

**Table C15. Electricity consumption and conditional energy intensity by Census region, 2012**

	Total electricity consumption (billion kWh)				Total floorspace of buildings using electricity (million square feet)				Electricity energy intensity (kwh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All buildings</b>	220	249	530	243	15,291	18,560	33,026	17,992	14.4	13.4	16.1	13.5
<b>Building floorspace (square feet)</b>												
1,001 to 5,000	15	25	66	25	996	1,714	3,165	1,616	15.0	14.6	20.7	15.3
5,001 to 10,000	14	22	48	30	1,184	1,816	3,295	2,195	11.7	11.9	14.5	13.8
10,001 to 25,000	24	31	68	36	2,329	2,850	4,965	3,421	10.5	10.8	13.6	10.6
25,001 to 50,000	18	33	69	29	1,628	2,997	4,330	2,716	11.2	11.1	15.8	10.6
50,001 to 100,000	37	40	88	28	2,676	2,688	5,879	2,361	13.8	14.7	14.9	11.7
100,001 to 200,000	44	34	73	38	2,519	2,400	5,122	2,321	17.6	14.2	14.3	16.4
200,001 to 500,000	37	40	70	33	2,232	2,676	3,659	2,084	16.8	14.8	19.1	16.0
Over 500,000	30	25	50	24	1,727	1,418	2,611	1,277	17.5	17.9	19.2	18.6
<b>Principal building activity</b>												
Education	18	33	65	18	2,056	3,173	5,162	1,848	8.7	10.3	12.6	10.0
Food sales	14	9	22	15	316	174	399	363	45.0	50.5	56.2	42.7
Food service	12	16	38	16	292	369	771	387	39.7	43.1	49.7	41.1
Health care	23	22	43	19	1,067	862	1,441	786	22.0	25.1	29.5	24.6
Inpatient	14	14	31	15	538	496	894	447	26.3	28.9	34.3	32.5
Outpatient	9	7	12	5	529	366	548	339	17.6	20.1	21.7	14.3
Lodging	14	16	38	21	1,007	1,058	2,302	1,459	14.0	15.4	16.6	14.1
Mercantile	27	37	93	49	1,644	2,132	4,729	2,815	16.3	17.5	19.7	17.6
Retail (other than mall)	11	16	35	21	825	1,142	2,126	1,336	12.8	14.1	16.3	15.8
Enclosed and strip malls	16	21	58	28	818	990	2,603	1,478	19.9	21.4	22.5	19.1
Office	63	51	88	51	3,703	3,334	5,501	3,414	17.1	15.3	16.0	14.9
Public assembly	13	21	33	13	953	1,585	2,003	1,018	14.1	13.2	16.3	13.2
Public order and safety	5	3	11	Q	345	334	576	Q	15.1	10.3	18.3	Q
Religious worship	4	4	12	3	897	925	2,011	725	4.5	4.5	6.1	4.7
Service	5	11	15	6	813	1,448	1,557	694	6.6	7.3	9.8	8.8
Warehouse and storage	8	16	43	16	1,699	2,395	5,063	3,411	4.9	6.6	8.4	4.8
Other	12	9	26	9	273	433	827	439	43.2	20.2	32.0	20.3
Vacant	Q	2	3	3	Q	336	686	450	Q	5.3	4.0	5.6
<b>Year constructed</b>												
Before 1920	12	6	11	3	1,577	965	949	308	7.9	6.4	11.4	8.1
1920 to 1945	21	16	18	10	1,929	1,724	1,435	778	10.9	9.2	12.4	12.3
1946 to 1959	17	20	31	17	1,581	1,651	2,495	1,480	10.9	12.2	12.4	11.2
1960 to 1969	29	32	58	29	2,229	2,667	3,398	1,904	13.0	11.8	16.9	15.3
1970 to 1979	37	44	59	30	1,900	2,565	3,557	2,535	19.7	17.1	16.7	11.8
1980 to 1989	27	37	124	46	1,713	2,560	6,720	3,797	15.5	14.5	18.4	12.2
1990 to 1999	40	36	95	42	2,014	2,720	5,678	2,706	19.7	13.3	16.7	15.6
2000 to 2003	17	24	52	19	974	1,495	3,298	1,426	17.2	16.0	15.7	13.2
2004 to 2007	8	18	41	30	476	1,236	2,825	1,948	16.5	14.4	14.5	15.6
2008 to 2012	12	17	42	Q	898	976	2,669	1,110	13.6	17.1	15.9	15.9
<b>Climate region<sup>1</sup></b>												
Very cold/Cold	142	210	N	67	10,283	15,875	N	5,128	13.8	13.3	N	13.1
Mixed-humid	79	39	298	N	5,008	2,685	19,729	N	15.7	14.5	15.1	N
Mixed-dry/Hot-dry	N	N	Q	139	N	N	Q	10,248	N	N	8.9	13.6
Hot-humid	N	N	219	Q	N	N	11,802	Q	N	N	18.6	Q
Marine	N	N	N	35	N	N	N	2,416	N	N	N	14.6

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	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All buildings</b>	220	249	530	243	15,291	18,560	33,026	17,992	14.4	13.4	16.1	13.5
<b>Number of floors</b>												
One	58	99	269	119	3,693	7,453	17,493	9,414	15.6	13.3	15.4	12.7
Two	52	56	100	51	4,067	4,789	6,803	4,269	12.8	11.8	14.7	11.9
Three	30	31	35	13	2,409	2,590	2,028	1,075	12.6	12.0	17.1	12.3
Four to nine	50	46	95	40	3,380	2,850	5,002	2,185	14.7	16.1	19.0	18.5
Ten or more	31	17	31	19	1,742	879	1,698	1,049	17.7	19.0	18.4	18.4
<b>Elevators and escalators (more than one may apply)</b>												
Any elevators	129	115	202	94	7,892	7,487	10,943	5,620	16.3	15.3	18.4	16.8
<b>Number of elevators</b>												
One	34	39	55	19	2,560	3,201	3,665	1,693	13.1	12.2	15.0	11.2
Two to five	52	43	89	39	3,146	2,731	4,568	2,268	16.4	15.7	19.4	17.4
Six or more	43	33	58	36	2,186	1,554	2,711	1,658	19.8	21.1	21.3	21.7
Any escalators	15	15	21	16	798	880	1,057	905	18.2	17.1	19.8	17.3
<b>Number of workers (main shift)</b>												
Fewer than 5	16	31	61	25	2,449	3,926	6,086	3,070	6.7	7.8	10.1	8.2
5 to 9	14	23	51	25	1,282	1,910	3,550	2,227	10.5	11.9	14.3	11.0
10 to 19	14	26	63	30	1,390	1,880	3,814	2,538	9.8	13.6	16.5	11.8
20 to 49	32	45	94	49	1,903	3,372	5,611	3,628	16.7	13.2	16.8	13.5
50 to 99	34	43	106	31	2,385	2,761	6,076	2,254	14.4	15.4	17.5	13.8
100 to 249	40	37	74	34	2,530	2,314	4,163	1,934	15.8	16.1	17.8	17.7
250 or more	71	46	81	49	3,352	2,397	3,726	2,341	21.1	19.3	21.6	20.8
<b>Weekly operating hours</b>												
Fewer than 40	4	11	13	7	976	1,771	2,508	1,293	4.4	6.1	5.2	5.3
40 to 48	21	26	71	36	2,343	3,027	6,737	3,631	9.0	8.5	10.6	10.0
49 to 60	42	50	103	44	3,332	4,356	8,480	4,257	12.6	11.4	12.1	10.4
61 to 84	45	53	99	52	3,313	3,628	5,248	3,611	13.7	14.6	18.8	14.4
85 to 167	36	47	80	37	1,881	2,411	3,133	1,939	19.0	19.6	25.6	19.0
Open continuously	72	63	165	66	3,447	3,366	6,920	3,262	20.9	18.7	23.8	20.3
<b>Ownership and occupancy</b>												
Nongovernment owned	174	192	421	201	11,670	13,852	25,397	14,701	14.9	13.8	16.6	13.7
Owner occupied	72	95	205	84	5,385	7,258	12,013	5,665	13.5	13.0	17.1	14.8
Leased to tenant(s)	76	69	164	89	4,415	4,660	9,931	6,803	17.1	14.9	16.5	13.1
Owner occupied and leased	26	27	52	27	1,786	1,743	3,242	2,050	14.5	15.6	16.1	13.3
Unoccupied	Q	Q	(*)	Q	Q	Q	211	Q	Q	Q	2.2	Q
Government owned	46	58	109	42	3,621	4,708	7,629	3,291	12.8	12.3	14.3	12.8
Federal	Q	5	13	3	Q	275	835	204	Q	16.4	15.8	12.7
State	21	16	29	14	1,149	1,142	2,110	1,122	18.0	14.3	13.8	12.9
Local	23	37	67	25	2,213	3,291	4,684	1,965	10.5	11.2	14.2	12.8
<b>Party responsible for operation and maintenance of energy systems</b>												
Building owner	180	219	435	195	13,066	16,466	27,680	14,450	13.8	13.3	15.7	13.5
Business owner or tenant	34	26	78	44	1,814	1,712	4,384	3,223	18.8	15.0	17.9	13.5
Property management	Q	Q	11	Q	Q	Q	652	Q	Q	Q	16.8	Q
Other	Q	Q	6	Q	Q	Q	309	Q	Q	Q	18.5	Q

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<b>All buildings</b>	220	249	530	243	15,291	18,560	33,026	17,992	14.4	13.4	16.1	13.5
<b>Provider of direct input on energy-related equipment purchases</b>												
Building owner	183	222	449	207	13,324	16,800	28,647	15,376	13.7	13.2	15.7	13.5
Business owner or tenant	28	20	61	32	1,393	1,274	3,233	2,261	20.3	15.9	19.0	14.2
Property management	Q	Q	4	Q	Q	Q	345	Q	Q	Q	12.4	Q
Other	6	Q	15	2	314	345	801	221	18.3	12.8	18.9	10.0
<b>Number of establishments</b>												
One	131	156	339	151	9,443	12,361	21,551	11,129	13.9	12.6	15.7	13.6
2 to 5	47	62	95	45	3,305	4,207	6,503	3,742	14.1	14.7	14.7	12.1
6 to 10	12	12	31	16	775	774	1,661	1,103	14.9	15.8	18.6	14.3
11 to 20	14	9	32	13	833	493	1,560	789	16.8	18.5	20.8	16.5
More than 20	17	10	32	17	832	532	1,419	1,011	20.4	18.3	22.6	17.3
Currently unoccupied	Q	Q	1	Q	Q	Q	332	218	Q	Q	1.7	3.5
<b>Predominant exterior wall material</b>												
Brick, stone, or stucco	104	123	275	94	7,562	8,925	16,216	6,905	13.8	13.8	17.0	13.6
Concrete (block or poured)	57	54	140	72	3,574	3,937	7,974	4,920	15.9	13.8	17.6	14.6
Concrete panels	16	29	39	36	804	1,667	2,994	2,982	20.0	17.3	13.2	12.1
Siding or shingles	17	18	17	19	1,533	1,351	1,365	1,316	11.1	13.6	12.8	14.2
Metal panels	10	16	43	11	954	2,061	3,821	1,219	10.4	7.5	11.2	8.8
Window glass	12	Q	8	7	432	Q	360	323	27.3	Q	23.5	20.9
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No one major type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant roof material</b>												
Metal surfacing	16	28	95	29	1,541	3,128	7,804	2,551	10.3	9.1	12.2	11.5
Synthetic or rubber	90	110	148	75	5,860	7,413	7,664	4,676	15.3	14.8	19.3	16.0
Built-up	64	56	148	69	3,711	3,923	8,576	5,096	17.2	14.3	17.3	13.6
Slate or tile shingles	8	4	29	18	826	390	1,824	1,182	9.1	10.9	15.7	15.3
Wooden materials (including shingles)	2	Q	6	5	149	Q	375	469	13.0	Q	15.3	9.7
Asphalt, fiberglass, or other shingles	34	44	82	37	2,630	3,221	5,579	3,249	12.8	13.6	14.7	11.4
Concrete	5	Q	16	6	298	Q	802	403	18.2	Q	20.2	15.8
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No one major type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Roof characteristics</b>												
Roof tilt												
Flat	164	159	320	157	9,995	10,449	17,606	10,695	16.4	15.2	18.2	14.6
Shallow pitch	29	58	147	64	2,422	4,880	10,607	5,110	12.0	11.9	13.9	12.5
Steeper pitch	28	32	63	22	2,874	3,230	4,812	2,187	9.6	10.0	13.1	10.2
Cool roof	55	60	131	79	3,379	3,666	7,443	4,892	16.3	16.4	17.6	16.2

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	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All buildings</b>	220	249	530	243	15,291	18,560	33,026	17,992	14.4	13.4	16.1	13.5
<b>Renovations in buildings constructed before 2008 (more than one may apply)</b>												
Any type of renovation	142	142	258	107	9,260	10,056	15,145	7,451	15.3	14.1	17.0	14.4
Addition or annex	38	61	78	28	2,574	4,082	4,556	1,757	14.7	15.0	17.0	15.9
Reduction in floorspace	Q	5	13	4	584	253	626	270	22.8	20.7	21.3	13.7
Roof replacement	82	80	125	42	5,457	5,375	6,838	3,097	15.1	14.9	18.4	13.5
Exterior wall replacement	11	17	30	12	910	1,072	1,435	805	11.8	16.2	21.1	14.8
Interior wall reconfiguration	80	78	133	65	5,019	5,182	6,794	4,255	15.9	15.1	19.6	15.4
Window replacement	41	37	71	27	3,404	3,039	3,761	2,048	12.2	12.0	18.8	13.3
HVAC equipment upgrade	107	93	164	69	6,477	6,539	9,234	4,398	16.5	14.3	17.8	15.6
Lighting upgrade	92	89	159	70	6,009	6,102	8,749	4,554	15.2	14.6	18.2	15.3
Electrical upgrade	62	58	101	44	3,968	4,002	5,411	2,707	15.6	14.5	18.7	16.2
Plumbing system upgrade	53	50	80	39	3,378	3,445	4,609	2,375	15.6	14.7	17.3	16.4
Insulation upgrade	26	31	46	23	1,749	2,195	2,305	1,304	14.9	14.3	19.8	17.5
Fire, safety, or security upgrade	71	63	105	43	4,602	3,812	5,850	2,899	15.4	16.4	18.0	14.9
Structural upgrade	9	14	27	19	732	885	1,201	1,094	12.2	16.1	22.6	17.0
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No renovations	66	90	230	118	5,133	7,527	15,212	9,431	12.9	12.0	15.1	12.6
Buildings constructed 2008 or later	12	17	42	Q	898	976	2,669	1,110	13.6	17.1	15.9	15.9
<b>Energy sources (more than one may apply)</b>												
Electricity	220	249	530	243	15,291	18,560	33,026	17,992	14.4	13.4	16.1	13.5
Natural gas	172	205	335	191	11,068	15,025	19,900	12,732	15.5	13.6	16.9	15.0
Fuel oil	95	73	153	60	6,079	3,935	7,051	3,135	15.7	18.7	21.7	19.2
District heat	37	15	35	16	1,981	906	2,191	886	18.7	16.3	16.1	18.4
District chilled water	22	10	39	14	794	585	2,479	749	27.4	17.6	15.9	18.8
Propane	24	26	42	19	1,741	1,893	2,567	1,484	13.6	13.6	16.4	12.7
Other	12	8	16	14	1,078	783	907	1,034	10.8	9.9	17.8	13.8
<b>Space-heating energy sources</b>												
Electricity	115	130	384	146	7,276	8,638	22,558	10,559	15.7	15.0	17.0	13.9
Electricity main	40	49	269	81	2,188	2,982	15,118	5,917	18.5	16.4	17.8	13.7
Electricity secondary	74	81	114	65	5,088	5,655	7,440	4,642	14.6	14.3	15.4	14.1
Other excluding electricity	103	118	116	87	7,768	9,402	7,941	5,912	13.2	12.5	14.6	14.7
Buildings without heating	Q	2	31	10	247	520	2,527	1,521	Q	3.2	12.2	6.5
<b>Primary space-heating energy source</b>												
Electricity	40	49	269	81	2,188	2,982	15,118	5,917	18.5	16.4	17.8	13.7
Natural gas	120	173	186	133	8,366	13,084	12,312	9,226	14.3	13.2	15.1	14.4
Fuel oil	17	Q	3	Q	1,988	Q	299	Q	8.4	Q	8.9	Q
District heat	37	14	34	16	1,954	864	2,112	867	18.7	16.4	16.3	18.4
Propane	3	7	7	2	377	723	613	235	7.6	9.1	11.1	6.8
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	8.1
<b>Cooling energy sources</b>												
Electricity	197	239	499	224	13,303	16,826	29,950	15,955	14.8	14.2	16.7	14.1
Other excluding electricity	Q	5	25	Q	646	317	1,784	512	26.2	14.6	14.3	18.4
Buildings without cooling	7	6	6	9	1,342	1,416	1,292	1,525	4.9	4.0	4.6	6.1



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<b>All buildings</b>	220	249	530	243	15,291	18,560	33,026	17,992	14.4	13.4	16.1	13.5
<b>Heating equipment (more than one may apply)</b>												
Heat pumps	21	16	109	33	1,397	1,068	6,927	2,453	15.2	15.3	15.7	13.4
Furnaces	15	29	45	18	1,244	2,511	3,363	1,536	11.8	11.6	13.3	11.5
Individual space heaters	71	71	86	44	4,918	5,719	6,519	3,594	14.5	12.4	13.1	12.2
District heat	37	15	35	16	1,981	906	2,171	867	18.7	16.3	16.1	18.4
Boilers	87	96	107	59	6,442	6,666	5,784	3,545	13.6	14.4	18.5	16.8
Packaged heating units	110	156	344	161	7,186	10,894	20,049	11,059	15.3	14.4	17.2	14.5
Other	Q	7	15	8	Q	370	550	339	Q	19.3	27.3	22.7
<b>Cooling equipment (more than one may apply)</b>												
Residential-type central air conditioners	23	45	81	38	1,695	4,347	5,895	2,828	13.7	10.3	13.7	13.3
Heat pumps	22	17	112	38	1,490	1,024	7,108	2,916	14.5	16.4	15.8	13.1
Individual air conditioners	47	37	56	20	3,845	2,585	4,263	1,727	12.1	14.4	13.2	11.5
District chilled water	22	10	39	14	794	585	2,479	749	27.4	17.6	15.9	18.8
Central chillers	63	79	137	49	3,489	4,475	6,460	2,617	18.2	17.6	21.2	18.8
Packaged air conditioning units	133	148	306	140	8,697	9,816	17,185	9,455	15.3	15.1	17.8	14.8
Swamp coolers	Q	Q	8	18	Q	Q	469	1,340	Q	Q	17.2	13.3
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Main equipment replaced since 1990 (more than one may apply)</b>												
Heating	69	93	162	64	5,356	6,886	10,048	5,268	12.9	13.6	16.1	12.1
Cooling	87	97	191	70	6,314	7,210	11,668	5,510	13.8	13.5	16.3	12.8
<b>Water-heating equipment</b>												
Centralized system	137	158	302	132	9,128	11,316	17,460	9,631	15.0	13.9	17.3	13.7
Distributed system	30	26	69	33	2,383	2,335	4,938	3,032	12.4	11.3	13.9	11.0
Combination of centralized and distributed system	52	61	142	69	3,122	3,942	7,863	3,866	16.6	15.4	18.1	17.8
<b>Lighting equipment types (more than one may apply)</b>												
Incandescent	117	137	248	109	7,565	9,038	14,581	7,222	15.5	15.2	17.0	15.1
Standard fluorescent	214	242	509	232	14,473	17,514	31,363	16,732	14.8	13.8	16.2	13.9
Compact fluorescent	174	179	365	170	10,771	11,841	20,042	11,163	16.2	15.1	18.2	15.3
High-intensity discharge (HID)	76	87	158	61	4,510	5,357	9,347	4,182	16.8	16.2	16.9	14.7
Halogen	78	101	206	93	5,267	6,169	10,970	5,653	14.9	16.5	18.7	16.5
LED	90	89	159	77	4,752	5,148	7,559	4,612	18.9	17.3	21.1	16.6
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration equipment (more than one may apply)</b>												
Any refrigeration	207	233	491	219	13,612	16,570	28,755	14,709	15.2	14.1	17.1	14.9
Walk-in units	124	118	250	115	5,870	6,331	10,777	5,384	21.1	18.6	23.2	21.3
Cases or cabinets	120	122	222	118	6,066	6,803	10,386	5,464	19.9	17.9	21.4	21.6
Large cold storage areas	13	18	44	23	569	972	1,700	930	23.4	18.6	25.8	24.3
Commercial ice makers	116	126	290	122	5,573	6,598	14,516	6,048	20.7	19.2	19.9	20.1
Residential-type or compact units	169	193	377	172	11,436	14,257	24,189	12,499	14.8	13.5	15.6	13.8
Vending machines	144	149	315	133	8,448	9,673	17,627	8,188	17.1	15.4	17.9	16.3
No refrigeration	14	16	39	24	1,679	1,990	4,271	3,283	8.1	8.3	9.1	7.3

**Table C15. Electricity consumption and conditional energy intensity by Census region, 2012**

	Total electricity consumption (billion kWh)				Total floorspace of buildings using electricity (million square feet)				Electricity energy intensity (kwh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All buildings</b>	220	249	530	243	15,291	18,560	33,026	17,992	14.4	13.4	16.1	13.5
<b>Office equipment (more than one may apply)</b>												
Desktop computers	210	238	500	229	14,116	16,861	29,686	16,400	14.9	14.1	16.9	14.0
With flat screen monitors	209	236	493	228	13,956	16,628	29,347	16,229	14.9	14.2	16.8	14.1
With multiple monitors	94	104	214	111	5,289	6,407	12,095	7,155	17.7	16.2	17.7	15.6
Laptop computers	179	196	412	181	11,774	13,895	24,921	12,896	15.2	14.1	16.5	14.0
Dedicated servers	162	173	359	175	10,087	11,271	20,565	11,447	16.1	15.3	17.4	15.3
Laser printers	162	174	357	162	10,317	12,158	20,460	11,320	15.7	14.3	17.5	14.3
Inkjet printers	88	104	226	106	6,559	7,682	14,297	7,697	13.4	13.6	15.8	13.8
FAX machines	189	206	443	191	12,733	14,439	25,795	13,715	14.8	14.3	17.2	13.9
Photocopiers	178	185	371	175	11,654	13,053	22,099	12,471	15.2	14.1	16.8	14.0
<b>Number of desktop computers</b>												
None	11	11	30	13	1,175	1,698	3,340	1,592	9.0	6.8	9.0	8.4
1 to 4	26	41	98	41	2,457	3,582	6,273	3,356	10.4	11.4	15.7	12.1
5 to 9	20	28	60	26	1,392	2,120	3,528	2,381	14.2	13.1	16.9	11.1
10 to 19	22	24	52	31	1,644	1,826	3,531	2,388	13.7	13.1	14.6	13.1
20 to 49	31	41	97	40	2,327	2,591	5,347	2,830	13.5	15.8	18.2	14.3
50 to 99	20	28	48	23	1,365	1,984	3,243	1,692	14.9	14.3	14.8	13.5
100 to 249	39	31	60	30	2,303	2,202	3,391	1,832	17.1	14.0	17.6	16.5
250 or more	51	45	86	38	2,628	2,556	4,373	1,921	19.4	17.7	19.7	19.6
<b>Number of laptop computers</b>												
None	41	53	119	62	3,517	4,665	8,104	5,096	11.7	11.3	14.6	12.2
1 to 4	38	60	121	53	3,350	5,045	8,080	4,687	11.3	11.9	15.0	11.4
5 to 9	25	23	56	22	1,406	1,478	3,568	1,894	18.1	15.8	15.6	11.4
10 to 19	22	20	56	32	1,500	1,473	3,386	1,984	14.4	13.8	16.7	16.2
20 to 49	22	32	61	38	1,471	2,195	3,794	2,183	15.0	14.8	16.2	17.5
50 to 99	17	21	34	14	1,218	1,312	1,827	877	13.9	15.7	18.5	16.1
100 to 249	24	16	39	11	1,414	1,022	2,108	673	17.3	15.4	18.6	16.0
250 or more	31	24	44	11	1,415	1,370	2,159	598	21.8	17.4	20.2	17.9
<b>Number of dedicated servers</b>												
None	58	76	172	68	5,205	7,288	12,461	6,545	11.2	10.5	13.8	10.3
1 to 4	82	102	217	96	6,193	7,200	13,500	7,203	13.3	14.1	16.1	13.3
5 to 9	18	23	37	22	1,092	1,435	2,226	1,487	16.6	16.1	16.8	14.8
10 to 19	25	16	44	24	1,117	1,006	2,325	1,263	22.8	16.4	18.7	18.9
20 to 49	11	17	29	13	688	982	1,309	779	16.4	17.0	22.3	16.7
50 or more	25	15	32	20	996	649	1,204	714	24.9	23.0	26.4	28.5
<b>Number of photocopiers</b>												
None	43	65	159	68	3,637	5,507	10,927	5,521	11.8	11.8	14.6	12.3
One	31	48	88	48	2,604	3,942	6,129	4,405	12.0	12.0	14.3	10.9
2 to 4	43	61	132	56	3,581	4,583	8,063	4,085	12.1	13.3	16.4	13.7
5 to 9	35	30	56	23	1,946	2,167	3,203	1,547	17.9	14.0	17.4	15.0
10 or more	68	46	96	47	3,523	2,361	4,704	2,434	19.3	19.3	20.3	19.5

**Table C15. Electricity consumption and conditional energy intensity by Census region, 2012**

	Total electricity consumption (billion kWh)				Total floorspace of buildings using electricity (million square feet)				Electricity energy intensity (kwh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All buildings</b>	220	249	530	243	15,291	18,560	33,026	17,992	14.4	13.4	16.1	13.5
<b>Number of TVs or video displays</b>												
None	40	46	89	49	3,811	4,731	8,229	5,343	10.4	9.7	10.8	9.1
One	17	26	55	23	1,416	2,292	4,276	2,006	12.0	11.2	12.9	11.4
2 to 4	36	52	111	38	2,930	4,056	6,314	3,165	12.2	12.8	17.5	11.9
5 to 9	33	21	63	33	1,824	1,450	3,162	1,711	17.8	14.6	19.9	19.4
10 to 19	33	35	57	22	1,799	1,893	3,051	1,424	18.6	18.4	18.6	15.2
20 to 49	24	25	60	31	1,443	1,668	3,188	1,759	16.5	14.8	18.7	17.9
50 to 99	7	15	38	17	382	929	2,036	1,031	18.2	16.3	18.8	16.4
100 or more	31	30	58	30	1,685	1,541	2,769	1,552	18.4	19.4	20.8	19.6
<b>Food preparation or serving areas in non-food service buildings (more than one may apply)</b>												
Snack bar or concession stand	36	37	78	40	1,924	2,262	3,763	1,934	18.7	16.5	20.6	20.7
Fast food or small restaurant	37	39	97	51	1,751	1,774	3,797	2,464	20.9	21.9	25.6	20.9
Cafeteria or large restaurant	62	52	103	43	3,585	3,455	5,947	2,236	17.4	15.0	17.3	19.5
Commercial kitchen/food preparation area	58	60	117	57	3,254	3,952	6,092	2,852	17.8	15.3	19.2	19.9
Small kitchen area	41	42	83	37	3,105	3,413	5,121	2,414	13.1	12.4	16.2	15.5
<b>Separate computer areas (more than one may apply)</b>												
Data center or server farm	54	49	82	54	2,377	2,488	3,873	2,366	22.5	19.6	21.3	22.7
Computer-based training room	51	65	128	56	3,341	3,950	7,121	3,311	15.2	16.4	17.9	17.0
Student or public computer center	32	41	94	37	2,710	3,338	5,999	2,293	11.7	12.2	15.6	16.0
<b>HVAC conservation features (more than one may apply)</b>												
Economizer cycle	125	128	173	112	6,911	7,916	9,051	6,870	18.1	16.2	19.1	16.3
Regular HVAC maintenance	203	223	470	212	12,982	15,173	26,573	14,517	15.6	14.7	17.7	14.6
Building automation system (BAS) <sup>2</sup>	126	133	279	132	6,934	7,996	14,578	7,542	18.2	16.7	19.1	17.4
<b>Window and interior lighting features (more than one may apply)</b>												
Multipaned windows	170	213	387	160	11,389	15,143	22,263	10,935	15.0	14.1	17.4	14.7
Tinted window glass	109	140	320	150	6,309	9,002	18,538	10,550	17.3	15.6	17.2	14.2
Reflective window glass	44	65	122	70	2,344	3,771	5,426	4,296	18.6	17.3	22.4	16.3
External overhangs or awnings	81	102	250	117	4,290	6,476	13,763	7,533	18.8	15.8	18.1	15.5
Skylights or atriums	64	57	136	74	4,035	4,089	8,064	5,889	15.7	14.0	16.9	12.6
Light scheduling	107	107	207	121	5,838	6,651	10,737	7,038	18.3	16.1	19.2	17.2
Occupancy sensors	124	124	236	124	7,732	7,916	11,922	8,300	16.0	15.7	19.8	14.9
Multi-level lighting or dimming	44	55	109	64	2,335	3,177	5,424	3,598	18.9	17.3	20.1	17.8
Daylight harvesting	18	27	36	28	1,032	1,522	1,996	1,564	17.5	18.0	17.8	17.8
Demand responsive lighting	10	15	34	21	648	912	1,692	1,487	14.8	16.7	20.2	14.0
Building automation system (BAS) for lighting <sup>2</sup>	47	45	91	57	2,159	2,448	4,507	2,953	21.6	18.2	20.1	19.3
<b>Equipment usage reduced when building not in full use (more than one may apply)</b>												
Heating	173	185	354	181	12,285	14,110	23,309	13,442	14.1	13.1	15.2	13.4
Cooling	167	180	375	180	11,450	13,442	24,448	13,176	14.6	13.4	15.3	13.6
Lighting	200	230	482	225	14,259	17,263	30,541	16,531	14.1	13.3	15.8	13.6



**Table C15. Electricity consumption and conditional energy intensity by Census region, 2012**

	Total electricity consumption (billion kWh)				Total floorspace of buildings using electricity (million square feet)				Electricity energy intensity (kwh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All buildings</b>	220	249	530	243	15,291	18,560	33,026	17,992	14.4	13.4	16.1	13.5
<b>Annual consumption (kilowatthours)</b>												
10,000 or less	1	1	1	1	558	858	978	689	1.2	1.4	1.3	1.3
10,001 to 50,000	7	11	18	13	1,818	2,506	3,555	2,623	4.0	4.5	5.1	5.0
50,001 to 100,000	8	13	27	14	960	1,663	3,130	1,849	8.4	7.9	8.6	7.7
100,001 to 500,000	40	53	125	65	3,346	4,271	8,470	5,226	11.9	12.3	14.8	12.5
500,001 to 1,000,000	23	37	78	27	1,805	2,205	4,202	1,838	12.9	16.6	18.6	14.6
1,000,001 to 5,000,000	68	84	160	67	4,070	4,815	8,197	3,657	16.7	17.4	19.5	18.4
Over 5,000,000	73	51	121	55	2,733	2,242	4,494	2,109	26.8	22.6	26.9	26.2

<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.