

**Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003**

	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> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Building Floorspace (Square Feet)</b>												
1,001 to 5,000 .....	13	30	50	19	997	1,729	2,324	1,295	13.4	17.5	21.7	14.6
5,001 to 10,000 .....	10	15	33	19	1,083	1,447	2,454	1,214	9.0	10.7	13.4	15.3
10,001 to 25,000 .....	19	29	49	22	1,944	3,098	4,266	2,063	9.6	9.3	11.6	10.9
25,001 to 50,000 .....	12	31	41	19	1,292	2,483	3,012	1,599	9.0	12.6	13.7	11.7
50,001 to 100,000 .....	22	29	50	17	2,040	2,260	3,435	1,296	11.0	12.9	14.6	13.1
100,001 to 200,000 .....	25	33	66	18	2,117	2,285	3,439	1,177	11.6	14.6	19.1	15.0
200,001 to 500,000 .....	24	28	38	16	1,781	2,196	1,909	1,166	13.3	12.7	20.1	13.7
Over 500,000 .....	23	20	46	23	1,556	1,203	1,928	1,221	15.0	16.4	24.0	18.8
<b>Principal Building Activity</b>												
Education .....	13	20	58	17	1,683	2,539	3,983	1,667	7.8	8.1	14.6	10.2
Food Sales .....	Q	16	24	Q	Q	305	484	Q	Q	52.5	50.5	Q
Food Service .....	Q	14	37	8	Q	453	764	265	Q	29.9	48.3	31.9
Health Care .....	10	18	31	12	535	798	1,277	553	19.4	23.2	24.5	22.5
Inpatient .....	8	12	26	7	358	438	838	270	23.2	26.4	30.5	25.3
Outpatient .....	Q	7	6	6	Q	359	438	283	Q	19.2	13.0	19.8
Lodging .....	9	15	29	16	1,171	1,144	1,694	1,087	Q	13.0	17.2	14.7
Retail (Other Than Mall).....	6	12	29	14	630	880	1,844	963	8.8	14.2	16.0	14.8
Office .....	50	53	71	36	3,012	2,989	3,782	2,425	16.5	17.9	18.8	15.0
Public Assembly .....	6	11	21	11	1,048	1,012	1,174	701	Q	10.7	17.8	16.0
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship .....	2	5	10	2	627	1,115	1,498	515	2.8	4.1	6.7	3.6
Service .....	5	14	18	7	731	1,259	1,335	657	6.9	10.8	13.2	11.4
Warehouse and Storage .....	9	27	25	11	1,467	2,849	3,623	1,486	5.9	9.6	6.9	7.3
Other .....	15	5	Q	Q	649	306	Q	Q	23.3	16.7	Q	Q
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Year Constructed</b>												
Before 1920 .....	11	8	Q	Q	1,388	1,535	512	Q	7.7	5.4	10.6	Q
1920 to 1945 .....	17	23	12	8	2,472	1,954	1,249	920	7.0	11.8	9.5	9.2
1946 to 1959 .....	17	17	22	12	2,083	2,005	1,744	1,005	8.0	8.3	12.8	11.9
1960 to 1969 .....	22	23	34	18	1,737	2,224	2,504	1,592	12.6	10.1	13.6	11.0
1970 to 1979 .....	26	47	64	31	1,723	3,237	3,514	2,080	15.0	14.5	18.1	15.1
1980 to 1989 .....	25	35	88	36	1,374	1,915	4,636	2,229	17.9	18.2	19.1	16.1
1990 to 1999 .....	19	45	104	34	1,355	2,638	6,106	1,979	14.2	16.9	17.0	17.3
2000 to 2003 .....	11	19	45	11	675	1,193	2,501	930	16.7	15.7	18.0	11.5
<b>Climate Zone: 30-Year Average</b>												
Under 2,000 CDD and --												
More than 7,000 HDD .....	23	62	N	34	2,365	5,488	N	2,541	9.8	11.4	N	13.3
5,500-7,000 HDD .....	59	134	N	31	5,366	9,655	N	2,055	11.0	13.9	N	15.0
4,000-5,499 HDD .....	65	19	72	Q	5,077	1,558	4,047	693	12.8	12.4	17.8	14.0
Fewer than 4,000 HDD .....	N	N	156	63	N	N	9,985	5,187	N	N	15.7	12.1
2,000 CDD or More and --												
Fewer than 4,000 HDD .....	N	N	146	15	N	N	8,734	555	N	N	16.7	27.1
<b>Number of Floors</b>												
One .....	39	80	155	60	3,086	5,873	11,127	4,849	12.5	13.6	14.0	12.4
Two .....	27	56	78	40	3,015	5,130	4,874	2,959	8.9	11.0	16.1	13.6
Three .....	15	29	28	11	2,065	2,504	1,916	896	7.3	11.6	14.8	12.8
Four to Nine .....	40	39	74	21	3,003	2,640	3,094	1,328	13.5	14.8	23.8	15.9
Ten or More .....	26	11	39	19	1,640	555	1,754	999	16.1	20.5	22.2	19.2

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**Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003**

	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> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Elevators and Escalators (more than one may apply)</b>												
Any Elevators .....	86	99	168	63	6,119	6,594	7,941	3,841	14.1	15.0	21.2	16.5
Number of Elevators												
One .....	18	37	36	13	1,567	3,009	2,467	1,064	11.3	12.3	14.8	11.8
Two to Five .....	38	41	70	23	2,971	2,695	3,094	1,360	12.8	15.2	22.6	16.6
Six or More .....	31	21	62	28	1,581	889	2,380	1,418	19.3	23.2	25.9	19.8
Any Escalators .....	Q	Q	29	Q	Q	Q	1,002	Q	Q	Q	28.9	Q
<b>Number of Workers (main shift)</b>												
Fewer than 5 .....	12	37	42	19	2,279	4,579	4,966	2,236	5.1	8.0	8.5	8.3
5 to 9 .....	9	19	33	12	1,085	1,463	2,576	1,023	8.2	13.1	12.6	11.9
10 to 19 .....	14	23	39	14	1,872	2,081	2,741	1,109	7.2	10.8	14.3	12.2
20 to 49 .....	21	37	68	27	2,314	2,856	3,883	1,909	9.1	13.1	17.6	13.9
50 to 99 .....	22	33	46	19	1,598	2,311	2,654	1,370	13.5	14.1	17.2	13.6
100 to 249 .....	23	29	59	24	1,331	1,609	2,534	1,397	17.0	18.1	23.3	17.1
250 or More .....	48	38	88	39	2,329	1,800	3,413	1,986	20.7	21.3	25.7	19.6
<b>Weekly Operating Hours</b>												
Fewer than 40 .....	3	7	12	5	863	2,046	2,099	892	3.0	3.5	5.7	5.1
40 to 48 .....	13	31	51	21	2,103	2,742	4,565	2,161	6.3	11.3	11.2	9.7
49 to 60 .....	27	52	67	29	3,098	4,595	5,553	2,455	8.8	11.4	12.0	11.8
61 to 84 .....	21	32	67	24	2,048	2,575	3,746	1,944	10.4	12.6	18.0	12.6
85 to 167 .....	24	42	66	21	1,317	2,008	2,370	1,246	18.3	20.9	27.8	17.2
Open Continuously .....	59	51	111	52	3,379	2,735	4,434	2,332	17.4	18.7	25.1	22.3
<b>Ownership and Occupancy</b>												
Nongovernment Owned .....	124	158	273	119	10,292	12,107	17,152	8,460	12.0	13.1	15.9	14.1
Owner Occupied .....	66	80	122	50	5,904	6,131	7,803	3,617	11.2	13.1	15.7	13.8
Nonowner Occupied .....	57	77	150	69	4,140	5,366	9,021	4,732	13.8	14.3	16.7	14.6
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	24	58	101	33	2,517	4,594	5,614	2,570	9.5	12.5	18.1	12.8
Federal .....	Q	Q	Q	3	Q	Q	516	Q	Q	20.7	27.3	8.9
State .....	6	11	33	10	599	764	1,697	727	10.8	14.2	19.3	13.4
Local .....	15	28	55	20	1,706	2,909	3,401	1,541	8.7	9.5	16.1	13.2
<b>Vacancy Status</b>												
Completely Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	40	41	61	27	3,095	3,105	3,919	2,079	12.8	13.1	15.5	13.2
Not At All Vacant .....	107	173	313	124	9,228	12,766	18,499	8,769	11.5	13.6	16.9	14.1
<b>Number of Establishments</b>												
One .....	92	162	265	108	7,996	12,134	16,569	7,679	11.4	13.4	16.0	14.1
2 to 5 .....	28	36	59	24	2,517	2,803	3,716	1,886	11.2	12.9	15.9	12.8
6 to 10 .....	8	7	13	5	571	510	550	327	13.9	14.1	24.3	16.1
11 to 20 .....	Q	Q	12	Q	Q	Q	589	Q	Q	Q	19.7	Q
More than 20 .....	13	Q	25	9	696	Q	1,011	688	18.0	Q	24.8	13.4
Currently Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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**Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003**

	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> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Predominant Exterior Wall Material</b>												
Brick, Stone or Stucco .....	75	120	187	59	7,198	9,111	11,364	4,621	10.5	13.2	16.5	12.8
Concrete (Block or Poured) .....	26	36	67	26	2,173	2,877	3,922	1,765	12.0	12.5	17.0	15.0
Concrete Panels .....	12	21	58	26	599	1,230	2,656	1,899	19.7	17.3	21.9	13.6
Siding or Shingles .....	8	10	14	12	1,179	1,063	1,035	698	6.5	9.6	13.3	17.6
Metal Panels .....	17	17	35	18	1,032	1,768	3,088	1,489	16.5	9.5	11.3	12.4
Window Glass .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
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>												
Built-Up .....	46	71	128	60	4,025	5,149	7,227	4,380	11.5	13.9	17.7	13.7
Shingles (Not Wood) .....	23	32	46	20	1,995	3,119	3,272	1,486	11.7	10.1	14.1	13.6
Metal Surfacing .....	9	26	59	21	1,001	2,484	5,888	1,860	9.4	10.3	10.0	11.3
Synthetic or Rubber .....	61	65	103	32	4,116	4,440	4,282	1,873	14.7	14.7	24.1	17.0
Slate or Tile .....	4	3	16	8	480	302	1,036	620	8.0	9.8	15.0	12.9
Wooden Materials .....	Q	Q	Q	Q	Q	Q	Q	244	Q	Q	Q	10.9
Concrete .....	Q	Q	8	Q	Q	Q	426	Q	Q	Q	19.8	Q
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>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>												
Any Type of Renovation												
Since 1980 .....	58	63	68	39	5,090	5,361	4,346	2,841	11.5	11.8	15.7	13.6
Addition or Annex .....	18	29	30	16	1,797	1,970	1,804	979	9.8	14.6	16.9	16.0
Reduction In Floorspace .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements .....	48	50	48	31	3,938	3,879	3,002	2,183	12.2	12.8	15.9	14.0
Wall or Roof Replacement .....	28	27	30	17	2,676	2,236	1,850	1,294	10.3	12.0	16.3	13.2
Interior Wall												
Re-Configuration .....	27	36	31	24	2,475	2,586	1,934	1,507	10.9	13.9	16.1	15.8
HVAC Equipment Upgrade .....	40	42	44	28	3,027	3,332	2,582	1,825	13.2	12.7	17.2	15.3
Lighting Upgrade .....	42	38	33	28	3,350	3,059	2,089	1,775	12.4	12.4	15.8	15.6
Window Replacement .....	27	21	14	12	2,750	1,772	913	842	9.7	11.8	15.3	14.3
Plumbing System Upgrade .....	26	23	22	21	2,511	1,898	1,364	1,369	10.4	12.2	16.1	15.1
Insulation Upgrade .....	15	14	14	7	1,370	1,212	855	576	11.3	11.8	16.1	13.0
Other Renovation .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980 .....	34	54	69	33	4,314	5,594	5,179	3,051	7.9	9.7	13.3	10.7
Building Newer than 1980 .....	55	98	237	81	3,405	5,747	13,242	5,138	16.2	17.1	17.9	15.7
<b>Energy Sources (more than one may apply)</b>												
Electricity .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
Natural Gas .....	114	171	240	107	9,181	13,162	13,306	7,813	12.5	13.0	18.0	13.7
Fuel Oil .....	70	50	86	43	6,080	2,817	4,122	2,123	11.6	17.9	20.9	20.4
District Heat .....	22	28	38	10	1,363	1,648	1,766	667	16.4	17.2	21.3	14.8
District Chilled Water .....	11	13	23	10	620	596	1,150	487	17.1	21.7	20.2	19.6
Propane .....	12	30	33	24	1,354	2,179	2,360	1,173	9.0	13.9	14.0	20.1
Other .....	Q	7	Q	Q	Q	487	303	367	Q	13.6	26.1	16.3

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	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> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Space-Heating Energy Sources</b>												
Electricity .....	66	89	228	73	4,405	6,223	13,058	4,914	15.0	14.3	17.5	14.9
Electricity Main .....	21	46	153	45	1,253	2,545	9,084	3,114	17.0	18.1	16.9	14.5
Electricity Secondary .....	45	43	75	28	3,152	3,677	3,975	1,800	14.2	11.6	18.8	15.5
Other Excluding Electricity .....	80	125	133	68	8,191	10,080	7,932	5,188	9.8	12.4	16.8	13.1
Buildings without Heating .....	Q	Q	13	11	Q	398	1,776	928	Q	4.3	7.6	12.1
<b>Primary Space-Heating Energy Source</b>												
Electricity .....	21	46	153	45	1,253	2,545	9,084	3,114	17.0	18.1	16.9	14.5
Natural Gas .....	85	133	162	79	6,439	11,320	9,294	5,911	13.2	11.7	17.4	13.4
Fuel Oil .....	17	Q	Q	Q	3,250	Q	Q	Q	5.2	Q	Q	Q
District Heat .....	20	28	35	8	1,205	1,531	1,614	557	16.8	18.0	21.7	14.4
Propane .....	Q	Q	6	Q	Q	560	674	332	Q	9.4	9.1	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling Energy Sources</b>												
Electricity .....	130	190	354	140	10,402	13,781	20,623	9,515	12.5	13.8	17.2	14.7
Other Excluding Electricity .....	11	Q	17	Q	552	Q	930	Q	19.6	Q	18.8	Q
Buildings without Cooling .....	7	Q	3	6	1,855	2,232	1,214	1,080	3.6	6.4	2.6	5.8
<b>Water-Heating Energy Sources</b>												
Electricity .....	57	86	200	59	5,125	6,477	11,882	4,007	11.2	13.3	16.8	14.7
Other Excluding Electricity .....	86	114	159	87	6,664	8,436	8,031	5,841	12.9	13.5	19.7	14.9
Bldgs without Water Heating .....	4	Q	16	6	1,020	1,788	2,853	1,182	4.0	9.0	5.6	5.3
<b>Cooking Energy Sources</b>												
Electricity .....	39	60	112	38	2,495	3,784	4,900	1,982	15.5	15.9	22.9	19.1
Other Excluding Electricity .....	31	32	67	26	2,521	2,066	2,982	1,507	Q	15.5	22.3	17.1
Buildings without Cooking .....	78	124	196	89	7,793	10,851	14,885	7,541	10.0	11.4	13.2	11.8
<b>Energy End Uses (more than one may apply)</b>												
Buildings with Space Heating .....	147	214	361	141	12,596	16,303	20,990	10,102	11.6	13.1	17.2	14.0
Buildings with Cooling .....	141	202	371	146	10,954	14,469	21,553	9,950	12.9	13.9	17.2	14.7
Buildings with Water Heating .....	143	200	359	146	11,789	14,913	19,913	9,848	12.2	13.4	18.0	14.8
Buildings with Cooking .....	69	92	179	64	5,016	5,850	7,881	3,489	13.8	15.7	22.7	18.2
Buildings with Manufacturing .....	13	10	8	10	1,013	798	642	685	13.1	13.2	11.8	14.6
Buildings with Electricity Generation .....	60	66	91	44	3,245	3,317	4,017	2,241	18.5	20.0	22.5	19.6
<b>Percent of Floorspace Heated</b>												
Not Heated .....	Q	Q	13	11	Q	398	1,776	928	Q	4.3	7.6	12.1
1 to 50 .....	6	9	26	13	1,387	1,115	2,836	1,491	4.2	8.3	9.3	8.9
51 to 99 .....	15	21	51	29	1,539	1,727	2,891	1,950	9.8	12.4	17.5	14.8
100 .....	126	183	284	99	9,671	13,461	15,263	6,661	13.0	13.6	18.6	14.8
<b>Percent of Floorspace Cooled</b>												
Not Cooled .....	7	Q	3	6	1,855	2,232	1,214	1,080	3.6	6.4	2.6	5.8
1 to 50 .....	28	37	39	25	4,270	4,742	4,915	2,656	6.6	7.9	8.0	9.6
51 to 99 .....	49	58	73	38	3,101	3,761	3,903	2,446	15.8	15.4	18.8	15.7
100 .....	64	106	259	82	3,582	5,966	12,735	4,849	17.8	17.8	20.3	16.9

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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> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Percent Lit When Open</b>												
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	11	17	26	12	2,750	2,753	3,189	1,512	4.1	6.3	8.0	7.7
51 to 99 .....	49	65	102	45	3,599	5,299	6,134	3,256	13.7	12.3	16.7	13.9
100 .....	86	132	245	94	6,051	7,781	12,874	6,083	14.2	16.9	19.0	15.5
Building Never Open/ Electricity Not Used .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Percent Lit When Closed</b>												
Zero .....	20	50	61	29	2,807	5,174	6,292	3,112	7.1	9.6	9.6	9.4
1 to 50 .....	62	103	179	68	6,279	8,293	11,027	5,349	9.9	12.5	16.2	12.7
51 to 100 .....	Q	12	24	Q	Q	499	1,013	Q	Q	23.9	23.6	Q
Building Never Closed/ Electricity Not Used .....	59	51	111	52	3,379	2,735	4,434	2,332	17.4	18.7	25.1	22.3
<b>Heating Equipment (more than one may apply)</b>												
Heat Pumps .....	25	16	85	27	1,213	1,058	4,942	1,600	20.8	15.2	17.2	16.8
Packaged Heat Pumps .....	17	12	57	19	744	738	2,928	1,031	22.8	16.0	19.6	18.5
Split-System Heat Pumps .....	Q	Q	28	6	Q	Q	1,862	368	Q	Q	15.3	17.2
Individual Room Heat Pumps .....	Q	Q	19	7	Q	Q	1,250	538	Q	Q	15.5	12.1
Furnaces .....	33	82	71	37	3,596	7,219	5,715	3,075	9.2	11.3	12.5	11.9
Individual Space Heaters .....	35	50	56	24	2,786	4,169	3,603	1,981	12.7	11.9	15.6	11.9
District Heat .....	20	28	36	9	1,245	1,623	1,683	615	16.5	17.0	21.4	14.3
Boilers .....	71	74	94	56	6,228	6,141	4,393	3,662	11.4	12.1	21.5	15.3
Packaged Heating Units .....	50	62	151	48	2,912	3,666	8,130	3,312	17.3	16.8	18.5	14.4
Other .....	Q	14	21	8	Q	803	1,379	481	Q	17.1	15.0	15.6
<b>Cooling Equipment (more than one may apply)</b>												
Residential-Type Central Air Conditioners .....	22	45	52	15	2,391	3,609	3,854	1,181	9.1	12.5	13.4	12.7
Heat Pumps .....	26	16	89	31	1,270	1,063	4,923	1,785	20.1	14.8	18.0	17.1
Packaged Heat Pumps .....	17	12	57	19	788	760	2,849	1,030	21.7	15.7	20.1	18.5
Split-System Heat Pumps .....	Q	Q	29	7	Q	Q	1,868	404	Q	Q	15.7	17.1
Individual Room Heat Pumps .....	Q	Q	22	11	Q	Q	1,290	734	Q	Q	17.1	14.5
Individual Air Conditioners .....	31	35	51	23	3,687	3,488	3,635	1,749	8.3	10.1	14.1	13.2
District Chilled Water .....	11	13	23	10	620	596	1,150	487	17.1	21.7	20.2	19.6
Central Chillers .....	37	52	115	40	1,852	2,842	4,854	2,088	20.2	18.4	23.7	19.3
Packaged Air Conditioning Units .....	83	121	176	82	6,000	8,086	10,401	5,482	13.8	15.0	16.9	15.0
Swamp Coolers .....	Q	Q	Q	19	Q	Q	Q	1,342	Q	11.1	Q	13.8
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 .....	42	61	68	38	3,974	5,025	4,807	2,588	10.6	12.2	14.2	14.8
Cooling .....	66	74	98	48	5,453	5,752	6,415	3,374	12.1	12.9	15.3	14.1
<b>Water Heating Equipment</b>												
Centralized System .....	94	133	209	80	7,770	9,709	11,537	5,640	12.1	13.7	18.1	14.2
Distributed System .....	23	29	66	24	2,325	2,670	4,564	1,981	9.7	10.8	14.5	12.0
Combination of Centralized and Distributed System .....	27	38	83	42	1,695	2,534	3,812	2,227	15.9	15.2	21.8	18.9

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**Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003**

	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> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Lighting Equipment Types (more than one may apply)</b>												
Incandescent .....	96	146	248	98	8,102	10,973	13,045	6,408	11.9	13.3	19.0	15.3
Standard Fluorescent .....	144	211	363	148	12,159	15,708	21,222	10,599	11.8	13.4	17.1	14.0
Compact Fluorescent .....	89	109	199	90	6,091	6,828	8,881	5,772	14.7	15.9	22.4	15.7
High Intensity Discharge .....	64	91	124	50	4,379	6,620	6,229	3,416	14.7	13.8	19.9	14.7
Halogen .....	56	74	130	52	3,581	4,661	6,193	3,268	15.7	15.9	21.1	16.1
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>												
Any Refrigeration.....	137	192	348	135	10,842	14,082	19,103	8,947	12.6	13.6	18.2	15.1
Commercial Refrigeration .....	89	118	237	79	5,936	7,122	9,638	4,072	15.1	16.6	24.6	19.5
Walk-In Units .....	73	93	204	66	4,452	5,201	7,469	3,132	16.5	17.9	27.4	21.0
Cases or Cabinets .....	75	89	191	67	4,504	4,978	7,664	3,277	16.8	17.8	24.9	20.6
Residential-Type Units .....	88	133	210	87	8,288	10,792	13,162	6,642	10.6	12.4	16.0	13.1
Vending Machines .....	96	134	256	94	6,559	9,400	13,534	5,841	14.7	14.3	19.0	16.1
No Refrigeration .....	11	24	26	17	1,967	2,619	3,663	2,083	5.5	9.1	7.1	8.3
<b>Office Equipment (more than one may apply)</b>												
Computers .....	141	199	347	145	11,518	14,415	19,715	9,980	12.2	13.8	17.6	14.5
With Flat Screen Monitors .....	93	102	191	80	5,995	6,346	9,135	4,940	15.5	16.1	20.9	16.3
Dedicated Servers .....	113	142	241	100	8,143	9,252	12,649	6,294	13.9	15.3	19.1	16.0
Laser Printers .....	76	104	188	86	7,095	8,463	11,566	5,888	10.7	12.3	16.3	14.6
Inkjet Printers .....	95	124	225	89	6,415	8,305	11,480	6,009	14.9	14.9	19.6	14.9
FAX Machines .....	138	183	335	136	11,173	13,295	18,782	9,123	12.3	13.8	17.8	14.9
Photocopiers .....	126	160	285	121	9,893	11,859	16,312	8,193	12.7	13.5	17.5	14.8
<b>Number of Computers</b>												
None .....	7	17	28	8	1,291	2,286	3,052	1,051	5.2	7.2	9.0	7.2
1 to 4 .....	17	44	70	22	2,081	3,743	4,419	2,151	7.9	11.7	15.9	10.4
5 to 9 .....	10	23	30	17	1,604	1,938	2,538	1,099	6.3	12.0	11.7	15.5
10 to 19 .....	14	23	31	16	1,321	1,690	2,403	1,196	10.2	13.5	13.0	13.3
20 to 49 .....	20	24	50	25	1,504	1,932	2,425	1,554	13.5	12.6	20.4	16.4
50 to 99 .....	10	16	36	14	1,157	1,049	2,102	1,068	Q	15.2	17.2	12.9
100 to 249 .....	19	26	44	19	1,260	1,851	2,262	1,317	14.8	14.0	19.3	14.8
250 or More .....	52	43	86	31	2,590	2,213	3,565	1,595	19.9	19.5	24.2	19.1
<b>Number of Dedicated Servers</b>												
None .....	35	74	133	52	4,666	7,449	10,117	4,736	7.4	9.9	13.2	10.9
1 to 4 .....	57	89	136	59	5,247	6,567	8,208	4,093	10.9	13.6	16.6	14.4
5 to 9 .....	15	16	31	12	914	966	1,313	671	16.1	16.5	23.6	17.6
10 to 19 .....	11	15	29	9	578	773	1,126	552	19.0	19.2	25.8	15.5
20 to 49 .....	Q	9	29	7	Q	334	1,265	491	Q	27.4	23.2	15.2
50 or More .....	22	13	16	Q	912	Q	737	Q	24.5	21.0	21.0	Q
<b>Number of Photocopiers</b>												
None .....	22	56	90	31	2,915	4,843	6,454	2,838	7.4	11.5	13.9	11.0
One .....	28	45	68	32	3,027	4,235	5,460	2,753	9.2	10.6	12.5	11.8
2 to 4 .....	29	52	92	35	2,944	4,026	5,518	2,594	9.8	12.8	16.6	13.5
5 to 9 .....	22	21	38	14	1,518	1,401	1,782	814	14.7	14.7	21.1	17.5
10 or More .....	47	43	87	39	2,404	2,196	3,553	2,032	19.4	19.6	24.6	19.3

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**Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003**

	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> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Energy-Related Space Functions (more than one may apply)</b>												
Commercial Food Preparation .....	69	92	179	63	5,016	5,850	7,880	3,478	13.8	15.7	22.7	18.2
Activities with Large Amounts of Hot Water .....	55	80	146	61	3,922	5,225	6,903	3,432	13.9	15.3	21.2	17.8
Separate Computer Area .....	93	99	183	79	5,925	6,482	9,397	5,070	15.6	15.3	19.5	15.6
<b>HVAC Conservation Features (more than one may apply)</b>												
Variable Air-Volume System .....	67	86	158	60	3,780	5,001	7,348	3,468	17.8	17.3	21.5	17.2
Economizer Cycle .....	82	106	153	73	4,141	5,884	6,632	4,452	19.7	18.0	23.0	16.3
HVAC Maintenance .....	137	188	330	137	11,047	13,116	17,641	9,347	12.4	14.3	18.7	14.7
Energy Management and Control System (EMCS) .....	53	57	120	50	3,002	3,799	5,802	3,027	17.7	15.1	20.6	16.4
<b>Window and Interior Lighting Features (more than one may apply)</b>												
Multipaned Windows .....	112	169	227	85	9,276	11,649	12,273	5,529	12.1	14.5	18.5	15.4
Tinted Window Glass .....	78	112	218	85	4,944	7,233	11,832	5,616	15.7	15.5	18.4	15.1
Reflective Window Glass .....	27	37	66	23	1,661	2,165	3,008	1,694	16.5	16.9	22.1	13.3
External Overhangs or Awnings .....	36	65	126	55	2,672	4,205	6,749	3,545	13.4	15.6	18.6	15.4
Skylights or Atriums .....	34	46	71	38	2,892	3,250	3,914	2,453	11.9	14.2	18.0	15.4
Daylighting Sensors .....	6	15	14	25	428	815	674	951	15.1	17.8	21.4	26.3
Specular Reflectors .....	84	116	163	72	5,834	7,709	7,871	4,703	14.4	15.0	20.8	15.4
Electronic Ballasts .....	122	180	301	129	9,288	12,610	16,459	8,525	13.1	14.3	18.3	15.2
Energy Management and Control System (EMCS) For Lighting .....	18	22	30	21	849	1,292	1,471	1,169	21.3	17.1	20.6	17.7
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>												
Heating .....	104	126	231	106	9,519	10,893	14,655	7,639	10.9	11.5	15.7	13.9
Cooling .....	103	128	253	111	8,812	10,454	16,094	7,829	11.7	12.2	15.7	14.2
Lighting .....	81	160	249	98	8,706	12,884	17,115	8,282	9.3	12.4	14.6	11.8
Office Equipment .....	34	58	82	36	4,269	5,412	6,426	3,291	8.1	10.7	12.8	11.0
<b>Annual Consumption (kilowatthours)</b>												
10,000 or Less .....	1	1	1	1	752	929	729	451	1.1	1.1	1.7	1.8
10,001 to 50,000 .....	6	12	17	9	1,800	2,277	3,386	1,765	3.6	5.5	5.0	5.1
50,001 to 100,000 .....	9	11	21	10	1,547	1,466	2,448	1,000	6.0	7.7	8.7	9.7
100,001 to 500,000 .....	26	59	83	41	2,910	4,795	5,402	3,004	8.8	12.4	15.4	13.7
500,001 to 1,000,000 .....	13	21	48	14	1,285	1,794	2,772	886	10.5	11.7	17.5	15.9
1,000,001 to 5,000,000 .....	46	69	111	44	2,570	3,512	4,691	2,435	17.7	19.5	23.7	18.0
Over 5,000,000 .....	46	42	92	34	1,944	1,929	3,338	1,489	23.8	21.9	27.6	22.7

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**Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003**

	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> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Provider of Purchased Electricity (more than one may apply)</b>												
Local Utility .....	120	198	331	142	11,159	15,631	20,579	10,484	10.8	12.7	16.1	13.6
Some Other Provider .....	31	16	36	Q	1,741	1,047	1,790	Q	17.9	15.6	20.3	Q

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>.

\* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

<sup>a</sup> The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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. • HVAC = Heating, Ventilation, and Air Conditioning. • 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.