5	Q
Heat pumps	692	519	115	36	14	3	Q
Individual air conditioners	709	544	140	12	6	2	Q
District chilled water	54	46	5	Q	Q	Q	Q
Central chillers	163	112	33	7	5	4	Q
Packaged air conditioning units	1,909	1,376	388	81	44	11	Q
Swamp coolers	109	91	14	Q	Q	Q	N
Other	Q	Q	Q	N	Q	Q	N
Main equipment replaced since 1990 (more than one may apply)							
Heating	1,874	1,441	315	70	23	9	Q
Cooling	1,971	1,500	347	75	28	9	Q
Water-heating equipment							
Centralized system	3,348	2,694	540	65	24	5	21
Distributed system	690	479	167	27	11	5	Q
Combination of centralized and distributed system	385	219	87	38	27	9	Q
Lighting equipment types (more than one may apply)							
Incandescent	1,826	1,326	365	77	41	11	Q
Standard fluorescent	4,649	3,603	816	131	60	18	22
Compact fluorescent	2,302	1,716	414	102	49	17	Q
High-intensity discharge (HID)	525	357	102	35	22	7	Q
Halogen	905	626	185	51	30	13	Q
LED	473	293	96	44	29	11	Q
Other	10	Q	Q	Q	Q	Q	N
Refrigeration equipment (more than one may apply)							
Any refrigeration	3,984	3,083	712	103	54	15	Q
Walk-in units	811	600	129	41	29	10	Q
Cases or cabinets	915	687	140	44	32	9	Q
Large cold storage areas	78	55	12	Q	4	2	N
Commercial ice makers	846	635	131	39	26	10	Q
Residential-type or compact units	3,388	2,585	628	97	52	14	Q
Vending machines	960	679	186	46	33	13	Q
No refrigeration	1,573	1,122	150	44	Q	Q	232

Table B19. Number of establishments in building, number of buildings, 2012

	Number of buildings (thousand)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	5,557	4,205	862	147	68	27	248
Office equipment (more than one may apply)							
Desktop computers	3,977	2,981	780	133	62	19	Q
With flat screen monitors	3,847	2,870	761	133	62	19	Q
With multiple monitors	911	557	233	71	38	11	N
Laptop computers	2,730	1,913	611	125	61	18	Q
Dedicated servers	1,748	1,189	401	96	45	15	Q
Laser printers	2,339	1,657	523	97	48	15	Q
Inkjet printers	2,187	1,684	395	73	27	8	Q
FAX machines	3,185	2,315	671	123	55	18	Q
Photocopiers	2,163	1,550	458	88	49	15	Q
Number of desktop computers							
None	1,581	1,224	83	Q	Q	Q	245
1 to 4	2,039	1,703	314	Q	Q	Q	Q
5 to 9	821	590	193	34	Q	Q	N
10 to 19	482	287	137	41	18	Q	N
20 to 49	355	214	85	29	19	7	Q
50 to 99	143	95	28	9	9	2	N
100 to 249	92	65	16	4	3	4	N
250 or more	44	28	6	4	2	4	N
Number of laptop computers							
None	2,827	2,292	251	22	Q	Q	246
1 to 4	1,944	1,446	445	41	Q	Q	Q
5 to 9	350	193	88	52	16	Q	N
10 to 19	181	94	38	18	25	6	N
20 to 49	144	96	27	9	7	5	N
50 to 99	58	45	6	Q	2	3	N
100 to 249	35	26	4	Q	1	2	N
250 or more	20	14	3	1	1	1	N
Number of dedicated servers							
None	3,809	3,016	461	50	23	Q	248
1 to 4	1,562	1,102	346	79	30	4	Q
5 to 9	97	41	30	13	9	4	N
10 to 19	50	23	15	3	4	5	N
20 to 49	25	16	6	Q	1	2	N
50 or more	13	7	4	Q	Q	1	N
Number of photocopiers							
None	3,394	2,655	405	58	19	Q	245
One	1,325	1,040	241	31	10	Q	Q
2 to 4	648	417	177	30	21	3	N
5 to 9	116	58	24	18	10	5	N
10 or more	75	36	16	9	8	6	N

Table B19. Number of establishments in building, number of buildings, 2012

	Number of buildings (thousand)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	5,557	4,205	862	147	68	27	248
Number of TVs or video displays							
None	2,718	2,047	354	46	Q	Q	246
One	1,145	955	171	Q	Q	Q	Q
2 to 4	1,035	745	229	44	13	Q	Q
5 to 9	314	217	62	27	7	Q	N
10 to 19	154	98	25	10	18	3	N
20 to 49	106	72	12	6	10	7	N
50 to 99	48	40	5	Q	Q	2	N
100 or more	37	31	4	(*)	(*)	1	N
Food preparation or serving areas in non-food service buildings (more than one may apply)							
Snack bar or concession stand	153	101	31	10	7	4	N
Fast food or small restaurant	173	52	55	33	26	8	N
Cafeteria or large restaurant	130	95	18	9	5	2	N
Commercial kitchen/ food preparation area	282	214	42	10	9	5	Q
Small kitchen area	736	605	98	13	11	3	Q
Separate computer areas (more than one may apply)							
Data center or server farm	97	60	29	4	2	2	N
Computer-based training room	244	164	56	11	9	4	N
Student or public computer center	238	183	32	12	9	3	N
HVAC conservation features (more than one may apply)							
Economizer cycle	601	427	119	29	16	7	Q
Regular HVAC maintenance	3,178	2,413	554	107	57	18	29
Building automation system (BAS) ²	781	579	128	33	26	11	Q
Window and interior lighting features (more than one may apply)							
Multipaned windows	3,012	2,240	520	105	46	15	86
Tinted window glass	1,875	1,318	352	92	50	15	49
Reflective window glass	549	380	97	41	20	7	Q
External overhangs or awnings	1,867	1,349	345	87	37	10	40
Skylights or atriums	591	394	121	33	25	6	Q
Light scheduling	918	617	177	70	38	13	Q
Occupancy sensors	813	551	160	55	33	14	Q
Multi-level lighting or dimming	349	220	63	34	23	9	Q
Daylight harvesting	125	85	19	7	9	2	Q
Demand responsive lighting	176	108	33	21	11	3	N
Building automation system (BAS) for lighting ²	208	121	40	21	18	8	Q

Table B19. Number of establishments in building, number of buildings, 2012

	Number of buildings (thousand)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	5,557	4,205	862	147	68	27	248
Equipment usage reduced when building not in full use (more than one may apply)							
Heating	3,699	2,802	671	121	54	15	36
Cooling	3,517	2,645	661	123	55	16	16
Lighting	4,757	3,729	820	130	59	18	N

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.

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

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.

Release date: February 2015

Revised date: May 2016

Table B20. Number of establishments in building, floorspace, 2012

	Total floorspace (million square feet)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	87,093	54,994	17,756	4,425	3,704	3,821	2,393
Building floorspace (square feet)							
1,001 to 5,000	8,041	6,548	1,068	Q	Q	Q	336
5,001 to 10,000	8,900	6,560	1,720	270	Q	N	319
10,001 to 25,000	14,105	9,593	2,812	871	289	Q	538
25,001 to 50,000	11,917	7,470	2,299	733	798	Q	Q
50,001 to 100,000	13,918	8,621	2,545	1,062	760	456	Q
100,001 to 200,000	12,415	7,599	2,929	528	715	484	Q
200,001 to 500,000	10,724	5,876	2,726	416	742	872	Q
Over 500,000	7,074	2,727	1,657	493	358	1,780	Q
Principal building activity							
Education	12,239	11,241	998	N	N	N	N
Food sales	1,252	942	292	Q	N	N	N
Food service	1,819	1,570	249	Q	N	N	N
Health care	4,155	2,520	1,154	198	Q	Q	N
Inpatient	2,374	1,603	546	Q	Q	Q	N
Outpatient	1,781	917	609	Q	Q	Q	N
Lodging	5,826	4,778	947	Q	Q	Q	N
Mercantile	11,330	3,827	2,483	1,613	1,775	1,632	N
Retail (other than mall)	5,439	3,827	1,432	Q	Q	Q	N
Enclosed and strip malls	5,890	N	1,050	1,601	1,746	1,493	N
Office	15,952	7,318	3,988	1,693	1,234	1,719	N
Public assembly	5,559	3,850	1,307	Q	Q	Q	N
Public order and safety	1,440	927	512	N	N	N	N
Religious worship	4,557	3,864	694	N	N	N	N
Service	4,630	3,396	957	Q	Q	N	N
Warehouse and storage	13,077	9,157	3,128	325	Q	Q	N
Other	2,002	1,130	698	Q	Q	Q	N
Vacant	3,256	476	Q	Q	Q	N	2,393
Year constructed							
Before 1920	3,983	2,259	1,009	Q	Q	Q	279
1920 to 1945	6,025	3,859	1,411	Q	Q	Q	220
1946 to 1959	7,381	4,937	1,595	Q	Q	Q	268
1960 to 1969	10,362	6,803	2,092	484	355	359	269
1970 to 1979	10,846	6,639	2,065	604	439	704	394
1980 to 1989	15,230	8,315	3,039	1,092	1,022	1,363	399
1990 to 1999	13,803	8,771	2,750	636	710	545	Q
2000 to 2003	7,215	5,185	1,164	343	330	Q	Q
2004 to 2007	6,524	4,419	1,229	374	Q	Q	Q
2008 to 2012	5,723	3,805	1,401	Q	Q	Q	Q

Table B20. Number of establishments in building, floorspace, 2012

	Total floorspace (million square feet)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	87,093	54,994	17,756	4,425	3,704	3,821	2,393
Census region							
Northeast	15,534	9,527	3,305	775	833	832	262
Midwest	18,919	12,503	4,207	798	493	532	386
South	34,279	21,742	6,503	1,750	1,560	1,419	1,306
West	18,360	11,222	3,742	1,103	818	1,037	439
Climate region¹							
Very cold/Cold	31,898	20,812	6,741	1,402	1,234	1,026	682
Mixed-humid	27,873	17,729	5,626	1,453	1,289	1,280	498
Mixed-dry/Hot-dry	12,037	7,610	2,299	570	470	690	397
Hot-humid	12,831	7,606	2,427	731	629	666	773
Marine	2,454	1,237	663	Q	Q	Q	Q
Number of floors							
One	39,809	25,686	7,605	2,016	1,851	1,183	1,470
Two	20,206	14,210	3,755	891	467	439	444
Three	8,140	5,591	1,810	254	Q	Q	Q
Four to nine	13,535	7,895	3,323	746	532	720	Q
Ten or more	5,404	1,613	1,263	518	638	1,327	Q
Elevators and escalators (more than one may apply)							
Any elevators	32,120	18,695	7,181	1,757	1,569	2,487	430
Number of elevators							
One	11,158	8,130	2,135	393	Q	Q	Q
Two to five	12,817	7,589	2,812	770	572	837	Q
Six or more	8,145	2,977	2,234	594	749	1,546	Q
Any escalators	3,654	872	1,153	Q	261	1,043	Q
Number of workers (main shift)							
Fewer than 5	17,751	13,276	1,785	Q	Q	Q	2,393
5 to 9	8,973	6,712	2,002	195	Q	Q	N
10 to 19	9,623	6,905	2,291	343	Q	N	N
20 to 49	14,514	8,722	3,443	1,362	855	Q	N
50 to 99	13,476	8,068	3,184	924	955	346	N
100 to 249	10,941	6,459	2,404	378	772	928	N
250 or more	11,815	4,853	2,647	1,010	939	2,366	N
Weekly operating hours							
Fewer than 40	8,220	5,191	555	Q	N	N	2,393
40 to 48	15,828	10,775	4,083	494	Q	Q	N
49 to 60	20,529	13,123	4,063	1,483	922	938	N
61 to 84	15,867	8,096	2,960	1,145	1,748	1,918	N
85 to 167	9,395	6,429	2,214	385	Q	Q	N
Open continuously	17,253	11,380	3,881	837	533	623	N

Table B20. Number of establishments in building, floorspace, 2012

	Total floorspace (million square feet)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	87,093	54,994	17,756	4,425	3,704	3,821	2,393
Ownership and occupancy							
Nongovernment owned	67,550	39,577	14,543	4,303	3,533	3,669	1,925
Owner occupied	30,637	27,607	2,918	Q	Q	N	N
Leased to tenant(s)	26,115	11,970	5,886	3,125	2,731	2,401	N
Owner occupied and leased	8,873	N	5,739	1,088	778	1,268	N
Unoccupied	1,925	N	N	N	N	N	1,925
Government owned	19,543	15,417	3,213	Q	Q	Q	468
Federal	1,573	940	594	Q	Q	Q	N
State	5,539	4,352	990	Q	Q	N	Q
Local	12,431	10,126	1,629	Q	Q	Q	Q
Party responsible for operation and maintenance of energy systems							
Building owner	73,702	49,178	14,057	2,905	2,326	3,056	2,181
Business owner or tenant	11,309	4,745	3,255	1,224	1,211	675	Q
Property management	1,250	488	Q	Q	Q	Q	Q
Other	832	583	Q	Q	Q	Q	Q
Provider of direct input on energy-related equipment purchases							
Building owner	76,271	49,848	15,004	3,361	2,561	3,237	2,259
Business owner or tenant	8,256	3,859	2,136	833	917	382	Q
Property management	880	423	Q	Q	Q	Q	N
Other	1,686	864	435	Q	Q	Q	Q
Campus or complex activity							
Not part of a campus or complex	52,275	32,837	11,199	2,571	1,856	2,117	1,694
Primary or secondary school	4,616	4,276	Q	N	Q	N	Q
College or university	4,068	3,408	554	Q	N	Q	Q
Office complex	3,456	1,381	779	470	319	412	Q
Retail complex	5,159	1,605	914	752	1,043	754	Q
Storage complex	3,212	2,379	453	Q	Q	Q	Q
Religious campus or complex	1,932	1,791	Q	N	N	N	Q
Health care complex	3,362	2,226	818	Q	Q	Q	Q
Lodging or resort complex	1,295	962	Q	Q	Q	Q	Q
Transportation complex	554	153	Q	Q	Q	Q	N
Government complex	2,107	1,183	882	Q	N	Q	Q
Other	5,057	2,793	1,317	324	Q	Q	Q
Energy sources (more than one may apply)							
Electricity	84,869	54,485	17,756	4,313	3,675	3,795	845
Natural gas	58,725	37,156	12,432	3,092	2,762	2,862	420
Fuel oil	20,200	11,534	4,944	873	884	1,893	Q
District heat	5,964	3,410	1,457	357	Q	447	Q
District chilled water	4,608	3,241	766	Q	Q	Q	Q
Propane	7,706	5,634	1,691	Q	Q	Q	Q
Other	3,826	2,431	1,009	Q	Q	Q	Q

Table B20. Number of establishments in building, floorspace, 2012

	Total floorspace (million square feet)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	87,093	54,994	17,756	4,425	3,704	3,821	2,393
Energy end uses (more than one may apply)							
Buildings with space heating	80,078	50,986	17,078	4,239	3,580	3,574	621
Buildings with cooling	79,294	50,081	17,149	4,305	3,624	3,783	352
Buildings with water heating	79,015	50,143	16,818	4,204	3,664	3,790	395
Buildings with cooking	38,546	23,968	7,333	2,062	2,308	2,858	Q
Buildings with manufacturing	5,078	2,688	1,462	Q	Q	Q	N
Buildings with electricity generation	25,642	15,516	5,763	1,045	1,127	2,133	Q
Percent of floorspace heated							
Not heated	7,015	4,008	678	Q	Q	Q	1,772
1 to 50	10,130	6,277	2,594	443	Q	Q	Q
51 to 99	14,650	7,037	3,732	1,301	1,151	1,378	Q
100	55,298	37,672	10,752	2,495	2,098	1,848	432
Percent of floorspace cooled							
Not cooled	7,799	4,913	607	Q	Q	Q	2,041
1 to 50	18,891	12,570	4,755	668	Q	Q	Q
51 to 99	22,728	11,914	5,325	1,771	1,690	1,914	Q
100	37,676	25,597	7,069	1,866	1,497	1,514	Q
Percent lit when open							
Zero	322	257	Q	Q	Q	N	N
1 to 50	12,628	8,810	3,058	359	Q	Q	N
51 to 99	34,814	20,320	7,277	2,660	2,442	2,115	N
100	35,726	24,614	7,323	1,286	949	1,554	N
Building never open/electricity not used	3,603	993	Q	Q	Q	Q	2,393
Percent lit during off hours							
Zero	24,746	18,734	4,395	536	261	Q	539
1 to 50	50,753	29,946	10,997	3,313	3,052	3,140	306
51 to 100	6,926	4,464	1,523	402	273	264	N
Building always open with no "off hours"	2,443	1,340	841	Q	Q	Q	N
Electricity not used	2,225	509	N	Q	Q	Q	1,548
Heating equipment (more than one may apply)							
Heat pumps	11,846	7,328	2,234	921	638	686	Q
Furnaces	8,654	5,625	1,626	607	439	Q	Q
Individual space heaters	20,766	12,661	4,871	1,163	943	1,070	Q
District heat	5,925	3,391	1,438	357	Q	447	Q
Boilers	22,443	14,812	4,802	913	766	1,063	Q
Packaged heating units	49,188	29,823	10,872	3,014	2,827	2,283	370
Other	1,574	556	Q	Q	Q	Q	Q

Table B20. Number of establishments in building, floorspace, 2012

	Total floorspace (million square feet)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	87,093	54,994	17,756	4,425	3,704	3,821	2,393
Cooling equipment (more than one may apply)							
Residential-type central air conditioners	14,765	9,898	2,851	984	545	450	Q
Heat pumps	12,538	7,637	2,397	959	865	664	Q
Individual air conditioners	12,420	8,082	3,004	439	445	439	Q
District chilled water	4,608	3,241	766	Q	Q	Q	Q
Central chillers	17,041	9,608	4,131	750	842	1,667	Q
Packaged air conditioning units	45,153	26,166	10,887	2,962	2,654	2,275	Q
Swamp coolers	1,918	1,288	368	Q	Q	Q	N
Other	328	Q	Q	N	Q	Q	N
Main equipment replaced since 1990 (more than one may apply)							
Heating	27,558	17,387	5,374	1,913	1,020	1,671	Q
Cooling	30,702	18,646	6,491	2,173	1,264	2,014	Q
Water-heating equipment							
Centralized system	47,534	34,771	8,763	1,749	1,141	873	237
Distributed system	12,688	6,780	3,512	888	553	938	Q
Combination of centralized and distributed system	18,793	8,592	4,544	1,566	1,970	1,979	Q
Lighting equipment types (more than one may apply)							
Incandescent	38,406	21,437	8,853	2,707	2,692	2,624	Q
Standard fluorescent	80,081	50,904	17,286	4,231	3,610	3,765	285
Compact fluorescent	53,816	32,706	10,787	3,518	3,212	3,490	Q
High-intensity discharge (HID)	23,396	13,166	4,993	1,421	1,653	2,124	Q
Halogen	28,059	14,075	6,639	2,191	2,428	2,687	Q
LED	22,071	10,132	5,211	1,846	2,309	2,570	Q
Other	446	Q	Q	Q	Q	Q	N
Refrigeration equipment (more than one may apply)							
Any refrigeration	73,645	47,153	15,599	3,796	3,404	3,528	Q
Walk-in units	28,361	16,473	5,436	1,746	2,126	2,559	Q
Cases or cabinets	28,719	16,429	5,736	2,002	2,298	2,234	Q
Large cold storage areas	4,171	1,980	1,145	Q	386	375	N
Commercial ice makers	32,734	19,402	6,461	2,013	2,220	2,600	Q
Residential-type or compact units	62,381	39,164	13,259	3,475	3,146	3,239	Q
Vending machines	43,936	26,276	9,478	2,267	2,707	3,113	Q
No refrigeration	13,448	7,841	2,158	630	Q	Q	2,228

Table B20. Number of establishments in building, floorspace, 2012

	Total floorspace (million square feet)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	87,093	54,994	17,756	4,425	3,704	3,821	2,393
Office equipment (more than one may apply)							
Desktop computers	77,063	48,169	17,073	4,303	3,659	3,795	Q
With flat screen monitors	76,160	47,498	16,840	4,303	3,659	3,795	Q
With multiple monitors	30,946	15,872	7,128	2,625	2,543	2,778	N
Laptop computers	63,486	37,798	14,258	4,057	3,628	3,718	Q
Dedicated servers	53,369	30,356	12,662	3,751	3,157	3,406	Q
Laser printers	54,256	32,909	11,961	3,347	2,985	3,016	Q
Inkjet printers	36,235	23,352	7,706	1,968	1,505	1,701	Q
FAX machines	66,682	40,115	15,315	4,059	3,481	3,647	Q
Photocopiers	59,277	36,301	13,053	3,437	3,075	3,347	Q
Number of desktop computers							
None	10,030	6,825	684	Q	Q	Q	2,328
1 to 4	15,669	12,430	2,903	Q	Q	Q	Q
5 to 9	9,422	6,392	2,381	526	Q	Q	N
10 to 19	9,388	5,209	2,567	948	630	Q	N
20 to 49	13,094	7,062	3,364	939	1,094	598	Q
50 to 99	8,284	4,855	1,887	386	666	491	N
100 to 249	9,728	6,262	2,002	431	271	762	N
250 or more	11,478	5,959	1,970	901	799	1,849	N
Number of laptop computers							
None	23,607	17,196	3,499	368	Q	Q	2,365
1 to 4	21,161	14,234	5,828	774	Q	Q	Q
5 to 9	8,345	4,389	1,902	1,281	560	Q	N
10 to 19	8,343	3,902	1,845	537	1,487	571	N
20 to 49	9,643	5,813	1,870	622	457	881	N
50 to 99	5,234	3,351	1,007	Q	203	475	N
100 to 249	5,217	3,305	921	Q	245	539	N
250 or more	5,542	2,804	884	438	481	935	N
Number of dedicated servers							
None	33,724	24,638	5,094	674	547	415	2,356
1 to 4	34,097	21,961	7,983	2,196	1,314	605	Q
5 to 9	6,241	2,726	1,408	683	703	721	N
10 to 19	5,711	2,265	1,614	420	626	787	N
20 to 49	3,758	1,671	930	Q	308	660	N
50 or more	3,562	1,733	728	Q	Q	634	N
Number of photocopiers							
None	27,816	18,694	4,703	989	629	474	2,328
One	17,080	12,167	3,425	766	346	Q	Q
2 to 4	20,312	13,010	5,050	776	1,104	373	N
5 to 9	8,863	5,067	1,635	807	655	699	N
10 or more	13,022	6,056	2,944	1,087	970	1,965	N

Table B20. Number of establishments in building, floorspace, 2012

	Total floorspace (million square feet)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	87,093	54,994	17,756	4,425	3,704	3,821	2,393
Number of TVs or video displays							
None	24,339	16,270	4,346	634	Q	Q	2,365
One	9,990	7,189	2,390	Q	Q	Q	Q
2 to 4	16,465	10,921	3,980	1,043	325	Q	Q
5 to 9	8,148	4,502	2,055	863	508	Q	N
10 to 19	8,168	4,481	1,602	586	1,013	486	N
20 to 49	8,058	4,176	1,183	485	1,091	1,123	N
50 to 99	4,378	2,924	625	Q	Q	514	N
100 or more	7,547	4,532	1,576	353	246	840	N
Food preparation or serving areas in non-food service buildings (more than one may apply)							
Snack bar or concession stand	9,884	5,175	2,263	467	669	1,311	N
Fast food or small restaurant	9,787	2,264	2,341	1,196	1,810	2,176	N
Cafeteria or large restaurant	15,222	10,251	2,289	858	687	1,137	N
Commercial kitchen/ food preparation area	16,150	10,651	3,160	685	771	873	Q
Small kitchen area	14,054	8,927	2,902	594	674	948	Q
Separate computer areas (more than one may apply)							
Data center or server farm	11,105	6,247	2,413	733	697	1,015	N
Computer-based training room	17,723	11,034	3,390	857	1,150	1,293	N
Student or public computer center	14,341	10,885	1,759	474	562	662	N
HVAC conservation features (more than one may apply)							
Economizer cycle	30,749	17,800	6,970	1,870	1,809	2,216	Q
Regular HVAC maintenance	69,244	43,275	14,554	3,849	3,520	3,703	343
Building automation system (BAS) ²	37,051	21,900	7,518	2,079	2,557	2,803	Q
Window and interior lighting features (more than one may apply)							
Multipaned windows	60,362	37,610	12,227	3,587	3,077	2,781	1,079
Tinted window glass	45,025	25,142	9,907	3,144	2,938	2,903	991
Reflective window glass	15,908	8,158	3,000	1,502	1,679	1,429	Q
External overhangs or awnings	32,188	18,255	6,893	2,731	2,309	1,662	339
Skylights or atriums	22,261	12,677	4,618	1,294	1,664	1,683	Q
Light scheduling	30,263	15,750	5,979	2,881	2,712	2,890	Q
Occupancy sensors	35,871	19,816	7,946	2,516	2,688	2,854	Q
Multi-level lighting or dimming	14,534	7,199	3,149	1,245	1,513	1,405	Q
Daylight harvesting	6,114	2,643	1,705	363	660	728	Q
Demand responsive lighting	4,738	1,736	953	616	757	676	N
Building automation system (BAS) for lighting ²	12,068	5,267	2,232	1,095	1,681	1,788	Q

Table B20. Number of establishments in building, floorspace, 2012

	Total floorspace (million square feet)						
	Number of establishments in building						
	All buildings	One	2 to 5	6 to 10	11 to 20	More than 20	Unoccupied
All buildings	87,093	54,994	17,756	4,425	3,704	3,821	2,393
Equipment usage reduced when building not in full use (more than one may apply)							
Heating	63,167	39,016	13,596	3,841	3,219	2,993	502
Cooling	62,516	38,170	13,519	3,923	3,261	3,344	299
Lighting	78,594	50,744	16,528	4,238	3,456	3,628	N

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.

Release date: February 2015

Revised date: May 2016

Table B21. Multibuilding campuses or complexes, number of buildings and floorspace, 2012

	Number of buildings (thousand)			Total floorspace (million square feet)		
	Buildings on campuses or complexes			Buildings on campuses or complexes		
	All buildings	All buildings	With central facilities plant	All buildings	All buildings	With central facilities plant
All buildings	5,557	1,874	137	87,093	34,818	7,888
Building floorspace (square feet)						
1,001 to 5,000	2,777	888	32	8,041	2,595	80
5,001 to 10,000	1,229	387	Q	8,900	2,824	Q
10,001 to 25,000	884	333	32	14,105	5,366	494
25,001 to 50,000	332	125	15	11,917	4,487	569
50,001 to 100,000	199	81	19	13,918	5,679	1,239
100,001 to 200,000	90	38	11	12,415	5,407	1,659
200,001 to 500,000	38	18	7	10,724	5,040	2,003
Over 500,000	8	4	2	7,074	3,419	1,709
Principal building activity						
Education	389	268	48	12,239	6,547	2,174
Food sales	177	Q	N	1,252	Q	N
Food service	380	65	Q	1,819	401	Q
Health care	157	48	5	4,155	2,464	1,229
Inpatient	10	6	2	2,374	1,846	1,016
Outpatient	147	42	3	1,781	619	213
Lodging	158	89	15	5,826	2,630	833
Mercantile	602	135	N	11,330	4,110	N
Retail (other than mall)	438	61	N	5,439	1,054	N
Enclosed and strip malls	164	74	N	5,890	3,056	N
Office	1,012	271	27	15,952	5,726	1,619
Public assembly	352	140	11	5,559	2,582	980
Public order and safety	84	19	Q	1,440	678	Q
Religious worship	412	120	Q	4,557	1,379	Q
Service	619	178	Q	4,630	1,609	Q
Warehouse and storage	796	402	Q	13,077	4,858	Q
Other	125	59	Q	2,002	691	Q
Vacant	296	68	Q	3,256	1,012	Q
Year constructed						
Before 1920	362	73	Q	3,983	1,500	Q
1920 to 1945	488	120	11	6,025	2,375	699
1946 to 1959	599	183	16	7,381	2,952	805
1960 to 1969	639	199	23	10,362	4,090	1,388
1970 to 1979	684	222	20	10,846	4,682	1,243
1980 to 1989	915	339	17	15,230	5,535	662
1990 to 1999	845	333	24	13,803	5,847	1,150
2000 to 2003	375	143	8	7,215	2,967	Q
2004 to 2007	347	142	7	6,524	2,609	534
2008 to 2012	303	119	6	5,723	2,262	312

Table B21. Multibuilding campuses or complexes, number of buildings and floorspace, 2012

	Number of buildings (thousand)			Total floorspace (million square feet)		
	Buildings on campuses or complexes			Buildings on campuses or complexes		
	All buildings	All buildings	With central facilities plant	All buildings	All buildings	With central facilities plant
All buildings	5,557	1,874	137	87,093	34,818	7,888
Census region						
Northeast	805	255	24	15,534	6,505	1,817
Midwest	1,237	316	14	18,919	6,297	1,065
South	2,247	762	61	34,279	14,076	3,403
West	1,267	541	39	18,360	7,941	1,602
Number of workers (main shift)						
Fewer than 5	2,892	961	48	17,751	6,917	701
5 to 9	1,085	348	12	8,973	2,940	192
10 to 19	731	230	11	9,623	2,900	279
20 to 49	513	193	29	14,514	5,504	1,079
50 to 99	206	82	19	13,476	5,308	1,265
100 to 249	93	43	12	10,941	5,258	1,581
250 or more	37	18	6	11,815	5,991	2,790
Weekly operating hours						
Fewer than 40	1,149	341	Q	8,220	2,664	Q
40 to 48	1,346	451	35	15,828	5,800	660
49 to 60	1,244	393	30	20,529	7,538	1,403
61 to 84	764	281	18	15,867	6,359	1,004
85 to 167	479	137	19	9,395	3,547	1,099
Open continuously	575	271	28	17,253	8,910	3,483
Ownership and occupancy						
Nongovernment owned	4,781	1,426	57	67,550	24,504	3,989
Owner occupied	2,466	737	49	30,637	11,136	2,823
Leased to tenant(s)	1,745	568	4	26,115	9,979	593
Owner occupied and leased	349	76	2	8,873	2,857	532
Unoccupied	221	45	Q	1,925	532	Q
Government owned	776	448	79	19,543	10,314	3,898
Federal	33	13	2	1,573	887	473
State	185	141	42	5,539	4,071	2,388
Local	558	294	35	12,431	5,356	1,038
Party responsible for operation and maintenance of energy systems						
Building owner	4,715	1,638	135	73,702	29,356	7,697
Business owner or tenant	724	199	Q	11,309	4,713	Q
Property management	54	23	Q	1,250	559	Q
Other	64	Q	Q	832	Q	Q
Provider of direct input on energy-related equipment purchases						
Building owner	4,876	1,706	135	76,271	30,384	7,698
Business owner or tenant	540	134	Q	8,256	3,441	Q
Property management	35	8	N	880	357	N
Other	106	25	Q	1,686	636	Q

Table B21. Multibuilding campuses or complexes, number of buildings and floorspace, 2012

	Number of buildings (thousand)			Total floorspace (million square feet)		
	Buildings on campuses or complexes			Buildings on campuses or complexes		
	All buildings	All buildings	With central facilities plant	All buildings	All buildings	With central facilities plant
All buildings	5,557	1,874	137	87,093	34,818	7,888
Campus or complex activity						
Not part of a campus or complex	3,683	N	N	52,275	N	N
Primary or secondary school	237	237	33	4,616	4,616	744
College or university	84	84	58	4,068	4,068	3,282
Office complex	154	154	5	3,456	3,456	551
Retail complex	258	258	N	5,159	5,159	N
Storage complex	314	314	Q	3,212	3,212	Q
Religious campus or complex	197	197	Q	1,932	1,932	Q
Health care complex	52	52	13	3,362	3,362	1,624
Lodging or resort complex	65	65	Q	1,295	1,295	Q
Transportation complex	35	35	Q	554	554	Q
Government complex	104	104	11	2,107	2,107	681
Other	371	371	9	5,057	5,057	456
Central plant that produces (more than one may apply)						
District hot water	55	55	55	3,701	3,701	3,701
District steam	48	48	48	4,582	4,582	4,582
District chilled water	100	100	100	6,361	6,361	6,361
Electricity	37	37	37	1,949	1,949	1,949
Energy sources (more than one may apply)						
Electricity	5,234	1,736	134	84,869	33,957	7,845
Natural gas	2,933	841	64	58,725	22,179	4,721
Fuel oil	467	154	22	20,200	9,186	3,689
District heat	48	40	39	5,964	4,987	4,547
District chilled water	54	53	53	4,608	4,348	4,224
Propane	510	157	6	7,706	2,453	496
Other	172	46	2	3,826	1,416	416
Energy end uses (more than one may apply)						
Buildings with space heating	4,722	1,450	126	80,078	31,299	7,689
Buildings with cooling	4,461	1,350	123	79,294	30,980	7,713
Buildings with water heating	4,423	1,339	124	79,015	31,074	7,628
Buildings with cooking	1,589	452	26	38,546	15,457	3,580
Buildings with manufacturing	259	57	Q	5,078	1,236	Q
Buildings with electricity generation	410	140	29	25,642	11,238	4,459

Table B21. Multibuilding campuses or complexes, number of buildings and floorspace, 2012

	Number of buildings (thousand)			Total floorspace (million square feet)		
	Buildings on campuses or complexes			Buildings on campuses or complexes		
	All buildings	All buildings	With central facilities plant	All buildings	All buildings	With central facilities plant
All buildings	5,557	1,874	137	87,093	34,818	7,888
Heating equipment (more than one may apply)						
Heat pumps	628	240	21	11,846	5,105	975
Furnaces	755	209	7	8,654	3,005	330
Individual space heaters	1,247	375	16	20,766	8,190	1,306
District heat	48	40	39	5,925	4,965	4,535
Boilers	544	187	29	22,443	9,043	2,317
Packaged heating units	2,802	802	47	49,188	17,187	2,055
Other	62	14	Q	1,574	746	Q
Cooling equipment (more than one may apply)						
Residential-type central air conditioners	1,546	389	13	14,765	4,416	440
Heat pumps	692	268	19	12,538	5,545	865
Individual air conditioners	709	218	13	12,420	4,915	1,140
District chilled water	54	53	53	4,608	4,348	4,224
Central chillers	163	67	18	17,041	7,453	2,455
Packaged air conditioning units	1,909	585	37	45,153	16,738	2,634
Swamp coolers	109	30	Q	1,918	730	Q
Other	Q	Q	Q	328	Q	Q
Main equipment replaced since 1990 (more than one may apply)						
Heating	1,874	544	32	27,558	10,069	1,131
Cooling	1,971	569	32	30,702	11,384	1,895

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.

Release date: April 2015

Revised date: May 2016

Table B22. Energy sources, number of buildings, 2012

	Number of buildings (thousand)									
	Energy sources used (more than one may apply)									
	All buildings	Buildings using any energy source	Electricity	Natural gas	Fuel oil	District heat	District chilled water	Propane	Other ¹	
All buildings	5,557	5,239	5,234	2,933	467	48	54	510	172	
Building floorspace (square feet)										
1,001 to 5,000	2,777	2,559	2,556	1,253	204	Q	Q	252	69	
5,001 to 10,000	1,229	1,172	1,171	660	74	Q	Q	134	41	
10,001 to 25,000	884	852	852	548	67	Q	9	74	31	
25,001 to 50,000	332	326	326	227	39	6	Q	24	16	
50,001 to 100,000	199	195	195	142	39	10	10	14	8	
100,001 to 200,000	90	90	90	67	19	9	9	8	4	
200,001 to 500,000	38	37	37	29	18	5	4	3	3	
Over 500,000	8	8	8	6	6	2	1	1	1	
Principal building activity										
Education	389	389	389	234	30	12	25	25	10	
Food sales	177	177	177	82	Q	N	N	Q	Q	
Food service	380	380	380	283	Q	Q	Q	47	Q	
Health care	157	157	157	95	23	2	Q	10	Q	
Inpatient	10	10	10	8	9	1	1	2	Q	
Outpatient	147	147	147	87	15	Q	Q	Q	Q	
Lodging	158	158	158	99	28	4	Q	26	Q	
Mercantile	602	602	599	356	44	Q	N	51	22	
Retail (other than mall)	438	438	435	232	37	Q	N	43	Q	
Enclosed and strip malls	164	164	164	124	7	Q	N	8	Q	
Office	1,012	1,012	1,012	595	86	12	10	35	24	
Public assembly	352	352	352	205	27	7	5	67	17	
Public order and safety	84	84	84	53	34	Q	Q	Q	Q	
Religious worship	412	412	412	229	23	N	Q	66	Q	
Service	619	602	602	339	86	Q	N	69	39	
Warehouse and storage	796	676	675	261	26	Q	N	45	16	
Other	125	123	123	59	28	Q	Q	22	Q	
Vacant	296	116	116	44	Q	Q	Q	Q	Q	
Year constructed										
Before 1920	362	337	337	202	56	5	Q	45	Q	
1920 to 1945	488	459	458	288	44	7	Q	35	22	
1946 to 1959	599	554	554	334	53	5	Q	49	15	
1960 to 1969	639	609	609	401	75	9	11	54	20	
1970 to 1979	684	651	651	406	58	10	9	62	24	
1980 to 1989	915	856	856	431	50	2	3	52	21	
1990 to 1999	845	764	762	407	51	3	10	89	19	
2000 to 2003	375	370	370	182	35	4	5	49	10	
2004 to 2007	347	341	341	144	18	2	6	43	Q	
2008 to 2012	303	297	296	138	27	Q	Q	31	Q	

Table B22. Energy sources, number of buildings, 2012

	Number of buildings (thousand)								
	Energy sources used (more than one may apply)								
	All buildings	Buildings using any energy source	Electricity	Natural gas	Fuel oil	District heat	District chilled water	Propane	Other ¹
All buildings	5,557	5,239	5,234	2,933	467	48	54	510	172
Census region and division									
Northeast	805	773	770	433	217	16	7	106	51
New England	302	287	285	98	115	Q	Q	75	Q
Middle Atlantic	504	486	485	335	102	9	Q	31	22
Midwest	1,237	1,173	1,171	843	77	7	2	133	50
East North Central	735	706	706	577	46	3	2	37	28
West North Central	502	467	466	266	31	4	Q	96	22
South	2,247	2,086	2,086	950	131	18	35	187	34
South Atlantic	1,091	1,020	1,020	387	69	9	22	94	19
East South Central	370	354	354	191	30	Q	Q	49	Q
West South Central	786	712	712	372	32	5	6	43	Q
West	1,267	1,207	1,207	707	43	7	9	84	37
Mountain	338	316	316	218	8	Q	1	29	12
Pacific	929	891	891	489	35	5	8	55	Q
Climate region²									
Very cold/Cold	2,031	1,934	1,929	1,264	271	18	7	227	112
Mixed-humid	1,743	1,637	1,637	932	131	20	18	170	39
Mixed-dry/Hot-dry	837	791	791	428	22	4	7	59	14
Hot-humid	799	740	740	215	36	Q	21	51	Q
Marine	147	138	138	94	7	Q	Q	Q	Q
Number of workers (main shift)									
Fewer than 5	2,892	2,575	2,570	1,225	214	Q	Q	286	84
5 to 9	1,085	1,084	1,084	606	73	Q	Q	98	36
10 to 19	731	731	731	498	45	Q	Q	66	24
20 to 49	513	513	513	348	44	11	9	40	11
50 to 99	206	206	206	154	39	7	9	11	9
100 to 249	93	93	93	74	30	7	6	7	6
250 or more	37	37	37	27	21	7	5	2	2
Weekly operating hours									
Fewer than 40	1,149	942	941	433	58	Q	Q	133	Q
40 to 48	1,346	1,325	1,325	726	125	7	12	93	30
49 to 60	1,244	1,232	1,229	757	102	11	10	112	65
61 to 84	764	744	744	454	49	9	9	59	26
85 to 167	479	466	466	281	30	6	12	40	17
Open continuously	575	529	529	282	102	11	11	73	19

Table B22. Energy sources, number of buildings, 2012

	Number of buildings (thousand)								
	Energy sources used (more than one may apply)								
	All buildings	Buildings using any energy source	Electricity	Natural gas	Fuel oil	District heat	District chilled water	Propane	Other ¹
All buildings	5,557	5,239	5,234	2,933	467	48	54	510	172
Ownership and occupancy									
Nongovernment owned	4,781	4,484	4,480	2,489	365	22	17	435	145
Owner occupied	2,466	2,400	2,395	1,317	223	13	14	297	100
Leased to tenant(s)	1,745	1,675	1,675	951	108	Q	2	107	31
Owner occupied and leased	349	344	344	198	29	2	1	29	13
Unoccupied	221	66	66	23	Q	Q	N	Q	Q
Government owned	776	755	755	444	101	26	37	75	27
Federal	33	33	33	21	Q	1	Q	Q	Q
State	185	183	183	100	15	18	20	13	Q
Local	558	538	538	322	83	7	16	57	16
Energy sources (more than one may apply)									
Electricity	5,234	5,234	5,234	2,933	467	48	54	507	167
Natural gas	2,933	2,933	2,933	2,933	164	17	21	69	72
Fuel oil	467	467	467	164	467	10	8	90	41
District heat	48	48	48	17	10	48	26	Q	1
District chilled water	54	54	54	21	8	26	54	Q	Q
Propane	510	510	507	69	90	Q	Q	510	38
Other	172	172	167	72	41	1	Q	38	172
Energy end uses (more than one may apply)									
Buildings with space heating	4,722	4,722	4,717	2,888	455	48	51	491	172
Buildings with cooling	4,461	4,461	4,461	2,700	360	44	54	420	126
Buildings with water heating	4,423	4,423	4,423	2,742	411	45	51	466	141
Buildings with cooking	1,589	1,589	1,589	1,087	166	14	9	234	60
Buildings with manufacturing	259	259	259	153	25	Q	Q	43	Q
Buildings with electricity generation	410	410	410	270	214	15	12	79	73
Food preparation or serving areas in non-food service buildings (more than one may apply)									
Snack bar or concession stand	153	153	153	96	24	3	2	22	5
Fast food or small restaurant	173	173	173	132	19	2	1	24	5
Cafeteria or large restaurant	130	130	130	104	35	6	3	17	11
Commercial kitchen/food preparation area	282	282	282	221	49	4	3	38	10
Small kitchen area	736	736	736	459	82	3	3	121	31

Table B22. Energy sources, number of buildings, 2012

	Number of buildings (thousand)								
	Energy sources used (more than one may apply)								
	All buildings	Buildings using any energy source	Electricity	Natural gas	Fuel oil	District heat	District chilled water	Propane	Other ¹
All buildings	5,557	5,239	5,234	2,933	467	48	54	510	172

¹Other includes wood, coal, solar, and all other energy sources.

²These 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).

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.

Release date: April 2015

Revised date: May 2016

Table B23. Energy sources, floorspace, 2012

	Total floorspace (million square feet)									
	Energy sources used (more than one may apply)									
	All buildings	Buildings using any energy source	Electricity	Natural gas	Fuel oil	District heat	District chilled water	Propane	Other ¹	
All buildings	87,093	84,893	84,869	58,725	20,200	5,964	4,608	7,706	3,826	
Building floorspace (square feet)										
1,001 to 5,000	8,041	7,501	7,492	3,757	604	Q	Q	762	193	
5,001 to 10,000	8,900	8,505	8,489	4,817	559	Q	Q	959	303	
10,001 to 25,000	14,105	13,565	13,565	8,823	1,123	Q	145	1,124	486	
25,001 to 50,000	11,917	11,672	11,672	8,148	1,490	213	Q	920	520	
50,001 to 100,000	13,918	13,604	13,604	9,935	2,822	704	567	1,042	566	
100,001 to 200,000	12,415	12,362	12,362	9,416	2,858	1,313	1,273	1,061	564	
200,001 to 500,000	10,724	10,652	10,652	8,293	5,370	1,565	1,064	959	809	
Over 500,000	7,074	7,033	7,033	5,535	5,374	2,001	1,306	879	384	
Principal building activity										
Education	12,239	12,239	12,239	9,520	2,185	1,155	1,292	877	806	
Food sales	1,252	1,252	1,252	846	Q	N	N	Q	Q	
Food service	1,819	1,819	1,819	1,394	Q	Q	Q	237	Q	
Health care	4,155	4,155	4,155	3,292	2,776	684	523	315	106	
Inpatient	2,374	2,374	2,374	2,113	2,257	576	477	225	Q	
Outpatient	1,781	1,781	1,781	1,179	520	Q	Q	Q	Q	
Lodging	5,826	5,826	5,826	4,918	2,051	630	Q	883	Q	
Mercantile	11,330	11,330	11,320	8,493	1,119	Q	N	839	482	
Retail (other than mall)	5,439	5,439	5,430	3,371	454	Q	N	575	Q	
Enclosed and strip malls	5,890	5,890	5,890	5,123	665	Q	N	264	Q	
Office	15,952	15,952	15,952	10,290	5,328	1,794	1,096	358	757	
Public assembly	5,559	5,559	5,559	3,888	1,663	888	880	858	288	
Public order and safety	1,440	1,440	1,440	1,007	908	Q	Q	Q	Q	
Religious worship	4,557	4,557	4,557	3,016	391	N	Q	487	Q	
Service	4,630	4,512	4,512	2,790	733	Q	N	555	383	
Warehouse and storage	13,077	12,584	12,568	7,007	1,773	Q	N	1,516	549	
Other	2,002	1,972	1,972	1,378	738	Q	Q	393	Q	
Vacant	3,256	1,699	1,699	886	Q	Q	Q	Q	Q	
Year constructed										
Before 1920	3,983	3,800	3,800	2,320	1,099	540	Q	265	Q	
1920 to 1945	6,025	5,882	5,866	3,792	1,447	888	Q	321	291	
1946 to 1959	7,381	7,208	7,208	5,393	1,530	446	203	525	415	
1960 to 1969	10,362	10,198	10,198	7,553	2,407	1,002	923	921	490	
1970 to 1979	10,846	10,556	10,556	7,979	2,614	930	811	880	499	
1980 to 1989	15,230	14,791	14,791	9,887	3,806	449	310	1,214	591	
1990 to 1999	13,803	13,123	13,118	9,162	3,201	642	664	1,339	572	
2000 to 2003	7,215	7,193	7,193	4,723	1,467	Q	Q	903	349	
2004 to 2007	6,524	6,485	6,485	4,096	1,497	Q	418	780	Q	
2008 to 2012	5,723	5,658	5,653	3,821	1,133	Q	Q	559	Q	

Table B23. Energy sources, floorspace, 2012

	Total floorspace (million square feet)									
	Energy sources used (more than one may apply)									
	All buildings	Buildings using any energy source	Electricity	Natural gas	Fuel oil	District heat	District chilled water	Propane	Other ¹	
All buildings	87,093	84,893	84,869	58,725	20,200	5,964	4,608	7,706	3,826	
Census region and division										
Northeast	15,534	15,300	15,291	11,068	6,079	1,981	794	1,746	1,087	
New England	4,302	4,197	4,192	2,241	1,866	Q	Q	861	397	
Middle Atlantic	11,232	11,104	11,099	8,827	4,213	1,628	656	885	691	
Midwest	18,919	18,575	18,560	15,025	3,935	906	585	1,909	798	
East North Central	12,742	12,544	12,544	10,790	2,619	574	420	829	532	
West North Central	6,178	6,032	6,016	4,236	1,316	332	Q	1,080	267	
South	34,279	33,026	33,026	19,900	7,051	2,191	2,479	2,567	907	
South Atlantic	17,981	17,608	17,608	9,984	4,419	1,159	1,202	1,476	554	
East South Central	4,904	4,824	4,824	3,436	797	Q	Q	470	Q	
West South Central	11,394	10,594	10,594	6,480	1,835	646	773	621	Q	
West	18,360	17,992	17,992	12,732	3,135	886	749	1,484	1,034	
Mountain	4,981	4,812	4,812	3,766	1,092	482	Q	503	403	
Pacific	13,379	13,180	13,180	8,966	2,043	404	329	982	631	
Climate region²										
Very cold/Cold	31,898	31,311	31,286	24,511	8,008	1,926	1,227	3,594	2,011	
Mixed-humid	27,873	27,422	27,422	19,361	7,287	3,012	2,027	2,183	1,017	
Mixed-dry/Hot-dry	12,037	11,743	11,743	7,520	1,605	Q	Q	842	496	
Hot-humid	12,831	12,002	12,002	5,300	2,597	374	752	998	Q	
Marine	2,454	2,416	2,416	2,033	703	Q	Q	Q	Q	
Number of workers (main shift)										
Fewer than 5	17,751	15,555	15,530	7,858	1,489	Q	Q	1,689	543	
5 to 9	8,973	8,970	8,970	5,355	717	Q	Q	902	359	
10 to 19	9,623	9,623	9,623	6,799	765	Q	Q	932	365	
20 to 49	14,514	14,514	14,514	10,613	1,824	623	505	1,246	416	
50 to 99	13,476	13,476	13,476	10,320	3,137	669	683	1,052	656	
100 to 249	10,941	10,941	10,941	8,880	4,040	1,096	982	958	870	
250 or more	11,815	11,815	11,815	8,900	8,229	3,082	1,986	927	618	
Weekly operating hours										
Fewer than 40	8,220	6,553	6,548	3,705	538	Q	Q	691	Q	
40 to 48	15,828	15,737	15,737	9,960	2,668	403	521	936	338	
49 to 60	20,529	20,445	20,425	14,006	3,910	1,099	805	1,680	1,300	
61 to 84	15,867	15,800	15,800	11,494	3,104	844	524	1,261	880	
85 to 167	9,395	9,364	9,364	6,734	1,868	631	606	1,296	552	
Open continuously	17,253	16,994	16,994	12,827	8,113	2,815	2,005	1,842	661	

Table B23. Energy sources, floorspace, 2012

	Total floorspace (million square feet)									
	Energy sources used (more than one may apply)									
	All buildings	Buildings using any energy source	Electricity	Natural gas	Fuel oil	District heat	District chilled water	Propane	Other ¹	
All buildings	87,093	84,893	84,869	58,725	20,200	5,964	4,608	7,706	3,826	
Ownership and occupancy										
Nongovernment owned	67,550	65,645	65,620	44,481	14,057	3,135	2,104	5,896	2,663	
Owner occupied	30,637	30,345	30,321	20,542	6,308	1,842	1,478	3,569	1,431	
Leased to tenant(s)	26,115	25,809	25,809	17,361	4,749	730	297	1,567	789	
Owner occupied and leased	8,873	8,820	8,820	6,254	2,928	557	329	743	427	
Unoccupied	1,925	670	670	325	Q	Q	N	Q	Q	
Government owned	19,543	19,248	19,248	14,244	6,143	2,829	2,504	1,810	1,163	
Federal	1,573	1,573	1,573	868	1,083	708	Q	Q	Q	
State	5,539	5,522	5,522	3,939	1,400	1,538	1,448	394	Q	
Local	12,431	12,153	12,153	9,438	3,660	584	612	1,332	616	
Energy sources (more than one may apply)										
Electricity	84,869	84,869	84,869	58,725	20,200	5,964	4,608	7,686	3,801	
Natural gas	58,725	58,725	58,725	58,725	13,663	2,860	2,431	3,396	2,637	
Fuel oil	20,200	20,200	20,200	13,663	20,200	3,110	2,134	3,080	1,133	
District heat	5,964	5,964	5,964	2,860	3,110	5,964	3,730	Q	335	
District chilled water	4,608	4,608	4,608	2,431	2,134	3,730	4,608	Q	Q	
Propane	7,706	7,706	7,686	3,396	3,080	Q	Q	7,706	488	
Other	3,826	3,826	3,801	2,637	1,133	335	Q	488	3,826	
Energy end uses (more than one may apply)										
Buildings with space heating	80,078	80,078	80,053	58,129	19,670	5,962	4,561	7,332	3,826	
Buildings with cooling	79,294	79,294	79,294	56,899	19,309	5,903	4,608	7,061	3,573	
Buildings with water heating	79,015	79,015	79,015	57,019	19,708	5,822	4,511	7,383	3,679	
Buildings with cooking	38,546	38,546	38,546	31,026	12,694	3,154	2,084	4,209	2,076	
Buildings with manufacturing	5,078	5,078	5,078	3,740	863	Q	Q	809	Q	
Buildings with electricity generation	25,642	25,642	25,642	20,271	17,073	3,749	2,731	3,380	2,881	
Food preparation or serving areas in non-food service buildings (more than one may apply)										
Snack bar or concession stand	9,884	9,884	9,884	7,867	4,868	1,613	996	1,625	552	
Fast food or small restaurant	9,787	9,787	9,787	8,345	3,624	1,195	828	1,039	418	
Cafeteria or large restaurant	15,222	15,222	15,222	13,043	7,093	1,828	1,309	1,633	1,045	
Commercial kitchen/food preparation area	16,150	16,150	16,150	14,082	6,678	1,562	1,119	1,852	788	
Small kitchen area	14,054	14,054	14,054	10,883	4,666	1,138	761	2,062	844	

Table B23. Energy sources, floorspace, 2012

	Total floorspace (million square feet)									
	Energy sources used (more than one may apply)									
	All buildings	Buildings using any energy source	Electricity	Natural gas	Fuel oil	District heat	District chilled water	Propane	Other ¹	
All buildings	87,093	84,893	84,869	58,725	20,200	5,964	4,608	7,706	3,826	

¹Other includes wood, coal, solar, and all other energy sources.

²These 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).

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.

Release date: April 2015

Revised date: May 2016

Table B24. Energy end uses, number of buildings, 2012

	Number of buildings (thousand)						
	Energy used for (more than one may apply)						
	All buildings	Space heating	Cooling	Water heating	Cooking	Manufacturing	Electricity generation
All buildings	5,557	4,722	4,461	4,423	1,589	259	410
Building floorspace (square feet)							
1,001 to 5,000	2,777	2,257	2,062	2,032	673	86	92
5,001 to 10,000	1,229	1,046	1,004	992	376	75	77
10,001 to 25,000	884	797	774	775	257	51	64
25,001 to 50,000	332	304	302	307	108	28	55
50,001 to 100,000	199	187	187	186	96	11	58
100,001 to 200,000	90	86	88	86	48	5	35
200,001 to 500,000	38	36	37	36	25	2	22
Over 500,000	8	8	8	8	6	Q	6
Principal building activity							
Education	389	379	361	332	169	Q	38
Food sales	177	160	165	177	111	Q	16
Food service	380	359	358	379	353	Q	Q
Health care	157	153	154	156	22	Q	28
Inpatient	10	9	10	10	9	Q	9
Outpatient	147	144	145	146	13	Q	19
Lodging	158	153	145	158	94	Q	34
Mercantile	602	572	560	531	157	28	31
Retail (other than mall)	438	412	396	367	52	Q	20
Enclosed and strip malls	164	160	164	164	105	Q	10
Office	1,012	989	995	943	130	31	94
Public assembly	352	330	295	317	143	Q	21
Public order and safety	84	81	74	80	56	N	59
Religious worship	412	408	375	383	261	Q	Q
Service	619	528	435	442	39	46	19
Warehouse and storage	796	420	391	370	33	77	29
Other	125	100	90	98	Q	41	17
Vacant	296	87	63	56	Q	Q	Q
Year constructed							
Before 1920	362	322	275	286	130	15	14
1920 to 1945	488	413	367	383	138	Q	22
1946 to 1959	599	517	477	460	189	21	24
1960 to 1969	639	559	538	540	188	25	57
1970 to 1979	684	599	563	577	195	32	60
1980 to 1989	915	754	730	727	221	51	59
1990 to 1999	845	675	663	631	232	31	63
2000 to 2003	375	322	321	312	102	29	35
2004 to 2007	347	291	293	275	108	19	34
2008 to 2012	303	270	235	231	84	Q	42

Table B24. Energy end uses, number of buildings, 2012

	Number of buildings (thousand)						
	Energy used for (more than one may apply)						
	All buildings	Space heating	Cooling	Water heating	Cooking	Manufacturing	Electricity generation
All buildings	5,557	4,722	4,461	4,423	1,589	259	410
Census region and division							
Northeast	805	727	592	671	249	44	107
New England	302	264	187	235	104	20	39
Middle Atlantic	504	463	405	436	145	25	68
Midwest	1,237	1,096	970	1,014	370	55	84
East North Central	735	670	601	629	233	29	53
West North Central	502	426	370	385	137	26	31
South	2,247	1,842	1,891	1,740	664	83	141
South Atlantic	1,091	873	935	856	307	31	71
East South Central	370	336	335	325	144	Q	29
West South Central	786	633	621	560	213	41	40
West	1,267	1,057	1,007	997	306	77	78
Mountain	338	293	259	260	84	Q	19
Pacific	929	764	748	737	222	63	59
Climate region¹							
Very cold/Cold	2,031	1,792	1,497	1,639	574	110	186
Mixed-humid	1,743	1,545	1,482	1,445	558	57	115
Mixed-dry/Hot-dry	837	676	682	635	188	Q	47
Hot-humid	799	593	699	590	230	32	51
Marine	147	116	101	113	39	Q	10
Number of workers (main shift)							
Fewer than 5	2,892	2,184	1,932	1,917	660	92	89
5 to 9	1,085	1,020	999	977	308	61	67
10 to 19	731	692	699	700	271	42	65
20 to 49	513	494	498	495	197	44	63
50 to 99	206	203	203	203	92	13	58
100 to 249	93	92	93	93	40	5	45
250 or more	37	37	37	37	21	2	23
Weekly operating hours							
Fewer than 40	1,149	815	690	703	329	Q	28
40 to 48	1,346	1,230	1,168	1,107	228	93	83
49 to 60	1,244	1,143	1,084	1,063	251	95	87
61 to 84	764	672	669	676	290	32	42
85 to 167	479	414	419	428	249	14	43
Open continuously	575	448	431	447	242	10	126

Table B24. Energy end uses, number of buildings, 2012

	Number of buildings (thousand)						
	Energy used for (more than one may apply)						
	All buildings	Space heating	Cooling	Water heating	Cooking	Manufacturing	Electricity generation
All buildings	5,557	4,722	4,461	4,423	1,589	259	410
Ownership and occupancy							
Nongovernment owned	4,781	4,028	3,817	3,791	1,359	248	266
Owner occupied	2,466	2,198	2,046	2,048	854	130	160
Leased to tenant(s)	1,745	1,458	1,421	1,401	416	100	75
Owner occupied and leased	349	325	324	316	82	18	30
Unoccupied	221	47	26	26	Q	N	Q
Government owned	776	694	644	632	230	10	144
Federal	33	33	33	33	8	Q	6
State	185	168	159	146	40	Q	27
Local	558	493	452	452	182	Q	111
Energy sources (more than one may apply)							
Electricity	5,234	4,717	4,461	4,423	1,589	259	410
Natural gas	2,933	2,888	2,700	2,742	1,087	153	270
Fuel oil	467	455	360	411	166	25	214
District heat	48	48	44	45	14	Q	15
District chilled water	54	51	54	51	9	Q	12
Propane	510	491	420	466	234	43	79
Other	172	172	126	141	60	Q	73
Energy end uses (more than one may apply)							
Buildings with space heating	4,722	4,722	4,272	4,237	1,525	234	400
Buildings with cooling	4,461	4,272	4,461	4,097	1,497	217	386
Buildings with water heating	4,423	4,237	4,097	4,423	1,573	228	395
Buildings with cooking	1,589	1,525	1,497	1,573	1,589	64	202
Buildings with manufacturing	259	234	217	228	64	259	18
Buildings with electricity generation	410	400	386	395	202	18	410
Food preparation or serving areas in non-food service buildings (more than one may apply)							
Snack bar or concession stand	153	142	147	150	153	Q	32
Fast food or small restaurant	173	165	172	173	173	Q	32
Cafeteria or large restaurant	130	128	124	130	130	Q	47
Commercial kitchen/ food preparation area	282	276	275	282	282	14	74
Small kitchen area	736	715	679	723	736	30	86
Separate computer areas (more than one may apply)							
Data center or server farm	97	93	96	94	35	6	52
Computer-based training room	244	233	242	241	109	9	64
Student or public computer center	238	236	230	230	138	Q	46

Table B24. Energy end uses, number of buildings, 2012

	Number of buildings (thousand)						
	Energy used for (more than one may apply)						Electricity generation
All buildings	All buildings	Space heating	Cooling	Water heating	Cooking	Manufacturing	
All buildings	5,557	4,722	4,461	4,423	1,589	259	410

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).

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.

Release date: April 2015
 Revised date: May 2016

Table B25. Energy end uses, floorspace, 2012

	Total floorspace (million square feet)						
	Energy used for (more than one may apply)						
	All buildings	Space heating	Cooling	Water heating	Cooking	Manufacturing	Electricity generation
All buildings	87,093	80,078	79,294	79,015	38,546	5,078	25,642
Building floorspace (square feet)							
1,001 to 5,000	8,041	6,699	6,124	6,102	2,073	284	321
5,001 to 10,000	8,900	7,590	7,304	7,236	2,733	542	596
10,001 to 25,000	14,105	12,744	12,357	12,401	4,134	855	1,008
25,001 to 50,000	11,917	10,911	10,813	11,007	3,858	1,022	2,032
50,001 to 100,000	13,918	13,114	13,069	13,063	6,870	761	4,139
100,001 to 200,000	12,415	11,941	12,152	11,903	6,587	691	5,050
200,001 to 500,000	10,724	10,348	10,518	10,351	6,969	665	6,665
Over 500,000	7,074	6,730	6,958	6,951	5,322	Q	5,830
Principal building activity							
Education	12,239	12,099	11,811	11,905	8,479	Q	4,126
Food sales	1,252	1,196	1,190	1,252	943	Q	394
Food service	1,819	1,762	1,712	1,817	1,738	Q	Q
Health care	4,155	4,109	4,148	4,153	2,649	Q	2,954
Inpatient	2,374	2,354	2,374	2,374	2,230	Q	2,266
Outpatient	1,781	1,754	1,774	1,779	419	Q	688
Lodging	5,826	5,696	5,700	5,821	4,293	Q	2,781
Mercantile	11,330	10,794	11,121	10,960	6,396	529	2,281
Retail (other than mall)	5,439	5,088	5,230	5,070	1,773	Q	877
Enclosed and strip malls	5,890	5,706	5,890	5,890	4,623	Q	1,404
Office	15,952	15,753	15,882	15,663	5,230	684	6,027
Public assembly	5,559	5,323	5,235	5,318	2,751	Q	1,878
Public order and safety	1,440	1,391	1,384	1,341	912	N	1,185
Religious worship	4,557	4,511	4,271	4,337	3,394	Q	Q
Service	4,630	4,157	3,773	3,763	517	465	422
Warehouse and storage	13,077	9,987	10,120	10,041	922	1,996	2,326
Other	2,002	1,886	1,820	1,614	Q	951	688
Vacant	3,256	1,415	1,125	1,031	Q	Q	Q
Year constructed							
Before 1920	3,983	3,583	3,087	3,403	1,493	403	554
1920 to 1945	6,025	5,527	5,215	5,299	2,711	Q	1,252
1946 to 1959	7,381	6,895	6,679	6,410	3,409	575	1,523
1960 to 1969	10,362	9,730	9,634	9,699	4,644	497	3,083
1970 to 1979	10,846	10,045	10,031	10,158	4,837	828	3,145
1980 to 1989	15,230	13,723	14,011	13,831	6,545	969	4,690
1990 to 1999	13,803	12,389	12,402	12,209	6,517	396	4,184
2000 to 2003	7,215	6,707	6,939	6,889	2,874	470	2,705
2004 to 2007	6,524	5,972	6,071	5,955	3,140	386	2,236
2008 to 2012	5,723	5,505	5,225	5,162	2,375	Q	2,269

Table B25. Energy end uses, floorspace, 2012

	Total floorspace (million square feet)						
	Energy used for (more than one may apply)						
	All buildings	Space heating	Cooling	Water heating	Cooking	Manufacturing	Electricity generation
All buildings	87,093	80,078	79,294	79,015	38,546	5,078	25,642
Census region and division							
Northeast	15,534	15,053	13,949	14,633	8,177	1,059	6,223
New England	4,302	4,090	3,482	3,915	2,053	391	1,456
Middle Atlantic	11,232	10,963	10,467	10,718	6,124	669	4,767
Midwest	18,919	18,055	17,144	17,592	8,726	1,172	5,358
East North Central	12,742	12,240	11,675	12,082	6,175	807	3,912
West North Central	6,178	5,815	5,469	5,510	2,551	365	1,445
South	34,279	30,499	31,734	30,261	14,381	1,708	9,377
South Atlantic	17,981	15,883	17,094	16,144	7,925	821	5,901
East South Central	4,904	4,692	4,710	4,598	2,255	Q	1,075
West South Central	11,394	9,923	9,931	9,519	4,201	705	2,401
West	18,360	16,471	16,467	16,529	7,262	1,139	4,683
Mountain	4,981	4,704	4,489	4,440	2,420	Q	1,635
Pacific	13,379	11,767	11,978	12,089	4,842	999	3,049
Climate region¹							
Very cold/Cold	31,898	30,469	28,228	29,567	14,975	2,133	10,597
Mixed-humid	27,873	26,716	26,365	25,772	13,469	1,273	8,525
Mixed-dry/Hot-dry	12,037	10,484	10,887	10,585	4,029	786	2,471
Hot-humid	12,831	10,090	11,624	10,837	5,098	684	3,168
Marine	2,454	2,319	2,190	2,255	975	Q	880
Number of workers (main shift)							
Fewer than 5	17,751	12,931	11,595	11,783	4,138	556	1,002
5 to 9	8,973	8,492	8,238	8,205	2,501	519	857
10 to 19	9,623	8,970	9,190	9,137	3,203	787	1,058
20 to 49	14,514	14,126	14,219	14,097	6,481	1,231	2,923
50 to 99	13,476	13,184	13,323	13,171	7,501	965	4,761
100 to 249	10,941	10,805	10,913	10,912	6,181	508	6,177
250 or more	11,815	11,570	11,815	11,711	8,540	512	8,863
Weekly operating hours							
Fewer than 40	8,220	5,763	5,083	5,137	2,921	Q	399
40 to 48	15,828	14,867	14,512	14,388	4,974	1,449	2,971
49 to 60	20,529	19,365	19,297	18,878	6,900	1,867	5,055
61 to 84	15,867	15,148	15,170	15,304	8,122	939	4,185
85 to 167	9,395	8,711	8,864	8,937	4,615	421	3,329
Open continuously	17,253	16,224	16,368	16,371	11,014	351	9,703

Table B25. Energy end uses, floorspace, 2012

	Total floorspace (million square feet)						
	Energy used for (more than one may apply)						
	All buildings	Space heating	Cooling	Water heating	Cooking	Manufacturing	Electricity generation
All buildings	87,093	80,078	79,294	79,015	38,546	5,078	25,642
Ownership and occupancy							
Nongovernment owned	67,550	61,341	60,960	60,645	26,909	4,745	17,555
Owner occupied	30,637	28,745	28,174	27,869	13,400	2,024	8,079
Leased to tenant(s)	26,115	23,766	23,907	23,900	9,378	2,107	5,917
Owner occupied and leased	8,873	8,328	8,602	8,544	4,115	614	3,502
Unoccupied	1,925	502	278	332	Q	N	Q
Government owned	19,543	18,736	18,334	18,370	11,637	333	8,086
Federal	1,573	1,557	1,573	1,565	933	Q	1,122
State	5,539	5,411	5,252	5,270	2,538	Q	1,829
Local	12,431	11,768	11,508	11,535	8,166	Q	5,136
Energy sources							
(more than one may apply)							
Electricity	84,869	80,053	79,294	79,015	38,546	5,078	25,642
Natural gas	58,725	58,129	56,899	57,019	31,026	3,740	20,271
Fuel oil	20,200	19,670	19,309	19,708	12,694	863	17,073
District heat	5,964	5,962	5,903	5,822	3,154	Q	3,749
District chilled water	4,608	4,561	4,608	4,511	2,084	Q	2,731
Propane	7,706	7,332	7,061	7,383	4,209	809	3,380
Other	3,826	3,826	3,573	3,679	2,076	Q	2,881
Energy end uses							
(more than one may apply)							
Buildings with space heating	80,078	80,078	76,834	76,584	37,771	4,790	25,155
Buildings with cooling	79,294	76,834	79,294	76,414	37,687	4,682	25,350
Buildings with water heating	79,015	76,584	76,414	79,015	38,389	4,570	25,280
Buildings with cooking	38,546	37,771	37,687	38,389	38,546	1,300	16,803
Buildings with manufacturing	5,078	4,790	4,682	4,570	1,300	5,078	889
Buildings with electricity generation	25,642	25,155	25,350	25,280	16,803	889	25,642
Food preparation or serving areas in non-food service buildings							
(more than one may apply)							
Snack bar or concession stand	9,884	9,564	9,819	9,864	9,884	Q	6,316
Fast food or small restaurant	9,787	9,479	9,771	9,778	9,787	Q	4,977
Cafeteria or large restaurant	15,222	15,000	15,046	15,219	15,222	Q	9,066
Commercial kitchen/food preparation area	16,150	15,857	15,968	16,150	16,150	504	9,181
Small kitchen area	14,054	13,624	13,601	13,926	14,054	660	5,837
Separate computer areas							
(more than one may apply)							
Data center or server farm	11,105	10,939	11,093	11,013	6,849	462	8,337
Computer-based training room	17,723	17,336	17,589	17,659	12,340	556	9,480
Student or public computer center	14,341	14,205	14,090	14,268	10,945	Q	6,480

Table B25. Energy end uses, floorspace, 2012

	Total floorspace (million square feet)						Electricity generation
	All buildings	Space heating	Cooling	Water heating	Cooking	Manufacturing	
All buildings	87,093	80,078	79,294	79,015	38,546	5,078	25,642

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).

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.

Release date: April 2015

Revised date: May 2016

Table B26. Space-heating energy sources, number of buildings, 2012

	Number of buildings (thousand)								
	Space-heating energy sources used (more than one may apply)								
	All buildings	Buildings with space heating	Electricity	Natural gas	Fuel oil	District heat	Propane	Other ¹	
All buildings	5,557	4,722	2,858	2,612	270	48	342	101	
Building floorspace (square feet)									
1,001 to 5,000	2,777	2,257	1,379	1,115	148	Q	180	48	
5,001 to 10,000	1,229	1,046	606	595	49	Q	96	29	
10,001 to 25,000	884	797	482	494	42	Q	51	Q	
25,001 to 50,000	332	304	189	203	15	6	9	Q	
50,001 to 100,000	199	187	123	121	9	10	Q	Q	
100,001 to 200,000	90	86	54	54	4	9	Q	Q	
200,001 to 500,000	38	36	21	25	2	5	Q	Q	
Over 500,000	8	8	4	4	(*)	2	Q	Q	
Principal building activity									
Education	389	379	214	203	21	12	16	Q	
Food sales	177	160	123	63	Q	N	Q	Q	
Food service	380	359	202	207	Q	Q	25	Q	
Health care	157	153	92	85	6	2	Q	Q	
Inpatient	10	9	4	5	2	1	Q	Q	
Outpatient	147	144	87	80	Q	Q	Q	Q	
Lodging	158	153	116	64	Q	4	Q	Q	
Mercantile	602	572	387	324	35	Q	35	Q	
Retail (other than mall)	438	412	250	216	32	Q	33	Q	
Enclosed and strip malls	164	160	137	107	Q	Q	Q	Q	
Office	1,012	989	653	554	42	12	27	Q	
Public assembly	352	330	162	187	Q	7	46	Q	
Public order and safety	84	81	44	47	Q	Q	Q	Q	
Religious worship	412	408	231	217	Q	N	63	Q	
Service	619	528	270	329	70	Q	54	39	
Warehouse and storage	796	420	264	235	Q	Q	26	Q	
Other	125	100	53	56	Q	Q	Q	Q	
Vacant	296	87	47	40	Q	Q	Q	Q	
Year constructed									
Before 1920	362	322	167	189	45	5	35	Q	
1920 to 1945	488	413	190	263	33	7	Q	Q	
1946 to 1959	599	517	320	310	39	5	32	Q	
1960 to 1969	639	559	308	357	52	9	27	Q	
1970 to 1979	684	599	370	353	21	10	48	Q	
1980 to 1989	915	754	513	383	19	2	36	Q	
1990 to 1999	845	675	398	352	23	3	59	Q	
2000 to 2003	375	322	202	153	21	4	33	Q	
2004 to 2007	347	291	210	126	Q	2	25	Q	
2008 to 2012	303	270	182	126	Q	Q	Q	Q	

Table B26. Space-heating energy sources, number of buildings, 2012

	Number of buildings (thousand)								
	Space-heating energy sources used (more than one may apply)								
	All buildings	Buildings with space heating	Elec-tricity	Natural gas	Fuel oil	District heat	Propane	Other ¹	
All buildings	5,557	4,722	2,858	2,612	270	48	342	101	
Census region and division									
Northeast	805	727	310	392	170	16	59	Q	
New England	302	264	99	82	105	Q	38	Q	
Middle Atlantic	504	463	211	310	65	9	21	Q	
Midwest	1,237	1,096	493	819	39	7	105	32	
East North Central	735	670	282	559	20	3	29	Q	
West North Central	502	426	211	260	19	4	76	Q	
South	2,247	1,842	1,380	782	53	18	124	Q	
South Atlantic	1,091	873	704	299	29	9	58	Q	
East South Central	370	336	239	168	Q	Q	35	Q	
West South Central	786	633	437	316	Q	5	Q	Q	
West	1,267	1,057	676	618	Q	7	54	Q	
Mountain	338	293	165	202	Q	Q	24	Q	
Pacific	929	764	511	416	Q	5	Q	Q	
Climate region²									
Very cold/Cold	2,031	1,792	814	1,198	192	18	156	75	
Mixed-humid	1,743	1,545	1,009	826	70	20	135	Q	
Mixed-dry/Hot-dry	837	676	445	361	Q	4	39	Q	
Hot-humid	799	593	521	142	Q	Q	Q	N	
Marine	147	116	69	84	Q	Q	Q	Q	
Number of workers (main shift)									
Fewer than 5	2,892	2,184	1,217	1,126	171	Q	218	63	
5 to 9	1,085	1,020	658	527	43	Q	55	Q	
10 to 19	731	692	425	434	22	Q	40	Q	
20 to 49	513	494	341	306	16	11	23	Q	
50 to 99	206	203	141	134	11	7	Q	Q	
100 to 249	93	92	54	64	5	7	Q	Q	
250 or more	37	37	22	21	2	6	Q	Q	
Weekly operating hours									
Fewer than 40	1,149	815	448	416	45	Q	113	Q	
40 to 48	1,346	1,230	751	674	87	7	72	Q	
49 to 60	1,244	1,143	694	687	65	11	72	45	
61 to 84	764	672	421	387	30	9	26	Q	
85 to 167	479	414	258	232	Q	6	19	Q	
Open continuously	575	448	287	217	28	11	39	Q	

Table B26. Space-heating energy sources, number of buildings, 2012

	Number of buildings (thousand)								
	Space-heating energy sources used (more than one may apply)								
	All buildings	Buildings with space heating	Electricity	Natural gas	Fuel oil	District heat	Propane	Other ¹	
All buildings	5,557	4,722	2,858	2,612	270	48	342	101	
Ownership and occupancy									
Nongovernment owned	4,781	4,028	2,464	2,203	234	22	290	96	
Owner occupied	2,466	2,198	1,264	1,162	145	13	202	72	
Leased to tenant(s)	1,745	1,458	958	838	69	Q	67	Q	
Owner occupied and leased	349	325	221	181	15	2	19	Q	
Unoccupied	221	47	22	22	Q	Q	Q	N	
Government owned	776	694	394	409	36	26	52	Q	
Federal	33	33	19	18	Q	1	Q	Q	
State	185	168	100	91	Q	18	Q	Q	
Local	558	493	275	300	32	7	38	Q	
Energy sources (more than one may apply)									
Electricity	5,234	4,717	2,858	2,612	270	48	340	96	
Natural gas	2,933	2,888	1,371	2,612	40	17	24	34	
Fuel oil	467	455	211	133	270	10	45	25	
District heat	48	48	12	2	Q	48	Q	Q	
District chilled water	54	51	27	10	Q	26	Q	Q	
Propane	510	491	268	59	60	Q	342	Q	
Other	172	172	72	66	30	1	Q	101	
Primary space-heating energy source									
Electricity	1,819	1,819	1,819	262	24	Q	49	Q	
Natural gas	2,322	2,322	846	2,322	17	Q	11	Q	
Fuel oil	205	205	57	Q	205	Q	Q	Q	
District heat	47	47	12	2	Q	47	N	Q	
Propane	261	261	110	Q	Q	N	261	Q	
Other	67	67	Q	Q	Q	N	Q	67	
Cooling energy sources (more than one may apply)									
Electricity	4,413	4,226	2,677	2,390	177	23	275	62	
Natural gas	12	12	5	12	Q	Q	N	N	
District chilled water	54	51	27	10	Q	26	Q	Q	
Water-heating energy sources (more than one may apply)									
Electricity	2,658	2,512	1,819	1,051	144	16	193	37	
Natural gas	1,758	1,722	816	1,540	18	9	11	18	
Fuel oil	77	76	23	6	67	Q	Q	Q	
District heat	25	25	6	Q	Q	25	N	Q	
Propane	142	133	77	Q	Q	Q	110	Q	
Cooking energy sources (more than one may apply)									
Electricity	1,010	969	633	513	44	10	91	17	
Natural gas	740	717	412	579	18	8	Q	Q	
Propane	144	132	75	Q	20	Q	67	Q	

Table B26. Space-heating energy sources, number of buildings, 2012

	Number of buildings (thousand)							
	Space-heating energy sources used (more than one may apply)							
	All buildings	Buildings with space heating	Electricity	Natural gas	Fuel oil	District heat	Propane	Other ¹
All buildings	5,557	4,722	2,858	2,612	270	48	342	101
Energy end uses (more than one may apply)								
Buildings with space heating	4,722	4,722	2,858	2,612	270	48	342	101
Buildings with cooling	4,461	4,272	2,699	2,402	177	44	275	62
Buildings with water heating	4,423	4,237	2,569	2,424	222	45	307	71
Buildings with cooking	1,589	1,525	938	890	73	14	137	25
Buildings with manufacturing	259	234	145	141	Q	Q	Q	Q
Buildings with electricity generation	410	400	239	225	36	15	37	Q
Percent of floorspace heated								
Not heated	835	N	N	N	N	N	N	N
1 to 50	697	697	484	285	47	Q	59	Q
51 to 99	727	727	463	420	36	7	55	Q
100	3,298	3,298	1,911	1,907	187	40	228	66
Heating equipment (more than one may apply)								
Heat pumps	628	628	611	188	18	3	26	Q
Furnaces	755	755	366	530	20	Q	72	Q
Individual space heaters	1,247	1,247	868	722	118	9	146	72
District heat	48	48	12	2	Q	48	Q	Q
Boilers	544	544	225	390	85	Q	31	Q
Packaged heating units	2,802	2,802	1,785	1,717	116	3	181	30
Other	62	62	46	34	Q	Q	Q	Q

¹Other includes wood, coal, solar, and all other energy sources. The most commonly used other energy source was waste oil.

²These 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).

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.

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

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.

Release date: April 2015

Revised date: May 2016

Table B27. Space-heating energy sources, floorspace, 2012

	Total floorspace (million square feet)							
	Space-heating energy sources used (more than one may apply)							
	All buildings	Buildings with space heating	Electricity	Natural gas	Fuel oil	District heat	Propane	Other ¹
All buildings	87,093	80,078	49,030	49,511	4,351	5,925	3,067	1,010
Building floorspace (square feet)								
1,001 to 5,000	8,041	6,699	4,185	3,323	412	Q	538	129
5,001 to 10,000	8,900	7,590	4,384	4,343	366	Q	682	213
10,001 to 25,000	14,105	12,744	7,716	7,989	725	Q	767	Q
25,001 to 50,000	11,917	10,911	6,897	7,228	576	213	329	Q
50,001 to 100,000	13,918	13,114	8,668	8,524	698	704	Q	Q
100,001 to 200,000	12,415	11,941	7,321	7,507	548	1,313	Q	Q
200,001 to 500,000	10,724	10,348	5,991	6,990	632	1,553	Q	Q
Over 500,000	7,074	6,730	3,869	3,608	394	1,974	Q	Q
Principal building activity								
Education	12,239	12,099	6,254	7,967	1,074	1,155	307	Q
Food sales	1,252	1,196	883	667	Q	N	Q	Q
Food service	1,819	1,762	1,017	1,023	Q	Q	124	Q
Health care	4,155	4,109	2,083	2,616	502	671	Q	Q
Inpatient	2,374	2,354	1,008	1,627	430	563	Q	Q
Outpatient	1,781	1,754	1,076	989	Q	Q	Q	Q
Lodging	5,826	5,696	3,878	3,153	Q	621	Q	Q
Mercantile	11,330	10,794	8,132	7,435	306	Q	386	Q
Retail (other than mall)	5,439	5,088	3,041	3,050	256	Q	306	Q
Enclosed and strip malls	5,890	5,706	5,091	4,385	Q	Q	Q	Q
Office	15,952	15,753	10,281	8,555	560	1,794	209	Q
Public assembly	5,559	5,323	2,645	3,337	Q	888	306	Q
Public order and safety	1,440	1,391	643	851	Q	Q	Q	Q
Religious worship	4,557	4,511	2,656	2,671	Q	N	366	Q
Service	4,630	4,157	2,193	2,758	393	Q	432	370
Warehouse and storage	13,077	9,987	6,476	6,499	Q	Q	293	Q
Other	2,002	1,886	1,185	1,218	Q	Q	Q	Q
Vacant	3,256	1,415	702	760	Q	Q	Q	Q
Year constructed								
Before 1920	3,983	3,583	1,867	1,970	622	523	164	Q
1920 to 1945	6,025	5,527	2,744	3,202	551	888	Q	Q
1946 to 1959	7,381	6,895	3,836	4,908	616	446	203	Q
1960 to 1969	10,362	9,730	5,387	6,574	695	1,002	388	Q
1970 to 1979	10,846	10,045	5,931	6,549	590	930	425	Q
1980 to 1989	15,230	13,723	9,378	7,995	421	446	330	Q
1990 to 1999	13,803	12,389	7,947	7,613	370	642	539	Q
2000 to 2003	7,215	6,707	4,181	3,758	203	Q	347	Q
2004 to 2007	6,524	5,972	4,077	3,454	Q	Q	306	Q
2008 to 2012	5,723	5,505	3,683	3,488	Q	Q	Q	Q

Table B27. Space-heating energy sources, floorspace, 2012

	Total floorspace (million square feet)								
	Space-heating energy sources used (more than one may apply)								
	All buildings	Buildings with space heating	Elec-tricity	Natural gas	Fuel oil	District heat	Propane	Other ¹	
All buildings	87,093	80,078	49,030	49,511	4,351	5,925	3,067	1,010	
Census region and division									
Northeast	15,534	15,053	7,276	9,352	2,851	1,981	653	206	
New England	4,302	4,090	1,848	1,990	1,270	Q	314	Q	
Middle Atlantic	11,232	10,963	5,428	7,362	1,581	1,628	339	Q	
Midwest	18,919	18,055	8,638	14,031	667	906	1,003	301	
East North Central	12,742	12,240	5,687	10,122	292	574	280	Q	
West North Central	6,178	5,815	2,951	3,909	375	332	723	Q	
South	34,279	30,499	22,558	15,438	765	2,171	927	Q	
South Atlantic	17,981	15,883	12,514	7,309	458	1,148	498	Q	
East South Central	4,904	4,692	3,170	2,662	Q	Q	218	Q	
West South Central	11,394	9,923	6,874	5,467	Q	637	Q	Q	
West	18,360	16,471	10,559	10,690	Q	867	484	Q	
Mountain	4,981	4,704	2,791	3,180	Q	482	141	Q	
Pacific	13,379	11,767	7,768	7,509	Q	385	343	Q	
Climate region²									
Very cold/Cold	31,898	30,469	15,252	22,436	2,375	1,926	1,520	677	
Mixed-humid	27,873	26,716	17,288	15,774	1,721	3,002	1,056	Q	
Mixed-dry/Hot-dry	12,037	10,484	6,815	6,268	Q	Q	389	Q	
Hot-humid	12,831	10,090	8,300	3,316	Q	362	Q	N	
Marine	2,454	2,319	1,374	1,717	Q	Q	Q	Q	
Number of workers (main shift)									
Fewer than 5	17,751	12,931	6,806	7,144	998	Q	1,222	284	
5 to 9	8,973	8,492	5,390	4,655	348	Q	465	Q	
10 to 19	9,623	8,970	5,488	5,914	311	Q	390	Q	
20 to 49	14,514	14,126	9,380	9,275	555	623	388	Q	
50 to 99	13,476	13,184	8,881	8,947	786	669	Q	Q	
100 to 249	10,941	10,805	6,410	7,504	710	1,096	Q	Q	
250 or more	11,815	11,570	6,676	6,072	644	3,053	Q	Q	
Weekly operating hours									
Fewer than 40	8,220	5,763	2,920	3,370	339	Q	523	Q	
40 to 48	15,828	14,867	9,120	8,966	1,006	403	502	Q	
49 to 60	20,529	19,365	11,893	12,179	944	1,099	769	428	
61 to 84	15,867	15,148	10,229	9,927	814	828	345	Q	
85 to 167	9,395	8,711	4,995	5,964	Q	631	359	Q	
Open continuously	17,253	16,224	9,873	9,106	988	2,792	569	Q	

Table B27. Space-heating energy sources, floorspace, 2012

	Total floorspace (million square feet)							
	Space-heating energy sources used (more than one may apply)							
	All buildings	Buildings with space heating	Elec-tricity	Natural gas	Fuel oil	District heat	Propane	Other ¹
All buildings	87,093	80,078	49,030	49,511	4,351	5,925	3,067	1,010
Ownership and occupancy								
Nongovernment owned	67,550	61,341	39,210	37,495	2,844	3,119	2,429	834
Owner occupied	30,637	28,745	16,986	16,788	1,691	1,825	1,638	523
Leased to tenant(s)	26,115	23,766	16,368	15,108	734	730	497	Q
Owner occupied and leased	8,873	8,328	5,641	5,282	392	557	285	Q
Unoccupied	1,925	502	214	317	Q	Q	Q	N
Government owned	19,543	18,736	9,821	12,016	1,507	2,807	638	Q
Federal	1,573	1,557	798	657	Q	697	Q	Q
State	5,539	5,411	2,730	3,069	Q	1,526	Q	Q
Local	12,431	11,768	6,293	8,290	1,169	584	397	Q
Energy sources (more than one may apply)								
Electricity	84,869	80,053	49,030	49,511	4,351	5,925	3,052	985
Natural gas	58,725	58,129	32,047	49,511	1,908	2,833	487	485
Fuel oil	20,200	19,670	10,619	10,235	4,351	3,088	787	261
District heat	5,964	5,962	1,895	361	Q	5,925	Q	Q
District chilled water	4,608	4,561	1,510	707	Q	3,718	Q	Q
Propane	7,706	7,332	4,182	2,701	1,257	Q	3,067	Q
Other	3,826	3,826	1,944	2,377	311	335	Q	1,010
Primary space-heating energy source								
Electricity	26,205	26,205	26,205	5,856	421	Q	590	Q
Natural gas	42,988	42,988	19,376	42,988	1,122	Q	227	Q
Fuel oil	2,542	2,542	663	Q	2,542	Q	Q	Q
District heat	5,797	5,797	1,765	308	Q	5,797	N	Q
Propane	1,948	1,948	882	Q	Q	N	1,948	Q
Other	598	598	Q	Q	Q	N	Q	598
Cooling energy sources (more than one may apply)								
Electricity	76,034	73,613	47,155	47,299	3,656	3,399	2,685	812
Natural gas	732	732	220	714	Q	Q	N	N
District chilled water	4,608	4,561	1,510	707	Q	3,718	Q	Q
Water-heating energy sources (more than one may apply)								
Electricity	42,755	40,801	30,763	20,740	2,094	1,841	1,630	475
Natural gas	39,523	39,083	21,539	34,731	1,169	834	296	278
Fuel oil	1,911	1,805	618	506	1,617	Q	Q	Q
District heat	4,551	4,551	1,360	217	Q	4,515	N	Q
Propane	1,575	1,478	1,007	Q	Q	Q	1,201	Q
Cooking energy sources (more than one may apply)								
Electricity	25,151	24,576	16,437	15,271	1,532	2,207	895	342
Natural gas	24,770	24,425	15,237	19,231	1,158	1,636	Q	Q
Propane	2,001	1,877	1,108	Q	555	Q	773	Q

Table B27. Space-heating energy sources, floorspace, 2012

	Total floorspace (million square feet)								
	Space-heating energy sources used (more than one may apply)								
	All buildings	Buildings with space heating	Elec-tricity	Natural gas	Fuel oil	District heat	Propane	Other ¹	
All buildings	87,093	80,078	49,030	49,511	4,351	5,925	3,067	1,010	
Energy end uses (more than one may apply)									
Buildings with space heating	80,078	80,078	49,030	49,511	4,351	5,925	3,067	1,010	
Buildings with cooling	79,294	76,834	47,914	47,836	3,660	5,864	2,685	821	
Buildings with water heating	79,015	76,584	46,987	47,816	4,139	5,783	2,889	881	
Buildings with cooking	38,546	37,771	23,802	24,658	2,443	3,116	1,449	400	
Buildings with manufacturing	5,078	4,790	3,256	3,397	Q	Q	Q	Q	
Buildings with electricity generation	25,642	25,155	14,799	15,867	1,644	3,710	748	Q	
Percent of floorspace heated									
Not heated	7,015	N	N	N	N	N	N	N	
1 to 50	10,130	10,130	6,797	4,940	751	Q	490	Q	
51 to 99	14,650	14,650	9,640	9,298	606	1,126	659	Q	
100	55,298	55,298	32,593	35,274	2,994	4,683	1,918	737	
Heating equipment (more than one may apply)									
Heat pumps	11,846	11,846	11,482	5,928	527	556	385	Q	
Furnaces	8,654	8,654	5,040	6,837	183	Q	481	Q	
Individual space heaters	20,766	20,766	16,235	13,893	1,648	1,334	1,217	590	
District heat	5,925	5,925	1,869	350	Q	5,925	Q	Q	
Boilers	22,443	22,443	10,721	18,893	2,556	Q	565	Q	
Packaged heating units	49,188	49,188	35,389	32,966	1,746	725	1,963	411	
Other	1,574	1,574	1,352	1,094	Q	Q	Q	Q	

¹Other includes wood, coal, solar, and all other energy sources.

²These 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).

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.

Release date: April 2015

Revised date: May 2016

Table B28. Primary space-heating energy sources, number of buildings, 2012

	Number of buildings (thousand)					
	All buildings	Buildings with space heating	Primary space-heating energy source used ¹			
			Electricity	Natural gas	Fuel oil	District heat
All buildings	5,557	4,722	1,819	2,322	205	47
Building floorspace (square feet)						
1,001 to 5,000	2,777	2,257	928	1,025	119	Q
5,001 to 10,000	1,229	1,046	398	520	37	Q
10,001 to 25,000	884	797	280	433	32	Q
25,001 to 50,000	332	304	106	174	Q	6
50,001 to 100,000	199	187	70	97	6	10
100,001 to 200,000	90	86	27	48	2	9
200,001 to 500,000	38	36	8	23	Q	5
Over 500,000	8	8	2	4	Q	2
Principal building activity						
Education	389	379	154	182	17	12
Food sales	177	160	88	56	Q	N
Food service	380	359	146	183	Q	Q
Health care	157	153	60	82	5	2
Inpatient	10	9	Q	5	Q	1
Outpatient	147	144	58	77	Q	Q
Lodging	158	153	93	45	Q	4
Mercantile	602	572	229	283	Q	Q
Retail (other than mall)	438	412	160	192	Q	Q
Enclosed and strip malls	164	160	68	91	Q	Q
Office	1,012	989	424	493	32	12
Public assembly	352	330	94	164	Q	7
Public order and safety	84	81	Q	45	Q	Q
Religious worship	412	408	132	199	Q	N
Service	619	528	127	290	48	Q
Warehouse and storage	796	420	180	213	Q	Q
Other	125	100	36	47	Q	Q
Vacant	296	87	38	39	Q	Q
Year constructed						
Before 1920	362	322	72	176	40	5
1920 to 1945	488	413	109	248	25	7
1946 to 1959	599	517	187	266	29	5
1960 to 1969	639	559	161	326	37	9
1970 to 1979	684	599	219	311	Q	10
1980 to 1989	915	754	363	336	Q	2
1990 to 1999	845	675	269	320	20	2
2000 to 2003	375	322	145	132	Q	4
2004 to 2007	347	291	161	105	Q	2
2008 to 2012	303	270	133	103	Q	Q

Table B28. Primary space-heating energy sources, number of buildings, 2012

	Number of buildings (thousand)					
	Primary space-heating energy source used ¹					
	All buildings	Buildings with space heating	Electricity	Natural gas	Fuel oil	District heat
All buildings	5,557	4,722	1,819	2,322	205	47
Census region and division						
Northeast	805	727	138	361	141	15
New England	302	264	38	75	93	Q
Middle Atlantic	504	463	100	286	48	9
Midwest	1,237	1,096	193	768	Q	6
East North Central	735	670	90	530	Q	3
West North Central	502	426	102	238	Q	4
South	2,247	1,842	1,043	647	32	18
South Atlantic	1,091	873	557	239	21	8
East South Central	370	336	153	140	Q	Q
West South Central	786	633	334	268	Q	5
West	1,267	1,057	445	547	Q	7
Mountain	338	293	80	187	Q	Q
Pacific	929	764	365	360	Q	5
Climate region²						
Very cold/Cold	2,031	1,792	338	1,102	155	17
Mixed-humid	1,743	1,545	651	709	51	20
Mixed-dry/Hot-dry	837	676	332	315	N	4
Hot-humid	799	593	466	114	N	Q
Marine	147	116	Q	82	N	Q
Number of workers (main shift)						
Fewer than 5	2,892	2,184	788	1,040	136	Q
5 to 9	1,085	1,020	467	451	33	Q
10 to 19	731	692	269	370	Q	Q
20 to 49	513	494	186	274	Q	11
50 to 99	206	203	74	112	7	7
100 to 249	93	92	24	58	2	7
250 or more	37	37	11	18	Q	6
Weekly operating hours						
Fewer than 40	1,149	815	282	384	40	Q
40 to 48	1,346	1,230	472	613	64	7
49 to 60	1,244	1,143	425	593	43	11
61 to 84	764	672	263	348	25	8
85 to 167	479	414	176	200	Q	6
Open continuously	575	448	200	184	22	11

Table B28. Primary space-heating energy sources, number of buildings, 2012

	Number of buildings (thousand)					
	Primary space-heating energy source used ¹					
	All buildings	Buildings with space heating	Electricity	Natural gas	Fuel oil	District heat
All buildings	5,557	4,722	1,819	2,322	205	47
Ownership and occupancy						
Nongovernment owned	4,781	4,028	1,600	1,944	176	21
Owner occupied	2,466	2,198	834	1,025	109	13
Leased to tenant(s)	1,745	1,458	611	735	52	Q
Owner occupied and leased	349	325	136	163	Q	2
Unoccupied	221	47	Q	21	Q	Q
Government owned	776	694	219	378	29	26
Federal	33	33	Q	17	Q	1
State	185	168	58	81	Q	18
Local	558	493	149	281	26	7
Energy sources (more than one may apply)						
Electricity	5,234	4,717	1,819	2,322	205	47
Natural gas	2,933	2,888	509	2,322	15	17
Fuel oil	467	455	85	114	205	10
District heat	48	48	Q	Q	Q	47
District chilled water	54	51	20	6	N	26
Propane	510	491	122	45	47	Q
Other	172	172	33	47	Q	1
Energy end uses (more than one may apply)						
Buildings with space heating	4,722	4,722	1,819	2,322	205	47
Buildings with cooling	4,461	4,272	1,728	2,126	135	43
Buildings with water heating	4,423	4,237	1,599	2,148	169	44
Buildings with cooking	1,589	1,525	558	774	58	13
Buildings with manufacturing	259	234	87	124	Q	Q
Buildings with electricity generation	410	400	131	199	25	15
Percent of floorspace heated						
Not heated	835	N	N	N	N	N
1 to 50	697	697	369	244	31	Q
51 to 99	727	727	275	370	28	7
100	3,298	3,298	1,175	1,709	146	40
Heating equipment (more than one may apply)						
Heat pumps	628	628	484	117	Q	2
Furnaces	755	755	191	485	Q	Q
Individual space heaters	1,247	1,247	392	622	81	8
District heat	48	48	Q	Q	Q	47
Boilers	544	544	83	355	71	Q
Packaged heating units	2,802	2,802	1,057	1,506	85	3
Other	62	62	14	27	Q	Q

Table B28. Primary space-heating energy sources, number of buildings, 2012

	Number of buildings (thousand)					
	All buildings	Primary space-heating energy source used ¹				
		Buildings with space heating	Electricity	Natural gas	Fuel oil	District heat
All buildings	5,557	4,722	1,819	2,322	205	47

¹Additionally, 261,000 buildings used propane and 67,000 buildings used wood, coal, or some other energy source for primary space heating.

²These 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).

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.

Release date: April 2015

Revised date: May 2016

Table B29. Primary space-heating energy sources, floorspace, 2012

	Total floorspace (million square feet)					
	Primary space-heating energy source used ¹					
	All buildings	Buildings with space heating	Electricity	Natural gas	Fuel oil	District heat
All buildings	87,093	80,078	26,205	42,988	2,542	5,797
Building floorspace (square feet)						
1,001 to 5,000	8,041	6,699	2,766	3,050	329	Q
5,001 to 10,000	8,900	7,590	2,865	3,802	280	Q
10,001 to 25,000	14,105	12,744	4,433	6,957	509	Q
25,001 to 50,000	11,917	10,911	3,871	6,174	Q	213
50,001 to 100,000	13,918	13,114	4,892	6,844	413	704
100,001 to 200,000	12,415	11,941	3,646	6,624	348	1,283
200,001 to 500,000	10,724	10,348	2,129	6,487	Q	1,472
Over 500,000	7,074	6,730	1,603	3,050	Q	1,956
Principal building activity						
Education	12,239	12,099	2,972	7,188	649	1,096
Food sales	1,252	1,196	461	630	Q	N
Food service	1,819	1,762	695	892	Q	Q
Health care	4,155	4,109	818	2,416	175	656
Inpatient	2,374	2,354	160	1,517	Q	550
Outpatient	1,781	1,754	658	900	Q	Q
Lodging	5,826	5,696	2,814	2,086	Q	594
Mercantile	11,330	10,794	3,901	6,337	Q	Q
Retail (other than mall)	5,439	5,088	1,820	2,736	Q	Q
Enclosed and strip malls	5,890	5,706	2,081	3,601	Q	Q
Office	15,952	15,753	6,053	7,445	296	1,772
Public assembly	5,559	5,323	1,184	2,820	Q	883
Public order and safety	1,440	1,391	Q	747	Q	Q
Religious worship	4,557	4,511	1,472	2,482	Q	N
Service	4,630	4,157	981	2,247	254	Q
Warehouse and storage	13,077	9,987	3,556	5,855	Q	Q
Other	2,002	1,886	522	1,155	Q	Q
Vacant	3,256	1,415	506	687	Q	Q
Year constructed						
Before 1920	3,983	3,583	574	1,795	Q	523
1920 to 1945	6,025	5,527	1,212	2,961	323	888
1946 to 1959	7,381	6,895	1,414	4,453	378	439
1960 to 1969	10,362	9,730	2,394	5,802	292	995
1970 to 1979	10,846	10,045	2,988	5,484	Q	930
1980 to 1989	15,230	13,723	5,760	6,868	Q	441
1990 to 1999	13,803	12,389	4,634	6,478	258	534
2000 to 2003	7,215	6,707	2,543	3,395	Q	Q
2004 to 2007	6,524	5,972	2,543	2,845	Q	Q
2008 to 2012	5,723	5,505	2,142	2,908	Q	Q

Table B29. Primary space-heating energy sources, floorspace, 2012

	Total floorspace (million square feet)					
	Primary space-heating energy source used ¹					
	All buildings	Buildings with space heating	Electricity	Natural gas	Fuel oil	District heat
All buildings	87,093	80,078	26,205	42,988	2,542	5,797
Census region and division						
Northeast	15,534	15,053	2,188	8,366	1,988	1,954
New England	4,302	4,090	468	1,811	1,099	Q
Middle Atlantic	11,232	10,963	1,720	6,555	889	1,601
Midwest	18,919	18,055	2,982	13,084	Q	864
East North Central	12,742	12,240	1,702	9,587	Q	532
West North Central	6,178	5,815	1,281	3,497	Q	332
South	34,279	30,499	15,118	12,312	299	2,112
South Atlantic	17,981	15,883	8,533	5,694	245	1,089
East South Central	4,904	4,692	1,982	2,067	Q	Q
West South Central	11,394	9,923	4,604	4,551	Q	637
West	18,360	16,471	5,917	9,226	Q	867
Mountain	4,981	4,704	1,122	2,893	Q	482
Pacific	13,379	11,767	4,794	6,333	Q	385
Climate region²						
Very cold/Cold	31,898	30,469	4,771	20,554	1,623	1,884
Mixed-humid	27,873	26,716	9,282	12,884	919	2,916
Mixed-dry/Hot-dry	12,037	10,484	4,600	5,252	N	Q
Hot-humid	12,831	10,090	6,969	2,710	N	362
Marine	2,454	2,319	583	1,588	N	Q
Number of workers (main shift)						
Fewer than 5	17,751	12,931	4,326	6,471	831	Q
5 to 9	8,973	8,492	3,673	3,941	185	Q
10 to 19	9,623	8,970	3,380	4,804	Q	Q
20 to 49	14,514	14,126	4,997	7,987	Q	623
50 to 99	13,476	13,184	4,367	7,604	488	610
100 to 249	10,941	10,805	2,446	6,863	316	1,091
250 or more	11,815	11,570	3,015	5,317	Q	3,015
Weekly operating hours						
Fewer than 40	8,220	5,763	1,746	3,060	293	Q
40 to 48	15,828	14,867	5,065	8,184	755	381
49 to 60	20,529	19,365	6,696	10,341	472	1,099
61 to 84	15,867	15,148	5,020	8,585	512	769
85 to 167	9,395	8,711	2,280	5,455	Q	624
Open continuously	17,253	16,224	5,397	7,363	405	2,752

Table B29. Primary space-heating energy sources, floorspace, 2012

	Total floorspace (million square feet)					
	Primary space-heating energy source used ¹					
	All buildings	Buildings with space heating	Electricity	Natural gas	Fuel oil	District heat
All buildings	87,093	80,078	26,205	42,988	2,542	5,797
Ownership and occupancy						
Nongovernment owned	67,550	61,341	22,225	32,258	1,658	3,076
Owner occupied	30,637	28,745	9,948	14,409	976	1,793
Leased to tenant(s)	26,115	23,766	9,250	12,976	426	730
Owner occupied and leased	8,873	8,328	2,842	4,592	Q	547
Unoccupied	1,925	502	Q	280	Q	Q
Government owned	19,543	18,736	3,980	10,730	884	2,721
Federal	1,573	1,557	Q	593	Q	697
State	5,539	5,411	983	2,717	Q	1,445
Local	12,431	11,768	2,785	7,420	656	579
Energy sources (more than one may apply)						
Electricity	84,869	80,053	26,205	42,988	2,542	5,797
Natural gas	58,725	58,129	11,549	42,988	410	2,791
Fuel oil	20,200	19,670	4,651	9,022	2,542	2,991
District heat	5,964	5,962	Q	Q	Q	5,797
District chilled water	4,608	4,561	418	437	N	3,698
Propane	7,706	7,332	1,765	2,300	921	Q
Other	3,826	3,826	730	1,948	Q	276
Energy end uses (more than one may apply)						
Buildings with space heating	80,078	80,078	26,205	42,988	2,542	5,797
Buildings with cooling	79,294	76,834	25,613	41,435	1,984	5,736
Buildings with water heating	79,015	76,584	24,862	41,377	2,362	5,655
Buildings with cooking	38,546	37,771	11,243	21,175	1,261	3,017
Buildings with manufacturing	5,078	4,790	1,456	2,969	Q	Q
Buildings with electricity generation	25,642	25,155	6,392	13,940	720	3,613
Percent of floorspace heated						
Not heated	7,015	N	N	N	N	N
1 to 50	10,130	10,130	5,013	4,123	Q	Q
51 to 99	14,650	14,650	4,903	7,919	319	1,067
100	55,298	55,298	16,289	30,946	1,767	4,614
Heating equipment (more than one may apply)						
Heat pumps	11,846	11,846	7,215	3,792	Q	464
Furnaces	8,654	8,654	2,270	5,778	Q	Q
Individual space heaters	20,766	20,766	6,035	11,482	1,008	1,271
District heat	5,925	5,925	Q	Q	Q	5,797
Boilers	22,443	22,443	2,982	17,437	1,504	Q
Packaged heating units	49,188	49,188	18,523	27,826	757	650
Other	1,574	1,574	447	873	Q	Q

Table B29. Primary space-heating energy sources, floorspace, 2012

	Total floorspace (million square feet)					
	All buildings	Primary space-heating energy source used ¹				
		Buildings with space heating	Electricity	Natural gas	Fuel oil	District heat
All buildings	87,093	80,078	26,205	42,988	2,542	5,797

¹Additionally, buildings comprising 1,948 million square feet used propane and buildings comprising 598 million square feet used wood, coal, or some other energy source for primary space heating.

²These 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).

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.

Release date: April 2015

Revised date: May 2016

Table B30. Cooling energy sources, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	Cooling energy sources used (more than one may apply)					Cooling energy sources used (more than one may apply)				
	All buildings	Buildings with cooling	Electricity	Natural gas	District chilled water	All buildings	Buildings with cooling	Electricity	Natural gas	District chilled water
All buildings	5,557	4,461	4,413	12	54	87,093	79,294	76,034	732	4,608
Building floorspace (square feet)										
1,001 to 5,000	2,777	2,062	2,054	Q	Q	8,041	6,124	6,107	Q	Q
5,001 to 10,000	1,229	1,004	996	Q	Q	8,900	7,304	7,252	Q	Q
10,001 to 25,000	884	774	764	Q	9	14,105	12,357	12,211	Q	145
25,001 to 50,000	332	302	296	Q	Q	11,917	10,813	10,615	Q	Q
50,001 to 100,000	199	187	179	Q	10	13,918	13,069	12,618	Q	567
100,001 to 200,000	90	88	81	Q	9	12,415	12,152	11,034	Q	1,273
200,001 to 500,000	38	37	35	Q	4	10,724	10,518	9,887	Q	1,064
Over 500,000	8	8	7	(*)	1	7,074	6,958	6,310	167	1,306
Principal building activity										
Education	389	361	338	Q	25	12,239	11,811	10,673	Q	1,292
Food sales	177	165	165	N	N	1,252	1,190	1,190	N	N
Food service	380	358	356	N	Q	1,819	1,712	1,668	N	Q
Health care	157	154	153	(*)	Q	4,155	4,148	3,966	200	523
Inpatient	10	10	9	(*)	1	2,374	2,374	2,227	176	477
Outpatient	147	145	143	Q	Q	1,781	1,774	1,739	Q	Q
Lodging	158	145	142	Q	Q	5,826	5,700	5,308	Q	Q
Mercantile	602	560	560	Q	N	11,330	11,121	11,121	Q	N
Retail (other than mall)	438	396	396	N	N	5,439	5,230	5,230	N	N
Enclosed and strip malls	164	164	164	Q	N	5,890	5,890	5,890	Q	N
Office	1,012	995	985	Q	10	15,952	15,882	15,179	Q	1,096
Public assembly	352	295	291	N	5	5,559	5,235	4,629	N	880
Public order and safety	84	74	74	Q	Q	1,440	1,384	1,358	Q	Q
Religious worship	412	375	375	N	Q	4,557	4,271	4,271	N	Q
Service	619	435	435	N	N	4,630	3,773	3,758	N	N
Warehouse and storage	796	391	388	Q	N	13,077	10,120	10,059	Q	N
Other	125	90	89	Q	Q	2,002	1,820	1,806	Q	Q
Vacant	296	63	62	N	Q	3,256	1,125	1,048	N	Q
Year constructed										
Before 1920	362	275	272	N	Q	3,983	3,087	2,908	N	Q
1920 to 1945	488	367	366	Q	Q	6,025	5,215	5,081	Q	Q
1946 to 1959	599	477	472	Q	Q	7,381	6,679	6,569	Q	203
1960 to 1969	639	538	528	Q	11	10,362	9,634	8,962	Q	923
1970 to 1979	684	563	555	Q	9	10,846	10,031	9,440	Q	811
1980 to 1989	915	730	727	Q	3	15,230	14,011	13,830	Q	310
1990 to 1999	845	663	654	Q	10	13,803	12,402	11,924	Q	664
2000 to 2003	375	321	315	Q	5	7,215	6,939	6,463	Q	Q
2004 to 2007	347	293	290	Q	6	6,524	6,071	5,722	Q	418
2008 to 2012	303	235	232	Q	Q	5,723	5,225	5,135	Q	Q

Table B30. Cooling energy sources, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	Cooling energy sources used (more than one may apply)					Cooling energy sources used (more than one may apply)				
	All buildings	Buildings with cooling	Electricity	Natural gas	District chilled water	All buildings	Buildings with cooling	Electricity	Natural gas	District chilled water
All buildings	5,557	4,461	4,413	12	54	87,093	79,294	76,034	732	4,608
Census region and division										
Northeast	805	592	583	6	7	15,534	13,949	13,303	305	794
New England	302	187	183	Q	Q	4,302	3,482	3,317	Q	Q
Middle Atlantic	504	405	400	3	Q	11,232	10,467	9,986	216	656
Midwest	1,237	970	967	Q	2	18,919	17,144	16,826	Q	585
East North Central	735	601	599	Q	2	12,742	11,675	11,474	Q	420
West North Central	502	370	369	Q	Q	6,178	5,469	5,352	Q	Q
South	2,247	1,891	1,861	Q	35	34,279	31,734	29,950	Q	2,479
South Atlantic	1,091	935	917	Q	22	17,981	17,094	16,368	Q	1,202
East South Central	370	335	329	Q	Q	4,904	4,710	4,307	Q	Q
West South Central	786	621	616	Q	6	11,394	9,931	9,275	Q	773
West	1,267	1,007	1,001	Q	9	18,360	16,467	15,955	Q	749
Mountain	338	259	258	Q	1	4,981	4,489	4,205	Q	Q
Pacific	929	748	743	Q	8	13,379	11,978	11,749	Q	329
Climate region¹										
Very cold/Cold	2,031	1,497	1,488	8	7	31,898	28,228	27,377	403	1,227
Mixed-humid	1,743	1,482	1,467	3	18	27,873	26,365	24,968	272	2,027
Mixed-dry/Hot-dry	837	682	679	Q	7	12,037	10,887	10,490	Q	Q
Hot-humid	799	699	680	Q	21	12,831	11,624	11,043	Q	752
Marine	147	101	99	Q	Q	2,454	2,190	2,157	Q	Q
Number of workers (main shift)										
Fewer than 5	2,892	1,932	1,918	Q	Q	17,751	11,595	11,383	Q	Q
5 to 9	1,085	999	994	N	Q	8,973	8,238	8,177	N	Q
10 to 19	731	699	696	N	Q	9,623	9,190	9,070	N	Q
20 to 49	513	498	486	Q	9	14,514	14,219	13,707	Q	505
50 to 99	206	203	197	Q	9	13,476	13,323	12,844	Q	683
100 to 249	93	93	87	Q	6	10,941	10,913	10,076	Q	982
250 or more	37	37	35	1	5	11,815	11,815	10,777	378	1,986
Weekly operating hours										
Fewer than 40	1,149	690	689	Q	Q	8,220	5,083	4,986	Q	Q
40 to 48	1,346	1,168	1,154	Q	12	15,828	14,512	14,078	Q	521
49 to 60	1,244	1,084	1,075	Q	10	20,529	19,297	18,670	Q	805
61 to 84	764	669	662	Q	9	15,867	15,170	14,763	Q	524
85 to 167	479	419	409	Q	12	9,395	8,864	8,451	Q	606
Open continuously	575	431	423	Q	11	17,253	16,368	15,087	329	2,005
Ownership and occupancy										
Nongovernment owned	4,781	3,817	3,802	11	17	67,550	60,960	59,329	542	2,104
Owner occupied	2,466	2,046	2,038	Q	14	30,637	28,174	26,984	147	1,478
Leased to tenant(s)	1,745	1,421	1,415	Q	2	26,115	23,907	23,688	Q	297
Owner occupied and leased	349	324	322	Q	1	8,873	8,602	8,379	Q	329
Unoccupied	221	26	26	N	N	1,925	278	278	N	N
Government owned	776	644	611	Q	37	19,543	18,334	16,705	Q	2,504
Federal	33	33	32	Q	Q	1,573	1,573	1,403	Q	Q
State	185	159	142	Q	20	5,539	5,252	4,086	Q	1,448
Local	558	452	437	Q	16	12,431	11,508	11,217	Q	612

Table B30. Cooling energy sources, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	Cooling energy sources used (more than one may apply)					Cooling energy sources used (more than one may apply)				
	All buildings	Buildings with cooling	Electricity	Natural gas	District chilled water	All buildings	Buildings with cooling	Electricity	Natural gas	District chilled water
All buildings	5,557	4,461	4,413	12	54	87,093	79,294	76,034	732	4,608
Energy sources (more than one may apply)										
Electricity	5,234	4,461	4,413	12	54	84,869	79,294	76,034	732	4,608
Natural gas	2,933	2,700	2,679	12	21	58,725	56,899	55,138	732	2,431
Fuel oil	467	360	355	1	8	20,200	19,309	18,259	364	2,134
District heat	48	44	23	Q	26	5,964	5,903	3,429	Q	3,730
District chilled water	54	54	13	Q	54	4,608	4,608	1,586	Q	4,608
Propane	510	420	416	Q	Q	7,706	7,061	6,814	Q	Q
Other	172	126	125	Q	Q	3,826	3,573	3,490	Q	Q
Primary space-heating energy source										
Electricity	1,819	1,728	1,712	Q	20	26,205	25,613	25,317	Q	418
Natural gas	2,322	2,126	2,116	10	6	42,988	41,435	40,980	703	437
Fuel oil	205	135	135	N	N	2,542	1,984	1,984	N	N
District heat	47	43	23	Q	26	5,797	5,736	3,274	Q	3,698
Propane	261	207	207	N	N	1,948	1,643	1,643	N	N
Other	67	33	33	N	Q	598	425	416	N	Q
Water-heating energy sources (more than one may apply)										
Electricity	2,658	2,481	2,460	Q	27	42,755	41,520	40,675	Q	1,381
Natural gas	1,758	1,646	1,632	7	15	39,523	38,464	37,575	663	1,155
Fuel oil	77	58	58	Q	Q	1,911	1,705	1,705	Q	Q
District heat	25	24	14	Q	13	4,551	4,527	2,668	Q	2,783
Propane	142	120	120	N	N	1,575	1,413	1,413	N	N
Cooking energy sources (more than one may apply)										
Electricity	1,010	962	959	(*)	6	25,151	24,665	24,152	170	1,407
Natural gas	740	712	707	1	6	24,770	24,434	23,744	294	1,175
Propane	144	121	120	N	Q	2,001	1,849	1,833	N	Q
Energy end uses (more than one may apply)										
Buildings with space heating	4,722	4,272	4,226	12	51	80,078	76,834	73,613	732	4,561
Buildings with cooling	4,461	4,461	4,413	12	54	79,294	79,294	76,034	732	4,608
Buildings with water heating	4,423	4,097	4,054	10	51	79,015	76,414	73,215	724	4,511
Buildings with cooking	1,589	1,497	1,491	1	9	38,546	37,687	36,626	298	2,084
Buildings with manufacturing	259	217	217	Q	Q	5,078	4,682	4,682	Q	Q
Buildings with electricity generation	410	386	377	2	12	25,642	25,350	23,770	437	2,731
Percent of floorspace cooled										
Not cooled	1,096	N	N	N	N	7,799	N	N	N	N
1 to 50	1,173	1,173	1,172	Q	Q	18,891	18,891	18,815	Q	Q
51 to 99	897	897	885	1	18	22,728	22,728	21,607	166	1,953
100	2,391	2,391	2,355	9	36	37,676	37,676	35,612	415	2,569

Table B30. Cooling energy sources, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	Cooling energy sources used (more than one may apply)				Cooling energy sources used (more than one may apply)					
	All buildings	Buildings with cooling	Electricity	Natural gas	District chilled water	All buildings	Buildings with cooling	Electricity	Natural gas	District chilled water
All buildings	5,557	4,461	4,413	12	54	87,093	79,294	76,034	732	4,608
Cooling equipment (more than one may apply)										
Residential-type central air conditioners	1,546	1,546	1,546	Q	Q	14,765	14,765	14,765	Q	Q
Heat pumps	692	692	692	Q	Q	12,538	12,538	12,538	Q	268
Individual air conditioners	709	709	709	Q	2	12,420	12,420	12,420	174	636
District chilled water	54	54	13	Q	54	4,608	4,608	1,586	Q	4,608
Central chillers	163	163	162	5	1	17,041	17,041	16,872	629	393
Packaged air conditioning units	1,909	1,909	1,903	8	7	45,153	45,153	45,047	389	833
Swamp coolers	109	109	109	Q	Q	1,918	1,918	1,918	Q	Q
Other	Q	Q	Q	Q	Q	328	328	328	Q	Q

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).

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.

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

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.

Release date: April 2015

Revised date: May 2016

Table B31. Water-heating energy sources, number of buildings, 2012

	Number of buildings (thousand)						
	All buildings	Water-heating energy sources used (more than one may apply)					
		Buildings with water heating	Electricity	Natural gas	Fuel oil	District heat	Propane
All buildings	5,557	4,423	2,658	1,758	77	25	142
Building floorspace (square feet)							
1,001 to 5,000	2,777	2,032	1,304	684	Q	Q	58
5,001 to 10,000	1,229	992	594	384	Q	Q	47
10,001 to 25,000	884	775	431	351	Q	Q	26
25,001 to 50,000	332	307	167	157	Q	Q	Q
50,001 to 100,000	199	186	94	109	Q	6	Q
100,001 to 200,000	90	86	46	49	2	6	Q
200,001 to 500,000	38	36	18	21	1	4	Q
Over 500,000	8	8	4	4	(*)	2	Q
Principal building activity							
Education	389	332	159	167	11	7	Q
Food sales	177	177	115	59	Q	N	Q
Food service	380	379	155	216	Q	Q	27
Health care	157	156	93	65	2	2	Q
Inpatient	10	10	2	7	1	1	Q
Outpatient	147	146	90	58	Q	Q	Q
Lodging	158	158	55	91	Q	3	Q
Mercantile	602	531	400	194	Q	Q	Q
Retail (other than mall)	438	367	263	101	Q	Q	Q
Enclosed and strip malls	164	164	137	93	Q	Q	Q
Office	1,012	943	614	323	Q	8	Q
Public assembly	352	317	160	135	Q	3	Q
Public order and safety	84	80	46	28	Q	Q	Q
Religious worship	412	383	233	144	Q	N	Q
Service	619	442	273	161	Q	Q	Q
Warehouse and storage	796	370	264	117	Q	N	Q
Other	125	98	66	31	Q	Q	Q
Vacant	296	56	26	27	Q	Q	Q
Year constructed							
Before 1920	362	286	173	104	Q	2	Q
1920 to 1945	488	383	187	176	Q	4	Q
1946 to 1959	599	460	267	189	Q	2	Q
1960 to 1969	639	540	278	269	14	5	Q
1970 to 1979	684	577	342	245	Q	4	Q
1980 to 1989	915	727	495	243	Q	1	21
1990 to 1999	845	631	377	249	Q	2	30
2000 to 2003	375	312	204	108	Q	Q	Q
2004 to 2007	347	275	189	93	Q	Q	Q
2008 to 2012	303	231	145	83	Q	Q	Q

Table B31. Water-heating energy sources, number of buildings, 2012

	Number of buildings (thousand)						
	All buildings	Water-heating energy sources used (more than one may apply)					
		Buildings with water heating	Electricity	Natural gas	Fuel oil	District heat	Propane
All buildings	5,557	4,423	2,658	1,758	77	25	142
Census region and division							
Northeast	805	671	324	291	69	9	37
New England	302	235	127	55	46	Q	28
Middle Atlantic	504	436	197	236	23	Q	Q
Midwest	1,237	1,014	525	493	Q	5	31
East North Central	735	629	295	350	Q	2	Q
West North Central	502	385	230	143	Q	Q	24
South	2,247	1,740	1,242	527	Q	7	42
South Atlantic	1,091	856	665	202	Q	Q	21
East South Central	370	325	238	92	Q	Q	Q
West South Central	786	560	339	233	Q	Q	Q
West	1,267	997	567	447	Q	4	32
Mountain	338	260	130	129	Q	Q	Q
Pacific	929	737	437	317	Q	3	Q
Climate region¹							
Very cold/Cold	2,031	1,639	838	748	64	10	71
Mixed-humid	1,743	1,445	944	521	12	10	37
Mixed-dry/Hot-dry	837	635	358	290	Q	Q	Q
Hot-humid	799	590	459	136	Q	Q	Q
Marine	147	113	58	63	Q	Q	N
Number of workers (main shift)							
Fewer than 5	2,892	1,917	1,207	644	39	Q	71
5 to 9	1,085	977	606	354	Q	Q	37
10 to 19	731	700	376	339	Q	Q	23
20 to 49	513	495	290	239	Q	5	Q
50 to 99	206	203	115	110	Q	4	Q
100 to 249	93	93	45	55	2	6	Q
250 or more	37	37	20	17	1	5	Q
Weekly operating hours							
Fewer than 40	1,149	703	445	239	Q	Q	Q
40 to 48	1,346	1,107	722	381	23	Q	21
49 to 60	1,244	1,063	650	412	Q	6	36
61 to 84	764	676	408	299	Q	4	19
85 to 167	479	428	225	213	Q	4	Q
Open continuously	575	447	208	213	18	9	25

Table B31. Water-heating energy sources, number of buildings, 2012

	Number of buildings (thousand)						
	Water-heating energy sources used (more than one may apply)						
	All buildings	Buildings with water heating	Electricity	Natural gas	Fuel oil	District heat	Propane
All buildings	5,557	4,423	2,658	1,758	77	25	142
Ownership and occupancy							
Nongovernment owned	4,781	3,791	2,323	1,482	63	13	120
Owner occupied	2,466	2,048	1,195	806	45	10	86
Leased to tenant(s)	1,745	1,401	904	541	Q	1	27
Owner occupied and leased	349	316	213	121	Q	2	Q
Unoccupied	221	26	Q	Q	N	N	Q
Government owned	776	632	335	275	14	12	22
Federal	33	33	18	14	Q	1	Q
State	185	146	75	66	Q	10	Q
Local	558	452	242	195	12	2	Q
Energy sources (more than one may apply)							
Electricity	5,234	4,423	2,658	1,758	77	25	142
Natural gas	2,933	2,742	1,180	1,758	9	9	Q
Fuel oil	467	411	240	106	77	7	11
District heat	48	45	16	9	Q	25	Q
District chilled water	54	51	27	15	Q	13	N
Propane	510	466	283	43	29	Q	142
Other	172	141	78	45	Q	Q	Q
Primary space-heating energy source							
Electricity	1,819	1,599	1,315	319	Q	Q	24
Natural gas	2,322	2,148	911	1,378	5	Q	Q
Fuel oil	205	169	104	Q	61	N	Q
District heat	47	44	16	9	Q	25	N
Propane	261	234	138	Q	N	N	101
Other	67	44	28	Q	Q	N	Q
Cooking energy sources (more than one may apply)							
Electricity	1,010	997	604	422	22	5	37
Natural gas	740	739	268	576	7	3	Q
Propane	144	142	77	5	17	N	58
Energy end uses (more than one may apply)							
Buildings with space heating	4,722	4,237	2,512	1,722	76	25	133
Buildings with cooling	4,461	4,097	2,481	1,646	58	24	120
Buildings with water heating	4,423	4,423	2,658	1,758	77	25	142
Buildings with cooking	1,589	1,573	810	795	41	7	76
Buildings with manufacturing	259	228	145	84	Q	Q	Q
Buildings with electricity generation	410	395	200	184	20	11	20

Table B31. Water-heating energy sources, number of buildings, 2012

	Number of buildings (thousand)						
	Water-heating energy sources used (more than one may apply)						
	All buildings	Buildings with water heating	Electricity	Natural gas	Fuel oil	District heat	Propane
All buildings	5,557	4,423	2,658	1,758	77	25	142
Water-heating equipment							
Centralized system	3,348	3,348	1,901	1,367	63	19	106
Distributed system	690	690	508	182	Q	3	Q
Combination of centralized and distributed system	385	385	250	209	7	4	14

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).

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.

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

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.

Release date: April 2015
 Revised date: May 2016

Table B32. Water-heating energy sources, floorspace, 2012

	Total floorspace (million square feet)						
	Water-heating energy sources used (more than one may apply)						
	All buildings	Buildings with water heating	Electricity	Natural gas	Fuel oil	District heat	Propane
All buildings	87,093	79,015	42,755	39,523	1,911	4,551	1,575
Building floorspace (square feet)							
1,001 to 5,000	8,041	6,102	3,881	2,081	Q	Q	171
5,001 to 10,000	8,900	7,236	4,348	2,809	Q	Q	321
10,001 to 25,000	14,105	12,401	6,926	5,657	Q	Q	376
25,001 to 50,000	11,917	11,007	5,975	5,643	Q	Q	Q
50,001 to 100,000	13,918	13,063	6,672	7,528	Q	425	Q
100,001 to 200,000	12,415	11,903	6,162	6,819	238	965	Q
200,001 to 500,000	10,724	10,351	5,005	5,995	370	1,318	Q
Over 500,000	7,074	6,951	3,786	2,990	215	1,652	Q
Principal building activity							
Education	12,239	11,905	4,160	7,712	638	842	Q
Food sales	1,252	1,252	776	672	Q	N	Q
Food service	1,819	1,817	750	1,026	Q	Q	135
Health care	4,155	4,153	1,309	2,587	345	576	Q
Inpatient	2,374	2,374	401	1,688	248	489	Q
Outpatient	1,781	1,779	908	899	Q	Q	Q
Lodging	5,826	5,821	1,122	4,267	Q	573	Q
Mercantile	11,330	10,960	8,922	5,490	Q	Q	Q
Retail (other than mall)	5,439	5,070	3,721	1,642	Q	Q	Q
Enclosed and strip malls	5,890	5,890	5,201	3,848	Q	Q	Q
Office	15,952	15,663	9,572	6,015	Q	1,368	Q
Public assembly	5,559	5,318	2,094	2,813	Q	742	Q
Public order and safety	1,440	1,341	635	742	Q	Q	Q
Religious worship	4,557	4,337	2,481	1,962	Q	N	Q
Service	4,630	3,763	2,303	1,416	Q	Q	Q
Warehouse and storage	13,077	10,041	7,195	3,545	Q	N	Q
Other	2,002	1,614	1,019	694	Q	Q	Q
Vacant	3,256	1,031	417	582	Q	Q	Q
Year constructed							
Before 1920	3,983	3,403	1,858	1,274	Q	369	Q
1920 to 1945	6,025	5,299	2,357	2,362	Q	847	Q
1946 to 1959	7,381	6,410	2,829	3,659	299	287	Q
1960 to 1969	10,362	9,699	4,423	5,654	366	828	Q
1970 to 1979	10,846	10,158	4,854	5,625	Q	718	Q
1980 to 1989	15,230	13,831	8,845	6,263	Q	200	312
1990 to 1999	13,803	12,209	6,946	6,084	Q	442	334
2000 to 2003	7,215	6,889	4,066	3,131	Q	Q	Q
2004 to 2007	6,524	5,955	3,725	2,837	Q	Q	Q
2008 to 2012	5,723	5,162	2,852	2,635	Q	Q	Q

Table B32. Water-heating energy sources, floorspace, 2012

	Total floorspace (million square feet)						
	Water-heating energy sources used (more than one may apply)						
	All buildings	Buildings with water heating	Electricity	Natural gas	Fuel oil	District heat	Propane
All buildings	87,093	79,015	42,755	39,523	1,911	4,551	1,575
Census region and division							
Northeast	15,534	14,633	6,561	7,533	1,401	1,641	389
New England	4,302	3,915	1,939	1,492	693	Q	233
Middle Atlantic	11,232	10,718	4,622	6,042	708	1,383	Q
Midwest	18,919	17,592	7,934	10,615	Q	767	392
East North Central	12,742	12,082	4,914	7,910	Q	470	Q
West North Central	6,178	5,510	3,020	2,705	Q	Q	251
South	34,279	30,261	19,449	12,258	Q	1,568	534
South Atlantic	17,981	16,144	11,163	5,651	Q	944	353
East South Central	4,904	4,598	2,900	2,103	Q	Q	Q
West South Central	11,394	9,519	5,386	4,504	Q	Q	Q
West	18,360	16,529	8,811	9,116	Q	575	260
Mountain	4,981	4,440	2,000	2,665	Q	Q	Q
Pacific	13,379	12,089	6,810	6,452	Q	243	Q
Climate region¹							
Very cold/Cold	31,898	29,567	13,252	16,960	1,111	1,515	768
Mixed-humid	27,873	25,772	14,954	11,896	711	2,304	482
Mixed-dry/Hot-dry	12,037	10,585	5,678	5,927	Q	Q	Q
Hot-humid	12,831	10,837	7,690	3,447	Q	Q	Q
Marine	2,454	2,255	1,180	1,294	Q	Q	N
Number of workers (main shift)							
Fewer than 5	17,751	11,783	6,498	4,706	319	Q	512
5 to 9	8,973	8,205	4,882	3,280	Q	Q	289
10 to 19	9,623	9,137	4,980	4,518	Q	Q	210
20 to 49	14,514	14,097	7,767	7,529	Q	331	Q
50 to 99	13,476	13,171	7,104	7,742	Q	409	Q
100 to 249	10,941	10,912	5,572	6,380	347	961	Q
250 or more	11,815	11,711	5,951	5,367	332	2,581	Q
Weekly operating hours							
Fewer than 40	8,220	5,137	2,681	2,427	Q	Q	Q
40 to 48	15,828	14,388	8,295	6,420	418	Q	220
49 to 60	20,529	18,878	10,853	8,403	Q	941	313
61 to 84	15,867	15,304	9,918	7,825	Q	501	243
85 to 167	9,395	8,937	4,695	5,011	Q	488	Q
Open continuously	17,253	16,371	6,313	9,437	544	2,337	445

Table B32. Water-heating energy sources, floorspace, 2012

	Total floorspace (million square feet)						
	Water-heating energy sources used (more than one may apply)						
	All buildings	Buildings with water heating	Electricity	Natural gas	Fuel oil	District heat	Propane
All buildings	87,093	79,015	42,755	39,523	1,911	4,551	1,575
Ownership and occupancy							
Nongovernment owned	67,550	60,645	35,729	28,106	1,108	2,566	1,179
Owner occupied	30,637	27,869	13,903	13,220	757	1,593	849
Leased to tenant(s)	26,115	23,900	16,509	10,578	Q	456	195
Owner occupied and leased	8,873	8,544	5,232	4,063	Q	517	Q
Unoccupied	1,925	332	Q	Q	N	N	Q
Government owned	19,543	18,370	7,025	11,417	804	1,986	396
Federal	1,573	1,565	667	628	Q	691	Q
State	5,539	5,270	1,907	3,096	Q	1,010	Q
Local	12,431	11,535	4,452	7,693	607	285	Q
Energy sources (more than one may apply)							
Electricity	84,869	79,015	42,755	39,523	1,911	4,551	1,575
Natural gas	58,725	57,019	24,822	39,523	656	2,204	Q
Fuel oil	20,200	19,708	9,324	9,484	1,911	2,498	353
District heat	5,964	5,822	1,857	834	Q	4,551	Q
District chilled water	4,608	4,511	1,381	1,155	Q	2,783	N
Propane	7,706	7,383	3,982	2,110	824	Q	1,575
Other	3,826	3,679	1,875	1,782	Q	Q	Q
Primary space-heating energy source							
Electricity	26,205	24,862	19,438	7,239	Q	Q	370
Natural gas	42,988	41,377	17,136	30,635	436	Q	Q
Fuel oil	2,542	2,362	1,214	Q	1,220	N	Q
District heat	5,797	5,655	1,781	822	Q	4,451	N
Propane	1,948	1,819	930	Q	N	N	973
Other	598	508	301	Q	Q	N	Q
Cooking energy sources (more than one may apply)							
Electricity	25,151	25,034	13,898	13,806	876	1,832	524
Natural gas	24,770	24,735	10,836	18,986	513	1,347	Q
Propane	2,001	1,997	923	199	548	N	793
Energy end uses (more than one may apply)							
Buildings with space heating	80,078	76,584	40,801	39,083	1,805	4,551	1,478
Buildings with cooling	79,294	76,414	41,520	38,464	1,705	4,527	1,413
Buildings with water heating	79,015	79,015	42,755	39,523	1,911	4,551	1,575
Buildings with cooking	38,546	38,389	18,787	23,232	1,412	2,584	976
Buildings with manufacturing	5,078	4,570	2,952	1,929	Q	Q	Q
Buildings with electricity generation	25,642	25,280	11,460	14,319	964	3,078	488

Table B32. Water-heating energy sources, floorspace, 2012

	Total floorspace (million square feet)						
	Water-heating energy sources used (more than one may apply)						
	All buildings	Buildings with water heating	Electricity	Natural gas	Fuel oil	District heat	Propane
All buildings	87,093	79,015	42,755	39,523	1,911	4,551	1,575
Water-heating equipment							
Centralized system	47,534	47,534	21,435	24,806	1,318	3,002	1,006
Distributed system	12,688	12,688	9,362	4,088	Q	325	Q
Combination of centralized and distributed system	18,793	18,793	11,957	10,629	467	1,224	348

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).

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.

Release date: April 2015

Revised date: May 2016

Table B33. Cooking energy sources, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	Cooking energy sources used (more than one may apply)				Cooking energy sources used (more than one may apply)					
	All buildings	Buildings with cooking	Elec-tricity	Natural gas	Propane	All buildings	Buildings with cooking	Elec-tricity	Natural gas	Propane
All buildings	5,557	1,589	1,010	740	144	87,093	38,546	25,151	24,770	2,001
Building floorspace (square feet)										
1,001 to 5,000	2,777	673	441	265	77	8,041	2,073	1,351	819	242
5,001 to 10,000	1,229	376	225	168	37	8,900	2,733	1,625	1,252	281
10,001 to 25,000	884	257	167	126	17	14,105	4,134	2,651	2,124	253
25,001 to 50,000	332	108	63	64	Q	11,917	3,858	2,279	2,271	Q
50,001 to 100,000	199	96	63	62	6	13,918	6,870	4,530	4,526	367
100,001 to 200,000	90	48	31	33	Q	12,415	6,587	4,204	4,677	Q
200,001 to 500,000	38	25	16	18	Q	10,724	6,969	4,658	5,172	Q
Over 500,000	8	6	4	4	Q	7,074	5,322	3,854	3,930	Q
Principal building activity										
Education	389	169	116	86	7	12,239	8,479	5,876	5,686	420
Food sales	177	111	79	38	Q	1,252	943	651	588	Q
Food service	380	353	183	246	40	1,819	1,738	847	1,263	213
Health care	157	22	19	8	Q	4,155	2,649	1,952	1,989	Q
Inpatient	10	9	5	7	Q	2,374	2,230	1,564	1,826	Q
Outpatient	147	13	13	Q	Q	1,781	419	388	Q	Q
Lodging	158	94	52	49	14	5,826	4,293	2,250	3,167	362
Mercantile	602	157	101	92	Q	11,330	6,396	4,107	4,886	Q
Retail (other than mall)	438	52	43	9	Q	5,439	1,773	1,250	984	Q
Enclosed and strip malls	164	105	58	83	Q	5,890	4,623	2,858	3,902	Q
Office	1,012	130	101	39	Q	15,952	5,230	3,637	2,799	Q
Public assembly	352	143	89	46	24	5,559	2,751	1,980	1,484	241
Public order and safety	84	56	38	16	Q	1,440	912	622	455	Q
Religious worship	412	261	167	93	Q	4,557	3,394	1,966	1,799	Q
Service	619	39	28	Q	Q	4,630	517	447	Q	Q
Warehouse and storage	796	33	26	Q	Q	13,077	922	669	Q	Q
Other	125	Q	Q	Q	Q	2,002	Q	Q	Q	Q
Vacant	296	Q	Q	Q	Q	3,256	Q	Q	Q	Q
Year constructed										
Before 1920	362	130	82	45	Q	3,983	1,493	998	656	Q
1920 to 1945	488	138	84	73	Q	6,025	2,711	1,819	1,512	Q
1946 to 1959	599	189	109	96	19	7,381	3,409	1,948	2,274	196
1960 to 1969	639	188	108	105	Q	10,362	4,644	2,862	3,360	Q
1970 to 1979	684	195	130	93	14	10,846	4,837	2,990	3,265	262
1980 to 1989	915	221	148	103	9	15,230	6,545	4,342	4,168	360
1990 to 1999	845	232	145	113	27	13,803	6,517	4,293	4,387	452
2000 to 2003	375	102	75	38	Q	7,215	2,874	2,126	1,752	Q
2004 to 2007	347	108	69	40	Q	6,524	3,140	1,942	1,984	Q
2008 to 2012	303	84	60	34	Q	5,723	2,375	1,831	1,410	Q

Table B33. Cooking energy sources, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	Cooking energy sources used (more than one may apply)				Cooking energy sources used (more than one may apply)					
	All buildings	Buildings with cooking	Electricity	Natural gas	Propane	All buildings	Buildings with cooking	Electricity	Natural gas	Propane
All buildings	5,557	1,589	1,010	740	144	87,093	38,546	25,151	24,770	2,001
Census region and division										
Northeast	805	249	120	123	48	15,534	8,177	4,677	5,357	779
New England	302	104	53	33	Q	4,302	2,053	1,143	1,015	486
Middle Atlantic	504	145	67	90	10	11,232	6,124	3,534	4,341	293
Midwest	1,237	370	260	163	28	18,919	8,726	6,159	5,642	328
East North Central	735	233	161	120	Q	12,742	6,175	4,211	4,293	Q
West North Central	502	137	99	43	23	6,178	2,551	1,949	1,349	211
South	2,247	664	439	286	53	34,279	14,381	9,812	8,572	663
South Atlantic	1,091	307	206	124	31	17,981	7,925	5,446	4,427	510
East South Central	370	144	98	59	Q	4,904	2,255	1,544	1,487	Q
West South Central	786	213	135	103	Q	11,394	4,201	2,822	2,658	Q
West	1,267	306	191	168	Q	18,360	7,262	4,503	5,200	230
Mountain	338	84	58	36	Q	4,981	2,420	1,522	1,694	Q
Pacific	929	222	133	132	Q	13,379	4,842	2,981	3,506	Q
Climate region¹										
Very cold/Cold	2,031	574	360	251	70	31,898	14,975	9,761	9,670	1,008
Mixed-humid	1,743	558	353	268	44	27,873	13,469	9,042	8,466	503
Mixed-dry/Hot-dry	837	188	111	113	Q	12,037	4,029	2,299	3,055	Q
Hot-humid	799	230	162	81	22	12,831	5,098	3,437	2,873	391
Marine	147	39	24	27	Q	2,454	975	612	706	Q
Number of workers (main shift)										
Fewer than 5	2,892	660	416	243	81	17,751	4,138	2,425	1,747	510
5 to 9	1,085	308	206	131	Q	8,973	2,501	1,747	1,095	Q
10 to 19	731	271	163	141	22	9,623	3,203	2,080	1,501	250
20 to 49	513	197	124	121	Q	14,514	6,481	3,839	4,502	Q
50 to 99	206	92	62	61	5	13,476	7,501	5,012	5,178	438
100 to 249	93	40	25	30	2	10,941	6,181	3,989	4,852	268
250 or more	37	21	14	13	Q	11,815	8,540	6,060	5,895	Q
Weekly operating hours										
Fewer than 40	1,149	329	219	103	29	8,220	2,921	1,784	1,340	143
40 to 48	1,346	228	160	83	Q	15,828	4,974	3,446	2,792	Q
49 to 60	1,244	251	171	107	Q	20,529	6,900	4,845	3,813	Q
61 to 84	764	290	156	182	30	15,867	8,122	5,158	5,830	323
85 to 167	479	249	149	154	25	9,395	4,615	3,007	3,146	343
Open continuously	575	242	155	110	32	17,253	11,014	6,911	7,849	703
Ownership and occupancy										
Nongovernment owned	4,781	1,359	846	646	125	67,550	26,909	16,711	17,556	1,424
Owner occupied	2,466	854	544	352	87	30,637	13,400	8,113	8,066	904
Leased to tenant(s)	1,745	416	253	247	30	26,115	9,378	6,036	6,438	280
Owner occupied and leased	349	82	46	44	Q	8,873	4,115	2,557	3,041	Q
Unoccupied	221	Q	Q	Q	N	1,925	Q	Q	Q	N
Government owned	776	230	165	94	19	19,543	11,637	8,440	7,214	577
Federal	33	8	7	1	Q	1,573	933	851	305	Q
State	185	40	27	19	Q	5,539	2,538	1,659	1,546	Q
Local	558	182	131	73	17	12,431	8,166	5,930	5,363	462

Table B33. Cooking energy sources, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	Cooking energy sources used (more than one may apply)				Cooking energy sources used (more than one may apply)					
	All buildings	Buildings with cooking	Electricity	Natural gas	Propane	All buildings	Buildings with cooking	Electricity	Natural gas	Propane
All buildings	5,557	1,589	1,010	740	144	87,093	38,546	25,151	24,770	2,001
Energy sources (more than one may apply)										
Electricity	5,234	1,589	1,010	740	144	84,869	38,546	25,151	24,770	2,001
Natural gas	2,933	1,087	599	740	7	58,725	31,026	18,711	24,770	292
Fuel oil	467	166	110	64	32	20,200	12,694	8,895	8,238	950
District heat	48	14	10	8	Q	5,964	3,154	2,245	1,663	Q
District chilled water	54	9	6	6	Q	4,608	2,084	1,407	1,175	Q
Propane	510	234	137	15	144	7,706	4,209	2,578	1,466	2,001
Other	172	60	37	22	Q	3,826	2,076	1,278	1,226	Q
Water-heating energy sources (more than one may apply)										
Electricity	2,658	810	604	268	77	42,755	18,787	13,898	10,836	923
Natural gas	1,758	795	422	576	5	39,523	23,232	13,806	18,986	199
Fuel oil	77	41	22	7	17	1,911	1,412	876	513	548
District heat	25	7	5	3	N	4,551	2,584	1,832	1,347	N
Propane	142	76	37	Q	58	1,575	976	524	Q	793
Energy end uses (more than one may apply)										
Buildings with space heating	4,722	1,525	969	717	132	80,078	37,771	24,576	24,425	1,877
Buildings with cooling	4,461	1,497	962	712	121	79,294	37,687	24,665	24,434	1,849
Buildings with water heating	4,423	1,573	997	739	142	79,015	38,389	25,034	24,735	1,997
Buildings with cooking	1,589	1,589	1,010	740	144	38,546	38,546	25,151	24,770	2,001
Buildings with manufacturing	259	64	43	20	Q	5,078	1,300	780	782	Q
Buildings with electricity generation	410	202	128	107	25	25,642	16,803	11,443	11,825	916
Food preparation or serving areas in non-food service buildings (more than one may apply)										
Snack bar or concession stand	153	153	120	67	17	9,884	9,884	7,529	6,686	677
Fast food or small restaurant	173	173	99	115	19	9,787	9,787	6,204	7,482	364
Cafeteria or large restaurant	130	130	76	89	11	15,222	15,222	9,855	11,436	805
Commercial kitchen/food preparation area	282	282	152	191	23	16,150	16,150	10,121	12,728	723
Small kitchen area	736	736	535	213	57	14,054	14,054	10,205	7,370	626

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).

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.

Release date: April 2015

Revised date: May 2016

Table B34. Percent of floorspace heated, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	All buildings	Not heated	1 to 50 percent heated	51 to 99 percent heated	100 percent heated	All buildings	Not heated	1 to 50 percent heated	51 to 99 percent heated	100 percent heated
All buildings	5,557	835	697	727	3,298	87,093	7,015	10,130	14,650	55,298
Building floorspace (square feet)										
1,001 to 5,000	2,777	520	301	299	1,657	8,041	1,342	951	914	4,833
5,001 to 10,000	1,229	183	186	184	676	8,900	1,310	1,387	1,338	4,866
10,001 to 25,000	884	86	143	135	520	14,105	1,360	2,365	2,048	8,332
25,001 to 50,000	332	28	36	47	221	11,917	1,007	1,292	1,657	7,962
50,001 to 100,000	199	12	19	36	133	13,918	804	1,359	2,469	9,287
100,001 to 200,000	90	4	8	16	63	12,415	474	1,146	2,163	8,632
200,001 to 500,000	38	Q	4	8	24	10,724	Q	1,131	2,202	7,015
Over 500,000	8	Q	1	2	5	7,074	Q	500	1,859	4,371
Principal building activity										
Education	389	Q	Q	56	314	12,239	Q	Q	1,699	10,178
Food sales	177	Q	Q	46	105	1,252	Q	Q	405	743
Food service	380	Q	37	63	260	1,819	Q	185	368	1,209
Health care	157	Q	Q	13	129	4,155	Q	Q	435	3,564
Inpatient	10	Q	Q	1	8	2,374	Q	Q	269	2,069
Outpatient	147	Q	Q	12	121	1,781	Q	Q	166	1,495
Lodging	158	Q	Q	15	128	5,826	Q	Q	938	4,572
Mercantile	602	30	73	138	361	11,330	536	914	3,302	6,577
Retail (other than mall)	438	27	60	82	270	5,439	351	439	1,236	3,412
Enclosed and strip malls	164	Q	13	57	91	5,890	Q	475	2,066	3,165
Office	1,012	23	73	165	750	15,952	198	758	3,558	11,437
Public assembly	352	22	35	51	244	5,559	236	544	996	3,783
Public order and safety	84	Q	Q	Q	66	1,440	Q	Q	Q	1,200
Religious worship	412	Q	35	43	330	4,557	Q	496	710	3,305
Service	619	90	109	86	334	4,630	474	767	747	2,643
Warehouse and storage	796	375	224	28	168	13,077	3,091	4,737	843	4,407
Other	125	Q	30	Q	61	2,002	Q	408	Q	1,038
Vacant	296	209	33	Q	48	3,256	1,841	639	Q	642
Year constructed										
Before 1920	362	39	65	70	187	3,983	400	705	777	2,101
1920 to 1945	488	75	42	74	296	6,025	498	507	1,314	3,706
1946 to 1959	599	83	81	85	350	7,381	486	927	1,358	4,610
1960 to 1969	639	80	74	82	403	10,362	633	1,094	1,407	7,228
1970 to 1979	684	85	101	76	421	10,846	800	1,378	1,474	7,193
1980 to 1989	915	161	134	121	500	15,230	1,507	2,091	2,991	8,641
1990 to 1999	845	170	101	94	480	13,803	1,414	1,417	2,487	8,485
2000 to 2003	375	53	38	47	237	7,215	508	741	1,164	4,803
2004 to 2007	347	56	31	40	220	6,524	552	722	1,013	4,237
2008 to 2012	303	33	30	37	203	5,723	218	547	664	4,294

Table B34. Percent of floorspace heated, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	All buildings	Not heated	1 to 50 percent heated	51 to 99 percent heated	100 percent heated	All buildings	Not heated	1 to 50 percent heated	51 to 99 percent heated	100 percent heated
All buildings	5,557	835	697	727	3,298	87,093	7,015	10,130	14,650	55,298
Census region and division										
Northeast	805	79	86	137	503	15,534	481	1,132	2,873	11,049
New England	302	38	32	53	179	4,302	212	Q	805	2,910
Middle Atlantic	504	41	55	84	324	11,232	269	757	2,068	8,138
Midwest	1,237	141	103	137	856	18,919	864	1,310	2,239	14,506
East North Central	735	65	56	76	538	12,742	502	734	1,545	9,961
West North Central	502	76	47	61	318	6,178	362	576	694	4,545
South	2,247	405	297	267	1,278	34,279	3,781	3,979	6,218	20,302
South Atlantic	1,091	218	137	127	610	17,981	2,098	2,193	3,098	10,592
East South Central	370	34	40	44	252	4,904	212	469	1,236	2,987
West South Central	786	153	121	96	416	11,394	1,471	1,317	1,883	6,724
West	1,267	210	211	185	661	18,360	1,890	3,709	3,320	9,441
Mountain	338	45	32	32	230	4,981	277	592	658	3,453
Pacific	929	165	179	153	432	13,379	1,612	3,117	2,662	5,988
Climate region¹										
Very cold/Cold	2,031	239	193	239	1,360	31,898	1,430	2,315	4,050	24,104
Mixed-humid	1,743	199	188	231	1,125	27,873	1,157	2,485	5,425	18,806
Mixed-dry/Hot-dry	837	161	185	139	352	12,037	1,553	3,165	2,434	4,885
Hot-humid	799	205	114	92	387	12,831	2,741	1,752	2,146	6,193
Marine	147	Q	18	Q	73	2,454	Q	414	595	1,310
Number of floors										
One	3,836	723	489	418	2,206	39,809	5,296	5,882	5,845	22,786
Two	1,158	86	151	170	750	20,206	795	2,788	2,862	13,761
Three	374	Q	42	93	220	8,140	Q	583	1,500	5,812
Four to nine	177	6	15	42	114	13,535	543	690	2,606	9,697
Ten or more	13	Q	Q	4	8	5,404	Q	Q	1,836	3,242
Number of workers (main shift)										
Fewer than 5	2,892	708	366	331	1,487	17,751	4,820	2,527	1,904	8,500
5 to 9	1,085	65	165	153	702	8,973	481	2,012	1,369	5,111
10 to 19	731	39	92	107	493	9,623	652	1,543	1,323	6,104
20 to 49	513	19	57	74	362	14,514	389	1,988	2,561	9,576
50 to 99	206	Q	10	41	152	13,476	Q	968	2,870	9,345
100 to 249	93	Q	5	14	74	10,941	Q	648	1,721	8,436
250 or more	37	Q	1	7	29	11,815	Q	444	2,900	8,226
Weekly operating hours										
Fewer than 40	1,149	334	131	94	590	8,220	2,457	908	651	4,205
40 to 48	1,346	116	225	178	827	15,828	961	2,656	2,655	9,556
49 to 60	1,244	100	169	167	807	20,529	1,164	2,753	2,894	13,718
61 to 84	764	92	98	136	438	15,867	719	1,751	3,556	9,841
85 to 167	479	65	35	91	288	9,395	684	874	1,843	5,994
Open continuously	575	128	38	61	349	17,253	1,030	1,188	3,052	11,983

Table B34. Percent of floorspace heated, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	Not heated	1 to 50 percent heated	51 to 99 percent heated	100 percent heated	All buildings	Not heated	1 to 50 percent heated	51 to 99 percent heated	100 percent heated
All buildings	5,557	835	697	727	3,298	87,093	7,015	10,130	14,650	55,298
Energy sources (more than one may apply)										
Electricity	5,234	517	696	725	3,297	84,869	4,816	10,114	14,645	55,293
Natural gas	2,933	45	322	465	2,101	58,725	597	5,716	11,147	41,265
Fuel oil	467	12	65	58	332	20,200	530	2,005	3,815	13,849
District heat	48	Q	Q	7	40	5,964	Q	Q	1,126	4,720
District chilled water	54	Q	Q	9	41	4,608	Q	Q	596	3,855
Propane	510	19	91	70	330	7,706	374	1,463	1,135	4,734
Other	172	N	20	37	115	3,826	N	340	926	2,559
Space-heating energy sources (more than one may apply)										
Electricity	2,858	N	484	463	1,911	49,030	N	6,797	9,640	32,593
Natural gas	2,612	N	285	420	1,907	49,511	N	4,940	9,298	35,274
Fuel oil	270	N	47	36	187	4,351	N	751	606	2,994
District heat	48	N	Q	7	40	5,925	N	Q	1,126	4,683
Propane	342	N	59	55	228	3,067	N	490	659	1,918
Other	101	N	Q	Q	66	1,010	N	Q	Q	737
Primary space-heating energy source										
Electricity	1,819	N	369	275	1,175	26,205	N	5,013	4,903	16,289
Natural gas	2,322	N	244	370	1,709	42,988	N	4,123	7,919	30,946
Fuel oil	205	N	31	28	146	2,542	N	Q	319	1,767
District heat	47	N	Q	7	40	5,797	N	Q	1,067	4,614
Propane	261	N	45	33	183	1,948	N	370	318	1,259
Other	67	N	Q	Q	46	598	N	Q	Q	422
Energy end uses (more than one may apply)										
Buildings with space heating	4,722	N	697	727	3,298	80,078	N	10,130	14,650	55,298
Buildings with cooling	4,461	189	584	676	3,012	79,294	2,459	9,164	14,438	53,232
Buildings with water heating	4,423	186	549	653	3,034	79,015	2,432	8,908	13,930	53,746
Buildings with cooking	1,589	64	134	244	1,146	38,546	775	2,020	8,040	27,711
Buildings with manufacturing	259	Q	73	40	121	5,078	Q	1,247	1,037	2,506
Buildings with electricity generation	410	Q	35	56	308	25,642	487	1,696	4,679	18,779
Percent of floorspace cooled										
Not cooled	1,096	646	113	51	286	7,799	4,556	966	212	2,066
1 to 50	1,173	75	496	131	471	18,891	1,034	7,528	1,893	8,435
51 to 99	897	22	40	482	353	22,728	434	779	11,180	10,334
100	2,391	92	48	63	2,188	37,676	991	857	1,365	34,463
Percent lit when open										
Zero	70	63	Q	N	Q	322	266	Q	N	Q
1 to 50	1,099	136	325	138	500	12,628	1,261	4,056	1,618	5,693
51 to 99	1,666	78	144	405	1,039	34,814	1,242	2,861	9,145	21,566
100	2,222	163	197	169	1,692	35,726	1,522	2,939	3,807	27,458
Building never open/electricity not used	501	395	28	Q	63	3,603	2,724	253	Q	547

Table B34. Percent of floorspace heated, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	All buildings	Not heated	1 to 50 percent heated	51 to 99 percent heated	100 percent heated	All buildings	Not heated	1 to 50 percent heated	51 to 99 percent heated	100 percent heated
All buildings	5,557	835	697	727	3,298	87,093	7,015	10,130	14,650	55,298
Heating equipment (more than one may apply)										
Heat pumps	628	N	81	99	448	11,846	N	1,390	2,531	7,925
Furnaces	755	N	76	104	575	8,654	N	931	1,628	6,095
Individual space heaters	1,247	N	233	210	805	20,766	N	2,964	4,499	13,303
District heat	48	N	Q	7	40	5,925	N	Q	1,126	4,683
Boilers	544	N	34	102	407	22,443	N	1,016	4,532	16,895
Packaged heating units	2,802	N	381	456	1,965	49,188	N	6,769	9,295	33,125
Other	62	N	Q	13	39	1,574	N	Q	550	980
HVAC conservation features (more than one may apply)										
Economizer cycle	601	12	39	110	440	30,749	295	1,555	6,253	22,646
Regular HVAC maintenance	3,178	99	354	496	2,228	69,244	1,727	6,828	12,492	48,197
Building automation system (BAS) ²	781	13	58	139	570	37,051	540	1,910	7,654	26,946
Equipment usage reduced when building not in full use (more than one may apply)										
Heating	3,699	N	533	597	2,568	63,167	N	7,577	12,590	43,000
Cooling	3,517	125	469	553	2,369	62,516	1,613	7,094	12,241	41,568
Lighting	4,757	350	640	684	3,082	78,594	3,639	9,381	13,524	52,050

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.

Release date: April 2015

Revised date: May 2016

Table B35. Percent of floorspace cooled, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled
All buildings	5,557	1,096	1,173	897	2,391	87,093	7,799	18,891	22,728	37,676
Building floorspace (square feet)										
1,001 to 5,000	2,777	716	465	310	1,286	8,041	1,917	1,430	935	3,759
5,001 to 10,000	1,229	225	308	236	459	8,900	1,596	2,249	1,738	3,316
10,001 to 25,000	884	110	248	173	352	14,105	1,747	3,943	2,766	5,648
25,001 to 50,000	332	30	89	76	137	11,917	1,105	3,123	2,679	5,011
50,001 to 100,000	199	13	36	58	92	13,918	849	2,489	4,077	6,503
100,001 to 200,000	90	Q	17	25	46	12,415	Q	2,432	3,496	6,225
200,001 to 500,000	38	Q	8	15	15	10,724	Q	2,150	4,007	4,360
Over 500,000	8	Q	1	3	3	7,074	Q	1,076	3,029	2,853
Principal building activity										
Education	389	28	42	73	246	12,239	428	1,810	3,532	6,469
Food sales	177	Q	Q	46	99	1,252	Q	Q	576	502
Food service	380	Q	41	85	233	1,819	Q	184	449	1,080
Health care	157	Q	Q	31	114	4,155	Q	Q	1,021	3,020
Inpatient	10	N	Q	2	7	2,374	N	Q	682	1,664
Outpatient	147	Q	Q	29	107	1,781	Q	Q	339	1,356
Lodging	158	Q	11	37	97	5,826	Q	377	1,764	3,559
Mercantile	602	42	129	154	278	11,330	209	1,480	4,324	5,317
Retail (other than mall)	438	42	110	87	198	5,439	209	888	1,518	2,824
Enclosed and strip malls	164	N	18	67	79	5,890	N	592	2,805	2,493
Office	1,012	Q	136	237	622	15,952	Q	1,305	5,750	8,828
Public assembly	352	57	56	69	170	5,559	324	981	1,589	2,665
Public order and safety	84	Q	32	16	26	1,440	Q	290	615	479
Religious worship	412	36	45	64	266	4,557	286	633	1,024	2,614
Service	619	183	293	38	104	4,630	857	2,446	514	813
Warehouse and storage	796	405	290	29	72	13,077	2,958	7,911	722	1,487
Other	125	Q	41	13	36	2,002	Q	654	605	562
Vacant	296	233	29	Q	28	3,256	2,130	600	Q	281
Year constructed										
Before 1920	362	87	100	77	98	3,983	896	1,161	1,110	816
1920 to 1945	488	121	99	84	184	6,025	810	1,402	1,752	2,061
1946 to 1959	599	122	141	93	243	7,381	702	1,748	2,287	2,644
1960 to 1969	639	100	136	106	297	10,362	728	2,711	2,731	4,193
1970 to 1979	684	121	148	109	306	10,846	815	2,400	2,665	4,966
1980 to 1989	915	185	203	130	397	15,230	1,220	3,285	3,805	6,921
1990 to 1999	845	182	157	128	378	13,803	1,401	2,445	4,184	5,774
2000 to 2003	375	55	78	63	179	7,215	276	1,494	1,742	3,703
2004 to 2007	347	54	60	61	172	6,524	453	1,220	1,403	3,448
2008 to 2012	303	68	51	46	137	5,723	498	1,026	1,050	3,150

Table B35. Percent of floorspace cooled, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled
All buildings	5,557	1,096	1,173	897	2,391	87,093	7,799	18,891	22,728	37,676
Census region and division										
Northeast	805	213	196	156	240	15,534	1,585	3,558	5,081	5,311
New England	302	115	57	57	72	4,302	819	1,019	1,323	1,141
Middle Atlantic	504	99	139	99	168	11,232	765	2,539	3,758	4,170
Midwest	1,237	267	281	177	512	18,919	1,776	4,741	4,697	7,706
East North Central	735	134	174	112	314	12,742	1,067	3,289	3,408	4,977
West North Central	502	133	107	65	197	6,178	709	1,451	1,289	2,728
South	2,247	355	422	330	1,139	34,279	2,545	6,189	8,462	17,083
South Atlantic	1,091	156	198	171	567	17,981	887	3,237	4,695	9,162
East South Central	370	35	62	60	213	4,904	194	969	1,642	2,098
West South Central	786	164	163	99	359	11,394	1,464	1,982	2,126	5,823
West	1,267	260	273	234	500	18,360	1,894	4,403	4,487	7,576
Mountain	338	79	54	35	171	4,981	492	828	1,054	2,608
Pacific	929	181	220	199	329	13,379	1,402	3,576	3,434	4,968
Climate region¹										
Very cold/Cold	2,031	533	454	316	727	31,898	3,670	7,561	8,314	12,354
Mixed-humid	1,743	262	344	282	856	27,873	1,508	5,220	8,333	12,812
Mixed-dry/Hot-dry	837	155	Q	160	309	12,037	1,150	3,505	2,734	4,648
Hot-humid	799	100	144	105	450	12,831	1,208	2,191	2,562	6,871
Marine	147	Q	17	Q	49	2,454	263	415	785	990
Number of floors										
One	3,836	882	782	482	1,690	39,809	5,653	10,371	7,750	16,035
Two	1,158	164	275	227	492	20,206	1,194	5,511	4,834	8,666
Three	374	36	85	121	132	8,140	405	1,378	2,590	3,766
Four to nine	177	14	30	61	72	13,535	499	1,426	4,713	6,896
Ten or more	13	Q	Q	6	5	5,404	Q	Q	2,840	2,313
Number of workers (main shift)										
Fewer than 5	2,892	960	593	321	1,018	17,751	6,156	4,108	2,234	5,253
5 to 9	1,085	86	254	169	576	8,973	735	2,862	1,525	3,851
10 to 19	731	32	175	174	351	9,623	433	3,207	2,227	3,757
20 to 49	513	15	112	130	256	14,514	295	3,724	3,822	6,674
50 to 99	206	Q	26	64	114	13,476	Q	2,240	4,519	6,565
100 to 249	93	Q	12	27	54	10,941	Q	1,977	3,543	5,394
250 or more	37	N	2	12	23	11,815	N	775	4,858	6,182
Weekly operating hours										
Fewer than 40	1,149	459	158	103	429	8,220	3,137	1,284	972	2,827
40 to 48	1,346	178	364	223	582	15,828	1,316	4,369	4,097	6,046
49 to 60	1,244	160	351	189	544	20,529	1,233	5,952	4,373	8,972
61 to 84	764	95	162	176	332	15,867	697	3,508	4,967	6,695
85 to 167	479	60	70	103	245	9,395	530	1,874	2,759	4,231
Open continuously	575	144	68	104	259	17,253	886	1,903	5,560	8,904

Table B35. Percent of floorspace cooled, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled
All buildings	5,557	1,096	1,173	897	2,391	87,093	7,799	18,891	22,728	37,676
Energy sources (more than one may apply)										
Electricity	5,234	773	1,173	897	2,391	84,869	5,575	18,891	22,728	37,676
Natural gas	2,933	233	697	592	1,411	58,725	1,826	13,031	17,106	26,762
Fuel oil	467	106	110	82	169	20,200	891	3,199	7,075	9,035
District heat	48	Q	4	17	22	5,964	Q	340	2,717	2,845
District chilled water	54	N	Q	18	36	4,608	N	Q	1,953	2,569
Propane	510	90	164	75	181	7,706	645	2,747	1,669	2,646
Other	172	46	53	26	47	3,826	253	1,204	1,245	1,123
Cooling energy sources (more than one may apply)										
Electricity	4,413	N	1,172	885	2,355	76,034	N	18,815	21,607	35,612
Natural gas	12	N	Q	1	9	732	N	Q	166	415
District chilled water	54	N	Q	18	36	4,608	N	Q	1,953	2,569
Energy end uses (more than one may apply)										
Buildings with space heating	4,722	451	1,098	875	2,299	80,078	3,243	17,856	22,293	36,685
Buildings with cooling	4,461	N	1,173	897	2,391	79,294	N	18,891	22,728	37,676
Buildings with water heating	4,423	326	1,028	835	2,235	79,015	2,601	17,607	21,965	36,842
Buildings with cooking	1,589	92	267	344	886	38,546	859	4,886	13,152	19,650
Buildings with manufacturing	259	41	113	37	68	5,078	396	2,390	1,122	1,170
Buildings with electricity generation	410	25	81	96	208	25,642	292	3,441	9,057	12,852
Percent of floorspace heated										
Not heated	835	646	75	22	92	7,015	4,556	1,034	434	991
1 to 50	697	113	496	40	48	10,130	966	7,528	779	857
51 to 99	727	51	131	482	63	14,650	212	1,893	11,180	1,365
100	3,298	286	471	353	2,188	55,298	2,066	8,435	10,334	34,463
Percent lit when open										
Zero	70	63	Q	N	Q	322	246	Q	N	Q
1 to 50	1,099	196	451	135	316	12,628	1,688	5,274	1,921	3,746
51 to 99	1,666	111	294	517	744	34,814	1,039	6,153	14,102	13,519
100	2,222	283	405	235	1,298	35,726	1,750	7,217	6,558	20,202
Building never open/electricity not used	501	443	Q	Q	31	3,603	3,076	Q	Q	187
Cooling equipment (more than one may apply)										
Residential-type central air conditioners	1,546	N	403	312	831	14,765	N	5,109	3,376	6,280
Heat pumps	692	N	146	147	399	12,538	N	2,214	3,930	6,393
Individual air conditioners	709	N	326	123	260	12,420	N	4,303	3,662	4,455
District chilled water	54	N	Q	18	36	4,608	N	Q	1,953	2,569
Central chillers	163	N	8	58	97	17,041	N	918	7,090	9,033
Packaged air conditioning units	1,909	N	394	435	1,081	45,153	N	10,569	13,777	20,807
Swamp coolers	109	N	36	20	53	1,918	N	646	554	718
Other	Q	N	Q	Q	Q	328	N	Q	Q	Q

Table B35. Percent of floorspace cooled, number of buildings and floorspace, 2012

	Number of buildings (thousand)				Total floorspace (million square feet)					
	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled
All buildings	5,557	1,096	1,173	897	2,391	87,093	7,799	18,891	22,728	37,676
HVAC conservation features (more than one may apply)										
Economizer cycle	601	N	92	170	339	30,749	N	3,816	11,589	15,344
Regular HVAC maintenance	3,178	155	649	677	1,696	69,244	1,406	13,943	20,197	33,699
Building automation system (BAS) ²	781	24	112	196	448	37,051	359	3,670	12,915	20,106
Equipment usage reduced when building not in full use (more than one may apply)										
Heating	3,699	295	880	709	1,814	63,167	2,081	14,182	18,109	28,795
Cooling	3,517	N	925	711	1,881	62,516	N	14,471	18,352	29,693
Lighting	4,757	561	1,108	853	2,234	78,594	4,083	17,923	21,167	35,421

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.

Release date: April 2015

Revised date: May 2016

Table B36. Percent of floorspace lit when open, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit
		percent	lit	percent	lit		percent	lit	percent	lit
All buildings	5,557	570	1,099	1,666	2,222	87,093	3,925	12,628	34,814	35,726
Building floorspace (square feet)										
1,001 to 5,000	2,777	380	564	638	1,196	8,041	963	1,680	1,924	3,474
5,001 to 10,000	1,229	117	259	418	436	8,900	810	1,879	3,060	3,151
10,001 to 25,000	884	53	182	331	317	14,105	885	2,824	5,326	5,070
25,001 to 50,000	332	Q	54	126	141	11,917	Q	1,885	4,519	5,071
50,001 to 100,000	199	Q	29	92	72	13,918	Q	1,956	6,445	5,043
100,001 to 200,000	90	Q	8	40	41	12,415	Q	1,141	5,539	5,560
200,001 to 500,000	38	Q	3	18	16	10,724	Q	837	5,220	4,552
Over 500,000	8	Q	Q	3	4	7,074	Q	Q	2,781	3,806
Principal building activity										
Education	389	N	30	126	233	12,239	N	530	5,777	5,932
Food sales	177	N	Q	54	104	1,252	N	Q	349	815
Food service	380	N	57	104	219	1,819	N	275	596	949
Health care	157	N	Q	68	73	4,155	N	Q	1,695	2,330
Inpatient	10	N	Q	3	7	2,374	N	Q	958	1,392
Outpatient	147	N	Q	65	67	1,781	N	Q	737	938
Lodging	158	Q	51	47	60	5,826	Q	1,059	2,596	2,163
Mercantile	602	Q	73	275	251	11,330	Q	695	6,509	4,116
Retail (other than mall)	438	Q	65	120	249	5,439	Q	431	1,322	3,678
Enclosed and strip malls	164	N	Q	155	Q	5,890	N	Q	5,188	438
Office	1,012	N	227	399	386	15,952	N	1,732	6,723	7,497
Public assembly	352	Q	84	120	135	5,559	Q	728	2,699	2,093
Public order and safety	84	Q	Q	24	32	1,440	Q	Q	578	650
Religious worship	412	Q	101	146	163	4,557	Q	1,665	1,654	1,236
Service	619	Q	121	148	311	4,630	Q	813	1,240	2,304
Warehouse and storage	796	233	239	126	197	13,077	1,016	3,750	3,431	4,881
Other	125	Q	32	28	53	2,002	Q	323	900	708
Vacant	296	260	30	Q	Q	3,256	2,479	656	Q	Q
Year constructed										
Before 1920	362	47	117	112	86	3,983	335	1,278	1,529	841
1920 to 1945	488	59	120	132	178	6,025	376	884	2,193	2,572
1946 to 1959	599	78	130	183	208	7,381	321	1,351	3,215	2,494
1960 to 1969	639	42	123	217	258	10,362	329	1,266	4,594	4,174
1970 to 1979	684	60	124	232	268	10,846	539	1,313	4,445	4,549
1980 to 1989	915	88	179	249	399	15,230	563	2,222	6,151	6,294
1990 to 1999	845	115	120	223	387	13,803	1,002	1,395	4,726	6,680
2000 to 2003	375	Q	70	115	164	7,215	Q	1,008	3,399	2,683
2004 to 2007	347	Q	65	111	143	6,524	Q	1,057	2,520	2,801
2008 to 2012	303	Q	52	92	130	5,723	Q	854	2,043	2,637

Table B36. Percent of floorspace lit when open, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	Not lit when open ¹	1 to 50 lit	51 to 99 lit	100 lit	All buildings	Not lit when open ¹	1 to 50 lit	51 to 99 lit	100 lit
		percent	percent	percent	percent		percent	percent	percent	percent
All buildings	5,557	570	1,099	1,666	2,222	87,093	3,925	12,628	34,814	35,726
Census region and division										
Northeast	805	68	170	259	308	15,534	480	2,097	6,288	6,670
New England	302	Q	55	115	98	4,302	Q	677	2,099	1,286
Middle Atlantic	504	34	115	145	210	11,232	240	1,420	4,189	5,384
Midwest	1,237	136	292	382	427	18,919	851	2,870	7,932	7,266
East North Central	735	67	171	245	252	12,742	491	1,840	5,616	4,794
West North Central	502	69	121	137	175	6,178	360	1,030	2,315	2,472
South	2,247	242	379	614	1,011	34,279	1,832	4,755	13,288	14,405
South Atlantic	1,091	101	184	319	486	17,981	588	2,375	7,284	7,734
East South Central	370	28	60	80	201	4,904	Q	817	1,665	2,233
West South Central	786	112	135	215	324	11,394	1,055	1,562	4,339	4,438
West	1,267	123	258	411	476	18,360	761	2,907	7,307	7,385
Mountain	338	52	57	109	121	4,981	314	541	1,847	2,279
Pacific	929	71	201	302	355	13,379	447	2,366	5,460	5,107
Climate region²										
Very cold/Cold	2,031	230	449	642	710	31,898	1,479	4,637	13,284	12,498
Mixed-humid	1,743	169	300	494	781	27,873	846	3,702	10,873	12,453
Mixed-dry/Hot-dry	837	67	186	248	336	12,037	531	2,225	4,849	4,432
Hot-humid	799	89	134	229	347	12,831	993	1,689	4,790	5,359
Marine	147	Q	29	53	48	2,454	Q	377	1,018	984
Number of floors										
One	3,836	472	647	1,042	1,675	39,809	2,814	5,680	14,604	16,711
Two	1,158	72	301	399	386	20,206	542	3,641	7,751	8,271
Three	374	Q	110	144	99	8,140	Q	1,600	3,465	2,918
Four to nine	177	5	41	74	56	13,535	368	1,571	6,414	5,181
Ten or more	13	Q	Q	7	5	5,404	Q	Q	2,579	2,644
Number of workers (main shift)										
Fewer than 5	2,892	565	754	616	957	17,751	3,866	5,292	4,069	4,524
5 to 9	1,085	Q	201	372	508	8,973	Q	2,241	3,117	3,567
10 to 19	731	Q	83	284	364	9,623	Q	1,545	3,883	4,186
20 to 49	513	Q	45	234	233	14,514	Q	1,750	6,751	6,011
50 to 99	206	N	12	103	90	13,476	N	908	6,773	5,795
100 to 249	93	N	3	44	46	10,941	N	518	5,492	4,932
250 or more	37	N	1	13	23	11,815	N	375	4,729	6,711
Weekly operating hours										
Fewer than 40	1,149	389	216	223	321	8,220	3,077	1,436	1,745	1,962
40 to 48	1,346	Q	352	435	528	15,828	Q	3,438	6,579	5,676
49 to 60	1,244	Q	217	419	587	20,529	Q	2,849	7,798	9,754
61 to 84	764	Q	102	292	337	15,867	Q	1,643	8,185	5,927
85 to 167	479	Q	60	158	239	9,395	Q	928	3,748	4,656
Open continuously	575	77	151	138	209	17,253	409	2,335	6,758	7,752

Table B36. Percent of floorspace lit when open, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit
		Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit
All buildings	5,557	570	1,099	1,666	2,222	87,093	3,925	12,628	34,814	35,726
Energy sources (more than one may apply)										
Electricity	5,234	247	1,099	1,666	2,222	84,869	1,700	12,628	34,814	35,726
Natural gas	2,933	55	562	1,051	1,265	58,725	581	7,333	25,435	25,376
Fuel oil	467	Q	93	155	208	20,200	Q	1,820	8,903	9,351
District heat	48	Q	8	18	21	5,964	Q	489	2,799	2,567
District chilled water	54	Q	Q	21	24	4,608	Q	Q	2,214	1,976
Propane	510	Q	112	155	224	7,706	Q	1,231	2,997	3,410
Other	172	Q	45	53	69	3,826	Q	487	1,608	1,689
Energy end uses (more than one may apply)										
Buildings with space heating	4,722	112	963	1,588	2,059	80,078	935	11,367	33,572	34,204
Buildings with cooling	4,461	64	902	1,556	1,939	79,294	602	10,941	33,775	33,976
Buildings with water heating	4,423	57	900	1,538	1,927	79,015	602	10,877	33,513	34,023
Buildings with cooking	1,589	Q	311	567	687	38,546	Q	3,696	17,766	16,991
Buildings with manufacturing	259	Q	63	84	106	5,078	Q	870	2,038	2,137
Buildings with electricity generation	410	Q	65	157	183	25,642	Q	1,811	11,756	12,007
Percent of floorspace heated										
Not heated	835	458	136	78	163	7,015	2,990	1,261	1,242	1,522
1 to 50	697	31	325	144	197	10,130	274	4,056	2,861	2,939
51 to 99	727	Q	138	405	169	14,650	Q	1,618	9,145	3,807
100	3,298	67	500	1,039	1,692	55,298	581	5,693	21,566	27,458
Percent of floorspace cooled										
Not cooled	1,096	506	196	111	283	7,799	3,323	1,688	1,039	1,750
1 to 50	1,173	Q	451	294	405	18,891	Q	5,274	6,153	7,217
51 to 99	897	Q	135	517	235	22,728	Q	1,921	14,102	6,558
100	2,391	32	316	744	1,298	37,676	208	3,746	13,519	20,202
Percent lit during off hours										
Zero	2,489	193	620	610	1,066	24,746	1,246	5,450	6,900	11,150
1 to 50	2,441	38	449	980	973	50,753	394	6,702	24,449	19,207
51 to 100	202	Q	Q	57	141	6,926	Q	Q	2,942	3,908
Building always open with no "off hours"	102	Q	26	19	41	2,443	Q	406	523	1,461
Electricity not used	323	323	N	N	N	2,225	2,225	N	N	N
Lighting equipment types (more than one may apply)										
Incandescent	1,826	Q	391	724	699	38,406	Q	4,867	19,106	14,283
Standard fluorescent	4,649	30	985	1,570	2,065	80,081	335	11,798	33,816	34,132
Compact fluorescent	2,302	Q	478	920	895	53,816	Q	6,202	25,376	22,087
High-intensity discharge (HID)	525	Q	78	227	220	23,396	Q	2,418	11,003	9,929
Halogen	905	Q	165	413	326	28,059	Q	2,884	15,045	10,084
LED	473	Q	76	222	174	22,071	Q	1,937	11,847	8,278
Other	10	N	Q	Q	Q	446	N	Q	Q	Q

Table B36. Percent of floorspace lit when open, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit
All buildings	5,557	570	1,099	1,666	2,222	87,093	3,925	12,628	34,814	35,726
Window and interior lighting features (more than one may apply)										
Multipaned windows	3,012	127	561	1,069	1,255	60,362	1,330	7,447	26,198	25,386
Tinted window glass	1,875	61	310	708	796	45,025	1,101	5,092	20,167	18,666
Reflective window glass	549	Q	102	214	223	15,908	Q	1,736	7,595	6,406
External overhangs or awnings	1,867	58	326	742	741	32,188	412	3,938	15,506	12,332
Skylights or atriums	591	19	113	258	202	22,261	451	2,214	11,195	8,401
Light scheduling	918	Q	136	417	361	30,263	Q	2,559	15,354	12,299
Occupancy sensors	813	Q	107	400	303	35,871	Q	3,557	17,580	14,648
Multi-level lighting or dimming	349	Q	67	173	109	14,534	Q	1,336	7,825	5,349
Daylight harvesting	125	Q	22	52	49	6,114	Q	614	2,961	2,524
Demand responsive lighting	176	N	49	80	47	4,738	N	656	2,791	1,291
Building automation system (BAS) for lighting ³	208	Q	11	106	90	12,068	Q	542	6,670	4,832
Equipment usage reduced when building not in full use (more than one may apply)										
Heating	3,699	68	743	1,300	1,588	63,167	679	8,662	27,700	26,127
Cooling	3,517	48	693	1,284	1,491	62,516	498	8,345	27,927	25,746
Lighting	4,757	N	995	1,631	2,131	78,594	N	11,135	33,897	33,563

¹Not lit when open includes buildings that were zero percent lit when open, buildings that were never open, and buildings that did not use any electricity. Some buildings that were never open, such as vacant buildings, still used some lighting.

²These 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).

³In 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.

Release date: April 2015

Revised date: May 2016

Table B37. Heated, cooled, and lit buildings, floorspace, 2012

	Total floorspace (million square feet)						
	Total floor-space in all buildings	Heated buildings		Cooled buildings		Lit buildings	
		Total floor- space ¹	Heated floor- space ²	Total floor- space ¹	Cooled floor- space ²	Total floor- space ¹	Lit floor- space ²
All buildings	87,093	80,078	70,053	79,294	60,998	83,569	68,729
Building floorspace (square feet)							
1,001 to 5,000	8,041	6,699	5,833	6,124	4,916	7,130	5,590
5,001 to 10,000	8,900	7,590	6,316	7,304	5,327	8,152	6,288
10,001 to 25,000	14,105	12,744	10,540	12,357	8,840	13,250	10,251
25,001 to 50,000	11,917	10,911	9,638	10,813	7,968	11,542	9,329
50,001 to 100,000	13,918	13,114	11,649	13,069	10,351	13,564	11,088
100,001 to 200,000	12,415	11,941	10,819	12,152	9,763	12,282	10,539
200,001 to 500,000	10,724	10,348	9,124	10,518	8,161	10,634	9,236
Over 500,000	7,074	6,730	6,133	6,958	5,671	7,014	6,407
Principal building activity							
Education	12,239	12,099	11,701	11,811	9,910	12,239	11,005
Food sales	1,252	1,196	1,092	1,190	987	1,252	1,162
Food service	1,819	1,762	1,589	1,712	1,508	1,819	1,533
Health care	4,155	4,109	3,973	4,148	3,935	4,155	3,800
Inpatient	2,374	2,354	2,314	2,374	2,275	2,374	2,234
Outpatient	1,781	1,754	1,659	1,774	1,660	1,781	1,565
Lodging	5,826	5,696	5,427	5,700	5,176	5,817	4,669
Mercantile	11,330	10,794	9,620	11,121	9,380	11,320	9,875
Retail (other than mall)	5,439	5,088	4,606	5,230	4,351	5,430	4,876
Enclosed and strip malls	5,890	5,706	5,014	5,890	5,029	5,890	4,999
Office	15,952	15,753	14,675	15,882	14,095	15,952	13,696
Public assembly	5,559	5,323	4,795	5,235	4,276	5,527	4,622
Public order and safety	1,440	1,391	1,293	1,384	1,036	1,414	1,193
Religious worship	4,557	4,511	4,074	4,271	3,586	4,557	3,099
Service	4,630	4,157	3,449	3,773	1,859	4,379	3,563
Warehouse and storage	13,077	9,987	5,997	10,120	3,426	12,079	8,621
Other	2,002	1,886	1,519	1,820	1,242	1,930	1,585
Vacant	3,256	1,415	850	1,125	582	1,128	305
Year constructed							
Before 1920	3,983	3,583	2,931	3,087	1,995	3,715	2,520
1920 to 1945	6,025	5,527	4,944	5,215	3,828	5,774	4,680
1946 to 1959	7,381	6,895	6,029	6,679	4,967	7,087	5,654
1960 to 1969	10,362	9,730	8,688	9,634	7,046	10,061	8,422
1970 to 1979	10,846	10,045	8,771	10,031	7,721	10,354	8,655
1980 to 1989	15,230	13,723	11,608	14,011	10,862	14,688	12,051
1990 to 1999	13,803	12,389	10,880	12,402	9,830	12,856	11,075
2000 to 2003	7,215	6,707	5,984	6,939	5,522	7,100	5,800
2004 to 2007	6,524	5,972	5,255	6,071	4,897	6,378	5,256
2008 to 2012	5,723	5,505	4,963	5,225	4,331	5,556	4,615

Table B37. Heated, cooled, and lit buildings, floorspace, 2012

	Total floorspace (million square feet)						
	Total floor-space in all buildings	Heated buildings		Cooled buildings		Lit buildings	
		Total floor-space ¹	Heated floor-space ²	Total floor-space ¹	Cooled floor-space ²	Total floor-space ¹	Lit floor-space ²
All buildings	87,093	80,078	70,053	79,294	60,998	83,569	68,729
Census region and division							
Northeast	15,534	15,053	13,754	13,949	10,340	15,071	12,570
New England	4,302	4,090	3,700	3,482	2,461	4,062	3,236
Middle Atlantic	11,232	10,963	10,054	10,467	7,879	11,009	9,334
Midwest	18,919	18,055	16,707	17,144	12,736	18,190	14,834
East North Central	12,742	12,240	11,467	11,675	8,574	12,323	10,072
West North Central	6,178	5,815	5,241	5,469	4,163	5,867	4,762
South	34,279	30,499	26,530	31,734	25,647	32,621	27,067
South Atlantic	17,981	15,883	13,817	17,094	13,891	17,449	14,594
East South Central	4,904	4,692	4,169	4,710	3,691	4,726	3,917
West South Central	11,394	9,923	8,544	9,931	8,065	10,446	8,556
West	18,360	16,471	13,061	16,467	12,274	17,687	14,257
Mountain	4,981	4,704	4,157	4,489	3,667	4,677	3,974
Pacific	13,379	11,767	8,904	11,978	8,607	13,010	10,283
Climate region³							
Very cold/Cold	31,898	30,469	28,057	28,228	21,019	30,542	25,067
Mixed-humid	27,873	26,716	24,044	26,365	21,026	27,096	22,812
Mixed-dry/Hot-dry	12,037	10,484	7,628	10,887	7,692	11,670	9,059
Hot-humid	12,831	10,090	8,390	11,624	9,529	11,881	9,851
Marine	2,454	2,319	1,934	2,190	1,732	2,381	1,939
Number of floors							
One	39,809	34,513	28,983	34,156	24,766	37,113	30,598
Two	20,206	19,411	16,889	19,012	13,955	19,726	15,943
Three	8,140	7,896	7,187	7,734	6,213	8,055	6,239
Four to nine	13,535	12,992	12,096	13,036	11,248	13,307	11,040
Ten or more	5,404	5,265	4,897	5,356	4,816	5,368	4,910
Number of workers (main shift)							
Fewer than 5	17,751	12,931	10,634	11,595	8,033	14,286	9,312
5 to 9	8,973	8,492	6,675	8,238	5,710	8,925	6,849
10 to 19	9,623	8,970	7,512	9,190	6,270	9,614	7,822
20 to 49	14,514	14,126	12,147	14,219	10,636	14,512	12,133
50 to 99	13,476	13,184	12,156	13,323	10,931	13,476	11,911
100 to 249	10,941	10,805	10,065	10,913	8,849	10,941	9,761
250 or more	11,815	11,570	10,864	11,815	10,570	11,815	10,941
Weekly operating hours							
Fewer than 40	8,220	5,763	4,938	5,083	3,914	5,514	3,906
40 to 48	15,828	14,867	12,442	14,512	10,368	15,693	12,229
49 to 60	20,529	19,365	16,689	19,297	14,009	20,401	16,966
61 to 84	15,867	15,148	13,308	15,170	11,661	15,773	13,351
85 to 167	9,395	8,711	7,790	8,864	6,923	9,336	8,092
Open continuously	17,253	16,224	14,886	16,368	14,123	16,852	14,185

Table B37. Heated, cooled, and lit buildings, floorspace, 2012

	Total floorspace (million square feet)						
	Total floor-space in all buildings	Heated buildings		Cooled buildings		Lit buildings	
		Total floor-space ¹	Heated floor-space ²	Total floor-space ¹	Cooled floor-space ²	Total floor-space ¹	Lit floor-space ²
All buildings	87,093	80,078	70,053	79,294	60,998	83,569	68,729
Energy sources (more than one may apply)							
Electricity	84,869	80,053	70,042	79,294	60,998	83,569	68,729
Natural gas	58,725	58,129	52,163	56,899	44,163	58,278	48,925
Fuel oil	20,200	19,670	17,668	19,309	15,819	20,120	17,541
District heat	5,964	5,962	5,766	5,903	5,256	5,873	5,073
District chilled water	4,608	4,561	4,420	4,608	4,282	4,545	3,952
Propane	7,706	7,332	5,993	7,061	4,567	7,652	6,352
Other	3,826	3,826	3,413	3,573	2,470	3,784	3,189
Space-heating energy sources (more than one may apply)							
Electricity	49,030	49,030	42,273	47,914	37,789	48,789	40,600
Natural gas	49,511	49,511	44,372	47,836	36,284	49,150	41,159
Fuel oil	4,351	4,351	3,691	3,660	2,464	4,288	3,592
District heat	5,925	5,925	5,730	5,864	5,218	5,835	5,037
Propane	3,067	3,067	2,578	2,685	1,866	3,030	2,437
Other	1,010	1,010	889	821	442	985	819
Primary space-heating energy source							
Electricity	26,205	26,205	21,478	25,613	20,608	26,013	21,290
Natural gas	42,988	42,988	38,698	41,435	31,193	42,684	35,767
Fuel oil	2,542	2,542	2,146	1,984	1,243	2,479	1,951
District heat	5,797	5,797	5,603	5,736	5,097	5,706	4,926
Propane	1,948	1,948	1,604	1,643	1,145	1,928	1,527
Other	598	598	524	425	Q	573	453
Cooling energy sources (more than one may apply)							
Electricity	76,034	73,613	64,523	76,034	57,966	75,680	62,991
Natural gas	732	732	699	732	614	732	611
District chilled water	4,608	4,561	4,420	4,608	4,282	4,545	3,952
Energy end uses (more than one may apply)							
Buildings with space heating	80,078	80,078	70,053	76,834	59,496	79,384	65,913
Buildings with cooling	79,294	76,834	67,641	79,294	60,998	78,876	65,679
Buildings with water heating	79,015	76,584	67,598	76,414	59,286	78,622	65,494
Buildings with cooking	38,546	37,771	35,200	37,687	32,069	38,494	33,285
Buildings with manufacturing	5,078	4,790	3,658	4,682	2,589	5,044	4,109
Buildings with electricity generation	25,642	25,155	23,269	25,350	21,355	25,605	22,505
Percent of floorspace heated							
Not heated	7,015	N	N	2,459	1,501	4,185	2,815
1 to 50	10,130	10,130	2,611	9,164	3,219	9,956	6,538
51 to 99	14,650	14,650	12,144	14,438	11,166	14,586	12,006
100	55,298	55,298	55,298	53,232	45,111	54,842	47,369

Table B37. Heated, cooled, and lit buildings, floorspace, 2012

	Total floorspace (million square feet)						
	Total floor-space in all buildings	Heated buildings		Cooled buildings		Lit buildings	
		Total floor-space ¹	Heated floor-space ²	Total floor-space ¹	Cooled floor-space ²	Total floor-space ¹	Lit floor-space ²
All buildings	87,093	80,078	70,053	79,294	60,998	83,569	68,729
Percent of floorspace cooled							
Not cooled	7,799	3,243	2,412	N	N	4,693	3,050
1 to 50	18,891	17,856	11,850	18,891	4,594	18,742	13,872
51 to 99	22,728	22,293	19,969	22,728	18,728	22,615	18,976
100	37,676	36,685	35,822	37,676	37,676	37,519	32,830
Percent lit when open							
Zero	322	Q	Q	Q	Q	Q	Q
1 to 50	12,628	11,367	8,089	10,941	6,544	12,628	4,117
51 to 99	34,814	33,572	29,956	33,775	26,728	34,814	28,828
100	35,726	34,204	31,307	33,976	27,345	35,726	35,726
Building never open/electricity not used	3,603	879	663	527	348	371	54
Percent lit during off hours							
Zero	24,746	22,494	18,815	21,297	14,887	23,500	18,364
1 to 50	50,753	48,596	43,030	48,966	38,315	50,753	41,824
51 to 100	6,926	6,646	6,171	6,731	5,820	6,926	6,559
Building always open with no "off hours"	2,443	2,317	2,027	2,300	1,976	2,390	1,983
Electricity not used	2,225	Q	Q	N	N	N	N
Heating equipment (more than one may apply)							
Heat pumps	11,846	11,846	10,407	11,772	9,787	11,809	9,988
Furnaces	8,654	8,654	7,574	8,514	6,322	8,604	6,985
Individual space heaters	20,766	20,766	17,801	19,159	13,559	20,603	17,077
District heat	5,925	5,925	5,730	5,864	5,218	5,835	5,037
Boilers	22,443	22,443	21,120	21,579	17,526	22,345	19,100
Packaged heating units	49,188	49,188	42,497	48,053	36,910	48,826	40,785
Other	1,574	1,574	1,455	1,534	1,215	1,570	1,347
Cooling equipment (more than one may apply)							
Residential-type central air conditioners	14,765	14,158	11,835	14,765	10,208	14,692	11,724
Heat pumps	12,538	12,464	11,060	12,538	10,373	12,523	10,613
Individual air conditioners	12,420	11,953	10,513	12,420	8,388	12,374	10,017
District chilled water	4,608	4,561	4,420	4,608	4,282	4,545	3,952
Central chillers	17,041	16,685	15,564	17,041	15,355	16,996	15,049
Packaged air conditioning units	45,153	43,820	38,689	45,153	34,709	44,954	37,867
Swamp coolers	1,918	1,879	1,480	1,918	1,343	1,918	1,672
Other	328	328	295	328	283	328	270
Main equipment replaced since 1990 (more than one may apply)							
Heating	27,558	27,558	23,851	26,409	19,975	27,408	22,463
Cooling	30,702	29,713	26,069	30,702	23,066	30,629	25,048

Table B37. Heated, cooled, and lit buildings, floorspace, 2012

	Total floorspace (million square feet)						
	Total floor-space in all buildings	Heated buildings		Cooled buildings		Lit buildings	
		Total floor-space ¹	Heated floor-space ²	Total floor-space ¹	Cooled floor-space ²	Total floor-space ¹	Lit floor-space ²
All buildings	87,093	80,078	70,053	79,294	60,998	83,569	68,729
Lighting equipment types (more than one may apply)							
Incandescent	38,406	37,292	33,783	37,119	30,223	38,406	32,035
Standard fluorescent	80,081	76,646	67,156	76,125	58,320	80,081	66,088
Compact fluorescent	53,816	52,287	47,539	52,285	43,263	53,816	45,420
High-intensity discharge (HID)	23,396	22,631	20,379	22,734	18,074	23,396	20,039
Halogen	28,059	27,225	24,188	27,618	22,581	28,059	23,727
LED	22,071	21,503	19,789	21,869	19,043	22,071	18,934
Other	446	446	425	446	399	446	411
HVAC conservation features (more than one may apply)							
Economizer cycle	30,749	30,454	28,477	30,749	26,258	30,701	26,912
Regular HVAC maintenance	69,244	67,518	60,452	67,839	53,994	68,962	58,459
Building automation system (BAS) ⁴	37,051	36,511	34,076	36,692	32,185	36,901	32,428
Window and interior lighting features (more than one may apply)							
Multipaned windows	60,362	58,245	52,455	57,518	45,595	59,205	49,654
Tinted window glass	45,025	42,793	37,690	43,491	34,652	44,068	37,216
Reflective window glass	15,908	15,400	13,691	15,527	12,738	15,759	13,298
External overhangs or awnings	32,188	30,924	27,484	31,133	25,021	31,869	26,800
Skylights or atriums	22,261	21,202	18,304	21,448	16,210	21,902	18,386
Light scheduling	30,263	29,204	26,385	29,761	24,861	30,263	26,079
Occupancy sensors	35,871	34,823	31,608	35,098	28,425	35,871	30,532
Multi-level lighting or dimming	14,534	14,097	12,860	14,318	12,501	14,534	12,338
Daylight harvesting	6,114	5,960	5,467	5,936	5,019	6,114	5,231
Demand responsive lighting	4,738	4,579	3,887	4,598	3,629	4,738	3,884
Building automation system (BAS) for lighting ⁴	12,068	11,783	10,834	11,995	10,613	12,068	10,746
Equipment usage reduced when building not in full use (more than one may apply)							
Heating	63,167	63,167	55,499	61,087	47,343	62,669	52,102
Cooling	62,516	60,904	53,675	62,516	48,459	62,156	51,809
Lighting	78,594	74,955	65,699	74,511	57,207	78,594	65,361

Table B37. Heated, cooled, and lit buildings, floorspace, 2012

Total floor-space in all buildings	Total floorspace (million square feet)						
	Heated buildings		Cooled buildings		Lit buildings		
	Total floor-space ¹	Heated floor-space ²	Total floor-space ¹	Cooled floor-space ²	Total floor-space ¹	Lit floor-space ²	
All buildings	87,093	80,078	70,053	79,294	60,998	83,569	68,729

¹*Total floorspace* refers to all floorspace in heated, cooled, or lit buildings, respectively, including the floorspace that was not heated cooled, or lit.

²*Heated floorspace*, *Cooled floorspace*, and *Lit floorspace* refer only to the portion of the floorspace in these buildings that was reported to be heated, cooled, or lit.

³These 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).

⁴In 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.

Release date: April 2015
 Revised date: May 2016

Table B38. Heating equipment, number of buildings, 2012

	Number of buildings (thousand)								
	Heating equipment (more than one may apply)								
	All buildings	Buildings with space heating	Heat pumps	Furnaces	Indiv- idual space heaters	District heat	Boilers	Pack- aged heating units	Other
All buildings	5,557	4,722	628	755	1,247	48	544	2,802	62
Building floorspace (square feet)									
1,001 to 5,000	2,777	2,257	286	359	612	Q	128	1,259	Q
5,001 to 10,000	1,229	1,046	147	194	281	Q	99	628	Q
10,001 to 25,000	884	797	93	140	195	Q	123	511	Q
25,001 to 50,000	332	304	46	40	84	6	75	202	Q
50,001 to 100,000	199	187	39	15	41	10	69	120	8
100,001 to 200,000	90	86	12	5	21	9	31	55	Q
200,001 to 500,000	38	36	5	2	11	5	17	21	Q
Over 500,000	8	8	1	(*)	2	2	3	4	Q
Principal building activity									
Education	389	379	62	26	45	12	96	223	Q
Food sales	177	160	Q	Q	31	N	Q	111	Q
Food service	380	359	32	53	52	Q	23	251	Q
Health care	157	153	24	23	32	2	23	101	Q
Inpatient	10	9	2	(*)	2	1	6	5	Q
Outpatient	147	144	21	22	29	Q	17	97	N
Lodging	158	153	39	21	60	4	38	55	Q
Mercantile	602	572	83	89	136	Q	59	402	13
Retail (other than mall)	438	412	53	52	96	Q	35	257	Q
Enclosed and strip malls	164	160	31	37	39	Q	24	145	11
Office	1,012	989	157	196	234	12	110	560	Q
Public assembly	352	330	42	61	80	7	41	183	Q
Public order and safety	84	81	Q	Q	24	Q	14	43	Q
Religious worship	412	408	52	91	89	N	61	236	Q
Service	619	528	43	70	259	Q	30	285	Q
Warehouse and storage	796	420	53	58	150	Q	18	246	Q
Other	125	100	Q	Q	39	Q	14	58	Q
Vacant	296	87	Q	Q	Q	Q	13	48	Q
Year constructed									
Before 1920	362	322	29	61	113	5	58	161	Q
1920 to 1945	488	413	38	50	136	7	74	221	Q
1946 to 1959	599	517	70	76	170	5	75	283	Q
1960 to 1969	639	559	61	88	160	9	91	343	Q
1970 to 1979	684	599	57	107	185	10	59	370	Q
1980 to 1989	915	754	126	138	167	2	49	442	Q
1990 to 1999	845	675	102	118	139	3	50	421	11
2000 to 2003	375	322	42	52	60	4	35	201	Q
2004 to 2007	347	291	58	29	58	2	26	196	Q
2008 to 2012	303	270	46	36	60	Q	28	163	Q

Table B38. Heating equipment, number of buildings, 2012

	Number of buildings (thousand)								
	Heating equipment (more than one may apply)								
	All buildings	Buildings with space heating	Heat pumps	Furnaces	Individual space heaters	District heat	Boilers	Packaged heating units	Other
All buildings	5,557	4,722	628	755	1,247	48	544	2,802	62
Census region and division									
Northeast	805	727	48	85	239	16	221	347	Q
New England	302	264	14	27	92	Q	87	112	Q
Middle Atlantic	504	463	34	58	147	9	134	235	Q
Midwest	1,237	1,096	53	252	340	7	148	644	22
East North Central	735	670	23	159	184	3	101	410	Q
West North Central	502	426	31	92	157	4	47	235	Q
South	2,247	1,842	392	282	381	18	98	1,127	16
South Atlantic	1,091	873	279	87	162	9	52	504	Q
East South Central	370	336	51	58	88	Q	15	225	Q
West South Central	786	633	62	137	131	5	30	399	Q
West	1,267	1,057	134	137	287	7	77	683	14
Mountain	338	293	25	53	102	Q	25	178	Q
Pacific	929	764	109	84	185	5	52	505	Q
Climate region¹									
Very cold/Cold	2,031	1,792	99	313	612	18	332	991	37
Mixed-humid	1,743	1,545	324	272	389	20	135	871	13
Mixed-dry/Hot-dry	837	676	96	78	135	4	38	471	Q
Hot-humid	799	593	91	79	76	Q	32	395	Q
Marine	147	116	Q	Q	35	Q	7	74	Q
Number of floors									
One	3,836	3,113	415	471	818	Q	184	1,904	42
Two	1,158	1,072	146	203	274	11	164	655	14
Three	374	355	37	61	106	10	119	168	Q
Four to nine	177	170	28	21	46	18	71	71	Q
Ten or more	13	12	3	Q	3	3	6	4	Q
Number of workers (main shift)									
Fewer than 5	2,892	2,184	246	330	672	Q	182	1,171	Q
5 to 9	1,085	1,020	159	186	239	Q	79	618	Q
10 to 19	731	692	85	142	149	Q	77	458	Q
20 to 49	513	494	81	69	114	11	88	342	10
50 to 99	206	203	38	23	46	7	58	139	Q
100 to 249	93	92	13	5	18	7	44	55	2
250 or more	37	37	5	1	8	6	16	18	Q
Weekly operating hours									
Fewer than 40	1,149	815	108	156	215	Q	77	416	Q
40 to 48	1,346	1,230	162	212	343	7	114	712	Q
49 to 60	1,244	1,143	153	188	340	11	138	672	Q
61 to 84	764	672	100	87	167	9	97	453	9
85 to 167	479	414	40	53	69	6	40	301	13
Open continuously	575	448	65	60	113	11	77	248	Q

Table B38. Heating equipment, number of buildings, 2012

	Number of buildings (thousand)								
	Heating equipment (more than one may apply)								
	All buildings	Buildings with space heating	Heat pumps	Furnaces	Individual space heaters	District heat	Boilers	Packaged heating units	Other
All buildings	5,557	4,722	628	755	1,247	48	544	2,802	62
Ownership and occupancy									
Nongovernment owned	4,781	4,028	507	681	1,068	22	405	2,443	55
Owner occupied	2,466	2,198	286	378	585	13	243	1,249	26
Leased to tenant(s)	1,745	1,458	164	236	383	Q	120	969	26
Owner occupied and leased	349	325	54	57	91	2	38	201	Q
Unoccupied	221	47	Q	Q	Q	Q	Q	25	Q
Government owned	776	694	121	74	179	26	139	359	Q
Federal	33	33	Q	Q	Q	1	7	20	Q
State	185	168	28	19	45	18	31	84	Q
Local	558	493	90	51	126	7	102	255	Q
Party responsible for operation and maintenance of energy systems									
Building owner	4,715	3,983	541	631	1,052	45	489	2,291	50
Business owner or tenant	724	634	66	110	173	Q	42	448	11
Property management	54	43	Q	Q	8	Q	Q	28	Q
Other	64	63	Q	Q	Q	Q	11	34	N
Provider of direct input on energy-related equipment purchases									
Building owner	4,876	4,120	565	665	1,078	45	497	2,394	51
Business owner or tenant	540	472	40	75	143	Q	33	326	9
Property management	35	32	Q	Q	6	Q	Q	22	Q
Other	106	99	19	Q	21	Q	13	61	Q
Campus or complex activity									
Not part of a campus or complex	3,683	3,272	388	547	872	Q	357	2,000	48
Primary or secondary school	237	223	40	10	32	Q	28	149	Q
College or university	84	81	15	Q	10	22	19	30	Q
Office complex	154	148	21	30	33	Q	11	82	Q
Retail complex	258	225	34	41	60	N	18	162	8
Storage complex	314	69	Q	Q	28	N	Q	29	N
Religious campus or complex	197	190	28	36	30	Q	37	103	N
Health care complex	52	47	Q	9	9	Q	10	24	Q
Lodging or resort complex	65	57	11	Q	25	Q	9	15	N
Transportation complex	35	32	Q	Q	14	Q	Q	16	N
Government complex	104	83	14	Q	31	2	19	39	Q
Other	371	296	56	51	104	Q	28	152	Q

Table B38. Heating equipment, number of buildings, 2012

	Number of buildings (thousand)									
	Heating equipment (more than one may apply)									
	Buildings with space heating		Heat pumps		Furnaces		Individual space heaters		Packaged heating units	Other
	All buildings	with space heating								
All buildings	5,557	4,722	628	755	1,247	48	544	2,802	62	
Renovations in buildings constructed before 2008 (more than one may apply)										
Any type of renovation	2,094	1,943	260	332	558	27	290	1,182	26	
Addition or annex	444	425	69	91	109	4	72	265	Q	
Reduction in floorspace	71	63	7	Q	18	Q	10	40	Q	
Roof replacement	987	912	114	167	259	12	164	533	14	
Exterior wall replacement	194	181	27	31	57	1	27	111	Q	
Interior wall reconfiguration	889	832	115	151	244	14	125	526	7	
Window replacement	560	536	83	106	163	6	110	315	Q	
HVAC equipment upgrade	1,101	1,050	167	209	301	17	174	659	13	
Lighting upgrade	982	924	139	160	260	18	162	571	11	
Electrical upgrade	747	696	104	118	214	11	120	430	Q	
Plumbing system upgrade	644	603	85	104	179	8	105	378	Q	
Insulation upgrade	382	363	62	81	105	6	65	221	Q	
Fire, safety, or security upgrade	616	582	84	97	176	12	106	366	Q	
Structural upgrade	152	150	23	27	43	Q	31	88	Q	
Other	39	30	Q	Q	13	Q	Q	19	Q	
No renovations	3,160	2,509	322	387	629	19	227	1,457	31	
Buildings constructed 2008 or later	303	270	46	36	60	Q	28	163	Q	
Energy sources (more than one may apply)										
Electricity	5,234	4,717	628	755	1,246	48	543	2,802	60	
Natural gas	2,933	2,888	233	550	774	17	409	1,901	36	
Fuel oil	467	455	44	42	177	10	139	218	Q	
District heat	48	48	3	Q	9	48	Q	3	Q	
District chilled water	54	51	Q	Q	7	26	9	16	Q	
Propane	510	491	49	95	195	Q	58	250	19	
Other	172	172	29	25	93	1	28	77	Q	
Space-heating energy sources (more than one may apply)										
Electricity	2,858	2,858	611	366	868	12	225	1,785	46	
Natural gas	2,612	2,612	188	530	722	2	390	1,717	34	
Fuel oil	270	270	18	20	118	Q	85	116	Q	
District heat	48	48	3	Q	9	48	Q	3	Q	
Propane	342	342	26	72	146	Q	31	181	Q	
Other	101	101	Q	Q	72	Q	Q	30	Q	
Primary space-heating energy source										
Electricity	1,819	1,819	484	191	392	Q	83	1,057	14	
Natural gas	2,322	2,322	117	485	622	Q	355	1,506	27	
Fuel oil	205	205	Q	Q	81	Q	71	85	Q	
District heat	47	47	2	Q	8	47	Q	3	Q	
Propane	261	261	Q	59	96	N	23	135	Q	
Other	67	67	Q	Q	47	N	Q	Q	Q	

Table B38. Heating equipment, number of buildings, 2012

	Number of buildings (thousand)								
	Heating equipment (more than one may apply)								
	All buildings	Buildings with space heating	Heat pumps	Furnaces	Individual space heaters	District heat	Boilers	Packaged heating units	Other
All buildings	5,557	4,722	628	755	1,247	48	544	2,802	62
Energy end uses (more than one may apply)									
Buildings with space heating	4,722	4,722	628	755	1,247	48	544	2,802	62
Buildings with cooling	4,461	4,272	621	728	1,007	44	483	2,633	55
Buildings with water heating	4,423	4,237	581	711	1,072	45	521	2,575	50
Buildings with cooking	1,589	1,525	205	280	352	14	259	950	36
Buildings with manufacturing	259	234	25	36	85	Q	20	157	Q
Buildings with electricity generation	410	400	59	52	120	15	118	232	8
Percent of floorspace heated									
Not heated	835	N	N	N	N	N	N	N	N
1 to 50	697	697	81	76	233	Q	34	381	Q
51 to 99	727	727	99	104	210	7	102	456	13
100	3,298	3,298	448	575	805	40	407	1,965	39
Heating equipment (more than one may apply)									
Heat pumps	628	628	628	53	110	3	49	150	Q
Furnaces	755	755	53	755	179	Q	33	178	Q
Individual space heaters	1,247	1,247	110	179	1,247	9	120	476	22
District heat	48	48	3	Q	9	48	Q	3	Q
Boilers	544	544	49	33	120	Q	544	163	Q
Packaged heating units	2,802	2,802	150	178	476	3	163	2,802	26
Other	62	62	Q	Q	22	Q	Q	26	62
Cooling equipment (more than one may apply)									
Residential-type central air conditioners	1,546	1,476	86	530	325	Q	119	870	24
Heat pumps	692	685	549	60	124	2	55	249	Q
Individual air conditioners	709	643	46	92	352	6	133	258	Q
District chilled water	54	51	Q	Q	7	26	9	16	Q
Central chillers	163	158	13	10	32	8	106	69	Q
Packaged air conditioning units	1,909	1,841	118	194	338	11	203	1,589	23
Swamp coolers	109	99	8	Q	55	Q	12	57	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	N
Main equipment replaced since 1990 (more than one may apply)									
Heating	1,874	1,874	291	318	530	Q	237	1,103	20
Cooling	1,971	1,879	293	353	514	11	234	1,095	22
HVAC conservation features (more than one may apply)									
Economizer cycle	601	589	91	60	118	23	137	427	8
Regular HVAC maintenance	3,178	3,078	465	509	565	40	446	2,012	35
Building automation system (BAS) ²	781	768	110	77	117	30	186	523	15

Table B38. Heating equipment, number of buildings, 2012

	Number of buildings (thousand)								
	Heating equipment (more than one may apply)								
	All buildings	Buildings with space heating	Heat pumps	Furnaces	Individual space heaters	District heat	Boilers	Packaged heating units	Other
All buildings	5,557	4,722	628	755	1,247	48	544	2,802	62
Equipment usage reduced when building not in full use (more than one may apply)									
Heating	3,699	3,699	471	637	964	32	403	2,257	43
Cooling	3,517	3,391	463	602	799	31	374	2,136	44
Lighting	4,757	4,406	591	721	1,172	45	515	2,623	57

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.

Release date: April 2015
 Revised date: May 2016

Table B39. Heating equipment, floorspace, 2012

	Total floorspace (million square feet)									
	Heating equipment (more than one may apply)									
	All buildings	Buildings with space heating	Heat pumps	Furnaces	Indiv- idual space heaters	District heat	Boilers	Pack- aged heating units	Other	
All buildings	87,093	80,078	11,846	8,654	20,766	5,925	22,443	49,188	1,574	
Building floorspace (square feet)										
1,001 to 5,000	8,041	6,699	868	1,091	1,747	Q	400	3,809	Q	
5,001 to 10,000	8,900	7,590	1,038	1,416	2,025	Q	734	4,622	Q	
10,001 to 25,000	14,105	12,744	1,477	2,233	3,115	Q	2,008	8,246	Q	
25,001 to 50,000	11,917	10,911	1,642	1,439	3,021	213	2,707	7,237	Q	
50,001 to 100,000	13,918	13,114	2,664	1,042	2,763	704	4,938	8,489	541	
100,001 to 200,000	12,415	11,941	1,549	683	2,915	1,313	4,258	7,569	Q	
200,001 to 500,000	10,724	10,348	1,527	466	2,970	1,553	4,970	5,991	Q	
Over 500,000	7,074	6,730	1,080	284	2,211	1,974	2,430	3,225	Q	
Principal building activity										
Education	12,239	12,099	2,209	564	1,750	1,155	6,637	6,107	Q	
Food sales	1,252	1,196	Q	Q	336	N	Q	944	Q	
Food service	1,819	1,762	146	266	256	Q	145	1,296	Q	
Health care	4,155	4,109	739	258	967	671	2,285	2,085	Q	
Inpatient	2,374	2,354	506	124	501	563	1,698	1,073	Q	
Outpatient	1,781	1,754	233	133	466	Q	588	1,012	N	
Lodging	5,826	5,696	1,259	638	2,168	621	2,105	2,561	Q	
Mercantile	11,330	10,794	1,419	1,423	2,568	Q	1,138	9,434	872	
Retail (other than mall)	5,439	5,088	441	590	1,007	Q	312	3,964	Q	
Enclosed and strip malls	5,890	5,706	978	832	1,561	Q	826	5,470	860	
Office	15,952	15,753	2,667	1,691	3,727	1,794	4,650	8,407	Q	
Public assembly	5,559	5,323	727	582	1,560	888	1,621	3,016	Q	
Public order and safety	1,440	1,391	Q	Q	253	Q	466	601	Q	
Religious worship	4,557	4,511	581	927	859	N	1,359	2,801	Q	
Service	4,630	4,157	356	497	1,919	Q	433	2,498	Q	
Warehouse and storage	13,077	9,987	1,138	1,294	3,480	Q	841	7,297	Q	
Other	2,002	1,886	Q	Q	737	Q	408	1,257	Q	
Vacant	3,256	1,415	Q	Q	Q	Q	296	886	Q	
Year constructed										
Before 1920	3,983	3,583	371	524	1,442	523	1,221	1,380	Q	
1920 to 1945	6,025	5,527	744	393	1,717	888	2,016	2,589	Q	
1946 to 1959	7,381	6,895	907	685	2,277	446	2,659	3,715	Q	
1960 to 1969	10,362	9,730	1,295	1,168	2,586	1,002	3,506	5,670	Q	
1970 to 1979	10,846	10,045	1,198	1,345	2,923	930	2,763	6,156	Q	
1980 to 1989	15,230	13,723	2,386	1,763	3,424	446	2,973	9,037	Q	
1990 to 1999	13,803	12,389	2,136	1,266	2,996	642	2,970	8,544	397	
2000 to 2003	7,215	6,707	808	551	1,292	Q	1,636	4,281	Q	
2004 to 2007	6,524	5,972	1,174	516	1,160	Q	1,395	4,076	Q	
2008 to 2012	5,723	5,505	826	442	948	Q	1,303	3,741	Q	

Table B39. Heating equipment, floorspace, 2012

	Total floorspace (million square feet)									
	Heating equipment (more than one may apply)									
	Buildings with space heating		Heat pumps		Furnaces		Individual space heaters		Packaged heating units	Other
	All buildings	with space heating	Heat pumps	Furnaces	Individual space heaters	District heat	Boilers	Packaged heating units	Other	
All buildings	87,093	80,078	11,846	8,654	20,766	5,925	22,443	49,188	1,574	
Census region and division										
Northeast	15,534	15,053	1,397	1,244	4,918	1,981	6,447	7,186	Q	
New England	4,302	4,090	400	323	1,529	Q	1,823	1,769	Q	
Middle Atlantic	11,232	10,963	998	922	3,389	1,628	4,624	5,417	Q	
Midwest	18,919	18,055	1,068	2,511	5,735	906	6,666	10,894	370	
East North Central	12,742	12,240	632	1,756	3,668	574	5,083	7,347	Q	
West North Central	6,178	5,815	436	755	2,066	332	1,583	3,547	Q	
South	34,279	30,499	6,927	3,363	6,519	2,171	5,784	20,049	550	
South Atlantic	17,981	15,883	4,909	1,234	3,328	1,148	3,247	10,168	Q	
East South Central	4,904	4,692	844	530	1,295	Q	1,077	3,136	Q	
West South Central	11,394	9,923	1,174	1,599	1,896	637	1,460	6,745	Q	
West	18,360	16,471	2,453	1,536	3,594	867	3,545	11,059	339	
Mountain	4,981	4,704	498	554	1,197	482	1,150	2,967	Q	
Pacific	13,379	11,767	1,955	983	2,397	385	2,395	8,092	242	
Climate region¹										
Very cold/Cold	31,898	30,469	2,150	3,558	10,128	1,926	11,556	17,640	824	
Mixed-humid	27,873	26,716	6,182	3,009	6,697	3,002	7,029	15,485	487	
Mixed-dry/Hot-dry	12,037	10,484	1,669	995	1,703	Q	1,777	7,351	Q	
Hot-humid	12,831	10,090	1,387	937	1,607	362	1,499	7,217	Q	
Marine	2,454	2,319	458	Q	631	Q	581	1,495	Q	
Number of floors										
One	39,809	34,513	4,642	4,356	8,857	Q	4,257	24,999	1,127	
Two	20,206	19,411	2,844	2,518	4,987	Q	5,762	13,422	297	
Three	8,140	7,896	1,229	857	2,150	544	3,667	3,918	Q	
Four to nine	13,535	12,992	2,089	826	3,398	2,791	6,521	5,180	Q	
Ten or more	5,404	5,265	1,041	Q	1,374	1,900	2,236	1,669	Q	
Number of workers (main shift)										
Fewer than 5	17,751	12,931	1,366	1,921	3,710	Q	1,908	6,967	Q	
5 to 9	8,973	8,492	1,230	1,264	2,274	Q	982	5,320	Q	
10 to 19	9,623	8,970	1,234	1,758	2,219	Q	1,219	6,041	Q	
20 to 49	14,514	14,126	2,268	1,678	3,752	623	3,764	9,817	448	
50 to 99	13,476	13,184	2,409	1,278	3,323	669	4,610	9,055	Q	
100 to 249	10,941	10,805	1,490	387	2,390	1,096	4,938	6,596	422	
250 or more	11,815	11,570	1,849	367	3,097	3,053	5,021	5,393	Q	
Weekly operating hours										
Fewer than 40	8,220	5,763	617	980	1,222	Q	1,180	3,012	Q	
40 to 48	15,828	14,867	2,230	2,020	3,696	403	3,907	8,633	Q	
49 to 60	20,529	19,365	3,183	2,268	4,971	1,099	5,496	11,950	Q	
61 to 84	15,867	15,148	2,427	1,262	3,999	828	3,993	10,640	443	
85 to 167	9,395	8,711	724	878	2,183	631	2,266	6,372	364	
Open continuously	17,253	16,224	2,666	1,246	4,696	2,792	5,601	8,582	Q	

Table B39. Heating equipment, floorspace, 2012

	Total floorspace (million square feet)								
	Heating equipment (more than one may apply)								
	All buildings	Buildings with space heating	Heat pumps	Furnaces	Individual space heaters	District heat	Boilers	Packaged heating units	Other
All buildings	87,093	80,078	11,846	8,654	20,766	5,925	22,443	49,188	1,574
Ownership and occupancy									
Nongovernment owned	67,550	61,341	8,500	7,472	16,206	3,119	13,405	40,336	1,316
Owner occupied	30,637	28,745	3,841	3,629	7,363	1,825	6,663	17,635	214
Leased to tenant(s)	26,115	23,766	3,022	2,880	6,507	730	4,091	17,239	1,021
Owner occupied and leased	8,873	8,328	1,597	900	2,284	557	2,590	5,102	Q
Unoccupied	1,925	502	Q	Q	Q	Q	Q	360	Q
Government owned	19,543	18,736	3,346	1,182	4,561	2,807	9,038	8,852	Q
Federal	1,573	1,557	212	Q	558	697	471	495	Q
State	5,539	5,411	636	378	1,375	1,526	2,305	2,213	Q
Local	12,431	11,768	2,497	753	2,628	584	6,263	6,144	Q
Party responsible for operation and maintenance of energy systems									
Building owner	73,702	67,644	10,210	7,076	17,425	5,737	20,588	39,517	1,008
Business owner or tenant	11,309	10,534	1,240	1,325	2,895	Q	1,363	8,598	549
Property management	1,250	1,073	Q	Q	227	Q	273	652	Q
Other	832	826	Q	Q	Q	Q	219	422	N
Provider of direct input on energy-related equipment purchases									
Building owner	76,271	70,099	10,579	7,554	17,932	5,694	20,908	41,565	1,041
Business owner or tenant	8,256	7,685	800	812	2,297	Q	1,058	6,096	366
Property management	880	722	Q	Q	201	Q	Q	469	Q
Other	1,686	1,571	369	Q	337	Q	301	1,058	Q
Campus or complex activity									
Not part of a campus or complex	52,275	48,779	6,741	5,649	12,576	960	13,400	32,001	828
Primary or secondary school	4,616	4,486	986	344	647	Q	1,979	2,868	Q
College or university	4,068	4,008	379	Q	574	2,185	1,163	758	Q
Office complex	3,456	3,377	681	208	699	Q	894	1,754	Q
Retail complex	5,159	4,805	675	668	1,508	N	516	4,330	598
Storage complex	3,212	1,285	Q	Q	560	N	Q	691	N
Religious campus or complex	1,932	1,896	207	308	242	Q	565	1,152	N
Health care complex	3,362	3,296	592	250	882	968	1,668	1,509	Q
Lodging or resort complex	1,295	1,181	255	Q	456	Q	350	383	N
Transportation complex	554	496	Q	Q	282	Q	Q	233	N
Government complex	2,107	1,992	259	Q	872	720	715	711	Q
Other	5,057	4,478	876	769	1,468	Q	915	2,799	Q

Table B39. Heating equipment, floorspace, 2012

	Total floorspace (million square feet)									
	Heating equipment (more than one may apply)									
	Buildings with space heating		Heat pumps		Furnaces		Individual space heaters		Packaged heating units	Other
	All buildings	Space heating								
All buildings	87,093	80,078	11,846	8,654	20,766	5,925	22,443	49,188	1,574	
Renovations in buildings constructed before 2008 (more than one may apply)										
Any type of renovation	42,216	40,692	6,295	4,399	12,371	3,964	13,377	25,179	783	
Addition or annex	13,022	12,822	2,127	1,526	3,745	1,254	5,423	8,320	Q	
Reduction in floorspace	1,753	1,659	303	Q	519	Q	381	991	Q	
Roof replacement	20,917	20,344	3,033	2,181	6,534	2,010	8,067	12,038	381	
Exterior wall replacement	4,230	4,136	751	466	1,361	353	1,463	2,706	Q	
Interior wall reconfiguration	21,340	20,750	3,207	2,233	6,598	2,571	6,940	13,025	313	
Window replacement	12,265	12,011	1,850	1,377	3,770	1,431	4,758	6,742	Q	
HVAC equipment upgrade	26,779	26,066	4,440	3,075	8,259	2,986	9,286	16,158	499	
Lighting upgrade	25,503	24,896	3,933	2,514	8,132	3,037	8,908	15,008	492	
Electrical upgrade	16,160	15,661	2,772	1,773	5,398	2,032	5,693	9,467	Q	
Plumbing system upgrade	13,828	13,537	2,344	1,500	4,666	1,724	4,987	8,052	Q	
Insulation upgrade	7,607	7,371	1,450	1,172	2,509	1,070	2,421	4,417	Q	
Fire, safety, or security upgrade	17,196	16,676	3,139	1,736	5,566	2,073	6,630	9,806	Q	
Structural upgrade	3,913	3,864	836	449	1,043	697	1,208	2,317	Q	
Other	848	751	Q	Q	411	Q	Q	388	Q	
No renovations	39,154	33,880	4,725	3,813	7,447	1,770	7,763	20,268	723	
Buildings constructed 2008 or later	5,723	5,505	826	442	948	Q	1,303	3,741	Q	
Energy sources (more than one may apply)										
Electricity	84,869	80,053	11,846	8,654	20,751	5,925	22,438	49,188	1,570	
Natural gas	58,725	58,129	7,560	7,046	15,808	2,833	20,019	37,569	1,194	
Fuel oil	20,200	19,670	3,047	870	5,874	3,088	9,340	9,580	Q	
District heat	5,964	5,962	556	Q	1,354	5,925	Q	742	Q	
District chilled water	4,608	4,561	325	Q	888	3,718	582	756	Q	
Propane	7,706	7,332	884	757	2,742	Q	1,772	4,689	277	
Other	3,826	3,826	544	429	1,353	335	1,411	2,348	Q	
Space-heating energy sources (more than one may apply)										
Electricity	49,030	49,030	11,482	5,040	16,235	1,869	10,721	35,389	1,352	
Natural gas	49,511	49,511	5,928	6,837	13,893	350	18,893	32,966	1,094	
Fuel oil	4,351	4,351	527	183	1,648	Q	2,556	1,746	Q	
District heat	5,925	5,925	556	Q	1,334	5,925	Q	725	Q	
Propane	3,067	3,067	385	481	1,217	Q	565	1,963	Q	
Other	1,010	1,010	Q	Q	590	Q	Q	411	Q	
Primary space-heating energy source										
Electricity	26,205	26,205	7,215	2,270	6,035	Q	2,982	18,523	447	
Natural gas	42,988	42,988	3,792	5,778	11,482	Q	17,437	27,826	873	
Fuel oil	2,542	2,542	Q	Q	1,008	Q	1,504	757	Q	
District heat	5,797	5,797	464	Q	1,271	5,797	Q	650	Q	
Propane	1,948	1,948	Q	405	666	N	276	1,193	Q	
Other	598	598	Q	Q	305	N	Q	Q	Q	

Table B39. Heating equipment, floorspace, 2012

	Total floorspace (million square feet)								
	Heating equipment (more than one may apply)								
	Buildings with space heating		Heat pumps		Furnaces		Individual space heaters		Packaged heating units
	All buildings	with space heating						District heat	Boilers
All buildings	87,093	80,078	11,846	8,654	20,766	5,925	22,443	49,188	1,574
Energy end uses (more than one may apply)									
Buildings with space heating	80,078	80,078	11,846	8,654	20,766	5,925	22,443	49,188	1,574
Buildings with cooling	79,294	76,834	11,772	8,514	19,159	5,864	21,579	48,053	1,534
Buildings with water heating	79,015	76,584	11,576	8,420	19,548	5,783	22,020	47,297	1,532
Buildings with cooking	38,546	37,771	6,592	4,005	9,590	3,116	14,847	23,131	1,306
Buildings with manufacturing	5,078	4,790	596	671	2,219	Q	795	3,538	Q
Buildings with electricity generation	25,642	25,155	4,035	1,414	6,857	3,710	11,356	13,943	626
Percent of floorspace heated									
Not heated	7,015	N	N	N	N	N	N	N	N
1 to 50	10,130	10,130	1,390	931	2,964	Q	1,016	6,769	Q
51 to 99	14,650	14,650	2,531	1,628	4,499	1,126	4,532	9,295	550
100	55,298	55,298	7,925	6,095	13,303	4,683	16,895	33,125	980
Heating equipment (more than one may apply)									
Heat pumps	11,846	11,846	11,846	1,347	2,961	556	3,225	5,597	Q
Furnaces	8,654	8,654	1,347	8,654	2,865	Q	1,053	4,165	Q
Individual space heaters	20,766	20,766	2,961	2,865	20,766	1,334	5,203	11,474	667
District heat	5,925	5,925	556	Q	1,334	5,925	Q	725	Q
Boilers	22,443	22,443	3,225	1,053	5,203	Q	22,443	8,817	Q
Packaged heating units	49,188	49,188	5,597	4,165	11,474	725	8,817	49,188	1,147
Other	1,574	1,574	Q	Q	667	Q	Q	1,147	1,574
Cooling equipment (more than one may apply)									
Residential-type central air conditioners	14,765	14,158	1,516	4,906	3,884	Q	2,073	8,975	356
Heat pumps	12,538	12,464	10,037	1,365	3,016	556	3,179	6,851	Q
Individual air conditioners	12,420	11,953	2,015	1,318	6,038	902	5,083	6,096	Q
District chilled water	4,608	4,561	325	Q	888	3,718	582	756	Q
Central chillers	17,041	16,685	2,333	579	4,128	1,948	11,683	7,259	Q
Packaged air conditioning units	45,153	43,820	5,282	4,004	11,336	2,056	11,510	35,944	1,228
Swamp coolers	1,918	1,879	379	Q	713	Q	486	1,416	Q
Other	328	328	Q	Q	Q	Q	Q	Q	N
Main equipment replaced since 1990 (more than one may apply)									
Heating	27,558	27,558	4,825	3,745	8,591	Q	8,332	17,733	461
Cooling	30,702	29,713	5,199	4,192	9,048	1,231	9,016	18,452	510
HVAC conservation features (more than one may apply)									
Economizer cycle	30,749	30,454	4,726	2,221	7,496	4,063	12,065	19,411	707
Regular HVAC maintenance	69,244	67,518	10,742	6,994	15,683	5,591	20,967	42,471	1,340
Building automation system (BAS) ²	37,051	36,511	5,652	2,267	7,757	4,967	14,726	21,943	1,047

Table B39. Heating equipment, floorspace, 2012

	Total floorspace (million square feet)								
	Heating equipment (more than one may apply)								
	All buildings	Buildings with space heating	Heat pumps	Furnaces	Individual space heaters	District heat	Boilers	Packaged heating units	Other
All buildings	87,093	80,078	11,846	8,654	20,766	5,925	22,443	49,188	1,574
Equipment usage reduced when building not in full use (more than one may apply)									
Heating	63,167	63,167	9,415	7,390	16,076	4,011	17,877	40,078	1,334
Cooling	62,516	60,904	9,350	7,194	15,084	4,029	17,152	39,291	1,306
Lighting	78,594	74,955	11,191	8,237	19,658	5,470	21,363	45,948	1,465

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.

Release date: April 2015
 Revised date³: January 2017

Table B40. Cooling equipment, number of buildings, 2012

	Number of buildings (thousand)									
	Cooling equipment (more than one may apply)									
	All buildings	Buildings with cooling	Residential-type central air conditioners	Heat pumps	Individual air conditioners	District chilled water	Central chillers	Packaged air conditioning units	Swamp coolers	Other
All buildings	5,557	4,461	1,546	692	709	54	163	1,909	109	Q
Building floorspace (square feet)										
1,001 to 5,000	2,777	2,062	796	321	362	Q	Q	697	58	Q
5,001 to 10,000	1,229	1,004	403	168	136	Q	Q	418	Q	N
10,001 to 25,000	884	774	246	91	116	9	36	407	Q	Q
25,001 to 50,000	332	302	72	52	46	Q	29	181	Q	Q
50,001 to 100,000	199	187	21	41	29	10	36	124	7	Q
100,001 to 200,000	90	88	7	13	12	9	23	54	Q	Q
200,001 to 500,000	38	37	2	5	7	4	18	24	Q	Q
Over 500,000	8	8	Q	1	1	1	5	5	Q	Q
Principal building activity										
Education	389	361	68	69	45	25	42	165	Q	Q
Food sales	177	165	64	Q	Q	N	Q	76	Q	N
Food service	380	358	110	37	48	Q	Q	188	21	N
Health care	157	154	58	28	8	Q	16	72	Q	Q
Inpatient	10	10	Q	2	2	1	6	6	Q	Q
Outpatient	147	145	57	26	Q	Q	10	66	Q	Q
Lodging	158	145	34	36	71	Q	11	40	Q	Q
Mercantile	602	560	209	96	73	N	Q	301	14	N
Retail (other than mall)	438	396	133	60	61	N	Q	170	Q	N
Enclosed and strip malls	164	164	76	36	12	N	Q	131	Q	N
Office	1,012	995	358	175	124	10	43	396	Q	Q
Public assembly	352	295	116	42	29	5	15	127	Q	Q
Public order and safety	84	74	23	Q	Q	Q	4	32	Q	Q
Religious worship	412	375	164	57	61	Q	Q	146	Q	Q
Service	619	435	138	50	126	N	Q	140	Q	Q
Warehouse and storage	796	391	149	57	71	N	Q	158	Q	Q
Other	125	90	39	Q	Q	Q	6	43	Q	Q
Vacant	296	63	Q	Q	Q	Q	Q	26	Q	Q
Year constructed										
Before 1920	362	275	116	29	84	Q	6	75	Q	N
1920 to 1945	488	367	153	41	100	Q	12	127	Q	Q
1946 to 1959	599	477	145	76	109	Q	18	185	Q	Q
1960 to 1969	639	538	192	71	89	11	25	241	13	Q
1970 to 1979	684	563	203	67	86	9	21	258	16	Q
1980 to 1989	915	730	234	137	87	3	26	341	13	Q
1990 to 1999	845	663	235	124	78	10	22	271	15	Q
2000 to 2003	375	321	106	40	34	5	11	157	Q	Q
2004 to 2007	347	293	86	58	29	6	9	144	Q	Q
2008 to 2012	303	235	76	50	12	Q	15	110	Q	N

Table B40. Cooling equipment, number of buildings, 2012

	Number of buildings (thousand)										
	Cooling equipment (more than one may apply)										
	All buildings	Buildings with cooling	Residential-type central air conditioners	Heat pumps	Individual air conditioners	District chilled water	Central chillers	Packaged air conditioning units	Swamp coolers	Other	
All buildings	5,557	4,461	1,546	692	709	54	163	1,909	109	Q	
Census region and division											
Northeast	805	592	178	53	190	7	26	253	Q	Q	
New England	302	187	53	16	67	Q	12	81	Q	Q	
Middle Atlantic	504	405	124	38	123	Q	14	172	Q	Q	
Midwest	1,237	970	480	65	147	2	37	362	Q	Q	
East North Central	735	601	305	33	80	2	24	235	Q	Q	
West North Central	502	370	175	32	68	Q	13	127	N	Q	
South	2,247	1,891	633	409	257	35	70	786	Q	Q	
South Atlantic	1,091	935	251	296	121	22	40	376	Q	Q	
East South Central	370	335	112	54	54	Q	8	156	N	N	
West South Central	786	621	270	59	81	6	22	254	Q	Q	
West	1,267	1,007	255	165	114	9	29	508	89	Q	
Mountain	338	259	73	31	23	1	12	125	36	Q	
Pacific	929	748	182	134	91	8	18	383	53	Q	
Climate region¹											
Very cold/Cold	2,031	1,497	586	125	279	7	63	620	51	Q	
Mixed-humid	1,743	1,482	507	337	243	18	48	568	Q	Q	
Mixed-dry/Hot-dry	837	682	182	116	71	7	20	358	42	Q	
Hot-humid	799	699	255	92	101	21	28	310	Q	Q	
Marine	147	101	Q	Q	Q	Q	4	53	Q	Q	
Number of floors											
One	3,836	2,954	1,027	465	394	17	48	1,301	89	Q	
Two	1,158	994	370	162	163	13	40	419	13	Q	
Three	374	338	120	35	105	8	27	115	Q	Q	
Four to nine	177	163	29	29	44	15	39	69	Q	Q	
Ten or more	13	12	Q	2	3	1	8	6	Q	Q	
Number of workers (main shift)											
Fewer than 5	2,892	1,932	736	272	389	Q	23	644	48	Q	
5 to 9	1,085	999	379	171	127	Q	16	418	26	Q	
10 to 19	731	699	255	95	88	Q	17	353	Q	Q	
20 to 49	513	498	136	96	60	9	28	288	8	Q	
50 to 99	206	203	30	39	23	9	35	132	6	Q	
100 to 249	93	93	10	13	16	6	27	53	Q	Q	
250 or more	37	37	1	6	5	5	19	21	Q	Q	

Table B40. Cooling equipment, number of buildings, 2012

	Number of buildings (thousand)										
	Cooling equipment (more than one may apply)										
	All buildings	Buildings with cooling	Residential-type central air conditioners	Heat pumps	Individual air conditioners	District chilled water	Central chillers	Packaged air conditioning units	Swamp coolers	Other	
All buildings	5,557	4,461	1,546	692	709	54	163	1,909	109	Q	
Weekly operating hours											
Fewer than 40	1,149	690	266	110	138	Q	8	231	Q	Q	
40 to 48	1,346	1,168	444	175	185	12	34	424	26	Q	
49 to 60	1,244	1,084	391	180	149	10	45	460	29	Q	
61 to 84	764	669	227	113	88	9	21	340	27	Q	
85 to 167	479	419	113	45	45	12	17	242	12	Q	
Open continuously	575	431	105	69	104	11	37	213	Q	Q	
Ownership and occupancy											
Nongovernment owned	4,781	3,817	1,398	567	600	17	89	1,646	96	Q	
Owner occupied	2,466	2,046	767	323	342	14	52	790	58	Q	
Leased to tenant(s)	1,745	1,421	507	183	203	2	24	692	36	Q	
Owner occupied and leased	349	324	115	58	50	1	11	155	Q	Q	
Unoccupied	221	26	Q	Q	Q	N	Q	Q	N	N	
Government owned	776	644	148	125	109	37	74	263	14	Q	
Federal	33	33	Q	Q	Q	Q	6	12	Q	Q	
State	185	159	34	30	21	20	21	62	Q	Q	
Local	558	452	102	93	82	16	47	190	Q	Q	
Party responsible for operation and maintenance of energy systems											
Building owner	4,715	3,740	1,288	595	615	53	154	1,531	93	Q	
Business owner or tenant	724	625	225	75	80	Q	6	338	Q	Q	
Property management	54	44	Q	Q	Q	Q	2	23	Q	Q	
Other	64	52	Q	Q	Q	Q	18	N	Q	Q	
Provider of direct input on energy-related equipment purchases											
Building owner	4,876	3,865	1,342	617	618	54	155	1,604	97	Q	
Business owner or tenant	540	474	165	48	78	Q	5	249	Q	Q	
Property management	35	32	Q	Q	Q	Q	Q	16	N	Q	
Other	106	90	30	24	Q	Q	41	Q	Q	N	

Table B40. Cooling equipment, number of buildings, 2012

	Number of buildings (thousand)										
	Cooling equipment (more than one may apply)										
			Resid-		Indiv-			Pack-			
	All buildings	Buildings with cooling	Residential-type central air conditioners	Individual air conditioners	District chilled water	Central chillers	Conditioning units	Swamp coolers	Other		
All buildings	5,557	4,461	1,546	692	709	54	163	1,909	109	Q	
Campus or complex activity											
Not part of a campus or complex	3,683	3,111	1,158	424	490	Q	96	1,325	80	Q	
Primary or secondary school	237	207	29	46	32	16	15	98	Q	N	
College or university	84	77	Q	15	Q	24	13	21	Q	Q	
Office complex	154	145	47	29	9	Q	5	63	Q	Q	
Retail complex	258	214	82	39	24	N	Q	124	Q	N	
Storage complex	314	58	Q	Q	21	N	N	18	Q	N	
Religious campus or complex	197	168	57	33	23	Q	Q	73	Q	Q	
Health care complex	52	50	14	9	10	Q	11	24	Q	Q	
Lodging or resort complex	65	53	Q	Q	30	Q	2	10	N	N	
Transportation complex	35	32	Q	Q	Q	Q	Q	7	N	Q	
Government complex	104	75	Q	14	11	Q	9	36	Q	Q	
Other	371	273	88	60	51	Q	5	111	Q	Q	
Renovations in buildings constructed before 2008 (more than one may apply)											
Any type of renovation	2,094	1,854	640	279	317	25	77	867	44	1	
Addition or annex	444	413	148	68	75	5	35	194	11	Q	
Reduction in floorspace	71	60	28	10	12	Q	1	23	Q	N	
Roof replacement	987	870	307	126	153	10	47	398	18	Q	
Exterior wall replacement	194	175	57	25	34	Q	6	85	Q	N	
Interior wall reconfiguration	889	816	267	127	127	15	36	429	20	Q	
Window replacement	560	516	170	94	90	Q	24	238	15	Q	
HVAC equipment upgrade	1,101	1,026	346	178	146	18	54	522	21	Q	
Lighting upgrade	982	891	272	149	151	19	47	460	29	Q	
Electrical upgrade	747	675	245	113	123	9	26	314	12	Q	
Plumbing system upgrade	644	582	202	98	103	Q	20	290	10	Q	
Insulation upgrade	382	347	124	66	58	Q	14	160	Q	Q	
Fire, safety, or security upgrade	616	569	172	100	96	13	34	301	16	Q	
Structural upgrade	152	137	41	28	24	Q	6	68	Q	Q	
Other	39	32	Q	Q	Q	Q	Q	19	Q	N	
No renovations	3,160	2,372	830	364	380	25	71	933	60	Q	
Buildings constructed 2008 or later	303	235	76	50	12	Q	15	110	Q	N	
Energy sources (more than one may apply)											
Electricity	5,234	4,461	1,546	692	709	54	163	1,909	109	Q	
Natural gas	2,933	2,700	1,012	265	385	21	127	1,311	69	Q	
Fuel oil	467	360	70	54	109	8	55	167	6	Q	
District heat	48	44	Q	2	6	26	8	11	Q	Q	
District chilled water	54	54	Q	Q	2	54	1	7	Q	Q	
Propane	510	420	160	49	107	Q	10	153	21	Q	
Other	172	126	47	22	26	Q	6	48	Q	Q	

Table B40. Cooling equipment, number of buildings, 2012

Table B40. Cooling equipment, number of buildings, 2012

	Number of buildings (thousand)										
	Cooling equipment (more than one may apply)										
	All buildings	Buildings with cooling	Residential-type central air conditioners	Heat pumps	Individual air conditioners	District chilled water	Central chillers	Packaged air conditioning units	Swamp coolers	Other	
All buildings	5,557	4,461	1,546	692	709	54	163	1,909	109	Q	
Main equipment replaced since 1990 (more than one may apply)											
Heating	1,874	1,714	587	296	295	Q	50	743	40	Q	
Cooling	1,971	1,971	707	310	404	Q	62	793	48	Q	
Separate computer areas (more than one may apply)											
Data center or server farm	97	96	13	22	13	7	26	55	1	Q	
Computer-based training room	244	242	37	45	31	8	38	150	5	Q	
Student or public computer center	238	230	49	48	41	12	43	120	6	Q	
HVAC conservation features (more than one may apply)											
Economizer cycle	601	601	85	104	59	23	75	420	20	1	
Regular HVAC maintenance	3,178	3,023	982	517	316	47	150	1,498	69	3	
Building automation system (BAS) ²	781	757	147	116	56	46	107	450	12	1	
Equipment usage reduced when building not in full use (more than one may apply)											
Heating	3,699	3,403	1,214	517	486	42	128	1,488	80	Q	
Cooling	3,517	3,517	1,256	519	518	45	128	1,530	83	Q	
Lighting	4,757	4,196	1,476	654	661	50	158	1,781	107	Q	

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)*.

³In versions of this table prior to January 2017, the row category labels for *Separate computer areas* and *HVAC conservation features* were reversed, i.e., the data in the *Separate computer areas* row category were actually for *HVAC conservation features* and vice versa.

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.

Release date: April 2015
 Revised date³: January 2017

Table B41. Cooling equipment, floorspace, 2012

	Total floorspace (million square feet)										
	Cooling equipment (more than one may apply)										
	Buildings		Resid- ential- type central air condi- tioners		Indiv- idual air condi- tioners		District chilled water		Pack- aged air condi- tioning units		Swamp coolers
	All buildings	Buildings with cooling	Buildings with cooling	Resid- ential- type central air condi- tioners	Heat pumps	Indiv- idual air condi- tioners	District chilled water	Central chillers	Pack- aged air condi- tioning units	Swamp coolers	Other
All buildings	87,093	79,294	14,765	12,538	12,420	4,608	17,041	45,153	1,918	328	
Building floorspace (square feet)											
1,001 to 5,000	8,041	6,124	2,350	983	1,027	Q	Q	2,154	155	Q	
5,001 to 10,000	8,900	7,304	2,968	1,193	972	Q	Q	3,082	Q	N	
10,001 to 25,000	14,105	12,357	3,883	1,457	1,855	145	631	6,557	Q	Q	
25,001 to 50,000	11,917	10,813	2,526	1,866	1,606	Q	1,095	6,466	Q	Q	
50,001 to 100,000	13,918	13,069	1,395	2,825	1,956	567	2,724	8,705	441	Q	
100,001 to 200,000	12,415	12,152	895	1,718	1,652	1,273	3,211	7,447	Q	Q	
200,001 to 500,000	10,724	10,518	610	1,422	2,091	1,064	5,127	6,702	Q	Q	
Over 500,000	7,074	6,958	Q	1,073	1,262	1,306	4,145	4,039	Q	Q	
Principal building activity											
Education	12,239	11,811	912	2,304	2,074	1,292	4,127	5,934	Q	Q	
Food sales	1,252	1,190	357	Q	Q	N	Q	748	Q	N	
Food service	1,819	1,712	471	189	204	Q	Q	954	85	N	
Health care	4,155	4,148	415	738	615	523	2,455	2,374	Q	Q	
Inpatient	2,374	2,374	Q	515	537	477	1,883	1,385	Q	Q	
Outpatient	1,781	1,774	349	223	Q	Q	572	989	Q	Q	
Lodging	5,826	5,700	749	1,124	2,349	Q	1,658	2,379	Q	Q	
Mercantile	11,330	11,121	2,510	1,716	763	N	419	9,094	415	N	
Retail (other than mall)	5,439	5,230	921	506	432	N	Q	3,606	Q	N	
Enclosed and strip malls	5,890	5,890	1,589	1,210	331	N	Q	5,487	Q	N	
Office	15,952	15,882	2,270	2,913	2,184	1,096	5,050	7,993	Q	Q	
Public assembly	5,559	5,235	948	661	628	880	1,038	2,672	Q	Q	
Public order and safety	1,440	1,384	248	Q	Q	Q	416	804	Q	Q	
Religious worship	4,557	4,271	1,632	714	712	Q	Q	2,229	Q	Q	
Service	4,630	3,773	1,143	414	701	N	Q	1,854	Q	Q	
Warehouse and storage	13,077	10,120	2,567	1,216	1,566	N	465	6,472	Q	Q	
Other	2,002	1,820	382	Q	Q	Q	479	969	Q	Q	
Vacant	3,256	1,125	Q	Q	Q	Q	Q	678	Q	Q	
Year constructed											
Before 1920	3,983	3,087	755	333	1,069	Q	404	1,430	Q	N	
1920 to 1945	6,025	5,215	1,311	775	1,424	Q	1,370	2,711	Q	Q	
1946 to 1959	7,381	6,679	996	1,097	1,485	203	1,755	3,674	Q	Q	
1960 to 1969	10,362	9,634	2,075	1,300	1,740	923	2,052	5,552	299	Q	
1970 to 1979	10,846	10,031	2,044	1,330	1,649	811	2,371	5,445	207	Q	
1980 to 1989	15,230	14,011	2,503	2,556	1,768	310	3,210	8,585	267	Q	
1990 to 1999	13,803	12,402	2,386	2,214	1,425	664	2,276	7,222	344	Q	
2000 to 2003	7,215	6,939	1,102	800	614	Q	1,311	4,000	Q	Q	
2004 to 2007	6,524	6,071	805	1,195	744	418	1,122	3,644	Q	Q	
2008 to 2012	5,723	5,225	786	939	503	Q	1,169	2,890	Q	N	

Table B41. Cooling equipment, floorspace, 2012

	Total floorspace (million square feet)										
	Cooling equipment (more than one may apply)										
	All buildings	Buildings with cooling	Residential-type central air conditioners	Heat pumps	Individual air conditioners	District chilled water	Central chillers	Packaged air conditioning units	Swamp coolers	Other	
All buildings	87,093	79,294	14,765	12,538	12,420	4,608	17,041	45,153	1,918	328	
Census region and division											
Northeast	15,534	13,949	1,695	1,490	3,845	794	3,489	8,697	Q	Q	
New England	4,302	3,482	451	388	1,035	Q	783	2,062	Q	Q	
Middle Atlantic	11,232	10,467	1,244	1,103	2,810	656	2,706	6,635	Q	Q	
Midwest	18,919	17,144	4,347	1,024	2,585	585	4,475	9,816	Q	Q	
East North Central	12,742	11,675	2,854	604	1,806	420	3,484	6,839	Q	Q	
West North Central	6,178	5,469	1,493	421	779	Q	991	2,977	N	Q	
South	34,279	31,734	5,895	7,108	4,263	2,479	6,460	17,185	469	Q	
South Atlantic	17,981	17,094	2,574	4,925	2,484	1,202	3,884	9,119	Q	Q	
East South Central	4,904	4,710	891	839	808	Q	831	2,686	N	N	
West South Central	11,394	9,931	2,429	1,344	971	773	1,746	5,379	Q	Q	
West	18,360	16,467	2,828	2,916	1,727	749	2,617	9,455	1,340	Q	
Mountain	4,981	4,489	668	672	565	Q	920	2,314	722	Q	
Pacific	13,379	11,978	2,160	2,244	1,162	329	1,697	7,141	617	Q	
Climate region¹											
Very cold/Cold	31,898	28,228	5,468	2,457	5,046	1,227	6,757	16,452	680	Q	
Mixed-humid	27,873	26,365	4,620	6,173	4,683	2,027	5,913	14,627	Q	Q	
Mixed-dry/Hot-dry	12,037	10,887	2,250	1,876	1,025	Q	1,348	6,306	710	Q	
Hot-humid	12,831	11,624	2,319	1,451	1,344	752	2,474	6,449	Q	Q	
Marine	2,454	2,190	Q	581	322	Q	549	1,318	Q	Q	
Number of floors											
One	39,809	34,156	8,638	5,319	3,436	219	2,072	21,523	1,161	Q	
Two	20,206	19,012	4,035	3,056	3,034	578	3,075	11,281	357	Q	
Three	8,140	7,734	1,185	1,155	1,960	404	2,116	3,795	Q	Q	
Four to nine	13,535	13,036	816	2,029	2,851	2,523	5,873	6,087	Q	Q	
Ten or more	5,404	5,356	Q	979	1,138	883	3,905	2,466	Q	Q	
Number of workers (main shift)											
Fewer than 5	17,751	11,595	3,835	1,498	1,963	Q	531	4,823	181	Q	
5 to 9	8,973	8,238	2,699	1,127	1,204	Q	334	3,980	196	Q	
10 to 19	9,623	9,190	2,854	1,442	1,348	Q	475	5,020	Q	Q	
20 to 49	14,514	14,219	2,827	2,657	2,253	505	1,765	9,001	312	Q	
50 to 99	13,476	13,323	1,445	2,538	1,630	683	3,087	9,135	461	Q	
100 to 249	10,941	10,913	886	1,358	1,868	982	3,736	6,713	Q	Q	
250 or more	11,815	11,815	218	1,918	2,153	1,986	7,112	6,481	Q	Q	

Table B41. Cooling equipment, floorspace, 2012

	Total floorspace (million square feet)										
	Cooling equipment (more than one may apply)										
	Buildings		Resid- ential- type central air condi- tioners		Indiv- idual air condi- tioners		District chilled water		Pack- aged air condi- tioning units		Swamp coolers
All buildings	All buildings	Buildings with cooling	Resid- ential- type central air condi- tioners	Heat pumps	Indiv- idual air condi- tioners	District chilled water	Central chillers	Pack- aged air condi- tioning units	Swamp coolers	Other	
All buildings	87,093	79,294	14,765	12,538	12,420	4,608	17,041	45,153	1,918	328	
Weekly operating hours											
Fewer than 40	8,220	5,083	1,601	590	947	Q	358	2,233	Q	Q	
40 to 48	15,828	14,512	3,289	2,362	1,994	521	2,421	7,330	281	Q	
49 to 60	20,529	19,297	3,857	3,546	2,510	805	4,040	10,475	489	Q	
61 to 84	15,867	15,170	2,885	2,672	1,671	524	2,560	9,911	403	Q	
85 to 167	9,395	8,864	1,300	793	1,140	606	1,764	6,117	364	Q	
Open continuously	17,253	16,368	1,832	2,574	4,158	2,005	5,897	9,087	325	Q	
Ownership and occupancy											
Nongovernment owned	67,550	60,960	12,846	9,142	9,115	2,104	10,175	36,119	1,373	Q	
Owner occupied	30,637	28,174	6,442	4,113	4,591	1,478	4,184	15,037	643	Q	
Leased to tenant(s)	26,115	23,907	4,937	3,345	2,856	297	3,678	15,687	576	Q	
Owner occupied and leased	8,873	8,602	1,431	1,673	1,657	329	2,278	5,186	Q	Q	
Unoccupied	1,925	278	Q	Q	Q	N	Q	Q	N	N	
Government owned	19,543	18,334	1,919	3,396	3,305	2,504	6,866	9,034	545	Q	
Federal	1,573	1,573	Q	Q	407	Q	932	682	Q	Q	
State	5,539	5,252	511	636	761	1,448	1,798	2,246	Q	Q	
Local	12,431	11,508	1,250	2,582	2,137	612	4,135	6,106	Q	Q	
Party responsible for operation and maintenance of energy systems											
Building owner	73,702	66,684	11,848	10,780	10,852	4,482	15,919	36,215	1,665	288	
Business owner or tenant	11,309	10,677	2,562	1,414	1,156	Q	628	7,879	Q	Q	
Property management	1,250	1,172	Q	Q	Q	Q	427	651	Q	Q	
Other	832	761	Q	Q	Q	Q	Q	407	N	Q	
Provider of direct input on energy- related equipment purchases											
Building owner	76,271	69,045	12,623	11,056	11,040	4,441	15,966	37,841	1,743	303	
Business owner or tenant	8,256	7,825	1,698	1,026	1,067	Q	528	5,763	Q	Q	
Property management	880	840	Q	Q	Q	Q	Q	566	N	Q	
Other	1,686	1,583	363	361	Q	Q	Q	982	Q	N	

Table B41. Cooling equipment, floorspace, 2012

	Total floorspace (million square feet)										
	Cooling equipment (more than one may apply)										
			Resid-			Indiv-			Pack-		
	All buildings	Buildings with cooling	Residential-type central air conditioners	Heat pumps	Individual air conditioners	District chilled water	Central chillers	Conditioning units	Packaged air conditioning	Swamp coolers	Other
All buildings	87,093	79,294	14,765	12,538	12,420	4,608	17,041	45,153	1,918	328	
Campus or complex activity											
Not part of a campus or complex	52,275	48,314	10,348	6,993	7,505	Q	9,588	28,415	1,188	Q	
Primary or secondary school	4,616	4,381	411	1,077	988	187	1,204	2,533	Q	N	
College or university	4,068	3,924	Q	333	Q	2,162	1,057	844	Q	Q	
Office complex	3,456	3,361	288	800	342	Q	1,013	1,816	Q	Q	
Retail complex	5,159	4,831	1,213	940	283	N	Q	3,998	Q	N	
Storage complex	3,212	1,244	Q	Q	333	N	N	715	Q	N	
Religious campus or complex	1,932	1,722	498	338	248	Q	Q	938	Q	Q	
Health care complex	3,362	3,316	246	571	640	730	1,987	1,578	Q	Q	
Lodging or resort complex	1,295	1,258	Q	Q	533	Q	361	341	N	N	
Transportation complex	554	481	Q	Q	Q	Q	Q	213	N	Q	
Government complex	2,107	1,953	Q	272	568	Q	748	1,063	Q	Q	
Other	5,057	4,509	1,075	823	605	Q	586	2,699	Q	Q	
Renovations in buildings constructed before 2008 (more than one may apply)											
Any type of renovation	42,216	40,191	6,835	6,446	7,346	2,626	10,705	24,655	929	261	
Addition or annex	13,022	12,778	1,841	2,050	2,877	863	4,542	8,301	307	Q	
Reduction in floorspace	1,753	1,701	349	335	420	Q	465	973	Q	N	
Roof replacement	20,917	20,036	2,908	3,285	4,057	1,276	6,553	12,529	272	Q	
Exterior wall replacement	4,230	4,119	699	675	1,057	Q	1,107	2,855	Q	N	
Interior wall reconfiguration	21,340	20,820	3,124	3,355	4,020	1,798	6,349	13,163	622	Q	
Window replacement	12,265	11,724	1,867	2,049	2,600	701	3,789	7,060	289	Q	
HVAC equipment upgrade	26,779	26,091	4,185	4,569	4,840	1,907	8,124	16,638	652	Q	
Lighting upgrade	25,503	24,754	3,602	4,161	4,695	2,002	7,670	15,750	672	Q	
Electrical upgrade	16,160	15,609	2,917	2,896	3,337	1,335	5,048	9,705	530	Q	
Plumbing system upgrade	13,828	13,453	2,391	2,454	2,870	1,029	4,254	8,468	402	Q	
Insulation upgrade	7,607	7,262	1,477	1,486	1,500	710	2,117	4,318	Q	Q	
Fire, safety, or security upgrade	17,196	16,710	2,318	3,277	3,656	1,343	6,233	10,322	572	Q	
Structural upgrade	3,913	3,794	561	777	740	Q	1,156	2,231	Q	Q	
Other	848	819	Q	Q	Q	Q	Q	512	Q	N	
No renovations	39,154	33,877	7,144	5,152	4,571	1,802	5,166	17,608	896	Q	
Buildings constructed 2008 or later	5,723	5,225	786	939	503	Q	1,169	2,890	Q	N	
Energy sources (more than one may apply)											
Electricity	84,869	79,294	14,765	12,538	12,420	4,608	17,041	45,153	1,918	328	
Natural gas	58,725	56,899	10,504	8,017	9,137	2,431	13,745	34,917	1,536	290	
Fuel oil	20,200	19,309	1,335	2,873	4,046	2,134	9,596	11,023	519	Q	
District heat	5,964	5,903	Q	575	902	3,730	1,958	2,072	Q	Q	
District chilled water	4,608	4,608	Q	268	636	4,608	393	833	Q	Q	
Propane	7,706	7,061	1,522	875	1,417	Q	1,122	4,277	316	Q	
Other	3,826	3,573	550	540	623	Q	989	2,224	Q	Q	

Table B41. Cooling equipment, floorspace, 2012

Table B41. Cooling equipment, floorspace, 2012

	Total floorspace (million square feet)										
	Cooling equipment (more than one may apply)										
			Resid-			Indiv-			Pack-		
	All buildings	Buildings with cooling	Residential-type central air conditioners	Heat pumps	Individual air conditioners	District chilled water	Central chillers	Conditioning units	Packaged air conditioning	Swamp coolers	Other
All buildings	87,093	79,294	14,765	12,538	12,420	4,608	17,041	45,153	1,918	328	
Main equipment replaced since 1990 (more than one may apply)											
Heating	27,558	26,409	5,304	5,000	5,084	Q	4,819	16,229	525	Q	
Cooling	30,702	30,702	6,332	5,424	6,522	Q	6,679	18,251	593	Q	
Separate computer areas (more than one may apply)											
Data center or server farm	11,105	11,093	453	2,215	2,279	1,682	5,842	6,206	204	Q	
Computer-based training room	17,723	17,589	1,291	3,103	3,079	1,792	7,127	10,728	522	Q	
Student or public computer center	14,341	14,090	1,483	2,607	2,774	1,793	5,379	7,523	371	Q	
HVAC conservation features (more than one may apply)											
Economizer cycle	30,749	30,749	1,983	5,147	4,218	2,929	11,210	20,743	730	265	
Regular HVAC maintenance	69,244	67,839	11,049	11,344	9,663	4,276	16,544	40,519	1,645	319	
Building automation system (BAS) ²	37,051	36,692	2,808	5,759	4,350	3,944	14,272	22,155	913	288	
Equipment usage reduced when building not in full use (more than one may apply)											
Heating	63,167	61,087	11,286	10,063	8,745	3,180	13,143	35,824	1,601	288	
Cooling	62,516	62,516	11,810	10,190	8,973	3,070	13,606	36,602	1,515	275	
Lighting	78,594	74,511	14,171	11,946	11,558	4,303	16,238	41,967	1,914	302	

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)*.

³In versions of this table prior to January 2017, the row category labels for *Separate computer areas* and *HVAC conservation features* were reversed, i.e., the data in the *Separate computer areas* row category were actually for *HVAC conservation features* and vice versa.

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.

Release date: April 2015

Revised date: May 2016

Table B42. Water-heating equipment, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	Type of water-heating equipment					Type of water-heating equipment				
	All buildings	Buildings with water heating	Centralized system	Distributed system	Both centralized and distributed systems	All buildings	Buildings with water heating	Centralized system	Distributed system	Both centralized and distributed systems
All buildings	5,557	4,423	3,348	690	385	87,093	79,015	47,534	12,688	18,793
Building floorspace (square feet)										
1,001 to 5,000	2,777	2,032	1,653	322	57	8,041	6,102	4,906	1,011	185
5,001 to 10,000	1,229	992	789	120	82	8,900	7,236	5,731	890	615
10,001 to 25,000	884	775	538	143	93	14,105	12,401	8,549	2,318	1,534
25,001 to 50,000	332	307	198	57	51	11,917	11,007	7,125	1,983	1,899
50,001 to 100,000	199	186	103	28	55	13,918	13,063	7,181	1,904	3,978
100,001 to 200,000	90	86	45	13	29	12,415	11,903	6,120	1,846	3,937
200,001 to 500,000	38	36	17	5	14	10,724	10,351	4,924	1,516	3,911
Over 500,000	8	8	4	1	3	7,074	6,951	2,998	1,220	2,734
Principal building activity										
Education	389	332	244	51	38	12,239	11,905	7,580	1,269	3,057
Food sales	177	177	155	Q	Q	1,252	1,252	883	Q	Q
Food service	380	379	307	33	39	1,819	1,817	1,449	130	237
Health care	157	156	124	22	10	4,155	4,153	2,630	449	1,074
Inpatient	10	10	6	Q	2	2,374	2,374	1,419	Q	860
Outpatient	147	146	118	21	Q	1,781	1,779	1,211	354	Q
Lodging	158	158	132	7	19	5,826	5,821	4,418	369	1,034
Mercantile	602	531	342	90	99	11,330	10,960	4,705	1,492	4,763
Retail (other than mall)	438	367	270	80	17	5,439	5,070	2,932	1,013	1,125
Enclosed and strip malls	164	164	72	10	82	5,890	5,890	1,773	479	3,638
Office	1,012	943	713	160	71	15,952	15,663	8,724	2,934	4,006
Public assembly	352	317	248	41	28	5,559	5,318	3,389	514	1,415
Public order and safety	84	80	72	Q	Q	1,440	1,341	1,139	Q	Q
Religious worship	412	383	290	70	23	4,557	4,337	2,850	711	776
Service	619	442	347	80	Q	4,630	3,763	2,695	669	Q
Warehouse and storage	796	370	252	93	26	13,077	10,041	5,204	3,449	1,388
Other	125	98	81	Q	Q	2,002	1,614	1,170	Q	Q
Vacant	296	56	44	Q	Q	3,256	1,031	700	Q	Q
Year constructed										
Before 1920	362	286	232	39	15	3,983	3,403	2,287	526	590
1920 to 1945	488	383	288	69	26	6,025	5,299	2,918	743	1,638
1946 to 1959	599	460	356	78	26	7,381	6,410	4,305	943	1,162
1960 to 1969	639	540	427	60	53	10,362	9,699	6,252	1,005	2,442
1970 to 1979	684	577	435	87	55	10,846	10,158	6,298	1,773	2,087
1980 to 1989	915	727	527	139	61	15,230	13,831	7,338	2,888	3,605
1990 to 1999	845	631	498	86	48	13,803	12,209	7,417	1,724	3,069
2000 to 2003	375	312	235	45	32	7,215	6,889	4,098	1,145	1,646
2004 to 2007	347	275	190	47	38	6,524	5,955	3,445	1,007	1,503
2008 to 2012	303	231	161	39	30	5,723	5,162	3,176	933	1,053

Table B42. Water-heating equipment, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	Type of water-heating equipment					Type of water-heating equipment				
	Buildings with water heating		Centralized system	Distrib- uted system	Both central- ized and distrib- uted systems	Buildings with water heating		Centralized system	Distrib- uted system	Both central- ized and distrib- uted systems
	All buildings	Buildings with water heating				All buildings	Buildings with water heating			
All buildings	5,557	4,423	3,348	690	385	87,093	79,015	47,534	12,688	18,793
Census region and division										
Northeast	805	671	493	123	56	15,534	14,633	9,128	2,383	3,122
New England	302	235	166	40	30	4,302	3,915	2,487	586	843
Middle Atlantic	504	436	327	83	26	11,232	10,718	6,641	1,797	2,279
Midwest	1,237	1,014	806	133	76	18,919	17,592	11,316	2,335	3,942
East North Central	735	629	490	90	49	12,742	12,082	7,606	1,671	2,804
West North Central	502	385	316	43	27	6,178	5,510	3,710	663	1,137
South	2,247	1,740	1,322	264	154	34,279	30,261	17,460	4,938	7,863
South Atlantic	1,091	856	617	160	79	17,981	16,144	8,889	3,030	4,226
East South Central	370	325	268	28	29	4,904	4,598	2,745	437	1,416
West South Central	786	560	437	76	46	11,394	9,519	5,826	1,471	2,222
West	1,267	997	728	170	99	18,360	16,529	9,631	3,032	3,866
Mountain	338	260	195	36	29	4,981	4,440	2,573	699	1,168
Pacific	929	737	533	135	69	13,379	12,089	7,058	2,333	2,698
Climate region¹										
Very cold/Cold	2,031	1,639	1,261	242	136	31,898	29,567	18,894	4,184	6,489
Mixed-humid	1,743	1,445	1,120	201	124	27,873	25,772	15,231	3,619	6,922
Mixed-dry/Hot-dry	837	635	457	124	54	12,037	10,585	6,259	2,221	2,105
Hot-humid	799	590	431	104	55	12,831	10,837	5,983	2,298	2,556
Marine	147	113	78	Q	16	2,454	2,255	1,168	366	721
Number of floors										
One	3,836	2,862	2,179	451	231	39,809	33,591	20,177	6,094	7,321
Two	1,158	1,039	786	156	97	20,206	19,088	11,762	3,133	4,194
Three	374	344	259	58	26	8,140	7,932	5,148	1,181	1,602
Four to nine	177	166	118	23	26	13,535	13,141	7,998	1,646	3,497
Ten or more	13	12	6	2	5	5,404	5,264	2,450	635	2,179
Number of workers (main shift)										
Fewer than 5	2,892	1,917	1,547	292	78	17,751	11,783	8,984	1,713	1,086
5 to 9	1,085	977	777	140	61	8,973	8,205	6,262	1,188	755
10 to 19	731	700	515	118	66	9,623	9,137	6,320	1,690	1,126
20 to 49	513	495	319	78	98	14,514	14,097	7,957	2,282	3,859
50 to 99	206	203	122	36	46	13,476	13,171	7,105	2,192	3,873
100 to 249	93	93	51	20	23	10,941	10,912	5,614	1,893	3,404
250 or more	37	37	17	6	14	11,815	11,711	5,292	1,730	4,689

Table B42. Water-heating equipment, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)					
	Type of water-heating equipment					Type of water-heating equipment					
	All buildings	Buildings with water heating	Centralized system	Distributed system	Both centralized and distributed systems	All buildings	Buildings with water heating	Centralized system	Distributed system	Both centralized and distributed systems	
All buildings	5,557	4,423	3,348	690	385	87,093	79,015	47,534	12,688	18,793	
Weekly operating hours											
Fewer than 40	1,149	703	575	97	31	8,220	5,137	3,777	659	701	
40 to 48	1,346	1,107	843	193	71	15,828	14,388	9,155	2,631	2,602	
49 to 60	1,244	1,063	789	184	89	20,529	18,878	11,623	3,487	3,768	
61 to 84	764	676	467	111	98	15,867	15,304	7,601	2,621	5,082	
85 to 167	479	428	315	67	46	9,395	8,937	5,247	1,470	2,220	
Open continuously	575	447	359	38	49	17,253	16,371	10,131	1,820	4,420	
Ownership and occupancy											
Nongovernment owned	4,781	3,791	2,851	617	323	67,550	60,645	35,837	11,091	13,717	
Owner occupied	2,466	2,048	1,634	289	125	30,637	27,869	19,154	4,090	4,626	
Leased to tenant(s)	1,745	1,401	1,001	251	149	26,115	23,900	12,749	4,804	6,347	
Owner occupied and leased	349	316	195	75	46	8,873	8,544	3,698	2,181	2,665	
Unoccupied	221	26	21	Q	Q	1,925	332	237	Q	Q	
Government owned	776	632	497	72	62	19,543	18,370	11,697	1,596	5,076	
Federal	33	33	29	Q	3	1,573	1,565	837	Q	626	
State	185	146	106	22	19	5,539	5,270	3,188	746	1,336	
Local	558	452	362	50	40	12,431	11,535	7,672	749	3,115	
Party responsible for operation and maintenance of energy systems											
Building owner	4,715	3,706	2,841	580	285	73,702	66,462	41,135	10,474	14,852	
Business owner or tenant	724	617	432	98	87	11,309	10,617	5,269	1,896	3,452	
Property management	54	42	29	Q	7	1,250	1,177	600	Q	400	
Other	64	57	46	Q	Q	832	759	531	Q	Q	
Provider of direct input on energy-related equipment purchases											
Building owner	4,876	3,830	2,933	591	306	76,271	68,848	42,370	10,971	15,507	
Business owner or tenant	540	466	317	85	64	8,256	7,779	3,962	1,345	2,471	
Property management	35	29	23	Q	Q	880	784	378	Q	Q	
Other	106	98	75	Q	12	1,686	1,605	824	Q	549	

Table B42. Water-heating equipment, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)					
	Type of water-heating equipment					Type of water-heating equipment					
	Buildings with water heating		Centralized system	Distrib- uted system	Both centralized and distrib- uted systems	Buildings with water heating		Centralized system	Distrib- uted system	Both centralized and distrib- uted systems	
	All buildings	water heating				All buildings	water heating				
All buildings	5,557	4,423	3,348	690	385	87,093	79,015	47,534	12,688	18,793	
Campus or complex activity											
Not part of a campus or complex	3,683	3,084	2,369	467	248	52,275	47,942	29,176	8,061	10,705	
Primary or secondary school	237	165	115	32	19	4,616	4,214	2,522	496	1,196	
College or university	84	79	63	8	8	4,068	4,010	2,951	472	587	
Office complex	154	141	93	33	15	3,456	3,395	1,606	691	1,097	
Retail complex	258	218	139	26	53	5,159	4,921	2,014	482	2,425	
Storage complex	314	52	29	22	Q	3,212	1,284	643	545	Q	
Religious campus or complex	197	181	136	36	Q	1,932	1,810	1,159	344	Q	
Health care complex	52	50	42	Q	7	3,362	3,314	2,278	Q	912	
Lodging or resort complex	65	61	53	Q	Q	1,295	1,275	1,048	Q	Q	
Transportation complex	35	32	27	Q	(*)	554	494	193	Q	200	
Government complex	104	81	71	Q	2	2,107	1,886	1,359	Q	415	
Other	371	278	209	49	20	5,057	4,470	2,584	1,228	658	
Renovations in buildings constructed before 2008 (more than one may apply)											
Any type of renovation	2,094	1,886	1,393	297	196	42,216	40,289	22,231	6,390	11,668	
Addition or annex	444	424	296	74	54	13,022	12,835	7,022	1,819	3,994	
Reduction in floorspace	71	62	52	Q	5	1,753	1,715	935	Q	485	
Roof replacement	987	881	654	133	94	20,917	20,189	10,907	3,186	6,095	
Exterior wall replacement	194	174	130	27	17	4,230	4,144	2,261	788	1,096	
Interior wall reconfiguration	889	813	563	136	114	21,340	20,777	10,449	3,418	6,911	
Window replacement	560	526	352	107	66	12,265	11,984	6,237	1,983	3,765	
HVAC equipment upgrade	1,101	1,019	722	173	123	26,779	26,061	13,578	4,230	8,253	
Lighting upgrade	982	920	660	150	110	25,503	24,671	12,695	3,900	8,076	
Electrical upgrade	747	681	487	109	85	16,160	15,675	8,123	2,398	5,154	
Plumbing system upgrade	644	601	422	98	81	13,828	13,544	7,147	1,944	4,452	
Insulation upgrade	382	353	248	61	44	7,607	7,331	3,785	1,176	2,370	
Fire, safety, or security upgrade	616	585	407	101	77	17,196	16,864	8,874	2,709	5,281	
Structural upgrade	152	144	108	20	16	3,913	3,853	2,137	518	1,198	
Other	39	34	25	Q	Q	848	829	321	Q	Q	
No renovations	3,160	2,306	1,794	354	158	39,154	33,564	22,127	5,365	6,073	
Buildings constructed 2008 or later	303	231	161	39	30	5,723	5,162	3,176	933	1,053	
Energy sources (more than one may apply)											
Electricity	5,234	4,423	3,348	690	385	84,869	79,015	47,534	12,688	18,793	
Natural gas	2,933	2,742	2,073	388	282	58,725	57,019	34,005	8,211	14,803	
Fuel oil	467	411	314	52	45	20,200	19,708	10,979	2,510	6,219	
District heat	48	45	30	6	8	5,964	5,822	3,596	501	1,725	
District chilled water	54	51	24	19	7	4,608	4,511	2,907	450	1,154	
Propane	510	466	357	72	38	7,706	7,383	4,491	1,127	1,765	
Other	172	141	104	23	14	3,826	3,679	2,260	475	944	

Table B42. Water-heating equipment, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)					
	Type of water-heating equipment					Type of water-heating equipment					
	Buildings with water heating		Centralized system		Distrib- uted system	Both central- ized and distrib- uted systems	Buildings with water heating		Centralized system		Distrib- uted system
	All buildings	water heating	All buildings	Centralized system	Distrib- uted system	Both central- ized and distrib- uted systems	All buildings	water heating	All buildings	Centralized system	Distrib- uted system
All buildings	5,557	4,423	3,348	690	385	87,093	79,015	47,534	12,688	18,793	
Water-heating energy sources (more than one may apply)											
Electricity	2,658	2,658	1,901	508	250	42,755	42,755	21,435	9,362	11,957	
Natural gas	1,758	1,758	1,367	182	209	39,523	39,523	24,806	4,088	10,629	
Fuel oil	77	77	63	Q	7	1,911	1,911	1,318	Q	467	
District heat	25	25	19	3	4	4,551	4,551	3,002	325	1,224	
Propane	142	142	106	Q	14	1,575	1,575	1,006	Q	348	
Energy end uses (more than one may apply)											
Buildings with space heating	4,722	4,237	3,229	634	374	80,078	76,584	46,147	11,914	18,523	
Buildings with cooling	4,461	4,097	3,093	631	374	79,294	76,414	45,554	12,198	18,662	
Buildings with water heating	4,423	4,423	3,348	690	385	79,015	79,015	47,534	12,688	18,793	
Buildings with cooking	1,589	1,573	1,190	176	208	38,546	38,389	21,608	4,102	12,679	
Buildings with manufacturing	259	228	150	55	22	5,078	4,570	2,431	1,148	990	
Buildings with electricity generation	410	395	292	34	69	25,642	25,280	14,045	2,858	8,378	
Food preparation or serving areas in non-food service buildings (more than one may apply)											
Snack bar or concession stand	153	150	95	17	38	9,884	9,864	4,357	899	4,608	
Fast food or small restaurant	173	173	97	13	63	9,787	9,778	3,500	1,131	5,147	
Cafeteria or large restaurant	130	130	81	12	38	15,222	15,219	8,204	1,429	5,587	
Commercial kitchen/ food preparation area	282	282	181	41	60	16,150	16,150	8,757	1,491	5,901	
Small kitchen area	736	723	577	82	64	14,054	13,926	8,428	1,284	4,213	

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.

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

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.

Release date: April 2015
 Revised date: May 2016

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

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
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

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
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

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
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

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
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

Table B43. Lighting equipment, number of buildings, 2012

	Number of buildings (thousand)							
	Lighting equipment (more than one may apply)							
	All buildings	Lit buildings	Incand-escent	Standard fluor-escent	Compact fluor-escent	High-intensity discharge	Halogen	LED
All buildings	5,557	5,025	1,826	4,649	2,302	525	905	473

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.

Release date: April 2015
 Revised date: May 2016

Table B44. Lighting equipment, floorspace, 2012

	Total floorspace (million square feet)								
	Lighting equipment (more than one may apply)								
	All buildings	Lit buildings	Incandescent	Standard fluorescent	Compact fluorescent	High-intensity discharge	Halogen	LED	
All buildings	87,093	83,569	38,406	80,081	53,816	23,396	28,059	22,071	
Building floorspace (square feet)									
1,001 to 5,000	8,041	7,130	2,453	6,466	2,815	373	944	348	
5,001 to 10,000	8,900	8,152	2,917	7,589	3,740	736	1,487	714	
10,001 to 25,000	14,105	13,250	4,987	12,533	6,767	2,175	2,903	1,882	
25,001 to 50,000	11,917	11,542	4,788	11,063	6,970	2,712	3,556	2,252	
50,001 to 100,000	13,918	13,564	6,218	13,217	9,652	3,766	4,989	3,479	
100,001 to 200,000	12,415	12,282	6,239	11,745	9,078	4,244	4,605	3,919	
200,001 to 500,000	10,724	10,634	6,002	10,552	8,775	4,981	5,161	4,866	
Over 500,000	7,074	7,014	4,803	6,915	6,021	4,409	4,413	4,612	
Principal building activity									
Education	12,239	12,239	5,004	12,180	8,559	4,376	3,069	2,135	
Food sales	1,252	1,252	443	1,232	560	Q	271	323	
Food service	1,819	1,819	924	1,671	1,177	121	496	275	
Health care	4,155	4,155	2,391	4,074	3,535	1,448	1,875	2,245	
Inpatient	2,374	2,374	1,745	2,373	2,260	1,217	1,452	1,647	
Outpatient	1,781	1,781	646	1,701	1,275	231	423	598	
Lodging	5,826	5,817	3,585	5,409	5,258	1,848	2,696	2,024	
Mercantile	11,330	11,320	6,646	10,714	8,053	3,959	5,925	5,118	
Retail (other than mall)	5,439	5,430	1,671	4,864	2,712	891	1,608	1,295	
Enclosed and strip malls	5,890	5,890	4,975	5,850	5,341	3,069	4,317	3,824	
Office	15,952	15,952	7,541	15,547	11,438	3,858	5,598	5,034	
Public assembly	5,559	5,527	3,035	5,208	4,125	1,922	2,172	1,955	
Public order and safety	1,440	1,414	623	1,375	1,086	404	416	360	
Religious worship	4,557	4,557	3,015	4,293	3,187	839	1,540	902	
Service	4,630	4,379	1,026	4,142	1,569	980	1,024	Q	
Warehouse and storage	13,077	12,079	3,094	11,280	4,040	2,934	2,438	998	
Other	2,002	1,930	790	1,880	783	383	344	290	
Vacant	3,256	1,128	288	1,076	445	Q	Q	Q	
Year constructed									
Before 1920	3,983	3,715	2,292	3,280	2,346	763	1,208	744	
1920 to 1945	6,025	5,774	2,750	5,472	3,714	1,337	1,948	1,528	
1946 to 1959	7,381	7,087	3,494	6,860	4,340	1,785	2,028	1,306	
1960 to 1969	10,362	10,061	4,629	9,857	6,463	2,525	2,948	2,224	
1970 to 1979	10,846	10,354	5,560	9,992	6,913	3,311	3,418	2,632	
1980 to 1989	15,230	14,688	6,972	14,263	9,199	4,591	5,124	4,374	
1990 to 1999	13,803	12,856	5,494	12,267	8,327	4,127	4,364	3,489	
2000 to 2003	7,215	7,100	2,874	6,810	4,692	2,072	2,580	1,915	
2004 to 2007	6,524	6,378	2,745	6,209	4,249	1,770	2,514	2,113	
2008 to 2012	5,723	5,556	1,595	5,070	3,574	1,116	1,929	1,747	

Table B44. Lighting equipment, floorspace, 2012

	Total floorspace (million square feet)								
	Lighting equipment (more than one may apply)								
	All buildings	Lit buildings	Incandescent	Standard fluorescent	Compact fluorescent	High-intensity discharge	Halogen	LED	
All buildings	87,093	83,569	38,406	80,081	53,816	23,396	28,059	22,071	
Census region and division									
Northeast	15,534	15,071	7,565	14,473	10,771	4,510	5,267	4,752	
New England	4,302	4,062	2,046	3,771	2,886	1,161	1,494	1,363	
Middle Atlantic	11,232	11,009	5,520	10,702	7,886	3,349	3,774	3,388	
Midwest	18,919	18,190	9,038	17,514	11,841	5,357	6,169	5,148	
East North Central	12,742	12,323	6,180	11,880	8,336	4,102	4,590	3,759	
West North Central	6,178	5,867	2,858	5,634	3,505	1,255	1,578	1,389	
South	34,279	32,621	14,581	31,363	20,042	9,347	10,970	7,559	
South Atlantic	17,981	17,449	7,828	16,888	10,855	5,325	6,161	4,553	
East South Central	4,904	4,726	2,468	4,573	2,923	1,182	1,349	1,232	
West South Central	11,394	10,446	4,286	9,901	6,263	2,841	3,459	1,774	
West	18,360	17,687	7,222	16,732	11,163	4,182	5,653	4,612	
Mountain	4,981	4,677	2,253	4,529	3,007	1,314	1,663	1,513	
Pacific	13,379	13,010	4,969	12,203	8,156	2,868	3,990	3,099	
Climate region¹									
Very cold/Cold	31,898	30,542	14,837	29,315	20,485	8,734	10,366	9,156	
Mixed-humid	27,873	27,096	13,429	26,407	17,410	8,547	9,391	6,936	
Mixed-dry/Hot-dry	12,037	11,670	4,139	11,018	6,692	2,661	3,257	2,514	
Hot-humid	12,831	11,881	4,769	11,096	7,285	3,035	4,152	2,733	
Marine	2,454	2,381	1,232	2,246	1,944	420	893	732	
Number of floors									
One	39,809	37,113	13,966	34,818	18,664	8,474	9,952	6,930	
Two	20,206	19,726	9,208	19,068	12,629	5,326	5,781	3,905	
Three	8,140	8,055	3,886	7,767	5,761	2,239	2,789	1,950	
Four to nine	13,535	13,307	7,842	13,083	11,610	4,469	6,053	5,642	
Ten or more	5,404	5,368	3,504	5,344	5,152	2,888	3,484	3,645	
Number of workers (main shift)									
Fewer than 5	17,751	14,286	4,834	12,622	6,162	1,664	2,418	993	
5 to 9	8,973	8,925	3,346	8,446	4,404	1,445	1,953	902	
10 to 19	9,623	9,614	3,753	9,292	5,181	1,673	2,355	1,360	
20 to 49	14,514	14,512	6,370	14,195	9,078	3,603	4,800	3,548	
50 to 99	13,476	13,476	6,902	13,040	9,597	4,563	5,243	4,223	
100 to 249	10,941	10,941	5,568	10,782	8,461	4,441	4,227	4,231	
250 or more	11,815	11,815	7,633	11,704	10,933	6,007	7,062	6,814	
Weekly operating hours									
Fewer than 40	8,220	5,514	2,684	5,037	2,645	754	1,073	445	
40 to 48	15,828	15,693	6,209	15,156	7,767	3,063	3,615	1,876	
49 to 60	20,529	20,401	7,753	19,671	12,581	5,227	5,702	4,094	
61 to 84	15,867	15,773	8,805	15,372	11,430	5,341	6,696	6,080	
85 to 167	9,395	9,336	4,289	8,702	6,225	2,726	3,544	2,832	
Open continuously	17,253	16,852	8,667	16,144	13,169	6,286	7,428	6,745	

Table B44. Lighting equipment, floorspace, 2012

	Total floorspace (million square feet)								
	Lighting equipment (more than one may apply)								
	All buildings	Lit buildings	Incandescent	Standard fluorescent	Compact fluorescent	High-intensity discharge	Halogen	LED	
All buildings	87,093	83,569	38,406	80,081	53,816	23,396	28,059	22,071	
Ownership and occupancy									
Nongovernment owned	67,550	64,509	29,885	61,330	40,348	16,399	22,488	17,210	
Owner occupied	30,637	29,949	13,181	28,109	18,432	6,238	8,652	6,135	
Leased to tenant(s)	26,115	25,543	11,650	24,494	15,538	6,932	9,504	7,422	
Owner occupied and leased	8,873	8,778	5,011	8,508	6,323	3,190	4,293	3,647	
Unoccupied	1,925	239	Q	219	Q	Q	Q	Q	
Government owned	19,543	19,060	8,522	18,751	13,469	6,998	5,571	4,862	
Federal	1,573	1,573	761	1,572	1,288	804	949	798	
State	5,539	5,412	2,581	5,320	4,009	1,955	1,716	1,480	
Local	12,431	12,074	5,180	11,859	8,171	4,238	2,906	2,584	
Party responsible for operation and maintenance of energy systems									
Building owner	73,702	70,469	31,846	67,399	46,163	19,310	22,602	17,924	
Business owner or tenant	11,309	11,045	5,466	10,748	6,369	3,351	4,596	3,455	
Property management	1,250	1,230	681	1,127	841	462	628	502	
Other	832	825	413	807	444	Q	Q	Q	
Provider of direct input on energy-related equipment purchases									
Building owner	76,271	72,961	33,177	69,883	47,361	19,929	23,577	18,671	
Business owner or tenant	8,256	8,059	3,996	7,819	4,871	2,621	3,448	2,431	
Property management	880	880	411	733	573	330	453	360	
Other	1,686	1,668	822	1,647	1,012	517	581	609	
Campus or complex activity									
Not part of a campus or complex	52,275	50,347	23,510	48,384	31,219	12,969	16,382	11,924	
Primary or secondary school	4,616	4,580	1,947	4,534	2,857	1,742	1,103	792	
College or university	4,068	3,990	1,216	3,928	3,521	876	1,147	1,197	
Office complex	3,456	3,383	1,586	3,281	2,536	910	1,329	1,204	
Retail complex	5,159	5,011	3,088	4,795	3,723	1,995	2,705	2,325	
Storage complex	3,212	2,360	397	1,951	695	566	Q	Q	
Religious campus or complex	1,932	1,911	1,294	1,704	1,189	379	666	438	
Health care complex	3,362	3,302	2,212	3,289	2,973	1,372	1,671	1,810	
Lodging or resort complex	1,295	1,284	675	1,088	1,113	520	573	Q	
Transportation complex	554	526	231	499	356	223	209	211	
Government complex	2,107	2,087	798	2,005	1,436	660	683	608	
Other	5,057	4,787	1,453	4,622	2,199	1,184	1,371	953	

Table B44. Lighting equipment, floorspace, 2012

	Total floorspace (million square feet)								
	Lighting equipment (more than one may apply)								
	All buildings	Lit buildings	Incandescent	Standard fluorescent	Compact fluorescent	High-intensity discharge	Halogen	LED	
All buildings	87,093	83,569	38,406	80,081	53,816	23,396	28,059	22,071	
Renovations in buildings constructed before 2008 (more than one may apply)									
Any type of renovation	42,216	41,479	21,682	40,110	29,853	13,577	16,029	13,577	
Addition or annex	13,022	12,924	7,595	12,770	9,867	5,170	5,328	4,711	
Reduction in floorspace	1,753	1,718	1,071	1,652	1,287	738	581	603	
Roof replacement	20,917	20,674	11,459	20,154	15,616	7,578	8,126	7,492	
Exterior wall replacement	4,230	4,197	2,231	4,118	3,247	1,569	1,951	1,725	
Interior wall reconfiguration	21,340	21,006	11,613	20,643	16,528	7,193	9,477	8,549	
Window replacement	12,265	12,193	6,862	11,805	9,675	4,328	5,358	4,526	
HVAC equipment upgrade	26,779	26,504	14,715	25,911	20,410	9,918	11,421	9,614	
Lighting upgrade	25,503	25,268	13,502	24,681	19,342	8,933	10,688	9,803	
Electrical upgrade	16,160	15,948	9,523	15,553	12,613	5,533	7,293	6,345	
Plumbing system upgrade	13,828	13,701	8,026	13,354	11,096	4,748	6,417	5,653	
Insulation upgrade	7,607	7,471	4,343	7,377	5,782	2,503	3,255	3,303	
Fire, safety, or security upgrade	17,196	17,108	9,766	16,727	13,892	6,325	7,996	7,226	
Structural upgrade	3,913	3,876	2,199	3,791	3,152	1,316	1,902	1,672	
Other	848	848	499	848	656	Q	492	391	
No renovations	39,154	36,534	15,129	34,901	20,389	8,704	10,101	6,748	
Buildings constructed 2008 or later	5,723	5,556	1,595	5,070	3,574	1,116	1,929	1,747	
Energy sources (more than one may apply)									
Electricity	84,869	83,569	38,406	80,081	53,816	23,396	28,059	22,071	
Natural gas	58,725	58,278	29,672	56,575	40,392	18,328	21,261	17,539	
Fuel oil	20,200	20,120	11,355	19,742	16,251	8,782	9,690	8,933	
District heat	5,964	5,873	3,161	5,781	5,314	2,555	2,769	2,871	
District chilled water	4,608	4,545	2,284	4,516	4,071	1,729	1,805	1,941	
Propane	7,706	7,652	3,803	7,281	4,622	2,584	2,865	2,098	
Other	3,826	3,784	1,735	3,685	2,664	957	1,466	1,247	
Energy end uses (more than one may apply)									
Buildings with space heating	80,078	79,384	37,292	76,646	52,287	22,631	27,225	21,503	
Buildings with cooling	79,294	78,876	37,119	76,125	52,285	22,734	27,618	21,869	
Buildings with water heating	79,015	78,622	37,160	75,803	52,606	22,834	27,589	21,894	
Buildings with cooking	38,546	38,494	23,469	37,728	30,809	14,810	17,558	15,043	
Buildings with manufacturing	5,078	5,044	2,387	4,928	2,363	1,421	1,506	751	
Buildings with electricity generation	25,642	25,605	13,305	25,096	21,247	10,397	12,027	11,434	
Percent lit when open									
Zero	322	Q	Q	Q	Q	N	N	Q	
1 to 50	12,628	12,628	4,867	11,798	6,202	2,418	2,884	1,937	
51 to 99	34,814	34,814	19,106	33,816	25,376	11,003	15,045	11,847	
100	35,726	35,726	14,283	34,132	22,087	9,929	10,084	8,278	
Building never open/electricity not used	3,603	371	Q	326	Q	Q	Q	Q	

Table B44. Lighting equipment, floorspace, 2012

	Total floorspace (million square feet)								
	Lighting equipment (more than one may apply)								
	All buildings	Lit buildings	Incandescent	Standard fluorescent	Compact fluorescent	High-intensity discharge	Halogen	LED	
All buildings	87,093	83,569	38,406	80,081	53,816	23,396	28,059	22,071	
Percent lit during off hours									
Zero	24,746	23,500	8,122	21,910	11,540	4,722	4,692	3,038	
1 to 50	50,753	50,753	25,337	49,312	35,189	15,141	19,374	15,404	
51 to 100	6,926	6,926	3,936	6,568	5,611	2,627	3,022	2,712	
Building always open with no "off hours"	2,443	2,390	1,012	2,291	1,477	906	970	917	
Electricity not used	2,225	N	N	N	N	N	N	N	
Lighting equipment types (more than one may apply)									
Incandescent	38,406	38,406	38,406	37,447	30,603	15,324	19,550	15,118	
Standard fluorescent	80,081	80,081	37,447	80,081	51,568	22,703	27,403	21,386	
Compact fluorescent	53,816	53,816	30,603	51,568	53,816	18,808	23,433	19,584	
High-intensity discharge	23,396	23,396	15,324	22,703	18,808	23,396	13,211	10,729	
Halogen	28,059	28,059	19,550	27,403	23,433	13,211	28,059	13,934	
LED	22,071	22,071	15,118	21,386	19,584	10,729	13,934	22,071	
Other	446	446	390	446	446	Q	361	357	
Window and interior lighting features (more than one may apply)									
Multipaned windows	60,362	59,205	29,012	57,237	41,014	18,216	21,614	17,864	
Tinted window glass	45,025	44,068	21,931	42,856	31,503	15,006	17,327	14,758	
Reflective window glass	15,908	15,759	8,748	15,232	12,668	6,287	7,896	6,873	
External overhangs or awnings	32,188	31,869	17,405	30,762	23,268	10,433	13,417	10,694	
Skylights or atriums	22,261	21,902	11,479	21,291	16,651	8,534	10,239	8,409	
Light scheduling	30,263	30,263	16,639	29,056	24,267	12,845	15,175	12,888	
Occupancy sensors	35,871	35,871	18,510	34,858	28,252	13,754	16,401	15,662	
Multi-level lighting or dimming	14,534	14,534	9,302	13,971	12,688	6,520	8,888	7,984	
Daylight harvesting	6,114	6,114	3,387	6,032	4,887	2,868	3,341	3,980	
Demand responsive lighting	4,738	4,738	2,946	4,506	3,502	2,061	2,437	2,251	
Building automation system (BAS) for lighting ²	12,068	12,068	6,984	11,721	10,143	5,684	6,577	6,766	
Equipment usage reduced when building not in full use (more than one may apply)									
Heating	63,167	62,669	30,314	60,546	42,331	18,572	21,904	17,671	
Cooling	62,516	62,156	30,210	59,941	42,180	18,424	22,268	17,939	
Lighting	78,594	78,594	36,405	75,380	51,068	21,872	26,646	20,668	

Table B44. Lighting equipment, floorspace, 2012

	Total floorspace (million square feet)								
	Lighting equipment (more than one may apply)								
	All buildings	Lit buildings	Incandescent	Standard fluorescent	Compact fluorescent	High-intensity discharge	Halogen	LED	
All buildings	87,093	83,569	38,406	80,081	53,816	23,396	28,059	22,071	

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.

Release date: April 2015

Revised date: May 2016

Table B45. Refrigeration equipment, number of buildings, 2012

	Number of buildings (thousand)									
	Type of refrigeration equipment (more than one may apply)									
	All buildings	Buildings with any refrigeration equipment	Walk-in units	Open cases or cabinets	Closed cases or cabinets	Large cold storage areas	Commercial ice makers	Residential-type or compact units	Vending machines	
All buildings	5,557	3,984	811	295	826	78	846	3,388	960	
Building floorspace (square feet)										
1,001 to 5,000	2,777	1,815	344	103	344	Q	279	1,520	182	
5,001 to 10,000	1,229	903	150	57	163	Q	172	791	167	
10,001 to 25,000	884	688	116	48	130	Q	147	585	236	
25,001 to 50,000	332	276	60	23	68	Q	82	239	153	
50,001 to 100,000	199	177	73	29	60	9	90	150	117	
100,001 to 200,000	90	82	40	20	35	6	44	68	66	
200,001 to 500,000	38	35	22	13	20	4	25	29	31	
Over 500,000	8	8	5	3	4	1	6	7	7	
Principal building activity										
Education	389	277	80	21	71	Q	68	229	97	
Food sales	177	175	145	74	126	19	85	58	44	
Food service	380	380	293	72	233	Q	259	201	42	
Health care	157	142	9	6	15	1	18	139	36	
Inpatient	10	10	8	3	5	1	9	9	9	
Outpatient	147	132	Q	Q	9	Q	9	131	27	
Lodging	158	144	37	4	32	Q	61	126	68	
Mercantile	602	500	149	83	181	19	113	417	173	
Retail (other than mall)	438	338	47	18	76	Q	21	265	76	
Enclosed and strip malls	164	162	102	66	105	11	91	152	97	
Office	1,012	816	23	10	39	Q	72	788	179	
Public assembly	352	268	28	15	48	Q	51	243	48	
Public order and safety	84	78	Q	Q	Q	Q	21	71	24	
Religious worship	412	351	Q	Q	36	Q	39	330	12	
Service	619	415	Q	N	Q	N	Q	384	118	
Warehouse and storage	796	314	19	Q	11	12	29	286	90	
Other	125	82	7	Q	8	Q	6	77	21	
Vacant	296	44	Q	Q	Q	N	Q	37	Q	
Year constructed										
Before 1920	362	257	44	18	54	Q	32	233	23	
1920 to 1945	488	344	53	18	74	Q	45	296	47	
1946 to 1959	599	433	71	24	72	Q	75	377	89	
1960 to 1969	639	476	101	36	98	9	100	410	138	
1970 to 1979	684	498	115	36	96	7	101	427	135	
1980 to 1989	915	626	132	40	123	17	147	528	169	
1990 to 1999	845	595	132	42	139	14	160	481	149	
2000 to 2003	375	280	63	28	60	3	59	234	82	
2004 to 2007	347	255	52	27	50	9	53	217	66	
2008 to 2012	303	220	48	26	61	Q	74	185	62	

Table B45. Refrigeration equipment, number of buildings, 2012

	Number of buildings (thousand)									
	Type of refrigeration equipment (more than one may apply)									
	All buildings	Buildings with any refrigeration equipment	Walk-in units	Open cases or cabinets	Closed cases or cabinets	Large cold storage areas	Commercial ice makers	Residential-type or compact units	Vending machines	
All buildings	5,557	3,984	811	295	826	78	846	3,388	960	
Census region and division										
Northeast	805	593	139	51	155	12	101	511	135	
New England	302	212	59	16	64	Q	36	186	47	
Middle Atlantic	504	381	81	35	91	11	64	325	88	
Midwest	1,237	898	175	53	190	14	167	795	194	
East North Central	735	566	113	38	121	9	111	495	117	
West North Central	502	332	62	16	68	Q	55	300	77	
South	2,247	1,630	332	125	313	33	412	1,342	436	
South Atlantic	1,091	789	180	71	167	19	216	640	220	
East South Central	370	311	51	23	59	Q	77	261	89	
West South Central	786	530	100	32	87	7	119	441	126	
West	1,267	864	166	65	169	19	166	740	195	
Mountain	338	222	43	17	44	Q	49	185	51	
Pacific	929	641	122	48	125	14	118	554	145	
Climate region¹										
Very cold/Cold	2,031	1,427	295	89	326	26	266	1,250	321	
Mixed-humid	1,743	1,313	272	114	274	27	311	1,091	327	
Mixed-dry/Hot-dry	837	575	90	41	94	10	100	498	130	
Hot-humid	799	566	126	41	107	12	142	455	157	
Marine	147	104	28	10	Q	Q	25	94	25	
Number of floors										
One	3,836	2,602	553	212	540	50	541	2,176	563	
Two	1,158	915	151	49	165	20	183	800	235	
Three	374	301	59	16	74	Q	60	267	78	
Four to nine	177	154	43	15	40	4	54	135	75	
Ten or more	13	12	6	3	6	(*)	7	10	10	
Number of workers (main shift)										
Fewer than 5	2,892	1,697	229	73	282	Q	232	1,449	195	
5 to 9	1,085	899	169	66	185	Q	167	764	169	
10 to 19	731	632	150	43	134	Q	160	532	159	
20 to 49	513	445	139	57	118	14	141	379	205	
50 to 99	206	190	75	30	55	8	80	162	132	
100 to 249	93	86	34	17	36	7	43	72	69	
250 or more	37	35	16	9	16	2	23	30	31	
Weekly operating hours										
Fewer than 40	1,149	604	32	Q	60	Q	60	576	27	
40 to 48	1,346	986	65	24	72	Q	87	916	178	
49 to 60	1,244	965	96	24	129	8	137	877	250	
61 to 84	764	624	238	88	237	30	205	486	226	
85 to 167	479	409	243	89	221	19	190	226	127	
Open continuously	575	395	136	59	107	12	167	307	151	

Table B45. Refrigeration equipment, number of buildings, 2012

Table B45. Refrigeration equipment, number of buildings, 2012

	Number of buildings (thousand)									
	Type of refrigeration equipment (more than one may apply)									
	All buildings	Buildings with any refrigeration equipment	Walk-in units	Open cases or cabinets	Closed cases or cabinets	Large cold storage areas	Commercial ice makers	Residential-type or compact units	Compact units	Vending machines
All buildings	5,557	3,984	811	295	826	78	846	3,388	960	
Food preparation or serving areas in non-food service buildings (more than one may apply)										
Snack bar or concession stand	153	153	97	58	81	18	89	115	72	
Fast food or small restaurant	173	173	143	80	125	15	118	129	88	
Cafeteria or large restaurant	130	129	105	35	74	6	90	99	83	
Commercial kitchen/ food preparation area	282	281	146	61	147	18	145	208	115	
Small kitchen area	736	733	96	45	113	13	120	691	119	

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).

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.

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

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.

Release date: April 2015

Revised date: May 2016

Table B46. Refrigeration equipment, floorspace, 2012

	Total floorspace (million square feet)									
	Type of refrigeration equipment (more than one may apply)									
	All buildings	Buildings with any refrigeration equipment	Walk-in units	Open cases or cabinets	Closed cases or cabinets	Large cold storage areas	Commercial ice makers	Residential-type or compact units	Vending machines	
All buildings	87,093	73,645	28,361	13,712	25,988	4,171	32,734	62,381	43,936	
Building floorspace (square feet)										
1,001 to 5,000	8,041	5,448	1,039	294	1,034	Q	851	4,571	531	
5,001 to 10,000	8,900	6,565	1,103	428	1,175	Q	1,248	5,741	1,252	
10,001 to 25,000	14,105	11,012	1,837	774	2,086	Q	2,424	9,307	3,940	
25,001 to 50,000	11,917	9,901	2,247	826	2,486	Q	3,017	8,558	5,558	
50,001 to 100,000	13,918	12,334	5,193	2,077	4,305	718	6,276	10,393	8,174	
100,001 to 200,000	12,415	11,371	5,729	2,799	4,901	825	6,236	9,530	9,288	
200,001 to 500,000	10,724	10,080	6,233	3,594	5,716	1,139	7,022	8,371	8,881	
Over 500,000	7,074	6,935	4,981	2,921	4,286	804	5,660	5,910	6,311	
Principal building activity										
Education	12,239	11,319	7,060	2,072	5,176	Q	6,152	8,956	7,666	
Food sales	1,252	1,248	1,026	848	1,014	285	688	505	670	
Food service	1,819	1,819	1,524	373	1,135	Q	1,338	929	207	
Health care	4,155	4,060	2,332	1,508	2,082	319	2,891	3,678	3,232	
Inpatient	2,374	2,374	2,216	1,430	1,753	311	2,293	2,059	2,297	
Outpatient	1,781	1,686	Q	Q	329	Q	598	1,619	936	
Lodging	5,826	5,713	3,126	898	2,535	Q	4,303	4,554	4,286	
Mercantile	11,330	10,328	6,088	4,785	6,465	1,200	5,554	8,831	7,074	
Retail (other than mall)	5,439	4,447	1,466	1,249	1,756	Q	1,141	3,180	2,399	
Enclosed and strip malls	5,890	5,881	4,622	3,536	4,709	918	4,414	5,651	4,675	
Office	15,952	13,979	3,419	1,878	3,394	Q	5,458	12,888	8,853	
Public assembly	5,559	4,956	1,545	816	1,495	Q	2,189	4,309	2,714	
Public order and safety	1,440	1,384	Q	Q	Q	Q	521	1,203	944	
Religious worship	4,557	4,243	Q	Q	775	Q	1,064	3,789	449	
Service	4,630	3,626	Q	N	Q	N	Q	3,145	1,710	
Warehouse and storage	13,077	8,584	848	Q	842	883	1,695	7,545	4,998	
Other	2,002	1,716	369	Q	398	Q	301	1,513	936	
Vacant	3,256	670	Q	Q	Q	N	Q	536	Q	
Year constructed										
Before 1920	3,983	3,015	667	337	757	Q	741	2,569	1,169	
1920 to 1945	6,025	4,839	1,591	743	1,691	Q	1,595	4,003	2,114	
1946 to 1959	7,381	6,269	2,104	689	1,743	Q	2,350	5,336	3,648	
1960 to 1969	10,362	8,963	3,574	1,432	2,926	387	3,650	7,745	5,235	
1970 to 1979	10,846	9,062	4,015	1,832	3,643	497	4,044	7,772	5,659	
1980 to 1989	15,230	12,812	5,184	2,390	4,445	829	6,287	10,950	8,021	
1990 to 1999	13,803	11,609	4,937	2,590	4,303	688	5,983	9,498	7,222	
2000 to 2003	7,215	6,446	2,184	1,021	2,251	418	3,015	5,535	4,228	
2004 to 2007	6,524	5,635	2,390	1,535	2,102	520	2,628	4,597	3,530	
2008 to 2012	5,723	4,995	1,715	1,144	2,127	Q	2,441	4,376	3,109	

Table B46. Refrigeration equipment, floorspace, 2012

	Total floorspace (million square feet)									
	Type of refrigeration equipment (more than one may apply)									
	All buildings	Buildings with any refrigeration equipment	Walk-in units	Open cases or cabinets	Closed cases or cabinets	Large cold storage areas	Commercial ice makers	Residential-type or compact units	Compact units	Vending machines
All buildings	87,093	73,645	28,361	13,712	25,988	4,171	32,734	62,381	43,936	
Census region and division										
Northeast	15,534	13,612	5,870	2,771	5,523	569	5,573	11,436	8,448	
New England	4,302	3,568	1,424	539	1,444	Q	1,240	3,081	1,902	
Middle Atlantic	11,232	10,044	4,445	2,232	4,080	430	4,333	8,354	6,546	
Midwest	18,919	16,570	6,331	2,779	6,300	972	6,598	14,257	9,673	
East North Central	12,742	11,374	4,481	1,959	4,475	695	4,666	9,850	6,685	
West North Central	6,178	5,196	1,850	821	1,825	Q	1,932	4,407	2,988	
South	34,279	28,755	10,777	5,224	9,239	1,700	14,516	24,189	17,627	
South Atlantic	17,981	15,268	6,399	3,134	4,938	1,049	7,957	13,129	9,706	
East South Central	4,904	4,498	1,199	698	1,531	Q	2,457	3,747	2,702	
West South Central	11,394	8,989	3,179	1,392	2,770	316	4,102	7,312	5,219	
West	18,360	14,709	5,384	2,938	4,926	930	6,048	12,499	8,188	
Mountain	4,981	4,179	1,898	790	1,584	Q	2,093	3,323	2,529	
Pacific	13,379	10,530	3,486	2,148	3,342	676	3,955	9,176	5,659	
Climate region¹										
Very cold/Cold	31,898	27,633	10,742	4,568	10,468	1,531	11,045	23,817	16,400	
Mixed-humid	27,873	24,268	10,079	4,815	8,565	1,297	12,168	20,411	15,132	
Mixed-dry/Hot-dry	12,037	9,429	2,842	1,913	2,881	554	3,441	8,210	5,131	
Hot-humid	12,831	10,299	3,922	1,918	3,423	701	5,199	8,180	6,115	
Marine	2,454	2,015	775	498	651	Q	881	1,762	1,157	
Number of floors										
One	39,809	31,001	10,649	5,883	10,051	1,931	11,581	25,926	15,933	
Two	20,206	17,915	6,100	2,339	5,301	942	6,986	15,363	9,519	
Three	8,140	7,152	2,393	741	2,494	Q	2,980	6,139	4,288	
Four to nine	13,535	12,368	5,897	2,881	5,105	751	7,380	10,708	9,715	
Ten or more	5,404	5,209	3,322	1,868	3,037	348	3,807	4,245	4,481	
Number of workers (main shift)										
Fewer than 5	17,751	10,252	1,110	293	1,764	Q	1,648	8,745	2,055	
5 to 9	8,973	7,466	1,132	490	1,420	Q	1,553	6,349	2,088	
10 to 19	9,623	8,231	1,695	470	1,750	Q	2,466	7,070	3,252	
20 to 49	14,514	13,005	4,819	2,034	3,843	641	5,227	11,172	7,595	
50 to 99	13,476	12,696	6,582	3,018	5,217	988	6,404	10,606	9,583	
100 to 249	10,941	10,456	5,592	3,109	5,183	1,059	6,584	8,529	8,983	
250 or more	11,815	11,539	7,432	4,298	6,811	994	8,852	9,909	10,379	
Weekly operating hours										
Fewer than 40	8,220	4,464	763	Q	889	Q	923	4,054	804	
40 to 48	15,828	13,062	3,048	1,032	2,413	Q	3,721	11,544	6,037	
49 to 60	20,529	17,409	4,492	1,553	4,178	409	5,866	15,168	9,750	
61 to 84	15,867	14,497	6,754	4,099	6,408	1,128	7,027	12,583	9,416	
85 to 167	9,395	8,480	4,133	2,352	4,352	835	4,424	6,464	5,755	
Open continuously	17,253	15,732	9,171	4,541	7,748	1,409	10,772	12,566	12,173	

Table B46. Refrigeration equipment, floorspace, 2012

Table B46. Refrigeration equipment, floorspace, 2012

	Total floorspace (million square feet)									
	Type of refrigeration equipment (more than one may apply)									
	All buildings	Buildings with any refrigeration equipment	Walk-in units	Open cases or cabinets	Closed cases or cabinets	Large cold storage areas	Commercial ice makers	Residential-type or compact units	Vending machines	
All buildings	87,093	73,645	28,361	13,712	25,988	4,171	32,734	62,381	43,936	
Food preparation or serving areas in non-food service buildings (more than one may apply)										
Snack bar or concession stand	9,884	9,866	8,063	4,699	6,772	1,328	8,194	8,482	8,153	
Fast food or small restaurant	9,787	9,787	8,456	5,648	7,783	1,364	8,187	7,913	7,954	
Cafeteria or large restaurant	15,222	15,219	13,687	6,211	10,137	1,180	12,404	12,434	12,235	
Commercial kitchen/ food preparation area	16,150	16,142	13,735	6,147	11,039	2,183	12,848	12,754	12,279	
Small kitchen area	14,054	14,035	6,719	3,356	5,864	1,219	7,518	12,806	7,716	

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).

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.