

**Table C17. Electricity consumption and conditional energy intensity by Census division (part 1), 2012**

	Total electricity consumption (billion kWh)			Total floorspace of buildings using electricity (million square feet)			Electricity energy intensity (kWh/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
<b>All buildings</b>	51	170	174	4,192	11,099	12,544	12.1	15.3	13.9
<b>Building floorspace (square feet)</b>									
1,001 to 5,000	5	10	16	368	628	995	14.4	15.4	16.3
5,001 to 10,000	5	9	15	527	657	1,048	9.7	13.3	14.1
10,001 to 25,000	8	16	20	858	1,470	1,799	9.7	10.9	11.4
25,001 to 50,000	8	10	23	626	1,002	2,040	12.5	10.5	11.4
50,001 to 100,000	6	31	25	598	2,078	1,768	9.8	14.9	13.9
100,001 to 200,000	6	38	26	418	2,101	1,771	14.5	18.2	14.6
200,001 to 500,000	9	29	30	597	1,636	2,079	14.8	17.5	14.3
Over 500,000	Q	27	20	Q	1,526	1,042	Q	17.7	18.9
<b>Principal building activity</b>									
Education	4	14	20	642	1,414	2,205	6.7	9.6	9.2
Food sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food service	Q	7	10	Q	162	217	Q	45.6	48.0
Health care	6	17	14	274	792	549	21.7	22.1	25.4
Inpatient	4	10	10	169	369	359	26.5	26.1	28.7
Outpatient	Q	8	4	Q	423	190	Q	18.6	18.9
Lodging	Q	10	10	Q	800	673	Q	12.9	14.5
Mercantile	6	21	30	458	1,186	1,488	13.3	17.5	20.0
Retail (other than mall)	Q	9	13	Q	667	748	Q	12.9	17.6
Enclosed and strip malls	Q	12	17	Q	518	740	Q	23.4	22.4
Office	9	55	38	738	2,965	2,430	11.6	18.5	15.8
Public assembly	4	9	16	350	603	1,196	11.5	15.6	13.2
Public order and safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious worship	Q	3	3	Q	613	547	Q	5.5	5.1
Service	2	4	6	245	568	836	Q	6.4	7.7
Warehouse and storage	2	6	10	488	1,211	1,504	4.0	5.3	6.7
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Year constructed</b>									
Before 1920	5	7	4	674	904	585	7.9	7.8	6.6
1920 to 1945	3	18	13	404	1,525	1,354	7.7	11.8	9.4
1946 to 1959	4	14	14	349	1,233	1,149	10.3	11.1	12.2
1960 to 1969	6	23	18	481	1,748	1,481	12.0	13.3	12.1
1970 to 1979	9	28	33	473	1,427	1,841	18.8	20.0	17.7
1980 to 1989	6	21	26	554	1,159	1,614	10.7	17.8	16.1
1990 to 1999	5	34	25	476	1,539	1,904	11.3	22.3	13.3
2000 to 2003	5	11	18	337	637	1,090	16.2	17.7	16.7
2004 to 2007	Q	4	13	Q	243	860	Q	14.5	15.0
2008 to 2012	3	10	11	213	685	666	Q	13.9	16.7

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<b>All buildings</b>	51	170	174	4,192	11,099	12,544	12.1	15.3	13.9
<b>Climate region<sup>1</sup></b>									
Very cold/Cold	51	91	158	4,192	6,091	11,506	12.1	15.0	13.7
Mixed-humid	N	79	Q	N	5,008	Q	N	15.7	Q
Mixed-dry/Hot-dry	N	N	N	N	N	N	N	N	N
Hot-humid	N	N	N	N	N	N	N	N	N
Marine	N	N	N	N	N	N	N	N	N
<b>Number of floors</b>									
One	12	45	72	1,011	2,682	4,898	12.1	16.9	14.7
Two	13	39	38	1,270	2,797	3,135	9.9	14.1	12.0
Three	10	20	19	953	1,456	1,708	10.8	13.8	11.1
Four to nine	11	38	31	767	2,613	2,036	14.6	14.7	15.3
Ten or more	Q	27	15	Q	1,552	767	Q	17.1	19.2
<b>Elevators and escalators (more than one may apply)</b>									
Any elevators	26	103	80	1,857	6,034	5,390	13.8	17.1	14.9
Number of elevators									
One	9	25	26	944	1,616	2,252	9.5	15.2	11.6
Two to five	11	41	29	713	2,432	1,943	15.3	16.7	15.0
Six or more	6	38	25	200	1,986	1,195	28.7	18.9	20.9
Any escalators	Q	14	13	Q	785	731	Q	18.1	17.2
<b>Number of workers (main shift)</b>									
Fewer than 5	6	11	20	907	1,542	2,465	6.3	6.9	8.2
5 to 9	7	7	14	496	786	1,110	13.7	8.6	12.7
10 to 19	5	9	17	439	951	1,232	11.0	9.3	13.9
20 to 49	8	23	31	546	1,358	2,270	15.3	17.3	13.8
50 to 99	6	28	33	657	1,728	2,147	9.0	16.5	15.2
100 to 249	9	31	25	686	1,843	1,548	13.4	16.7	16.0
250 or more	10	61	34	460	2,892	1,771	21.2	21.1	19.4
<b>Weekly operating hours</b>									
Fewer than 40	1	4	7	310	666	1,171	2.0	5.5	6.2
40 to 48	6	15	18	812	1,531	1,976	7.6	9.7	9.0
49 to 60	10	32	32	901	2,431	2,736	11.1	13.1	11.7
61 to 84	12	34	39	984	2,329	2,591	11.7	14.5	14.9
85 to 167	9	26	31	530	1,351	1,593	17.6	19.5	19.7
Open continuously	13	59	47	655	2,792	2,476	19.7	21.2	19.1



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<b>All buildings</b>	51	170	174	4,192	11,099	12,544	12.1	15.3	13.9
<b>Predominant roof material</b>									
Metal surfacing	3	13	16	510	1,030	1,586	6.6	12.2	9.9
Synthetic or rubber	24	66	81	1,755	4,105	5,293	13.4	16.1	15.3
Built-up	9	55	38	655	3,056	2,840	13.5	18.0	13.5
Slate or tile shingles	Q	6	3	Q	591	288	Q	9.9	11.2
Wooden materials (including shingles)	Q	Q	Q	Q	Q	Q	Q	Q	Q
Asphalt, fiberglass, or other shingles	12	22	30	850	1,780	2,173	13.5	12.5	13.8
Concrete	Q	5	Q	Q	288	Q	Q	18.2	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No one major type	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Roof characteristics</b>									
Roof tilt									
Flat	31	133	114	2,128	7,867	7,403	14.5	16.9	15.4
Shallow pitch	9	20	38	966	1,456	3,061	9.0	13.9	12.3
Steeper pitch	11	17	23	1,099	1,776	2,080	10.0	9.3	11.0
Cool roof	9	46	42	742	2,636	2,545	11.9	17.5	16.5
<b>Renovations in buildings constructed before 2008 (more than one may apply)</b>									
Any type of renovation	33	109	99	2,625	6,635	6,625	12.4	16.4	14.9
Addition or annex	10	28	40	815	1,759	2,501	12.0	15.9	15.9
Reduction in floorspace	Q	Q	Q	Q	Q	Q	Q	24.8	Q
Roof replacement	18	65	51	1,388	4,069	3,256	12.7	15.9	15.7
Exterior wall replacement	4	7	10	264	646	603	15.0	10.5	16.1
Interior wall reconfiguration	17	63	55	1,431	3,589	3,557	11.9	17.5	15.5
Window replacement	13	29	24	1,095	2,308	2,026	11.6	12.4	11.9
HVAC equipment upgrade	22	85	66	1,570	4,908	4,572	13.8	17.3	14.4
Lighting upgrade	23	69	60	1,666	4,343	4,113	13.7	15.8	14.7
Electrical upgrade	15	47	37	1,172	2,796	2,623	12.9	16.7	14.2
Plumbing system upgrade	12	40	33	1,023	2,355	2,292	12.0	17.2	14.5
Insulation upgrade	8	18	17	581	1,168	1,266	13.6	15.5	13.7
Fire, safety, or security upgrade	17	54	43	1,368	3,234	2,611	12.2	16.7	16.3
Structural upgrade	5	4	9	300	432	626	16.0	9.5	14.2
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No renovations	15	51	64	1,355	3,779	5,252	11.3	13.5	12.2
Buildings constructed 2008 or later	3	10	11	213	685	666	Q	13.9	16.7

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<b>All buildings</b>	51	170	174	4,192	11,099	12,544	12.1	15.3	13.9
<b>Energy sources (more than one may apply)</b>									
Electricity	51	170	174	4,192	11,099	12,544	12.1	15.3	13.9
Natural gas	30	142	151	2,241	8,827	10,790	13.5	16.1	14.0
Fuel oil	25	71	51	1,866	4,213	2,619	13.3	16.7	19.6
District heat	6	31	8	Q	1,628	574	17.3	19.0	14.5
District chilled water	Q	Q	7	Q	656	420	Q	29.0	17.8
Propane	11	13	13	857	885	829	12.7	14.4	15.6
Other	4	8	5	392	686	532	9.6	11.4	10.1
<b>Space-heating energy sources</b>									
Electricity	28	87	90	1,848	5,428	5,687	15.2	15.9	15.7
Electricity main	8	32	31	468	1,720	1,702	17.1	18.9	17.9
Electricity secondary	20	54	59	1,380	3,708	3,985	14.5	14.6	14.8
Other excluding electricity	22	81	84	2,237	5,531	6,553	9.8	14.7	12.8
Buildings without heating	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Primary space-heating energy source</b>									
Electricity	8	32	31	468	1,720	1,702	17.1	18.9	17.9
Natural gas	23	96	130	1,811	6,555	9,587	12.8	14.7	13.6
Fuel oil	10	7	Q	1,099	889	Q	8.9	7.9	Q
District heat	6	30	8	Q	1,601	532	17.3	19.0	14.4
Propane	2	Q	Q	204	Q	Q	8.9	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling energy sources</b>									
Electricity	45	152	168	3,317	9,986	11,474	13.5	15.2	14.7
Other excluding electricity	Q	Q	Q	Q	Q	Q	Q	29.6	Q
Buildings without cooling	3	3	4	Q	632	869	4.3	5.5	4.1
<b>Water-heating energy sources</b>									
Electricity	24	73	74	1,939	4,622	4,914	12.3	15.7	15.2
Other excluding electricity	26	95	98	1,976	6,096	7,168	13.1	15.6	13.7
Buildings without water heating	1	Q	2	277	382	462	2.5	4.5	4.1
<b>Cooking energy sources</b>									
Electricity	17	63	66	1,143	3,534	4,211	15.0	17.7	15.7
Other excluding electricity	12	47	29	910	2,591	1,965	13.3	18.2	14.5
Buildings without cooking	21	60	80	2,139	4,975	6,368	10.0	12.1	12.5
<b>Energy end uses (more than one may apply)</b>									
Buildings with space heating	50	168	173	4,085	10,959	12,240	12.2	15.3	14.2
Buildings with cooling	47	166	171	3,482	10,467	11,675	13.6	15.9	14.6
Buildings with water heating	50	168	173	3,915	10,718	12,082	12.7	15.7	14.3
Buildings with cooking	29	110	95	2,053	6,124	6,175	14.2	17.9	15.3
Buildings with manufacturing	6	9	8	391	669	807	14.3	14.0	10.4
Buildings with electricity generation	24	88	63	1,456	4,767	3,912	16.3	18.5	16.2



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<b>All buildings</b>	51	170	174	4,192	11,099	12,544	12.1	15.3	13.9
<b>Main equipment replaced since 1990 (more than one may apply)</b>									
Heating	19	50	65	1,646	3,709	4,404	11.6	13.5	14.8
Cooling	20	67	66	1,516	4,798	4,620	13.5	13.9	14.2
<b>Water-heating equipment</b>									
Centralized system	30	107	110	2,487	6,641	7,606	11.9	16.1	14.5
Distributed system	7	23	20	586	1,797	1,671	11.7	12.7	11.8
Combination of centralized and distributed system	13	38	42	843	2,279	2,804	15.8	16.9	15.2
<b>Lighting equipment types (more than one may apply)</b>									
Incandescent	24	94	96	2,046	5,520	6,180	11.7	17.0	15.5
Standard fluorescent	48	166	171	3,771	10,702	11,880	12.8	15.5	14.4
Compact fluorescent	39	135	126	2,886	7,886	8,336	13.7	17.1	15.1
High-intensity discharge (HID)	15	61	64	1,161	3,349	4,102	12.9	18.2	15.7
Halogen	22	57	78	1,494	3,774	4,590	14.5	15.0	17.0
LED	23	67	66	1,363	3,388	3,759	17.1	19.7	17.6
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration equipment (more than one may apply)</b>									
Any refrigeration	46	160	163	3,568	10,044	11,374	13.0	16.0	14.3
Walk-in units	28	96	82	1,424	4,445	4,481	19.3	21.7	18.3
Cases or cabinets	28	93	85	1,524	4,542	4,820	18.1	20.5	17.7
Large cold storage areas	Q	10	13	Q	430	695	Q	23.7	18.3
Commercial ice makers	24	91	87	1,240	4,333	4,666	19.5	21.1	18.7
Residential-type or compact units	40	129	136	3,081	8,354	9,850	12.8	15.5	13.8
Vending machines	29	116	105	1,902	6,546	6,685	15.2	17.6	15.7
No refrigeration	4	9	12	624	1,055	1,170	6.8	8.9	10.0
<b>Office equipment (more than one may apply)</b>									
Desktop computers	47	162	166	3,686	10,430	11,561	12.8	15.6	14.4
With flat screen monitors	47	162	165	3,645	10,310	11,436	12.9	15.7	14.4
With multiple monitors	18	75	70	1,158	4,132	4,244	15.9	18.2	16.4
Laptop computers	42	137	137	3,093	8,681	9,507	13.5	15.8	14.4
Dedicated servers	34	128	123	2,511	7,575	7,894	13.4	16.9	15.6
Laser printers	35	127	123	2,696	7,622	8,535	12.9	16.7	14.4
Inkjet printers	24	64	74	1,899	4,660	5,161	12.6	13.8	14.3
FAX machines	41	148	145	3,164	9,569	9,955	12.9	15.5	14.6
Photocopiers	38	140	130	2,989	8,665	9,111	12.5	16.2	14.3

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<b>All buildings</b>	51	170	174	4,192	11,099	12,544	12.1	15.3	13.9
<b>Number of desktop computers</b>									
None	3	Q	8	Q	669	983	Q	Q	8.3
1 to 4	9	16	28	846	1,611	2,283	11.2	10.0	12.1
5 to 9	Q	17	19	Q	1,142	1,390	Q	15.0	14.0
10 to 19	6	17	17	494	1,150	1,304	12.1	14.4	13.2
20 to 49	9	22	28	717	1,610	1,633	12.6	13.8	17.1
50 to 99	6	15	22	430	936	1,532	13.4	15.6	14.6
100 to 249	6	34	19	432	1,870	1,569	13.4	17.9	11.9
250 or more	9	42	33	518	2,110	1,850	16.7	20.1	17.9
<b>Number of laptop computers</b>									
None	9	32	38	1,099	2,418	3,037	8.0	13.4	12.4
1 to 4	12	26	42	1,083	2,267	3,260	11.0	11.4	12.9
5 to 9	5	20	17	323	1,082	1,063	16.8	18.5	16.5
10 to 19	8	14	14	521	979	1,060	15.0	14.0	13.4
20 to 49	4	18	19	348	1,123	1,384	11.0	16.2	13.9
50 to 99	4	13	15	242	976	978	18.1	12.8	15.5
100 to 249	3	21	11	346	1,068	711	9.2	20.0	15.9
250 or more	Q	26	17	Q	1,185	1,051	Q	21.7	16.6
<b>Number of dedicated servers</b>									
None	17	42	51	1,681	3,524	4,650	10.0	11.8	11.0
1 to 4	19	64	75	1,582	4,611	5,055	11.8	13.8	14.8
5 to 9	4	14	15	338	755	931	11.0	19.1	16.4
10 to 19	6	19	10	340	777	663	18.7	24.5	14.8
20 to 49	Q	10	11	Q	566	714	Q	16.9	16.0
50 or more	Q	22	12	Q	867	530	Q	24.9	22.5
<b>Number of photocopiers</b>									
None	13	30	44	1,203	2,434	3,432	10.8	12.2	12.9
One	10	21	32	912	1,692	2,726	11.2	12.4	11.6
2 to 4	10	33	43	1,017	2,564	3,003	9.8	13.0	14.3
5 to 9	8	27	23	599	1,347	1,644	13.7	19.8	13.9
10 or more	9	59	32	461	3,062	1,739	19.7	19.2	18.7
<b>Number of TVs or video displays</b>									
None	13	27	31	1,403	2,408	3,032	9.3	11.1	10.3
One	5	12	19	435	981	1,485	11.6	12.2	13.0
2 to 4	10	25	39	833	2,097	2,889	12.4	12.2	13.6
5 to 9	5	28	12	441	1,383	839	11.2	20.0	14.9
10 to 19	6	28	21	391	1,408	1,134	14.7	19.7	18.9
20 to 49	4	20	17	375	1,069	1,198	11.4	18.3	14.3
50 to 99	Q	5	11	Q	270	783	Q	16.9	14.7
100 or more	5	26	22	202	1,483	1,184	23.6	17.7	18.7



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<b>All buildings</b>	51	170	174	4,192	11,099	12,544	12.1	15.3	13.9
<b>Food preparation or serving areas in non-food service buildings (more than one may apply)</b>									
Snack bar or concession stand	Q	31	26	Q	1,710	1,632	Q	18.0	16.0
Fast food or small restaurant	6	31	27	335	1,416	1,299	17.8	21.6	20.7
Cafeteria or large restaurant	11	52	34	829	2,756	2,452	13.1	18.7	13.9
Commercial kitchen/food preparation area	12	46	43	915	2,339	2,960	13.4	19.5	14.5
Small kitchen area	10	30	30	776	2,329	2,282	13.4	12.9	13.0
<b>Separate computer areas (more than one may apply)</b>									
Data center or server farm	11	43	34	491	1,887	1,743	21.6	22.8	19.3
Computer-based training room	9	42	43	747	2,594	2,728	11.4	16.3	15.9
Student or public computer center	8	24	24	834	1,877	2,236	9.1	12.9	10.9
<b>HVAC conservation features (more than one may apply)</b>									
Economizer cycle	23	102	89	1,412	5,498	5,550	16.4	18.6	16.0
Regular HVAC maintenance	44	159	159	3,324	9,658	10,660	13.3	16.5	15.0
Building automation system (BAS) <sup>2</sup>	28	98	94	1,734	5,199	5,646	16.1	18.9	16.7
<b>Window and interior lighting features (more than one may apply)</b>									
Multipaned windows	43	127	145	3,387	8,002	10,013	12.8	15.9	14.5
Tinted window glass	21	88	99	1,420	4,888	6,262	14.8	18.0	15.8
Reflective window glass	8	35	44	495	1,849	2,627	17.1	19.0	16.8
External overhangs or awnings	14	66	72	1,106	3,183	4,169	13.1	20.8	17.2
Skylights or atriums	17	47	40	1,376	2,658	2,815	12.2	17.6	14.4
Light scheduling	22	84	80	1,454	4,384	5,033	15.3	19.2	15.9
Occupancy sensors	33	91	92	2,302	5,430	5,927	14.3	16.8	15.6
Multi-level lighting or dimming	12	33	40	663	1,672	2,275	17.4	19.5	17.7
Daylight harvesting	5	13	20	303	729	1,147	15.4	18.3	17.6
Demand responsive lighting	Q	7	9	Q	448	506	Q	16.4	17.4
Building automation system (BAS) for lighting <sup>2</sup>	11	36	31	526	1,633	1,680	20.1	22.1	18.2
<b>Equipment usage reduced when building not in full use (more than one may apply)</b>									
Heating	37	136	132	3,310	8,975	9,790	11.2	15.2	13.5
Cooling	37	131	127	2,931	8,520	9,321	12.5	15.4	13.7
Lighting	49	151	159	3,987	10,272	11,570	12.4	14.7	13.7

**Table C17. Electricity consumption and conditional energy intensity by Census division (part 1), 2012**

	Total electricity consumption (billion kWh)			Total floorspace of buildings using electricity (million square feet)			Electricity energy intensity (kWh/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
<b>All buildings</b>	51	170	174	4,192	11,099	12,544	12.1	15.3	13.9
<b>Annual consumption (kilowatthours)</b>									
10,000 or less	(*)	(*)	1	Q	292	445	1.2	1.1	1.5
10,001 to 50,000	2	5	7	622	1,196	1,538	3.8	4.1	4.5
50,001 to 100,000	3	5	8	330	631	1,092	8.8	8.2	7.5
100,001 to 500,000	15	25	34	1,192	2,154	2,829	12.3	11.6	12.1
500,001 to 1,000,000	6	17	26	420	1,385	1,483	15.1	12.3	17.4
1,000,001 to 5,000,000	15	54	60	1,022	3,048	3,493	14.2	17.6	17.3
Over 5,000,000	9	64	38	340	2,393	1,664	27.7	26.6	23.0

<sup>1</sup>These 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).

<sup>2</sup>In 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 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/> • Site electricity is the amount of electricity delivered to commercial buildings. Primary electricity, which is not included in the *Total of major fuels* category, is site electricity plus the conversion losses in the generation, transmission, and distribution processes. • Statistics for the *Energy end uses* category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, ventilation, and air conditioning.

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