

Table C20A. Electricity Consumption and Conditional Energy Intensity by Climate Zone^a for All Buildings, 2003

	Total Electricity Consumption (billion kWh)					Total Floorspace of Buildings Using Electricity (million square feet)					Electricity Energy Intensity (kWh/square foot)				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings	137	254	189	261	202	11,300	18,549	12,374	17,064	10,894	12.1	13.7	15.3	15.3	18.5
Building Floorspace (Square Feet)															
1,001 to 5,000	19	27	14	32	23	1,210	1,631	923	1,811	903	15.7	16.4	15.0	17.8	25.8
5,001 to 10,000	12	18	15	27	14	1,175	1,639	1,062	1,855	914	10.2	10.9	14.3	14.3	15.5
10,001 to 25,000	22	36	24	31	29	2,354	3,506	1,479	3,133	2,022	9.2	10.4	16.2	9.8	14.5
25,001 to 50,000	19	26	17	30	24	1,547	2,341	1,382	2,303	1,525	12.3	11.1	12.5	13.1	15.7
50,001 to 100,000	19	39	29	36	29	1,480	2,780	2,011	2,326	1,668	12.8	14.2	14.5	15.6	17.6
100,001 to 200,000	18	46	26	49	32	1,311	2,878	1,872	2,570	1,538	13.6	15.9	14.1	19.3	21.1
200,001 to 500,000	14	28	22	27	21	1,150	2,007	1,678	1,493	1,042	12.5	13.8	13.2	17.8	20.1
Over 500,000	14	34	41	29	29	1,073	1,766	1,966	1,573	1,282	13.4	19.5	20.7	18.2	22.4
Principal Building Activity															
Education	13	23	16	31	27	1,537	2,800	1,401	2,435	1,698	8.2	8.0	11.1	12.7	16.0
Food Sales	12	Q	Q	Q	Q	271	Q	Q	Q	Q	43.0	Q	Q	Q	Q
Food Service	7	12	Q	20	17	227	400	Q	440	366	29.3	30.6	Q	45.7	46.3
Health Care	10	18	11	20	14	475	784	564	844	496	20.6	23.3	19.2	23.7	27.6
Inpatient	6	12	8	17	9	262	450	323	592	278	23.7	27.7	23.3	28.2	34.0
Outpatient	4	6	3	3	Q	213	334	240	252	Q	16.7	17.4	13.7	13.4	Q
Lodging	8	21	12	18	10	768	1,314	1,132	1,275	608	10.1	15.9	Q	14.0	16.7
Mercantile	28	40	33	58	56	1,617	2,337	1,694	3,346	2,197	17.0	17.2	19.4	17.3	25.6
Retail (Other Than Mall)	10	10	10	16	15	710	865	695	1,454	592	14.2	11.0	14.8	11.3	25.9
Enclosed and Strip Malls	17	31	23	41	41	907	1,473	999	1,892	1,604	19.2	20.8	22.7	21.9	25.5
Office	22	58	53	39	38	1,593	3,165	3,125	2,341	1,985	13.9	18.2	17.1	16.8	19.2
Public Assembly	8	8	6	18	9	876	818	806	906	529	9.1	9.5	Q	19.7	17.0
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	1	5	2	5	5	408	1,320	499	1,039	488	3.0	3.5	4.9	4.8	10.1
Service	10	11	Q	7	Q	911	1,179	639	946	Q	10.6	9.6	Q	7.6	Q
Warehouse and Storage	11	24	11	16	9	1,564	2,539	1,426	2,186	1,710	7.0	9.6	7.9	7.5	5.0
Other	Q	11	Q	Q	Q	Q	467	Q	Q	Q	Q	24.6	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed															
Before 1920	6	8	Q	2	Q	1,212	1,393	731	286	Q	5.2	5.6	Q	8.7	Q
1920 to 1945	8	24	17	9	Q	1,071	2,125	1,949	1,190	Q	7.8	11.1	8.6	7.7	Q
1946 to 1959	9	24	15	18	6	1,070	2,499	1,427	1,529	530	8.8	9.4	10.3	12.1	11.4
1960 to 1969	16	29	21	21	18	1,447	2,576	1,571	1,958	1,046	11.3	11.3	13.4	10.9	16.8
1970 to 1979	38	51	39	40	34	2,496	3,259	1,939	2,689	1,676	15.4	15.6	20.0	14.8	20.3
1980 to 1989	15	55	40	72	50	1,095	2,790	2,101	3,786	2,517	13.9	19.6	19.1	18.9	19.8
1990 to 1999	31	43	31	74	61	2,032	2,620	1,722	4,115	3,209	15.4	16.6	18.3	17.9	19.1
2000 to 2003	12	21	18	24	27	876	1,288	935	1,510	1,420	13.3	16.6	19.4	15.9	18.7
Census Region and Division															
Northeast	26	73	73	N	N	2,515	5,958	5,425	N	N	10.3	12.2	13.5	N	N
New England	7	34	N	N	N	Q	2,463	N	N	N	7.4	13.9	N	N	N
Middle Atlantic	Q	39	73	N	N	1,549	3,495	5,425	N	N	12.1	11.1	13.5	N	N
Midwest	68	147	20	N	N	5,783	10,372	1,570	N	N	11.8	14.1	12.5	N	N
East North Central	35	133	N	N	N	3,167	9,036	N	N	N	11.0	14.8	N	N	N
West North Central	33	13	20	N	N	2,616	Q	1,570	N	N	12.7	9.9	12.5	N	N
South	N	N	86	183	183	N	N	4,661	11,153	10,203	N	N	18.4	16.4	17.9
South Atlantic	N	N	57	124	73	N	N	3,063	6,997	3,778	N	N	18.8	17.7	19.2
East South Central	N	N	Q	Q	Q	N	N	Q	Q	Q	N	N	19.7	13.5	19.6
West South Central	N	N	Q	33	103	N	N	Q	2,153	6,026	N	N	Q	15.1	17.0
West	43	35	10	78	19	3,002	2,219	718	5,911	692	14.3	15.8	14.5	13.1	27.4
Mountain	34	Q	N	N	16	2,420	1,166	N	N	580	14.0	15.8	N	N	27.2
Pacific	Q	Q	10	78	Q	Q	Q	718	5,911	Q	15.7	15.8	14.5	13.1	Q

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	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings	137	254	189	261	202	11,300	18,549	12,374	17,064	10,894	12.1	13.7	15.3	15.3	18.5
Number of Establishments															
One	83	169	111	161	103	6,955	12,392	7,648	11,322	6,061	12.0	13.6	14.5	14.2	16.9
2 to 5	31	41	31	51	26	2,512	3,217	2,021	3,008	1,768	12.3	12.9	15.3	17.0	14.8
6 to 10	9	16	10	11	20	584	867	530	586	791	15.3	18.7	19.7	19.4	25.7
11 to 20	Q	15	13	14	18	Q	747	793	694	723	Q	20.4	16.0	20.8	24.3
More than 20	Q	Q	23	23	35	Q	Q	1,227	1,236	1,417	Q	Q	18.8	18.5	24.7
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)															
Electricity	137	254	189	261	202	11,300	18,549	12,374	17,064	10,894	12.1	13.7	15.3	15.3	18.5
Natural Gas	111	201	138	183	110	8,484	14,122	8,970	11,796	5,093	13.0	14.2	15.4	15.5	21.6
Fuel Oil	33	70	77	50	45	2,624	4,270	4,950	2,528	1,878	12.7	16.4	15.5	19.6	24.1
District Heat	11	34	23	23	Q	825	1,917	1,349	1,025	Q	13.3	17.9	17.0	22.0	Q
Energy End Uses (more than one may apply)															
Buildings with Space Heating	136	252	188	249	181	10,986	18,166	12,233	15,705	9,320	12.4	13.9	15.4	15.9	19.5
Buildings with Cooling	129	238	187	255	201	9,438	15,932	11,906	15,798	10,472	13.7	14.9	15.7	16.1	19.1
Buildings with Water Heating	133	235	187	248	187	10,335	16,511	11,765	14,976	9,225	12.9	14.2	15.9	16.6	20.3
Annual Consumption (kilowatthours)															
10,000 or Less	1	1	1	1	Q	636	1,052	306	622	Q	1.3	1.1	1.7	1.7	Q
10,001 to 50,000	7	12	7	12	7	1,595	2,612	1,270	2,633	1,160	4.7	4.5	5.6	4.6	5.8
50,001 to 100,000	10	12	8	17	8	1,086	1,607	1,369	1,739	924	9.1	7.5	5.8	9.5	9.1
100,001 to 500,000	43	62	30	60	43	3,333	4,729	2,864	4,124	2,571	12.8	13.0	10.6	14.6	16.8
500,001 to 1,000,000	12	24	22	27	26	1,110	1,853	1,353	1,641	1,402	10.6	12.8	16.3	16.3	18.5
1,000,001 to 5,000,000	43	81	60	84	66	2,502	3,998	2,642	3,894	2,565	17.1	20.3	22.5	21.6	25.6
Over 5,000,000	22	63	62	60	52	1,036	2,698	2,570	2,411	2,026	20.9	23.4	23.9	24.8	25.6

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site <http://www.eia.doe.gov/emeu/cbecs>

.a Climate zone (30-year average) definitions: Zone 1 = Under 2,000 CDD and more than 7,000 HDD; Zone 2 = Under 2,000 CDD and 5,500-7,000 HDD; Zone 3 = Under 2,000 CDD and 4,000-5,499 HDD; Zone 4 = Under 2,000 CDD and fewer than 4,000 HDD; Zone 5 = 2,000 CDD or more and fewer than 4,000 HDD. (See "Glossary" for definitions of CDD and HDD.)

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.

N=No responding cases in sample that use electricity.

Notes: • 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. • Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.