

Table C19. Electricity consumption and conditional energy intensity by Census division (part 3), 2012

	Total electricity consumption (billion kWh)			Total floorspace of buildings using electricity (million square feet)			Electricity energy intensity (kWh/square foot)		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All buildings	173	67	176	10,594	4,812	13,180	16.3	13.9	13.3
Building floorspace (square feet)									
1,001 to 5,000	19	7	17	1,127	488	1,129	16.8	15.0	15.5
5,001 to 10,000	17	9	22	1,035	495	1,700	16.4	17.5	12.7
10,001 to 25,000	20	8	28	1,620	870	2,551	12.6	9.4	11.0
25,001 to 50,000	25	5	24	1,584	467	2,249	15.7	10.2	10.7
50,001 to 100,000	29	10	18	1,844	725	1,636	15.9	13.1	11.1
100,001 to 200,000	26	6	32	1,727	447	1,875	14.9	13.8	17.0
200,001 to 500,000	24	11	22	1,067	774	1,310	22.4	14.9	16.7
Over 500,000	13	Q	13	591	546	731	21.5	20.1	17.6
Principal building activity									
Education	23	8	10	1,853	783	1,065	12.3	10.1	9.8
Food sales	Q	Q	12	Q	Q	304	Q	Q	39.3
Food service	12	4	12	225	104	282	53.7	35.3	43.2
Health care	16	6	13	508	289	497	31.5	20.4	27.1
Inpatient	12	4	11	304	132	315	38.0	27.8	34.4
Outpatient	Q	2	3	204	157	182	21.9	14.1	14.5
Lodging	9	Q	11	599	519	940	14.5	18.2	11.9
Mercantile	24	13	36	1,247	727	2,088	19.4	18.4	17.2
Retail (other than mall)	11	6	15	693	307	1,030	16.6	18.7	14.9
Enclosed and strip malls	13	8	21	554	420	1,058	23.0	18.3	19.5
Office	28	10	40	1,625	852	2,562	17.4	12.2	15.8
Public assembly	13	5	8	769	321	697	16.8	16.2	11.8
Public order and safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious worship	3	1	2	540	214	511	5.6	4.4	4.8
Service	4	Q	5	498	Q	578	7.6	Q	9.5
Warehouse and storage	20	2	14	1,850	582	2,829	11.0	4.1	5.0
Other	Q	Q	7	Q	Q	345	Q	Q	19.5
Vacant	Q	Q	1	Q	Q	306	Q	Q	3.9
Year constructed									
Before 1920	2	Q	2	259	Q	205	7.6	Q	7.5
1920 to 1945	6	Q	8	570	Q	648	10.5	Q	13.1
1946 to 1959	11	3	14	806	314	1,167	13.1	9.0	11.8
1960 to 1969	16	5	24	1,041	406	1,498	15.7	12.3	16.1
1970 to 1979	23	11	19	1,332	785	1,750	17.2	14.4	10.6
1980 to 1989	45	11	35	2,247	885	2,912	20.2	12.8	12.0
1990 to 1999	32	11	31	1,807	776	1,930	17.5	14.0	16.3
2000 to 2003	20	6	13	1,170	419	1,007	16.9	14.8	12.5
2004 to 2007	8	14	16	605	667	Q	13.2	20.9	12.8
2008 to 2012	10	3	Q	757	327	782	13.7	10.6	18.1

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All buildings	173	67	176	10,594	4,812	13,180	16.3	13.9	13.3
Climate region¹									
Very cold/Cold	N	41	26	N	3,318	1,811	N	12.2	14.6
Mixed-humid	44	N	N	2,895	N	N	15.0	N	N
Mixed-dry/Hot-dry	Q	27	113	Q	1,494	8,753	8.9	17.7	12.9
Hot-humid	116	N	Q	6,204	N	Q	18.7	N	Q
Marine	N	N	35	N	N	2,416	N	N	14.6
Number of floors									
One	96	30	89	6,025	2,415	6,999	15.9	12.5	12.7
Two	28	16	35	1,975	1,153	3,116	14.3	13.6	11.3
Three	10	3	10	692	265	809	15.0	11.4	12.6
Four to nine	28	8	32	1,396	498	1,687	20.3	16.8	19.0
Ten or more	10	Q	10	506	Q	568	19.8	20.4	16.7
Elevators and escalators (more than one may apply)									
Any elevators	62	29	66	3,266	1,700	3,920	18.9	17.0	16.7
Number of elevators									
One	20	6	13	1,277	486	1,207	15.4	11.8	11.0
Two to five	25	10	29	1,295	563	1,705	19.5	17.6	17.3
Six or more	17	Q	23	694	651	1,007	24.4	20.3	22.6
Any escalators	Q	Q	7	Q	Q	461	Q	Q	14.6
Number of workers (main shift)									
Fewer than 5	19	9	17	2,240	799	2,271	8.3	10.8	7.3
5 to 9	21	7	17	1,308	565	1,662	16.1	12.9	10.4
10 to 19	19	7	23	1,307	560	1,978	14.8	13.0	11.4
20 to 49	35	9	40	1,646	858	2,771	21.1	10.9	14.3
50 to 99	30	7	24	1,821	597	1,657	16.4	11.8	14.5
100 to 249	21	13	22	1,094	689	1,246	19.2	18.2	17.5
250 or more	28	15	34	1,178	745	1,595	24.2	19.9	21.2
Weekly operating hours									
Fewer than 40	5	2	5	994	433	860	5.2	5.3	5.3
40 to 48	30	8	29	2,615	896	2,734	11.3	8.8	10.5
49 to 60	32	13	31	2,522	1,161	3,096	12.5	11.3	10.1
61 to 84	27	13	39	1,331	807	2,804	20.4	15.9	14.0
85 to 167	22	8	29	784	400	1,539	28.2	19.8	18.8
Open continuously	57	23	43	2,348	1,115	2,147	24.4	20.7	20.1

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All buildings	173	67	176	10,594	4,812	13,180	16.3	13.9	13.3
Predominant roof material									
Metal surfacing	37	11	19	2,810	822	1,729	13.0	12.8	10.8
Synthetic or rubber	40	28	47	1,946	1,839	2,837	20.6	15.3	16.4
Built-up	56	15	54	3,051	1,161	3,935	18.2	13.0	13.7
Slate or tile shingles	12	3	15	Q	167	1,015	16.4	18.3	14.8
Wooden materials (including shingles)	Q	Q	4	Q	Q	428	Q	Q	9.4
Asphalt, fiberglass, or other shingles	23	8	29	1,652	677	2,572	14.0	11.4	11.4
Concrete	Q	Q	5	Q	Q	332	Q	Q	15.4
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No one major type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Roof characteristics									
Roof tilt									
Flat	107	39	118	5,677	2,669	8,025	18.9	14.6	14.7
Shallow pitch	47	22	42	3,629	1,526	3,584	13.0	14.2	11.8
Steeper pitch	18	6	16	1,288	616	1,571	14.3	10.3	10.2
Cool roof	44	19	60	2,254	1,426	3,465	19.5	13.5	17.2
Renovations in buildings constructed before 2008 (more than one may apply)									
Any type of renovation	96	33	74	5,234	2,245	5,206	18.4	14.5	14.3
Addition or annex	26	15	13	1,451	855	902	18.3	17.0	14.8
Reduction in floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Roof replacement	47	13	28	2,358	1,063	2,034	19.9	12.5	13.9
Exterior wall replacement	9	Q	9	369	Q	647	23.7	Q	14.6
Interior wall reconfiguration	47	23	42	2,264	1,418	2,836	20.7	16.3	14.9
Window replacement	24	Q	15	1,098	770	1,278	21.6	15.3	12.1
HVAC equipment upgrade	61	24	45	3,256	1,561	2,837	18.7	15.4	15.7
Lighting upgrade	64	23	47	3,174	1,496	3,058	20.2	15.3	15.4
Electrical upgrade	35	16	28	1,877	986	1,721	18.9	16.4	16.1
Plumbing system upgrade	27	14	25	1,433	782	1,593	18.6	17.7	15.8
Insulation upgrade	16	Q	13	746	Q	821	21.9	19.5	16.2
Fire, safety, or security upgrade	39	13	31	2,178	912	1,987	17.7	13.9	15.4
Structural upgrade	Q	Q	11	Q	Q	717	Q	19.3	15.7
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No renovations	66	31	87	4,603	2,239	7,192	14.4	13.8	12.2
Buildings constructed 2008 or later	10	3	Q	757	327	782	13.7	10.6	18.1

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	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All buildings	173	67	176	10,594	4,812	13,180	16.3	13.9	13.3
Energy sources (more than one may apply)									
Electricity	173	67	176	10,594	4,812	13,180	16.3	13.9	13.3
Natural gas	108	54	138	6,480	3,766	8,966	16.7	14.2	15.4
Fuel oil	45	19	41	1,835	1,092	2,043	24.8	17.4	20.2
District heat	12	Q	7	646	482	404	19.1	19.2	17.3
District chilled water	14	Q	6	773	Q	329	18.5	20.3	17.0
Propane	16	Q	11	621	503	982	25.5	15.3	11.4
Other	Q	6	8	Q	403	631	Q	14.7	13.2
Space-heating energy sources									
Electricity	121	39	108	6,874	2,791	7,768	17.7	13.8	13.9
Electricity main	86	18	63	4,604	1,122	4,794	18.8	15.9	13.1
Electricity secondary	35	21	45	2,270	1,668	2,974	15.4	12.4	15.0
Other excluding electricity	47	28	59	3,050	1,913	3,999	15.4	14.6	14.7
Buildings without heating	4	Q	9	671	Q	1,413	6.6	Q	6.6
Primary space-heating energy source									
Electricity	86	18	63	4,604	1,122	4,794	18.8	15.9	13.1
Natural gas	67	38	95	4,551	2,893	6,333	14.7	13.0	15.0
Fuel oil	Q	Q	Q	Q	Q	Q	Q	Q	Q
District heat	12	Q	7	637	482	385	19.2	19.2	17.4
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling energy sources									
Electricity	159	59	165	9,275	4,205	11,749	17.2	14.1	14.0
Other excluding electricity	11	Q	3	655	Q	228	17.1	Q	14.5
Buildings without cooling	3	2	8	663	323	1,202	3.9	4.9	6.5
Water-heating energy sources									
Electricity	98	29	92	5,386	2,000	6,810	18.1	14.3	13.5
Other excluding electricity	69	36	78	4,133	2,440	5,279	16.8	14.8	14.7
Buildings without water heating	6	2	6	1,075	372	1,091	5.6	6.3	5.6
Cooking energy sources									
Electricity	59	26	61	2,822	1,522	2,981	21.1	16.8	20.4
Other excluding electricity	26	17	35	1,379	898	1,861	18.8	19.4	18.9
Buildings without cooking	88	24	80	6,393	2,392	8,338	13.7	10.0	9.6
Energy end uses (more than one may apply)									
Buildings with space heating	169	67	167	9,923	4,704	11,767	17.0	14.1	14.2
Buildings with cooling	170	65	168	9,931	4,489	11,978	17.2	14.6	14.0
Buildings with water heating	167	65	170	9,519	4,440	12,089	17.5	14.6	14.0
Buildings with cooking	85	43	96	4,201	2,420	4,842	20.3	17.8	19.8
Buildings with manufacturing	19	Q	10	705	Q	999	27.4	Q	9.5
Buildings with electricity generation	56	29	59	2,401	1,635	3,049	23.2	17.7	19.3

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	West Central	South Mountain	Pacific	West Central	South Mountain	Pacific	West Central	South Mountain	Pacific
All buildings	173	67	176	10,594	4,812	13,180	16.3	13.9	13.3
Main equipment replaced since 1990 (more than one may apply)									
Heating	52	16	47	3,228	1,365	3,903	16.0	11.9	12.1
Cooling	59	18	52	3,458	1,440	4,070	17.0	12.5	12.9
Water-heating equipment									
Centralized system	100	39	93	5,826	2,573	7,058	17.2	15.1	13.2
Distributed system	24	7	27	1,471	699	2,333	16.3	9.4	11.5
Combination of centralized and distributed system	43	19	50	2,222	1,168	2,698	19.2	16.5	18.4
Lighting equipment types (more than one may apply)									
Incandescent	75	36	73	4,286	2,253	4,969	17.5	16.0	14.7
Standard fluorescent	166	65	167	9,901	4,529	12,203	16.8	14.4	13.7
Compact fluorescent	114	47	123	6,263	3,007	8,156	18.2	15.7	15.1
High-intensity discharge (HID)	45	22	40	2,841	1,314	2,868	15.7	16.5	13.9
Halogen	61	26	67	3,459	1,663	3,990	17.7	15.7	16.8
LED	40	29	48	1,774	1,513	3,099	22.4	19.0	15.5
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration equipment (more than one may apply)									
Any refrigeration	159	63	156	8,989	4,179	10,530	17.7	15.1	14.8
Walk-in units	72	38	77	3,179	1,898	3,486	22.6	20.0	22.1
Cases or cabinets	65	35	83	3,079	1,740	3,725	21.2	20.3	22.2
Large cold storage areas	8	Q	18	316	Q	676	26.2	Q	25.9
Commercial ice makers	84	40	81	4,102	2,093	3,955	20.5	19.3	20.5
Residential-type or compact units	116	46	126	7,312	3,323	9,176	15.9	14.0	13.7
Vending machines	101	40	94	5,219	2,529	5,659	19.3	15.7	16.6
No refrigeration	14	4	20	1,605	633	2,650	8.8	6.4	7.6
Office equipment (more than one may apply)									
Desktop computers	161	63	166	9,194	4,338	12,062	17.5	14.6	13.8
With flat screen monitors	161	63	165	9,111	4,261	11,968	17.7	14.8	13.8
With multiple monitors	67	32	80	3,708	1,992	5,163	18.1	15.9	15.4
Laptop computers	130	51	129	7,550	3,614	9,282	17.3	14.2	13.9
Dedicated servers	112	51	125	6,199	3,189	8,258	18.1	15.9	15.1
Laser printers	108	45	117	5,990	2,952	8,367	18.0	15.3	14.0
Inkjet printers	78	29	77	4,619	2,056	5,641	16.9	14.3	13.6
FAX machines	145	54	137	8,084	3,708	10,007	17.9	14.5	13.7
Photocopiers	116	47	128	6,763	3,360	9,111	17.2	13.9	14.1

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All buildings	173	67	176	10,594	4,812	13,180	16.3	13.9	13.3
Number of desktop computers									
None	12	4	10	1,400	474	1,118	8.3	7.7	8.8
1 to 4	33	10	31	2,044	782	2,575	16.3	12.7	11.9
5 to 9	20	6	20	1,156	515	1,866	17.4	11.5	11.0
10 to 19	15	6	26	979	429	1,958	14.9	13.4	13.1
20 to 49	35	13	28	1,623	873	1,957	21.3	14.7	14.1
50 to 99	15	7	16	1,074	434	1,259	13.7	15.9	12.7
100 to 249	13	12	18	826	653	1,179	15.3	18.5	15.3
250 or more	31	10	28	1,493	653	1,268	21.0	15.3	21.9
Number of laptop computers									
None	43	16	47	3,044	1,198	3,898	14.0	13.2	11.9
1 to 4	42	14	39	2,580	1,163	3,524	16.3	11.9	11.2
5 to 9	16	8	14	1,113	509	1,384	14.5	15.6	9.9
10 to 19	15	5	27	904	405	1,579	16.1	12.3	17.2
20 to 49	15	13	25	927	740	1,444	16.7	18.0	17.2
50 to 99	17	4	10	774	309	568	21.5	13.9	17.3
100 to 249	13	4	7	766	285	388	17.3	12.7	18.5
250 or more	12	3	7	486	202	395	25.2	16.0	18.9
Number of dedicated servers									
None	60	16	51	4,395	1,623	4,922	13.8	10.1	10.4
1 to 4	65	29	67	3,980	2,061	5,143	16.3	13.9	13.1
5 to 9	13	5	17	749	357	1,131	17.8	15.1	14.8
10 to 19	14	Q	16	622	Q	899	22.4	22.1	17.6
20 to 49	12	5	8	455	282	497	25.6	18.3	15.8
50 or more	Q	Q	17	Q	Q	589	22.3	Q	28.9
Number of photocopiers									
None	56	20	48	3,831	1,452	4,069	14.7	14.0	11.7
One	28	12	36	1,915	1,003	3,402	14.8	12.0	10.6
2 to 4	47	13	43	2,743	1,137	2,948	17.3	11.2	14.7
5 to 9	13	6	17	804	399	1,148	16.1	15.4	14.9
10 or more	28	16	32	1,300	821	1,613	21.3	19.2	19.7
Number of TVs or video displays									
None	30	14	35	2,835	1,279	4,064	10.5	11.1	8.5
One	20	4	19	1,374	524	1,482	14.4	8.3	12.5
2 to 4	38	7	30	2,158	688	2,477	17.4	10.7	12.2
5 to 9	27	6	27	1,001	292	1,419	26.5	20.2	19.3
10 to 19	19	7	15	1,058	488	936	17.9	13.4	16.2
20 to 49	13	11	20	814	620	1,139	16.3	18.1	17.8
50 to 99	12	6	Q	Q	409	622	17.4	14.9	17.3
100 or more	15	Q	19	672	Q	1,039	22.7	22.3	18.2

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All buildings	173	67	176	10,594	4,812	13,180	16.3	13.9	13.3
Food preparation or serving areas in non-food service buildings (more than one may apply)									
Snack bar or concession stand	18	16	24	884	723	1,211	20.8	21.5	20.1
Fast food or small restaurant	28	20	31	1,053	871	1,593	26.5	23.1	19.7
Cafeteria or large restaurant	26	17	26	1,625	916	1,320	16.0	19.0	19.7
Commercial kitchen/food preparation area	29	19	38	1,503	992	1,859	19.4	18.9	20.4
Small kitchen area	23	15	23	1,498	840	1,574	15.2	17.5	14.4
Separate computer areas (more than one may apply)									
Data center or server farm	26	15	39	1,120	662	1,704	22.9	23.1	22.6
Computer-based training room	41	24	32	2,347	1,364	1,947	17.4	17.7	16.5
Student or public computer center	31	14	22	2,051	1,010	1,283	14.9	14.1	17.5
HVAC conservation features (more than one may apply)									
Economizer cycle	55	33	79	2,706	2,022	4,849	20.4	16.3	16.4
Regular HVAC maintenance	155	59	153	8,319	3,991	10,526	18.6	14.9	14.5
Building automation system (BAS) ²	87	39	93	4,628	2,310	5,233	18.9	16.9	17.7
Window and interior lighting features (more than one may apply)									
Multipaned windows	116	51	109	6,396	3,728	7,206	18.2	13.8	15.1
Tinted window glass	115	42	108	6,377	2,626	7,925	18.0	15.8	13.7
Reflective window glass	39	20	50	1,763	1,264	3,032	21.9	16.1	16.4
External overhangs or awnings	70	34	82	3,972	2,235	5,299	17.6	15.4	15.5
Skylights or atriums	44	21	54	2,391	1,426	4,462	18.4	14.4	12.1
Light scheduling	61	27	93	3,324	1,650	5,388	18.3	16.6	17.3
Occupancy sensors	71	32	92	3,364	2,027	6,273	21.0	15.7	14.7
Multi-level lighting or dimming	21	20	44	1,086	1,200	2,398	19.1	16.4	18.5
Daylight harvesting	9	9	19	666	461	1,103	13.7	19.1	17.3
Demand responsive lighting	Q	Q	18	Q	Q	1,332	Q	Q	13.8
Building automation system (BAS) for lighting ²	24	14	43	1,298	807	2,146	18.3	17.7	20.0
Equipment usage reduced when building not in full use (more than one may apply)									
Heating	119	50	131	7,371	3,738	9,704	16.1	13.4	13.5
Cooling	119	47	132	7,315	3,479	9,697	16.3	13.5	13.7
Lighting	158	62	163	9,645	4,497	12,034	16.4	13.9	13.5

Table C19. Electricity consumption and conditional energy intensity by Census division (part 3), 2012

	Total electricity consumption (billion kWh)			Total floorspace of buildings using electricity (million square feet)			Electricity energy intensity (kWh/square foot)		
	West South		Pacific	West South		Pacific	West South		Pacific
	Central	Mountain		Central	Mountain		Central	Mountain	
All buildings	173	67	176	10,594	4,812	13,180	16.3	13.9	13.3
Annual consumption (kilowatthours)									
10,000 or less	1	(*)	1	432	191	498	1.3	1.1	1.4
10,001 to 50,000	7	3	10	1,298	679	1,944	5.3	5.1	5.0
50,001 to 100,000	8	3	12	1,048	282	1,566	8.1	9.1	7.5
100,001 to 500,000	35	20	46	2,373	1,400	3,825	14.6	14.0	11.9
500,001 to 1,000,000	30	6	21	1,647	432	1,406	18.4	13.1	15.1
1,000,001 to 5,000,000	48	15	52	2,387	956	2,701	20.3	16.2	19.1
Over 5,000,000	44	20	35	1,410	871	1,238	31.0	23.1	28.4

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 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.