

**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Building Floorspace (Square Feet)</b>							
1,001 to 5,000 .....	2,384	6,346	2.7	1,164	386	113	10,348
5,001 to 10,000 .....	834	6,197	7.4	790	262	77	7,296
10,001 to 25,000 .....	727	11,370	15.6	1,229	407	119	10,001
25,001 to 50,000 .....	234	8,385	35.8	1,058	350	103	7,871
50,001 to 100,000 .....	128	9,031	70.5	1,223	405	119	8,717
100,001 to 200,000 .....	65	9,018	139.0	1,458	483	141	9,500
200,001 to 500,000 .....	24	7,051	289.8	1,090	361	106	7,323
Over 500,000 .....	7	5,908	896.1	1,157	383	112	7,977
<b>Principal Building Activity</b>							
Education .....	384	9,871	25.7	1,121	371	109	8,111
Food Sales .....	221	1,237	5.6	629	208	61	4,627
Food Service .....	297	1,654	5.6	654	217	63	5,176
Health Care .....	129	3,163	24.6	748	248	73	4,882
Inpatient .....	8	1,905	241.4	539	178	52	3,198
Outpatient .....	121	1,258	10.4	209	69	20	1,684
Lodging .....	142	5,096	35.8	709	235	69	5,288
Retail (Other Than Mall).....	443	4,317	9.7	637	211	62	5,132
Office .....	824	12,208	14.8	2,170	719	211	17,050
Public Assembly .....	274	3,935	14.4	506	167	49	3,943
Public Order and Safety .....	71	1,090	15.5	172	57	17	1,216
Religious Worship .....	370	3,754	10.1	188	62	18	1,628
Service .....	601	3,982	6.6	451	149	44	3,485
Warehouse and Storage .....	464	9,425	20.3	738	244	72	5,034
Other .....	76	1,729	22.7	401	133	39	3,049
Vacant .....	106	1,846	17.3	46	15	4	412
<b>Year Constructed</b>							
Before 1920 .....	318	3,730	11.7	271	90	26	2,319
1920 to 1945 .....	499	6,595	13.2	626	208	61	5,123
1946 to 1959 .....	541	6,838	12.6	696	231	68	5,729
1960 to 1969 .....	571	8,057	14.1	989	327	96	7,714
1970 to 1979 .....	700	10,555	15.1	1,726	572	168	12,637
1980 to 1989 .....	668	10,154	15.2	1,892	627	184	13,902
1990 to 1999 .....	809	12,078	14.9	2,082	690	202	15,236
2000 to 2003 .....	298	5,299	17.8	884	293	86	6,373
<b>Census Region and Division</b>							
Northeast .....	710	12,809	18.0	1,519	503	147	14,262
New England .....	228	2,942	12.9	326	108	32	3,125
Middle Atlantic .....	482	9,867	20.5	1,192	395	116	11,137
Midwest .....	1,189	16,701	14.0	2,224	737	216	14,172
East North Central .....	659	11,373	17.3	1,580	524	153	10,220
West North Central .....	531	5,328	10.0	643	213	62	3,952
South .....	1,654	22,766	13.8	3,858	1,278	375	25,540
South Atlantic .....	835	12,097	14.5	2,166	717	210	14,155
East South Central .....	312	3,220	10.3	515	171	50	3,348
West South Central .....	507	7,449	14.7	1,177	390	114	8,037
West .....	851	11,030	13.0	1,568	519	152	15,057
Mountain .....	285	3,633	12.7	576	191	56	4,272
Pacific .....	565	7,397	13.1	992	329	96	10,786

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Climate Zone: 30-Year Average</b>							
Under 2,000 CDD and --							
More than 7,000 HDD .....	809	10,393	12.8	1,232	408	120	9,135
5,500-7,000 HDD .....	1,129	17,076	15.1	2,305	763	224	16,298
4,000-5,499 HDD .....	642	11,375	17.7	1,713	567	166	13,354
Fewer than 4,000 HDD .....	1,193	15,172	12.7	2,259	748	219	18,211
2,000 CDD or More and --							
Fewer than 4,000 HDD .....	631	9,290	14.7	1,659	549	161	12,034
<b>Number of Floors</b>							
One .....	2,919	24,935	8.5	3,442	1,140	334	26,809
Two .....	1,011	15,978	15.8	2,080	689	202	16,066
Three .....	333	7,381	22.1	863	286	84	6,389
Four to Nine .....	128	10,065	78.7	1,796	595	174	12,517
Ten or More .....	12	4,947	420.0	987	327	96	7,251
<b>Elevators and Escalators (more than one may apply)</b>							
Any Elevators .....	305	24,495	80.3	4,289	1,421	416	30,227
Number of Elevators							
One .....	205	8,107	39.6	1,069	354	104	7,712
Two to Five .....	88	10,120	115.3	1,767	585	172	12,340
Six or More .....	13	6,268	491.5	1,453	481	141	10,175
Any Escalators .....	6	2,350	388.7	583	193	57	4,096
<b>Number of Workers (main shift)</b>							
Fewer than 5 .....	2,415	14,061	5.8	1,122	372	109	9,503
5 to 9 .....	775	6,147	7.9	749	248	73	6,390
10 to 19 .....	563	7,803	13.9	915	303	89	7,647
20 to 49 .....	397	10,962	27.6	1,581	524	154	11,966
50 to 99 .....	147	7,934	53.8	1,218	403	118	8,532
100 to 249 .....	77	6,871	89.7	1,388	460	135	9,768
250 or More .....	30	9,528	320.4	2,195	727	213	15,224
<b>Weekly Operating Hours</b>							
Fewer than 40 .....	866	5,900	6.8	272	90	26	2,489
40 to 48 .....	1,105	11,571	10.5	1,199	397	116	9,577
49 to 60 .....	1,055	15,702	14.9	1,805	598	175	14,232
61 to 84 .....	580	10,312	17.8	1,500	497	146	11,559
85 to 167 .....	376	6,941	18.5	1,579	523	153	11,188
Open Continuously .....	422	12,881	30.5	2,813	932	273	19,987
<b>Ownership and Occupancy</b>							
Nongovernment Owned .....	3,783	48,012	12.7	6,944	2,300	674	54,122
Owner Occupied .....	1,817	23,454	12.9	3,280	1,086	318	25,441
Nonowner Occupied .....	1,885	23,258	12.3	3,639	1,205	353	28,446
Unoccupied .....	81	1,299	16.0	25	8	2	Q
Government Owned .....	620	15,295	24.7	2,224	737	216	14,910
Federal .....	46	1,951	42.8	395	131	38	2,159
State .....	163	3,786	23.2	616	204	60	3,973
Local .....	411	9,558	23.2	1,213	402	118	8,777

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Vacancy Status</b>							
Completely Vacant .....	85	1,489	17.5	28	9	3	258
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	499	12,199	24.4	1,736	575	169	13,209
Not At All Vacant .....	3,798	49,262	13.0	7,386	2,446	717	55,411
<b>Number of Establishments</b>							
One .....	3,591	44,379	12.4	6,454	2,138	627	48,376
2 to 5 .....	635	10,921	17.2	1,517	502	147	11,440
6 to 10 .....	55	1,958	35.7	348	115	34	2,632
11 to 20 .....	23	1,951	85.7	295	98	29	2,268
More than 20 .....	14	2,609	181.1	526	174	51	4,057
Currently Unoccupied .....	85	1,489	17.5	28	9	3	258
<b>Predominant Exterior Wall Material</b>							
Brick, Stone or Stucco .....	1,991	32,295	16.2	4,549	1,507	442	34,133
Concrete (Block or Poured) .....	756	10,738	14.2	1,599	530	155	12,417
Concrete Panels .....	122	6,383	52.2	1,205	399	117	8,417
Siding or Shingles .....	742	3,975	5.4	452	150	44	4,007
Metal Panels .....	714	7,377	10.3	897	297	87	6,726
Window Glass .....	17	1,024	60.1	201	67	20	1,462
Other .....	44	1,108	25.4	190	63	18	1,416
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>							
Built-Up .....	1,008	20,781	20.6	3,143	1,041	305	24,170
Shingles (Not Wood) .....	1,283	9,871	7.7	1,247	413	121	10,264
Metal Surfacing .....	1,134	11,234	9.9	1,184	392	115	8,837
Synthetic or Rubber .....	504	14,711	29.2	2,686	890	261	18,633
Slate or Tile .....	257	2,438	9.5	313	104	30	2,816
Wooden Materials .....	119	881	7.4	111	37	11	869
Concrete .....	61	2,231	36.7	299	99	29	2,029
Other .....	13	595	44.4	125	41	12	845
No One Major Type .....	25	565	22.7	61	20	6	568
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>							
Any Type of Renovation							
Since 1980 .....	1,006	17,638	17.5	2,356	780	229	17,830
Addition or Annex .....	256	6,551	25.6	951	315	92	6,501
Reduction In Floorspace .....	22	1,012	46.1	158	52	15	1,180
Cosmetic Improvements .....	735	13,002	17.7	1,812	600	176	13,845
Wall or Roof Replacement .....	365	8,056	22.0	1,046	347	102	8,129
Interior Wall							
Re-Configuration .....	407	8,502	20.9	1,212	401	118	9,035
HVAC Equipment Upgrade .....	440	10,765	24.5	1,591	527	154	11,822
Lighting Upgrade .....	453	10,273	22.7	1,442	478	140	10,741
Window Replacement .....	307	6,277	20.5	757	251	73	6,168
Plumbing System Upgrade .....	313	7,141	22.8	947	314	92	7,360
Insulation Upgrade .....	225	4,012	17.8	526	174	51	4,065
Other Renovation .....	19	523	27.3	49	16	5	517
No Renovations Since 1980 .....	1,622	18,137	11.2	1,953	647	190	15,691
Building Newer than 1980 .....	1,776	27,532	15.5	4,859	1,609	472	35,511

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Energy Sources (more than one may apply)</b>							
Electricity .....	4,404	63,307	14.4	9,168	3,037	890	69,032
Natural Gas .....	2,390	43,461	18.2	6,524	2,161	633	48,584
Fuel Oil .....	448	15,142	33.8	2,578	854	250	18,631
District Heat .....	67	5,443	81.4	1,011	335	98	6,519
District Chilled Water .....	33	2,853	86.7	580	192	56	3,667
Propane .....	499	7,067	14.2	1,022	339	99	7,234
Other .....	126	1,380	11.0	233	77	23	1,539
<b>Space-Heating Energy Sources</b>							
Electricity .....	1,766	28,600	16.2	4,696	1,555	456	34,865
Electricity Main .....	1,258	15,996	12.7	2,739	907	266	20,527
Electricity Secondary .....	507	12,604	24.8	1,957	648	190	14,338
Other Excluding Electricity .....	2,206	31,391	14.2	4,191	1,388	407	31,387
Buildings without Heating .....	432	3,315	7.7	281	93	27	2,779
<b>Primary Space-Heating Energy Source</b>							
Electricity .....	1,258	15,996	12.7	2,739	907	266	20,527
Natural Gas .....	1,998	32,963	16.5	4,724	1,565	459	35,355
Fuel Oil .....	282	3,818	13.5	232	77	23	2,246
District Heat .....	63	4,907	77.4	935	310	91	5,910
Propane .....	305	1,946	6.4	211	70	20	1,909
Other .....	65	361	5.5	47	16	5	306
<b>Cooling Energy Sources</b>							
Electricity .....	3,589	54,321	15.1	8,386	2,778	814	63,402
Other Excluding Electricity .....	34	2,604	76.5	469	156	46	3,153
Buildings without Cooling .....	780	6,381	8.2	312	104	30	2,476
<b>Water-Heating Energy Sources</b>							
Electricity .....	1,910	27,490	14.4	4,146	1,373	402	30,298
Other Excluding Electricity .....	1,560	28,973	18.6	4,586	1,519	445	35,228
Bldgs without Water Heating .....	933	6,844	7.3	436	144	42	3,505
<b>Cooking Energy Sources</b>							
Electricity .....	410	13,161	32.1	2,561	848	249	17,845
Other Excluding Electricity .....	391	9,076	23.2	1,598	529	155	11,932
Buildings without Cooking .....	3,603	41,070	11.4	5,010	1,659	486	39,254
<b>Energy End Uses (more than one may apply)</b>							
Buildings with Space Heating .....	3,971	59,991	15.1	8,887	2,944	863	66,253
Buildings with Cooling .....	3,623	56,925	15.7	8,855	2,933	860	66,555
Buildings with Water Heating .....	3,470	56,463	16.3	8,732	2,892	848	65,526
Buildings with Cooking .....	801	22,237	27.8	4,158	1,377	404	29,777
Buildings with Manufacturing .....	119	3,138	26.5	426	141	41	3,117
Buildings with Electricity Generation .....	149	12,821	85.9	2,687	890	261	18,679

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Percent of Floorspace Heated</b>							
Not Heated .....	432	3,315	7.7	281	93	27	2,779
1 to 50 .....	520	6,829	13.1	565	187	55	4,645
51 to 99 .....	498	8,107	16.3	1,193	395	116	9,096
100 .....	2,953	45,055	15.3	7,129	2,361	692	52,512
<b>Percent of Floorspace Cooled</b>							
Not Cooled .....	780	6,381	8.2	312	104	30	2,476
1 to 50 .....	983	16,583	16.9	1,339	444	130	10,901
51 to 99 .....	629	13,211	21.0	2,252	746	219	16,916
100 .....	2,011	27,132	13.5	5,265	1,744	511	38,738
<b>Percent Lit When Open</b>							
Zero .....	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	929	10,203	11.0	679	225	66	5,942
51 to 99 .....	1,108	18,288	16.5	2,698	894	262	20,893
100 .....	2,176	32,789	15.1	5,740	1,901	557	41,762
Building Never Open/ Electricity Not Used .....	144	1,733	12.1	37	12	4	325
<b>Percent Lit When Closed</b>							
Zero .....	1,964	17,385	8.9	1,639	543	159	13,104
1 to 50 .....	1,882	30,948	16.4	4,248	1,407	412	32,796
51 to 100 .....	136	2,093	15.4	468	155	45	3,144
Building Never Closed/ Electricity Not Used .....	422	12,881	30.5	2,813	932	273	19,987
<b>Heating Equipment (more than one may apply)</b>							
Heat Pumps .....	476	8,814	18.5	1,578	523	153	11,629
Packaged Heat Pumps .....	278	5,442	19.6	1,085	359	105	7,929
Split-System Heat Pumps .....	166	2,581	15.5	410	136	40	2,946
Individual Room Heat Pumps .....	58	2,691	46.5	448	148	43	3,289
Furnaces .....	1,860	19,604	10.5	2,298	761	223	17,887
Individual Space Heaters .....	819	12,540	15.3	1,701	563	165	12,387
District Heat .....	65	5,166	79.7	958	317	93	6,051
Boilers .....	579	20,423	35.3	3,045	1,009	296	22,045
Packaged Heating Units .....	953	18,021	18.9	3,195	1,058	310	24,318
Other .....	198	3,242	16.4	508	168	49	3,451
<b>Cooling Equipment (more than one may apply)</b>							
Residential-Type Central Air Conditioners .....	1,006	11,035	11.0	1,375	455	133	10,746
Heat Pumps .....	492	9,041	18.4	1,652	547	160	12,060
Packaged Heat Pumps .....	288	5,426	18.9	1,086	360	105	7,909
Split-System Heat Pumps .....	174	2,606	15.0	421	139	41	3,005
Individual Room Heat Pumps .....	58	2,940	50.7	518	171	50	3,721
Individual Air Conditioners .....	742	12,558	16.9	1,445	479	140	11,268
District Chilled Water .....	33	2,853	86.7	580	192	56	3,667
Central Chillers .....	111	11,636	105.1	2,524	836	245	17,065
Packaged Air Conditioning Units .....	1,613	29,969	18.6	4,765	1,578	463	36,258
Swamp Coolers .....	122	1,561	12.8	227	75	22	1,808
Other .....	37	1,217	32.5	225	75	22	1,540

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>							
Heating .....	1,193	16,394	13.7	2,161	716	210	16,626
Cooling .....	1,356	20,995	15.5	2,947	976	286	22,737
<b>Water Heating Equipment</b>							
Centralized System .....	2,511	34,656	13.8	5,310	1,759	515	40,871
Distributed System .....	785	11,540	14.7	1,458	483	142	11,253
Combination of Centralized and Distributed System .....	175	10,267	58.8	1,964	651	191	13,401
<b>Lighting Equipment Types (more than one may apply)</b>							
Incandescent .....	2,184	38,528	17.6	6,057	2,006	588	44,422
Standard Fluorescent .....	3,943	59,688	15.1	8,909	2,951	865	66,864
Compact Fluorescent .....	941	27,571	29.3	5,027	1,665	488	36,584
High Intensity Discharge .....	455	20,643	45.4	3,400	1,126	330	23,651
Halogen .....	565	17,703	31.3	3,226	1,069	313	23,011
Other .....	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration Equipment (more than one may apply)*</b>							
Any Refrigeration.....	3,176	52,974	16.7	8,366	2,771	812	62,357
Commercial Refrigeration .....	1,007	26,768	26.6	5,397	1,788	524	38,581
Walk-In Units .....	666	20,254	30.4	4,496	1,489	436	31,769
Cases or Cabinets .....	825	20,424	24.8	4,349	1,441	422	31,335
Residential-Type Units .....	2,370	38,884	16.4	5,342	1,769	519	39,936
Vending Machines .....	996	35,335	35.5	5,992	1,985	582	42,043
No Refrigeration .....	1,227	10,333	8.4	802	266	78	6,675
<b>Office Equipment (more than one may apply)</b>							
Computers .....	3,081	55,627	18.1	8,567	2,838	832	64,010
With Flat Screen Monitors .....	877	26,417	30.1	4,797	1,589	466	34,985
Dedicated Servers .....	1,175	36,338	30.9	6,143	2,035	596	44,941
Laser Printers .....	1,970	33,012	16.8	4,679	1,550	454	36,031
Inkjet Printers .....	1,420	32,210	22.7	5,495	1,820	533	39,920
FAX Machines .....	2,715	52,373	19.3	8,154	2,701	792	60,928
Photocopiers .....	1,939	46,257	23.9	7,128	2,361	692	52,409
<b>Number of Computers</b>							
None .....	1,323	7,679	5.8	601	199	58	5,021
1 to 4 .....	1,670	12,395	7.4	1,578	523	153	12,918
5 to 9 .....	559	7,179	12.8	826	274	80	6,606
10 to 19 .....	370	6,610	17.9	859	285	83	6,741
20 to 49 .....	255	7,414	29.1	1,233	408	120	9,322
50 to 99 .....	110	5,376	48.9	781	259	76	5,664
100 to 249 .....	79	6,690	84.3	1,111	368	108	7,675
250 or More .....	38	9,963	264.3	2,179	722	212	15,085

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Number of Dedicated Servers</b>							
None .....	3,229	26,969	8.4	3,025	1,002	294	24,090
1 to 4 .....	1,060	24,116	22.8	3,520	1,166	342	26,074
5 to 9 .....	58	3,864	67.0	756	250	73	5,608
10 to 19 .....	30	3,027	100.1	653	216	63	4,457
20 to 49 .....	17	2,583	150.0	552	183	54	3,685
50 or More .....	10	2,748	276.6	662	219	64	5,118
<b>Number of Photocopiers</b>							
None .....	2,464	17,050	6.9	2,040	676	198	16,622
One .....	1,250	15,475	12.4	1,792	593	174	14,098
2 to 4 .....	549	15,082	27.5	2,132	706	207	15,555
5 to 9 .....	85	5,515	64.7	976	323	95	7,138
10 or More .....	54	10,185	187.2	2,229	738	216	15,618
<b>Energy-Related Space Functions (more than one may apply)</b>							
Commercial Food Preparation .....	799	22,223	27.8	4,155	1,376	403	29,771
Activities with Large Amounts of Hot Water .....	567	19,482	34.4	3,522	1,167	342	24,710
Separate Computer Area .....	553	26,873	48.6	4,678	1,550	454	33,308
<b>HVAC Conservation Features (more than one may apply)</b>							
Variable Air-Volume System .....	466	19,597	42.1	3,827	1,267	371	26,726
Economizer Cycle .....	508	21,108	41.5	4,251	1,408	413	29,663
HVAC Maintenance .....	2,576	51,151	19.9	8,161	2,703	792	60,420
Energy Management and Control System (EMCS) .....	252	15,630	62.0	2,881	954	280	20,451
<b>Window and Interior Lighting Features (more than one may apply)</b>							
Multipaned Windows .....	2,175	38,727	17.8	6,109	2,024	593	43,784
Tinted Window Glass .....	1,313	29,625	22.6	5,077	1,682	493	37,166
Reflective Window Glass .....	305	8,529	27.9	1,576	522	153	11,302
External Overhangs or Awnings .....	1,220	17,172	14.1	2,900	961	282	21,798
Skylights or Atriums .....	324	12,508	38.6	1,948	645	189	14,007
Daylighting Sensors .....	74	2,868	38.7	623	206	60	4,847
Specular Reflectors .....	928	26,118	28.2	4,488	1,487	436	32,092
Electronic Ballasts .....	2,577	46,882	18.2	7,543	2,498	732	55,837
Energy Management and Control System (EMCS) For Lighting .....	60	4,781	80.1	939	311	91	6,922
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)*</b>							
Heating .....	2,876	42,707	14.8	5,828	1,930	566	45,100
Cooling .....	2,759	43,190	15.7	6,132	2,031	595	47,552
Lighting .....	3,685	46,987	12.7	6,057	2,006	588	46,811
Office Equipment .....	1,504	19,397	12.9	2,177	721	211	17,466

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Annual Consumption (kilowatthours)</b>							
10,000 or Less .....	757	2,861	3.8	39	13	4	476
10,001 to 50,000 .....	1,698	9,228	5.4	463	153	45	4,668
50,001 to 100,000 .....	705	6,461	9.2	532	176	52	5,055
100,001 to 500,000 .....	954	16,111	16.9	2,157	715	209	18,053
500,001 to 1,000,000 .....	142	6,737	47.5	999	331	97	7,735
1,000,001 to 5,000,000 .....	129	13,209	102.6	2,769	917	269	18,537
Over 5,000,000 .....	19	8,699	464.8	2,209	732	214	14,507
<b>Provider of Purchased Electricity (more than one may apply)</b>							
Local Utility .....	4,225	57,853	13.7	8,151	2,700	791	61,476
Some Other Provider .....	152	4,945	32.5	930	308	90	7,052

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: • 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. • 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.



**Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003**

	Electricity Consumption						Electricity Expenditures		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
				25th Percentile	Median	75th Percentile			
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Building Floorspace (Square Feet)</b>									
1,001 to 5,000 .....	47	17.8	11.4	3.8	8.9	20.3	4.3	1.63	0.092
5,001 to 10,000 .....	92	12.4	10.3	3.8	7.4	14.5	8.7	1.18	0.095
10,001 to 25,000 .....	164	10.5	11.1	2.9	6.3	13.4	13.8	0.88	0.084
25,001 to 50,000 .....	439	12.2	11.6	3.8	8.8	16.2	33.6	0.94	0.077
50,001 to 100,000 .....	927	13.1	14.1	4.5	9.9	17.0	68.0	0.97	0.073
100,001 to 200,000 .....	2,181	15.7	12.2	5.3	13.0	23.4	146.4	1.05	0.067
200,001 to 500,000 .....	4,347	15.0	15.4	5.8	12.1	20.7	301.0	1.04	0.069
Over 500,000 .....	17,034	19.0	12.8	10.0	16.6	25.2	1209.8	1.35	0.071
<b>Principal Building Activity</b>									
Education .....	283	11.0	8.7	4.9	8.9	13.6	21.1	0.82	0.075
Food Sales .....	276	49.4	43.0	33.4	48.0	77.0	20.9	3.74	0.076
Food Service .....	213	38.4	20.3	18.8	37.4	70.3	17.4	3.13	0.082
Health Care .....	564	22.9	11.5	6.1	12.0	18.4	37.9	1.54	0.067
Inpatient .....	6,628	27.5	14.1	21.8	24.0	35.6	405.3	1.68	0.061
Outpatient .....	168	16.1	7.8	5.8	11.3	16.5	13.9	1.34	0.083
Lodging .....	483	13.5	28.0	6.7	11.9	17.7	37.1	1.04	0.077
Retail (Other Than Mall).....	139	14.3	17.8	4.3	9.4	18.4	11.6	1.19	0.083
Office .....	256	17.3	7.5	6.5	11.5	17.6	20.7	1.40	0.081
Public Assembly .....	179	12.5	20.5	2.2	5.1	11.3	14.4	1.00	0.080
Public Order and Safety .....	237	15.3	12.4	4.0	7.9	17.6	17.2	1.12	0.073
Religious Worship .....	49	4.9	10.7	1.9	3.5	6.0	4.4	0.43	0.089
Service .....	73	11.0	12.0	3.0	6.3	11.8	5.8	0.88	0.080
Warehouse and Storage .....	154	7.6	16.7	1.4	3.1	6.2	10.8	0.53	0.070
Other .....	510	22.5	21.4	3.5	7.2	20.3	40.0	1.76	0.078
Vacant .....	42	2.4	Q	0.4	1.7	3.8	3.9	0.22	0.092
<b>Year Constructed</b>									
Before 1920 .....	83	7.1	8.7	1.6	3.9	9.6	7.3	0.62	0.088
1920 to 1945 .....	122	9.2	9.9	3.2	6.9	13.9	10.3	0.78	0.084
1946 to 1959 .....	125	9.9	10.2	3.1	6.4	14.3	10.6	0.84	0.085
1960 to 1969 .....	168	11.9	11.0	3.4	7.4	14.7	13.5	0.96	0.080
1970 to 1979 .....	239	15.9	13.3	4.4	9.5	21.4	18.1	1.20	0.075
1980 to 1989 .....	275	18.1	12.2	4.8	10.1	20.5	20.8	1.37	0.076
1990 to 1999 .....	250	16.7	12.5	4.7	10.5	22.6	18.8	1.26	0.075
2000 to 2003 .....	288	16.2	19.2	3.1	7.8	18.3	21.4	1.20	0.074
<b>Census Region and Division</b>									
Northeast .....	208	11.5	9.9	2.4	6.1	14.2	20.1	1.11	0.097
New England .....	139	10.8	10.0	1.8	4.3	13.2	13.7	1.06	0.099
Middle Atlantic .....	240	11.7	9.8	2.9	6.9	15.2	23.1	1.13	0.096
Midwest .....	182	12.9	13.2	3.5	7.9	15.9	11.9	0.85	0.066
East North Central .....	233	13.5	13.4	4.2	8.3	19.1	15.5	0.90	0.067
West North Central .....	118	11.7	12.8	3.0	7.2	13.6	7.4	0.74	0.063
South .....	226	16.5	13.9	4.1	9.2	19.7	15.4	1.12	0.068
South Atlantic .....	252	17.4	12.6	4.2	9.7	19.7	17.0	1.17	0.067
East South Central .....	160	15.5	16.4	3.8	8.4	19.8	10.7	1.04	0.067
West South Central .....	226	15.3	15.8	4.0	9.0	19.3	15.9	1.08	0.070
West .....	179	13.8	10.6	4.0	9.2	15.2	17.7	1.37	0.099
Mountain .....	196	15.4	13.1	4.3	8.6	14.4	15.0	1.18	0.076
Pacific .....	170	13.0	9.5	3.8	9.3	15.7	19.1	1.46	0.112

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**Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003**

	Electricity Consumption						Electricity Expenditures		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Percentile	Median	75th Percentile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Climate Zone: 30-Year Average</b>									
Under 2,000 CDD and --									
More than 7,000 HDD .....	148	11.5	11.6	2.9	7.2	15.0	11.3	0.88	0.076
5,500-7,000 HDD .....	198	13.1	12.9	3.2	7.4	15.4	14.4	0.95	0.073
4,000-5,499 HDD .....	259	14.6	11.9	3.9	8.0	17.6	20.8	1.17	0.080
Fewer than 4,000 HDD .....	184	14.5	12.8	3.8	8.3	16.4	15.3	1.20	0.083
2,000 CDD or More and --									
Fewer than 4,000 HDD .....	255	17.3	11.5	4.9	12.7	22.9	19.1	1.30	0.075
<b>Number of Floors</b>									
One .....	114	13.4	14.1	3.7	8.2	18.0	9.2	1.08	0.080
Two .....	200	12.6	12.5	3.5	8.3	16.5	15.9	1.01	0.080
Three .....	251	11.4	10.5	3.1	7.1	14.9	19.2	0.87	0.076
Four to Nine .....	1,363	17.3	11.0	3.5	10.7	18.3	97.9	1.24	0.072
Ten or More .....	8,134	19.4	10.6	12.1	18.1	25.2	615.6	1.47	0.076
<b>Elevators and Escalators (more than one may apply)</b>									
Any Elevators .....	1,365	17.0	11.4	5.8	12.6	20.7	99.1	1.23	0.073
Number of Elevators									
One .....	508	12.8	11.4	5.2	10.6	18.3	37.7	0.95	0.074
Two to Five .....	1,955	17.0	10.8	8.1	16.9	25.2	140.6	1.22	0.072
Six or More .....	11,057	22.5	12.2	12.5	19.0	29.5	797.9	1.62	0.072
Any Escalators .....	9,366	24.1	14.0	10.4	14.9	22.6	677.6	1.74	0.072
<b>Number of Workers (main shift)</b>									
Fewer than 5 .....	45	7.7	23.9	2.4	5.4	12.3	3.9	0.68	0.087
5 to 9 .....	94	11.8	14.4	5.5	10.3	20.5	8.2	1.04	0.088
10 to 19 .....	158	11.4	12.2	5.9	10.8	20.6	13.6	0.98	0.086
20 to 49 .....	386	14.0	13.0	8.1	13.6	21.3	30.1	1.09	0.078
50 to 99 .....	802	14.9	12.4	8.9	15.0	21.7	57.9	1.08	0.072
100 to 249 .....	1,759	19.6	12.1	10.9	19.1	30.4	127.5	1.42	0.072
250 or More .....	7,165	22.4	9.1	14.8	22.8	29.4	511.9	1.60	0.071
<b>Weekly Operating Hours</b>									
Fewer than 40 .....	30	4.5	8.0	1.6	3.2	6.5	2.9	0.42	0.094
40 to 48 .....	105	10.1	8.5	4.0	7.5	12.9	8.7	0.83	0.082
49 to 60 .....	166	11.2	9.2	4.2	8.7	15.7	13.5	0.91	0.081
61 to 84 .....	251	14.1	12.5	7.1	13.8	27.1	19.9	1.12	0.079
85 to 167 .....	408	22.1	14.7	13.8	33.4	58.5	29.8	1.61	0.073
Open Continuously .....	647	21.2	18.8	4.9	13.7	29.5	47.4	1.55	0.073
<b>Ownership and Occupancy</b>									
Nongovernment Owned .....									
Owner Occupied .....	178	14.0	12.7	3.4	8.0	17.9	14.3	1.13	0.080
Nonowner Occupied .....	175	13.6	11.8	3.5	7.2	15.1	14.0	1.08	0.080
Unoccupied .....	187	15.2	13.5	3.6	9.4	21.7	15.1	1.22	0.081
Government Owned .....	30	1.9	N	0.4	1.7	3.4	2.9	Q	Q
Federal .....	348	14.1	11.1	4.8	9.3	15.3	24.0	0.97	0.069
State .....	842	19.7	15.8	4.3	9.2	17.3	47.3	1.11	0.056
Local .....	366	15.8	8.3	5.9	9.1	14.5	24.3	1.05	0.066
Local .....	286	12.3	12.0	4.8	9.5	15.8	21.3	0.92	0.075

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**Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003**

	Electricity Consumption						Electricity Expenditures		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Vacancy Status</b>									
Completely Vacant .....	32	1.8	N	0.4	1.5	3.4	3.0	0.17	0.096
Mostly Vacant .....	Q	Q	Q	1.4	3.0	8.0	Q	Q	Q
Partially Vacant .....	338	13.8	9.9	2.9	6.7	14.2	26.5	1.08	0.078
Not At All Vacant .....	189	14.6	12.9	3.9	8.7	18.3	14.6	1.12	0.077
<b>Number of Establishments</b>									
One .....	174	14.1	14.2	3.7	8.3	18.2	13.5	1.09	0.077
2 to 5 .....	232	13.5	11.3	3.9	8.7	15.3	18.0	1.05	0.078
6 to 10 .....	616	17.3	5.2	5.5	11.2	18.3	48.0	1.34	0.078
11 to 20 .....	1,259	14.7	8.6	4.7	14.2	19.1	99.6	1.16	0.079
More than 20 .....	3,544	19.6	8.6	3.0	10.5	18.7	281.6	1.56	0.079
Currently Unoccupied .....	32	1.8	N	0.4	1.5	3.4	3.0	0.17	0.096
<b>Predominant Exterior Wall Material</b>									
Brick, Stone or Stucco .....	222	13.7	12.0	4.4	9.7	20.3	17.1	1.06	0.077
Concrete (Block or Poured) .....	205	14.5	14.9	4.0	9.4	20.0	16.4	1.16	0.080
Concrete Panels .....	956	18.3	10.8	5.8	11.3	26.2	68.8	1.32	0.072
Siding or Shingles .....	59	11.0	9.6	3.3	7.4	14.1	5.4	1.01	0.091
Metal Panels .....	122	11.8	14.1	2.1	4.5	9.7	9.4	0.91	0.077
Window Glass .....	1,148	19.1	10.2	6.6	17.0	27.6	85.8	1.43	0.075
Other .....	423	16.7	12.0	2.0	9.5	21.6	32.4	1.28	0.077
No One Major Type .....	Q	Q	Q	1.1	5.4	10.4	Q	Q	Q
<b>Predominant Roof Material</b>									
Built-Up .....	303	14.7	11.8	4.9	11.3	24.4	24.0	1.16	0.079
Shingles (Not Wood) .....	94	12.3	11.6	3.2	7.1	14.7	8.0	1.04	0.085
Metal Surfacing .....	101	10.2	13.7	2.4	5.3	11.1	7.8	0.79	0.077
Synthetic or Rubber .....	518	17.7	12.6	6.0	12.3	24.5	37.0	1.27	0.071
Slate or Tile .....	118	12.5	10.1	5.0	9.7	19.6	11.0	1.16	0.093
Wooden Materials .....	91	12.2	11.1	4.2	8.3	15.7	7.3	0.99	0.081
Concrete .....	477	Q	14.8	6.2	11.4	24.2	33.4	Q	0.070
Other .....	908	20.4	18.6	5.8	15.3	39.2	63.2	1.42	0.070
No One Major Type .....	237	10.4	8.8	3.0	5.8	21.6	22.8	1.01	0.097
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
Any Type of Renovation									
Since 1980 .....	227	13.0	11.2	3.7	8.2	15.7	17.7	1.01	0.078
Addition or Annex .....	360	14.1	13.9	4.0	8.7	17.0	25.4	0.99	0.070
Reduction In Floorspace .....	699	15.2	14.2	7.4	13.1	29.5	53.7	1.17	0.077
Cosmetic Improvements .....	239	13.5	11.1	3.7	8.0	15.8	18.8	1.06	0.079
Wall or Roof Replacement .....	278	12.6	10.0	3.2	6.9	15.0	22.2	1.01	0.080
Interior Wall									
Re-Configuration .....	289	13.8	10.5	4.1	8.2	17.5	22.2	1.06	0.077
HVAC Equipment Upgrade .....	351	14.4	11.2	4.3	8.2	16.0	26.9	1.10	0.077
Lighting Upgrade .....	309	13.6	11.2	3.7	8.0	15.4	23.7	1.05	0.077
Window Replacement .....	239	11.7	9.8	4.0	7.2	13.5	20.1	0.98	0.084
Plumbing System Upgrade .....	294	12.9	10.5	3.9	7.9	15.0	23.5	1.03	0.080
Insulation Upgrade .....	227	12.7	10.2	3.0	6.7	13.2	18.0	1.01	0.080
Other Renovation .....	246	9.0	9.9	3.7	10.1	24.0	27.0	0.99	0.110
No Renovations Since 1980 .....	117	10.5	11.4	3.1	6.7	14.1	9.7	0.87	0.083
Building Newer than 1980 .....	266	17.1	13.2	4.4	10.0	20.6	20.0	1.29	0.075

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**Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003**

	Electricity Consumption						Electricity Expenditures		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Percentile	Median	75th Percentile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Energy Sources (more than one may apply)</b>									
Electricity .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
Natural Gas .....	265	14.6	12.2	4.3	8.8	18.5	20.3	1.12	0.077
Fuel Oil .....	558	16.5	12.8	2.2	5.5	14.0	41.5	1.23	0.074
District Heat .....	1,467	18.0	9.6	6.4	12.6	20.4	97.5	1.20	0.066
District Chilled Water .....	1,711	19.7	7.8	10.9	15.3	23.1	111.4	1.29	0.065
Propane .....	199	14.0	16.9	3.3	6.9	14.0	14.5	1.02	0.073
Other .....	180	16.4	12.1	2.8	5.3	11.2	12.2	1.11	0.068
<b>Space-Heating Energy Sources</b>									
Electricity .....	258	15.9	13.4	5.5	11.3	20.8	19.7	1.22	0.076
Electricity Main .....	211	16.6	13.7	6.3	12.6	23.3	16.3	1.28	0.077
Electricity Secondary .....	375	15.1	13.1	4.7	8.7	16.1	28.3	1.14	0.075
Other Excluding Electricity .....	184	13.0	11.0	3.3	6.9	14.1	14.2	1.00	0.077
Buildings without Heating .....	63	8.2	14.0	0.9	2.8	12.2	6.4	0.84	0.102
<b>Primary Space-Heating Energy Source</b>									
Electricity .....	211	16.6	13.7	6.3	12.6	23.3	16.3	1.28	0.077
Natural Gas .....	230	13.9	12.5	4.2	8.0	16.0	17.7	1.07	0.077
Fuel Oil .....	80	5.9	8.4	1.8	3.4	8.2	8.0	0.59	0.100
District Heat .....	1,432	18.5	9.3	4.9	12.6	20.7	93.3	1.20	0.065
Propane .....	67	10.5	10.7	2.9	6.2	12.0	6.3	0.98	0.093
Other .....	70	12.6	15.9	2.5	4.0	9.4	4.7	0.85	0.067
<b>Cooling Energy Sources</b>									
Electricity .....	227	15.0	12.9	4.9	9.8	19.4	17.7	1.17	0.078
Other Excluding Electricity .....	1,340	17.5	6.6	7.0	11.2	19.1	92.7	1.21	0.069
Buildings without Cooling .....	39	4.8	11.8	1.1	2.4	5.1	3.2	0.39	0.082
<b>Water-Heating Energy Sources</b>									
Electricity .....	211	14.6	12.3	4.4	9.6	18.5	15.9	1.10	0.075
Other Excluding Electricity .....	285	15.4	12.2	4.8	9.9	20.1	22.6	1.22	0.079
Bldgs without Water Heating .....	45	6.2	12.1	1.5	3.7	9.1	3.8	0.51	0.083
<b>Cooking Energy Sources</b>									
Electricity .....	606	18.9	15.5	6.9	18.3	39.5	43.5	1.36	0.072
Other Excluding Electricity .....	397	17.1	13.8	6.3	15.0	40.7	30.5	1.31	0.077
Buildings without Cooking .....	135	11.8	10.7	3.3	7.2	14.2	10.9	0.96	0.081
<b>Energy End Uses (more than one may apply)</b>									
Buildings with Space Heating .....	217	14.4	12.2	4.1	8.7	17.7	16.7	1.10	0.077
Buildings with Cooling .....	237	15.1	12.3	4.9	9.9	19.4	18.4	1.17	0.077
Buildings with Water Heating .....	244	15.0	12.2	4.6	9.7	19.2	18.9	1.16	0.077
Buildings with Cooking .....	504	18.2	14.8	6.6	16.5	40.0	37.2	1.34	0.074
Buildings with Manufacturing .....	349	13.2	14.4	3.1	6.7	9.9	26.3	0.99	0.075
Buildings with Electricity Generation .....	1,748	20.3	13.5	9.9	16.7	25.8	125.2	1.46	0.072

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**Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003**

	Electricity Consumption						Electricity Expenditures		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Percentile	Median	75th Percentile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Percent of Floorspace Heated</b>									
Not Heated .....	63	8.2	14.0	0.9	2.8	12.2	6.4	0.84	0.102
1 to 50 .....	105	8.0	13.3	2.4	4.8	9.2	8.9	0.68	0.085
51 to 99 .....	233	14.3	12.0	4.0	8.4	18.5	18.3	1.12	0.079
100 .....	234	15.4	12.1	4.6	9.7	18.6	17.8	1.17	0.076
<b>Percent of Floorspace Cooled</b>									
Not Cooled .....	39	4.8	11.8	1.1	2.4	5.1	3.2	0.39	0.082
1 to 50 .....	132	7.8	11.7	3.1	5.7	10.1	11.1	0.66	0.084
51 to 99 .....	348	16.5	13.2	6.1	11.2	22.5	26.9	1.28	0.077
100 .....	254	18.8	12.0	6.2	12.4	23.1	19.3	1.43	0.076
<b>Percent Lit When Open</b>									
Zero .....	Q	Q	Q	0.8	1.2	1.9	Q	Q	Q
1 to 50 .....	71	6.5	14.9	2.3	4.7	9.7	6.4	0.58	0.090
51 to 99 .....	236	14.3	9.8	4.4	8.8	17.1	18.9	1.14	0.080
100 .....	256	17.0	13.4	5.0	11.1	21.9	19.2	1.27	0.075
Building Never Open/ Electricity Not Used .....	25	2.1	Q	0.4	1.7	3.8	2.3	0.19	0.090
<b>Percent Lit When Closed</b>									
Zero .....	81	9.2	8.8	2.5	5.5	11.4	6.7	0.75	0.082
1 to 50 .....	219	13.3	11.0	5.1	10.8	21.5	17.4	1.06	0.080
51 to 100 .....	333	21.7	16.3	6.3	12.9	32.6	23.1	1.50	0.069
Building Never Closed/ Electricity Not Used .....	647	21.2	18.8	4.9	13.7	29.5	47.4	1.55	0.073
<b>Heating Equipment (more than one may apply)</b>									
Heat Pumps .....	322	17.4	14.2	6.4	12.2	22.2	24.4	1.32	0.076
Packaged Heat Pumps .....	379	19.3	14.1	7.4	13.2	24.1	28.5	1.46	0.075
Split-System Heat Pumps .....	239	15.4	14.4	5.1	9.2	21.0	17.7	1.14	0.074
Individual Room Heat Pumps .....	751	16.1	14.6	9.8	13.6	20.7	56.9	1.22	0.076
Furnaces .....	120	11.4	12.0	3.5	7.1	14.1	9.6	0.91	0.080
Individual Space Heaters .....	202	13.2	12.8	4.0	8.4	14.9	15.1	0.99	0.075
District Heat .....	1,435	18.0	9.5	4.9	12.6	20.7	93.3	1.17	0.065
Boilers .....	511	14.5	12.6	3.4	7.9	16.6	38.1	1.08	0.075
Packaged Heating Units .....	326	17.2	13.7	6.1	12.7	24.8	25.5	1.35	0.078
Other .....	249	15.2	14.3	4.2	8.8	16.9	17.4	1.06	0.070
<b>Cooling Equipment (more than one may apply)</b>									
Residential-Type Central									
Air Conditioners .....	133	12.1	11.7	4.5	8.6	15.8	10.7	0.97	0.081
Heat Pumps .....	326	17.7	14.6	6.6	12.0	22.4	24.5	1.33	0.075
Packaged Heat Pumps .....	366	19.4	14.1	7.2	12.6	23.8	27.5	1.46	0.075
Split-System Heat Pumps .....	235	15.7	14.8	5.9	10.9	21.5	17.3	1.15	0.074
Individual Room Heat Pumps .....	867	17.1	15.4	9.7	13.6	21.7	64.2	1.27	0.074
Individual Air Conditioners .....	189	11.2	12.2	3.6	6.8	13.5	15.2	0.90	0.080
District Chilled Water .....	1,711	19.7	7.8	10.9	15.3	23.1	111.4	1.29	0.065
Central Chillers .....	2,212	21.1	14.0	11.2	16.9	25.9	154.1	1.47	0.070
Packaged Air Conditioning									
Units .....	287	15.4	12.9	5.6	11.5	23.4	22.5	1.21	0.078
Swamp Coolers .....	181	14.1	13.3	4.0	10.1	19.9	14.8	1.16	0.082
Other .....	584	18.0	13.1	8.7	12.8	23.4	41.2	1.27	0.070

Energy Information Administration

2003 Commercial Buildings Energy Consumption Survey: Consumption and Expenditures Tables

CONTINUED

**Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003**

	Electricity Consumption						Electricity Expenditures		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Percentile	Median	75th Percentile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
Heating .....	176	12.8	12.4	4.0	8.3	16.2	13.9	1.01	0.079
Cooling .....	211	13.6	11.7	4.5	9.2	18.3	16.8	1.08	0.079
<b>Water Heating Equipment</b>									
Centralized System .....	205	14.9	12.9	4.8	10.1	20.1	16.3	1.18	0.079
Distributed System .....	180	12.3	12.0	4.0	8.0	15.8	14.3	0.98	0.080
Combination of Centralized and Distributed System .....	1,092	18.6	10.9	8.4	13.5	22.5	76.8	1.31	0.070
<b>Lighting Equipment Types (more than one may apply)</b>									
Incandescent .....	269	15.3	12.0	3.6	8.4	16.9	20.3	1.15	0.076
Standard Fluorescent .....	219	14.5	12.2	4.2	8.9	18.4	17.0	1.12	0.077
Compact Fluorescent .....	519	17.7	13.3	5.1	11.4	23.7	38.9	1.33	0.075
High Intensity Discharge .....	725	16.0	12.7	5.0	10.1	18.6	52.0	1.15	0.072
Halogen .....	554	17.7	13.7	4.9	11.2	23.3	40.7	1.30	0.073
Other .....	Q	Q	Q	25.1	35.6	49.8	Q	Q	Q
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
Any Refrigeration.....	256	15.3	12.4	4.7	10.0	20.8	19.6	1.18	0.077
Commercial Refrigeration .....	520	19.6	16.2	9.2	21.9	48.0	38.3	1.44	0.074
Walk-In Units .....	655	21.5	17.3	13.4	32.2	58.5	47.7	1.57	0.073
Cases or Cabinets .....	512	20.7	16.6	9.6	23.5	49.9	38.0	1.53	0.074
Residential-Type Units .....	219	13.3	10.8	4.1	8.4	15.5	16.9	1.03	0.077
Vending Machines .....	584	16.5	12.7	5.6	11.5	22.2	42.2	1.19	0.072
No Refrigeration .....	63	7.5	10.9	2.0	4.4	10.1	5.4	0.65	0.086
<b>Office Equipment (more than one may apply)</b>									
Computers .....	270	15.0	12.0	5.0	9.9	18.7	20.8	1.15	0.077
With Flat Screen Monitors .....	531	17.6	11.0	6.6	12.0	20.3	39.9	1.32	0.075
Dedicated Servers .....	508	16.4	11.4	6.9	12.3	20.7	38.3	1.24	0.075
Laser Printers .....	231	13.8	11.3	4.7	9.0	17.6	18.3	1.09	0.079
Inkjet Printers .....	376	16.6	12.2	6.2	11.3	20.2	28.1	1.24	0.075
FAX Machines .....	292	15.1	11.8	5.3	10.3	19.3	22.4	1.16	0.077
Photocopiers .....	357	15.0	11.3	4.9	9.8	17.4	27.0	1.13	0.076
<b>Number of Computers</b>									
None .....	44	7.6	15.9	1.8	4.1	11.6	3.8	0.65	0.086
1 to 4 .....	92	12.4	17.6	4.1	8.1	17.6	7.7	1.04	0.084
5 to 9 .....	143	11.2	13.3	5.8	9.5	18.3	11.8	0.92	0.082
10 to 19 .....	226	12.6	12.2	7.3	11.9	19.3	18.2	1.02	0.081
20 to 49 .....	470	16.1	12.7	8.8	13.5	21.7	36.6	1.26	0.078
50 to 99 .....	690	14.1	10.9	7.7	13.4	19.2	51.5	1.05	0.075
100 to 249 .....	1,359	16.1	12.2	7.9	14.7	23.5	96.7	1.15	0.071
250 or More .....	5,611	21.2	9.5	11.4	19.0	29.4	400.1	1.51	0.071

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**Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003**

	Electricity Consumption						Electricity Expenditures		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Percentile	Median	75th Percentile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Number of Dedicated Servers</b>									
None .....	91	10.9	14.5	2.9	6.6	15.1	7.5	0.89	0.082
1 to 4 .....	323	14.2	12.8	6.6	11.7	19.7	24.6	1.08	0.076
5 to 9 .....	1,272	19.0	12.1	11.2	17.0	25.9	97.3	1.45	0.076
10 to 19 .....	2,096	20.9	7.4	10.0	18.9	29.4	147.3	1.47	0.070
20 to 49 .....	3,109	20.7	11.2	9.9	18.7	25.3	213.9	1.43	0.069
50 or More .....	6,472	23.4	10.1	17.9	18.2	31.2	515.2	1.86	0.080
<b>Number of Photocopiers</b>									
None .....	80	11.6	17.4	2.8	6.9	16.9	6.7	0.97	0.084
One .....	139	11.2	13.9	4.3	8.4	15.0	11.3	0.91	0.081
2 to 4 .....	377	13.7	12.0	6.1	11.0	18.2	28.3	1.03	0.075
5 to 9 .....	1,110	17.2	8.9	10.1	15.6	29.3	83.7	1.29	0.075
10 or More .....	3,977	21.2	10.4	11.3	17.6	23.9	287.0	1.53	0.072
<b>Energy-Related Space Functions (more than one may apply)</b>									
Commercial Food Preparation .....	505	18.2	14.8	6.6	16.5	40.3	37.2	1.34	0.074
Activities with Large Amounts of Hot Water .....	603	17.6	15.7	7.2	13.2	26.0	43.6	1.27	0.072
Separate Computer Area .....	821	16.9	12.0	6.6	11.5	19.2	60.2	1.24	0.073
<b>HVAC Conservation Features (more than one may apply)</b>									
Variable Air-Volume System .....	798	19.0	12.1	7.5	14.2	26.5	57.4	1.36	0.072
Economizer Cycle .....	812	19.5	12.8	8.2	14.9	27.3	58.3	1.41	0.072
HVAC Maintenance .....	308	15.5	12.5	4.8	10.4	20.0	23.5	1.18	0.076
Energy Management and Control System (EMCS) .....	1,109	17.9	12.9	8.0	13.6	23.7	81.1	1.31	0.073
<b>Window and Interior Lighting Features (more than one may apply)</b>									
Multipaned Windows .....	273	15.3	13.5	4.5	9.3	18.4	20.1	1.13	0.074
Tinted Window Glass .....	375	16.6	12.2	4.8	11.0	21.3	28.3	1.25	0.075
Reflective Window Glass .....	501	17.9	12.4	4.7	9.5	18.9	37.0	1.33	0.074
External Overhangs or Awnings .....	231	16.4	12.6	5.8	11.4	23.2	17.9	1.27	0.077
Skylights or Atriums .....	584	15.1	13.4	4.1	8.7	15.9	43.2	1.12	0.074
Daylighting Sensors .....	816	21.1	16.0	5.6	10.1	25.6	65.4	1.69	0.080
Specular Reflectors .....	470	16.7	13.2	5.4	10.4	18.6	34.6	1.23	0.074
Electronic Ballasts .....	284	15.6	12.4	4.5	9.5	19.3	21.7	1.19	0.076
Energy Management and Control System (EMCS) For Lighting .....	1,528	19.1	12.8	10.8	17.8	34.5	116.0	1.45	0.076
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
Heating .....	197	13.2	11.5	3.7	7.6	15.4	15.7	1.06	0.080
Cooling .....	216	13.8	11.0	4.5	8.9	16.7	17.2	1.10	0.080
Lighting .....	160	12.5	10.4	3.9	8.4	16.5	12.7	1.00	0.080
Office Equipment .....	141	10.9	10.5	4.3	8.1	14.1	11.6	0.90	0.083

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**Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003**

	Electricity Consumption						Electricity Expenditures		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Annual Consumption (kilowatthours)</b>									
10,000 or Less .....	5	1.3	2.8	1.0	1.9	3.2	0.6	0.17	0.124
10,001 to 50,000 .....	26	4.9	6.1	3.8	6.9	11.7	2.7	0.51	0.104
50,001 to 100,000 .....	73	8.0	8.6	6.4	11.4	24.0	7.2	0.78	0.098
100,001 to 500,000 .....	220	13.0	12.2	10.1	18.9	40.0	18.9	1.12	0.086
500,001 to 1,000,000 .....	684	14.4	13.6	12.0	16.9	30.0	54.5	1.15	0.080
1,000,001 to 5,000,000 .....	2,087	20.3	13.5	16.0	23.4	37.7	143.9	1.40	0.069
Over 5,000,000 .....	11,458	24.7	15.6	20.0	27.5	36.8	775.0	1.67	0.068
<b>Provider of Purchased Electricity (more than one may apply)</b>									
Local Utility .....	187	13.7	12.0	3.5	8.1	16.7	14.5	1.06	0.078
Some Other Provider .....	594	18.3	12.9	6.5	12.4	22.9	46.4	1.43	0.078

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.



**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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**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>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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**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>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.



**Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003**

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					per kWh				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Building Floorspace (Square Feet)</b>												
1,001 to 5,000 .....	1,617	2,401	4,142	2,188	0.12	0.08	0.08	0.12	1.62	1.39	1.78	1.69
5,001 to 10,000 .....	1,202	1,212	2,721	2,160	0.12	0.08	0.08	0.12	1.11	0.84	1.11	1.78
10,001 to 25,000 .....	1,795	2,145	3,763	2,299	0.10	0.07	0.08	0.10	0.92	0.69	0.88	1.11
25,001 to 50,000 .....	1,168	2,042	2,864	1,797	0.10	0.07	0.07	0.10	0.90	0.82	0.95	1.12
50,001 to 100,000 .....	2,130	1,777	3,190	1,620	0.09	0.06	0.06	0.10	1.04	0.79	0.93	1.25
100,001 to 200,000 .....	2,286	1,963	3,810	1,440	0.09	0.06	0.06	0.08	1.08	0.86	1.11	1.22
200,001 to 500,000 .....	1,985	1,497	2,312	1,530	0.08	0.05	0.06	0.10	1.11	0.68	1.21	1.31
Over 500,000 .....	2,079	1,135	2,738	2,025	0.09	0.06	0.06	0.09	1.34	0.94	1.42	1.66
<b>Principal Building Activity</b>												
Education .....	1,273	1,388	3,940	1,510	0.10	0.07	0.07	0.09	0.76	0.55	0.99	0.91
Food Sales .....	Q	1,069	1,741	Q	Q	0.07	0.07	Q	Q	3.51	3.60	Q
Food Service .....	Q	1,017	2,637	976	Q	0.08	0.07	0.12	Q	2.24	3.45	3.69
Health Care .....	871	1,057	1,822	1,131	0.08	0.06	0.06	0.09	1.63	1.32	1.43	2.04
Inpatient .....	631	606	1,387	574	0.08	0.05	0.05	0.08	1.76	1.38	1.65	2.12
Outpatient .....	Q	451	436	558	Q	0.07	0.08	0.10	Q	1.25	0.99	1.97
Lodging .....	882	953	1,910	1,543	0.10	0.06	0.07	0.10	Q	0.83	1.13	1.42
Retail (Other Than Mall).....	650	877	2,198	1,408	0.12	0.07	0.07	0.10	1.03	1.00	1.19	1.46
Office .....	4,890	3,556	4,788	3,816	0.10	0.07	0.07	0.10	1.62	1.19	1.27	1.57
Public Assembly .....	628	731	1,370	Q	0.10	0.07	0.07	0.11	Q	0.72	1.17	Q
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship .....	183	369	869	207	0.11	0.08	0.09	0.11	0.29	0.33	0.58	0.40
Service .....	580	961	1,266	679	0.11	0.07	Q	0.09	0.79	0.76	0.95	1.03
Warehouse and Storage .....	763	1,522	1,736	1,013	0.09	0.06	0.07	0.09	0.52	0.53	0.48	0.68
Other .....	1,333	330	Q	Q	0.09	0.06	Q	Q	2.05	1.08	Q	Q
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Year Constructed</b>												
Before 1920 .....	990	669	Q	Q	0.09	0.08	0.08	Q	0.71	0.44	0.81	Q
1920 to 1945 .....	1,827	1,403	904	989	0.11	0.06	0.08	0.12	0.74	0.72	0.72	1.07
1946 to 1959 .....	1,747	1,195	1,601	1,186	0.10	0.07	0.07	0.10	0.84	0.60	0.92	1.18
1960 to 1969 .....	2,063	1,485	2,421	1,745	0.09	0.07	0.07	0.10	1.19	0.67	0.97	1.10
1970 to 1979 .....	2,479	2,982	4,270	2,906	0.10	0.06	0.07	0.09	1.44	0.92	1.22	1.40
1980 to 1989 .....	2,331	2,365	5,787	3,419	0.09	0.07	0.07	0.10	1.70	1.23	1.25	1.53
1990 to 1999 .....	1,819	2,890	6,962	3,565	0.09	0.06	0.07	0.10	1.34	1.10	1.14	1.80
2000 to 2003 .....	1,006	1,183	3,177	1,006	0.09	0.06	0.07	0.09	1.49	0.99	1.27	1.08
<b>Climate Zone: 30-Year Average</b>												
Under 2,000 CDD and --												
More than 7,000 HDD .....	2,516	4,189	N	2,429	0.11	0.07	N	0.07	1.06	0.76	N	0.96
5,500-7,000 HDD .....	5,413	8,791	N	2,095	0.09	0.07	N	0.07	1.01	0.91	N	1.02
4,000-5,499 HDD .....	6,333	1,191	4,868	Q	0.10	0.06	0.07	0.10	1.25	0.76	1.20	1.39
Fewer than 4,000 HDD .....	N	N	9,940	8,271	N	N	0.06	0.13	N	N	1.00	1.59
2,000 CDD or More and --												
Fewer than 4,000 HDD .....	N	N	10,732	1,301	N	N	0.07	0.09	N	N	1.23	2.34
<b>Number of Floors</b>												
One .....	3,780	5,312	11,585	6,131	0.10	0.07	0.07	0.10	1.22	0.90	1.04	1.26
Two .....	2,788	3,821	5,470	3,987	0.10	0.07	0.07	0.10	0.92	0.74	1.12	1.35
Three .....	1,473	1,988	1,854	1,073	0.10	0.07	0.07	0.09	0.71	0.79	0.97	1.20
Four to Nine .....	3,813	2,364	4,214	2,126	0.09	0.06	0.06	0.10	1.27	0.90	1.36	1.60
Ten or More .....	2,408	687	2,416	1,740	0.09	0.06	0.06	0.09	1.47	1.24	1.38	1.74

**Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003**

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					per kWh				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Elevators and Escalators (more than one may apply)</b>												
Any Elevators .....	7,917	6,121	10,195	5,994	0.09	0.06	0.06	0.09	1.29	0.93	1.28	1.56
Number of Elevators												
One .....	1,752	2,372	2,487	1,101	0.10	0.06	0.07	0.09	1.12	0.79	1.01	1.03
Two to Five .....	3,435	2,579	4,094	2,232	0.09	0.06	0.06	0.10	1.16	0.96	1.32	1.64
Six or More .....	2,730	1,170	3,614	2,662	0.09	0.06	0.06	0.09	1.73	1.32	1.52	1.88
Any Escalators .....	Q	Q	1,732	Q	Q	Q	0.06	Q	Q	Q	1.73	Q
<b>Number of Workers (main shift)</b>												
Fewer than 5 .....	1,405	2,523	3,610	1,966	0.12	0.07	0.09	0.11	0.62	0.55	0.73	0.88
5 to 9 .....	1,088	1,441	2,633	1,228	0.12	0.08	0.08	0.10	1.00	0.98	1.02	1.20
10 to 19 .....	1,436	1,664	3,022	1,525	0.11	0.07	0.08	0.11	0.77	0.80	1.10	1.38
20 to 49 .....	2,216	2,576	4,556	2,619	0.10	0.07	0.07	0.10	0.96	0.90	1.17	1.37
50 to 99 .....	1,868	1,991	2,930	1,742	0.09	0.06	0.06	0.09	1.17	0.86	1.10	1.27
100 to 249 .....	2,013	1,729	3,595	2,431	0.09	0.06	0.06	0.10	1.51	1.07	1.42	1.74
250 or More .....	4,236	2,248	5,194	3,546	0.09	0.06	0.06	0.09	1.82	1.25	1.52	1.79
<b>Weekly Operating Hours</b>												
Fewer than 40 .....	290	616	1,009	574	0.11	0.09	0.08	0.13	0.34	0.30	0.48	0.64
40 to 48 .....	1,369	2,162	3,885	2,161	0.10	0.07	0.08	0.10	0.65	0.79	0.85	1.00
49 to 60 .....	2,814	3,345	4,891	3,181	0.10	0.06	0.07	0.11	0.91	0.73	0.88	1.30
61 to 84 .....	2,270	2,313	4,660	2,315	0.11	0.07	0.07	0.09	1.11	0.90	1.24	1.19
85 to 167 .....	2,214	2,739	4,300	1,934	0.09	0.07	0.07	0.09	1.68	1.36	1.81	1.55
Open Continuously .....	5,304	2,997	6,794	4,892	0.09	0.06	0.06	0.09	1.57	1.10	1.53	2.10
<b>Ownership and Occupancy</b>												
Nongovernment Owned .....	12,035	10,805	19,030	12,251	0.10	0.07	0.07	0.10	1.17	0.89	1.11	1.45
Owner Occupied .....	6,390	5,387	8,364	5,299	0.10	0.07	0.07	0.11	1.08	0.88	1.07	1.47
Nonowner Occupied .....	5,578	5,337	10,619	6,912	0.10	0.07	0.07	0.10	1.35	0.99	1.18	1.46
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	2,227	3,366	6,510	2,806	0.09	0.06	0.06	0.09	0.88	0.73	1.16	1.09
Federal .....	Q	876	843	228	Q	0.05	Q	0.09	Q	0.95	1.63	0.76
State .....	604	637	1,876	856	0.09	0.06	0.06	0.09	1.01	0.83	1.11	1.18
Local .....	1,411	1,853	3,791	1,722	0.10	0.07	0.07	0.08	0.83	0.64	1.11	1.12
<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 .....	3,828	2,668	4,126	2,588	0.10	0.07	0.07	0.09	1.24	0.86	1.05	1.24
Not At All Vacant .....	10,293	11,371	21,359	12,389	0.10	0.07	0.07	0.10	1.12	0.89	1.15	1.41
<b>Number of Establishments</b>												
One .....	8,786	10,689	18,435	10,467	0.10	0.07	0.07	0.10	1.10	0.88	1.11	1.36
2 to 5 .....	2,681	2,359	3,847	2,552	0.10	0.07	0.07	0.11	1.07	0.84	1.04	1.35
6 to 10 .....	738	451	905	537	0.09	0.06	0.07	0.10	1.29	0.88	1.65	1.64
11 to 20 .....	Q	Q	726	Q	Q	Q	0.06	Q	Q	Q	1.23	Q
More than 20 .....	1,315	Q	1,578	Q	0.11	Q	0.06	Q	1.89	Q	1.56	Q
Currently Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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**Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003**

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					per kWh				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Predominant Exterior</b>												
<b>Wall Material</b>												
Brick, Stone or Stucco .....	7,324	7,970	12,771	6,068	0.10	0.07	0.07	0.10	1.02	0.87	1.12	1.31
Concrete (Block or Poured) .....	2,606	2,399	4,721	2,692	0.10	0.07	0.07	0.10	1.20	0.83	1.20	1.53
Concrete Panels .....	946	1,256	3,739	2,476	0.08	0.06	0.06	0.10	1.58	1.02	1.41	1.30
Siding or Shingles .....	828	772	1,035	1,372	0.11	0.08	0.08	0.11	0.70	0.73	1.00	1.97
Metal Panels .....	1,594	1,115	2,352	1,665	0.09	0.07	0.07	0.09	1.55	0.63	0.76	1.12
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 .....	4,819	4,676	8,720	5,955	0.10	0.07	0.07	0.10	1.20	0.91	1.21	1.36
Shingles (Not Wood) .....	2,118	2,334	3,417	2,395	0.09	0.07	0.07	0.12	1.06	0.75	1.04	1.61
Metal Surfacing .....	935	1,665	4,411	1,826	0.10	0.06	0.07	0.09	0.93	0.67	0.75	0.98
Synthetic or Rubber .....	5,439	4,259	6,280	2,656	0.09	0.07	0.06	0.08	1.32	0.96	1.47	1.42
Slate or Tile .....	432	234	1,108	1,042	0.11	0.08	0.07	0.13	0.90	0.78	1.07	1.68
Wooden Materials .....	Q	Q	Q	Q	Q	Q	Q	0.10	Q	Q	Q	1.05
Concrete .....	Q	Q	Q	Q	Q	Q	0.07	Q	Q	Q	1.43	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</b>												
<b>Constructed Before 1980</b>												
<b>(more than one may apply)</b>												
Any Type of Renovation												
Since 1980 .....	5,738	4,126	4,606	3,359	0.10	0.07	0.07	0.09	1.13	0.77	1.06	1.18
Addition or Annex .....	1,715	1,728	2,008	1,051	0.10	0.06	0.07	0.07	0.95	0.88	1.11	1.07
Reduction In Floorspace .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements .....	4,825	3,153	3,155	2,712	0.10	0.06	0.07	0.09	1.23	0.81	1.05	1.24
Wall or Roof Replacement .....	2,888	1,684	2,041	1,516	0.10	0.06	0.07	0.09	1.08	0.75	1.10	1.17
Interior Wall												
Re-Configuration .....	2,713	2,284	1,999	2,038	0.10	0.06	0.06	0.09	1.10	0.88	1.03	1.35
HVAC Equipment Upgrade .....	4,033	2,721	2,815	2,253	0.10	0.06	0.06	0.08	1.33	0.82	1.09	1.23
Lighting Upgrade .....	3,879	2,420	2,105	2,338	0.09	0.06	0.06	0.08	1.16	0.79	1.01	1.32
Window Replacement .....	2,893	1,348	927	999	0.11	0.06	0.07	0.08	1.05	0.76	1.01	1.19
Plumbing System Upgrade .....	2,738	1,493	1,368	1,761	0.10	0.06	0.06	0.09	1.09	0.79	1.00	1.29
Insulation Upgrade .....	1,569	912	918	666	0.10	0.06	0.07	0.09	1.15	0.75	1.07	1.16
Other Renovation .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980 .....	3,367	3,607	5,008	3,708	0.10	0.07	0.07	0.11	0.78	0.64	0.97	1.22
Building Newer than 1980 .....	5,157	6,438	15,926	7,990	0.09	0.07	0.07	0.10	1.51	1.12	1.20	1.56
<b>Energy Sources (more than one may apply)</b>												
Electricity .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
Natural Gas .....	10,870	11,456	15,835	10,424	0.09	0.07	0.07	0.10	1.18	0.87	1.19	1.33
Fuel Oil .....	6,541	2,918	5,337	3,835	0.09	0.06	0.06	0.09	1.08	1.04	1.29	1.81
District Heat .....	2,131	1,400	2,141	847	0.10	0.05	0.06	0.09	1.56	0.85	1.21	1.27
District Chilled Water .....	825	726	1,311	805	0.08	0.06	0.06	0.08	1.33	1.22	1.14	1.65
Propane .....	1,201	1,662	2,194	2,177	0.10	0.05	0.07	0.09	0.89	0.76	0.93	1.86
Other .....	Q	423	445	472	Q	0.06	0.06	0.08	Q	0.87	1.47	1.28

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**Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003**

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					per kWh				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Space-Heating Energy Sources</b>												
Electricity .....	6,290	5,821	15,827	6,927	0.10	0.07	0.07	0.09	1.43	0.94	1.21	1.41
Electricity Main .....	2,071	3,002	11,093	4,361	0.10	0.07	0.07	0.10	1.65	1.18	1.22	1.40
Electricity Secondary .....	4,220	2,819	4,734	2,566	0.09	0.07	0.06	0.09	1.34	0.77	1.19	1.43
Other Excluding Electricity .....	7,864	8,207	8,622	6,694	0.10	0.07	0.06	0.10	0.96	0.81	1.09	1.29
Buildings without Heating .....	Q	144	1,092	1,436	Q	0.08	0.08	0.13	Q	0.36	0.61	1.55
<b>Primary Space-Heating Energy Source</b>												
Electricity .....	2,071	3,002	11,093	4,361	0.10	0.07	0.07	0.10	1.65	1.18	1.22	1.40
Natural Gas .....	8,025	9,099	10,595	7,635	0.09	0.07	0.07	0.10	1.25	0.80	1.14	1.29
Fuel Oil .....	1,837	Q	Q	Q	0.11	Q	Q	Q	0.57	Q	Q	Q
District Heat .....	1,929	1,344	1,971	666	0.10	0.05	0.06	0.08	1.60	0.88	1.22	1.19
Propane .....	Q	Q	471	Q	Q	0.07	0.08	0.13	Q	0.71	0.70	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling Energy Sources</b>												
Electricity .....	12,509	12,768	24,260	13,865	0.10	0.07	0.07	0.10	1.20	0.93	1.18	1.46
Other Excluding Electricity .....	1,012	Q	1,001	Q	0.09	Q	0.06	Q	1.83	Q	1.08	Q
Buildings without Cooling .....	741	Q	279	708	0.11	0.05	0.09	0.11	0.40	0.33	0.23	0.66
<b>Water-Heating Energy Sources</b>												
Electricity .....	5,313	5,702	13,738	5,545	0.09	0.07	0.07	0.09	1.04	0.88	1.16	1.38
Other Excluding Electricity .....	8,482	7,608	10,368	8,770	0.10	0.07	0.07	0.10	1.27	0.90	1.29	1.50
Bldgs without Water Heating .....	467	862	1,434	742	0.11	0.05	0.09	0.12	0.46	0.48	0.50	0.63
<b>Cooking Energy Sources</b>												
Electricity .....	3,487	3,802	7,476	3,080	0.09	0.06	0.07	0.08	1.40	1.00	1.53	1.55
Other Excluding Electricity .....	2,788	2,111	4,282	2,751	0.09	0.07	0.06	0.11	Q	1.02	1.44	1.83
Buildings without Cooking .....	7,987	8,259	13,783	9,226	0.10	0.07	0.07	0.10	1.02	0.76	0.93	1.22
<b>Energy End Uses (more than one may apply)</b>												
Buildings with Space Heating .....	14,154	14,028	24,449	13,621	0.10	0.07	0.07	0.10	1.12	0.86	1.16	1.35
Buildings with Cooling .....	13,521	13,424	25,261	14,349	0.10	0.07	0.07	0.10	1.23	0.93	1.17	1.44
Buildings with Water Heating .....	13,795	13,310	24,106	14,315	0.10	0.07	0.07	0.10	1.17	0.89	1.21	1.45
Buildings with Cooking .....	6,275	5,913	11,758	5,832	0.09	0.06	0.07	0.09	1.25	1.01	1.49	1.67
Buildings with Manufacturing .....	1,166	673	468	810	0.09	0.06	0.06	0.08	1.15	0.84	0.73	1.18
Buildings with Electricity Generation .....	5,398	3,882	5,483	3,916	0.09	0.06	0.06	0.09	1.66	1.17	1.36	1.75
<b>Percent of Floorspace Heated</b>												
Not Heated .....	Q	144	1,092	1,436	Q	0.08	0.08	0.13	Q	0.36	0.61	1.55
1 to 50 .....	694	596	1,898	1,458	0.12	0.06	0.07	0.11	0.50	0.53	0.67	0.98
51 to 99 .....	1,486	1,492	3,469	2,649	0.10	0.07	0.07	0.09	0.97	0.86	1.20	1.36
100 .....	11,974	11,941	19,082	9,515	0.10	0.07	0.07	0.10	1.24	0.89	1.25	1.43
<b>Percent of Floorspace Cooled</b>												
Not Cooled .....	741	Q	279	708	0.11	0.05	0.09	0.11	0.40	0.33	0.23	0.66
1 to 50 .....	2,897	2,623	2,819	2,561	0.10	0.07	0.07	0.10	0.68	0.55	0.57	0.96
51 to 99 .....	4,663	3,749	5,029	3,476	0.10	0.06	0.07	0.09	1.50	1.00	1.29	1.42
100 .....	5,961	7,052	17,413	8,313	0.09	0.07	0.07	0.10	1.66	1.18	1.37	1.71

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**Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003**

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					per kWh				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Percent Lit When Open</b>												
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	1,262	1,342	2,026	1,312	0.11	0.08	0.08	0.11	0.46	0.49	0.64	0.87
51 to 99 .....	4,757	4,383	7,016	4,737	0.10	0.07	0.07	0.10	1.32	0.83	1.14	1.45
100 .....	8,146	8,308	16,362	8,947	0.09	0.06	0.07	0.09	1.35	1.07	1.27	1.47
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 .....	2,124	3,236	4,759	2,986	0.11	0.07	0.08	0.10	0.76	0.63	0.76	0.96
1 to 50 .....	6,272	7,204	12,443	6,877	0.10	0.07	0.07	0.10	1.00	0.87	1.13	1.29
51 to 100 .....	Q	735	1,544	Q	Q	0.06	0.06	Q	Q	1.47	1.52	Q
Building Never Closed/ Electricity Not Used .....	5,304	2,997	6,794	4,892	0.09	0.06	0.06	0.09	1.57	1.10	1.53	2.10
<b>Heating Equipment (more than one may apply)</b>												
Heat Pumps .....	2,297	967	5,781	2,585	0.09	0.06	0.07	0.10	1.89	0.91	1.17	1.62
Packaged Heat Pumps .....	1,538	698	3,932	1,761	0.09	0.06	0.07	0.09	2.07	0.94	1.34	1.71
Split-System Heat Pumps .....	Q	Q	1,893	676	Q	Q	0.07	0.11	Q	Q	1.02	1.84
Individual Room Heat Pumps .....	Q	Q	1,288	586	Q	Q	0.07	0.09	Q	Q	1.03	1.09
Furnaces .....	3,399	5,811	5,220	3,456	0.10	0.07	0.07	0.09	0.95	0.81	0.91	1.12
Individual Space Heaters .....	3,394	3,244	3,804	1,944	0.10	0.07	0.07	0.08	1.22	0.78	1.06	0.98
District Heat .....	1,953	1,368	2,033	696	0.10	0.05	0.06	0.08	1.57	0.84	1.21	1.13
Boilers .....	6,441	4,822	5,657	5,124	0.09	0.06	0.06	0.09	1.03	0.79	1.29	1.40
Packaged Heating Units .....	4,895	3,893	10,498	5,032	0.10	0.06	0.07	0.11	1.68	1.06	1.29	1.52
Other .....	Q	846	1,372	530	Q	0.06	0.07	0.07	Q	1.05	1.00	1.10
<b>Cooling Equipment (more than one may apply)</b>												
Residential-Type Central Air Conditioners .....	2,372	3,158	3,733	1,484	0.11	0.07	0.07	0.10	0.99	0.87	0.97	1.26
Heat Pumps .....	2,357	948	5,922	2,833	0.09	0.06	0.07	0.09	1.86	0.89	1.20	1.59
Packaged Heat Pumps .....	1,585	707	3,904	1,713	0.09	0.06	0.07	0.09	2.01	0.93	1.37	1.66
Split-System Heat Pumps .....	Q	Q	1,946	709	Q	Q	0.07	0.10	Q	Q	1.04	1.76
Individual Room Heat Pumps .....	Q	Q	1,404	890	Q	Q	0.06	0.08	Q	Q	1.09	1.21
Individual Air Conditioners .....	3,052	2,295	3,551	2,370	0.10	0.07	0.07	0.10	0.83	0.66	0.98	1.36
District Chilled Water .....	825	726	1,311	805	0.08	0.06	0.06	0.08	1.33	1.22	1.14	1.65
Central Chillers .....	3,297	3,104	6,855	3,810	0.09	0.06	0.06	0.09	1.78	1.09	1.41	1.83
Packaged Air Conditioning Units .....	7,826	7,997	12,354	8,080	0.09	0.07	0.07	0.10	1.30	0.99	1.19	1.47
Swamp Coolers .....	Q	Q	Q	1,583	Q	Q	Q	0.09	Q	0.72	Q	1.18
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 .....	4,204	4,210	4,857	3,355	0.10	0.07	0.07	0.09	1.06	0.84	1.01	1.30
Cooling .....	6,456	5,032	6,808	4,440	0.10	0.07	0.07	0.09	1.18	0.87	1.06	1.32
<b>Water Heating Equipment</b>												
Centralized System .....	9,178	9,057	14,452	8,184	0.10	0.07	0.07	0.10	1.18	0.93	1.25	1.45
Distributed System .....	2,171	1,913	4,624	2,545	0.10	0.07	0.07	0.11	0.93	0.72	1.01	1.29
Combination of Centralized and Distributed System .....	2,446	2,340	5,030	3,586	0.09	0.06	0.06	0.09	1.44	0.92	1.32	1.61

**Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003**

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					per kWh				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Lighting Equipment Types (more than one may apply)</b>												
Incandescent .....	9,289	9,679	16,344	9,110	0.10	0.07	0.07	0.09	1.15	0.88	1.25	1.42
Standard Fluorescent .....	13,843	13,759	24,616	14,647	0.10	0.07	0.07	0.10	1.14	0.88	1.16	1.38
Compact Fluorescent .....	8,449	6,975	12,475	8,685	0.09	0.06	0.06	0.10	1.39	1.02	1.40	1.50
High Intensity Discharge .....	5,868	5,483	7,765	4,534	0.09	0.06	0.06	0.09	1.34	0.83	1.25	1.33
Halogen .....	5,246	4,700	8,179	4,887	0.09	0.06	0.06	0.09	1.46	1.01	1.32	1.50
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 .....	13,006	12,700	23,481	13,170	0.10	0.07	0.07	0.10	1.20	0.90	1.23	1.47
Commercial Refrigeration .....	8,341	7,605	15,318	7,318	0.09	0.06	0.06	0.09	1.40	1.07	1.59	1.80
Walk-In Units .....	6,819	5,922	12,980	6,049	0.09	0.06	0.06	0.09	1.53	1.14	1.74	1.93
Cases or Cabinets .....	6,839	5,717	12,538	6,241	0.09	0.06	0.07	0.09	1.52	1.15	1.64	1.90
Residential-Type Units .....	8,440	8,767	14,274	8,455	0.10	0.07	0.07	0.10	1.02	0.81	1.08	1.27
Vending Machines .....	8,631	8,400	16,462	8,550	0.09	0.06	0.06	0.09	1.32	0.89	1.22	1.46
No Refrigeration .....	1,256	1,472	2,059	1,887	0.12	0.06	0.08	0.11	0.64	0.56	0.56	0.91
<b>Office Equipment (more than one may apply)</b>												
Computers .....	13,446	12,982	23,341	14,242	0.10	0.07	0.07	0.10	1.17	0.90	1.18	1.43
With Flat Screen Monitors .....	8,588	6,381	12,181	7,835	0.09	0.06	0.06	0.10	1.43	1.01	1.33	1.59
Dedicated Servers .....	10,454	9,056	15,375	10,055	0.09	0.06	0.06	0.10	1.28	0.98	1.22	1.60
Laser Printers .....	7,450	7,000	12,900	8,681	0.10	0.07	0.07	0.10	1.05	0.83	1.12	1.47
Inkjet Printers .....	8,773	8,028	14,537	8,582	0.09	0.06	0.06	0.10	1.37	0.97	1.27	1.43
FAX Machines .....	13,137	12,080	22,367	13,345	0.10	0.07	0.07	0.10	1.18	0.91	1.19	1.46
Photocopiers .....	11,694	10,371	18,560	11,784	0.09	0.06	0.07	0.10	1.18	0.87	1.14	1.44
<b>Number of Computers</b>												
None .....	816	1,190	2,200	815	0.12	0.07	0.08	0.11	0.63	0.52	0.72	0.78
1 to 4 .....	1,926	3,029	5,576	2,386	0.12	0.07	0.08	0.11	0.93	0.81	1.26	1.11
5 to 9 .....	1,115	1,625	2,294	1,572	0.11	0.07	0.08	0.09	0.70	0.84	0.90	1.43
10 to 19 .....	1,300	1,562	2,186	1,693	0.10	0.07	0.07	0.11	0.98	0.92	0.91	1.42
20 to 49 .....	1,861	1,666	3,105	2,690	0.09	0.07	0.06	0.11	1.24	0.86	1.28	1.73
50 to 99 .....	1,024	975	2,288	1,376	0.10	0.06	0.06	0.10	Q	0.93	1.09	1.29
100 to 249 .....	1,640	1,573	2,752	1,710	0.09	0.06	0.06	0.09	1.30	0.85	1.22	1.30
250 or More .....	4,580	2,551	5,140	2,814	0.09	0.06	0.06	0.09	1.77	1.15	1.44	1.76
<b>Number of Dedicated Servers</b>												
None .....	3,808	5,116	10,165	5,002	0.11	0.07	0.08	0.10	0.82	0.69	1.00	1.06
1 to 4 .....	5,303	5,860	9,075	5,836	0.09	0.07	0.07	0.10	1.01	0.89	1.11	1.43
5 to 9 .....	1,268	1,021	1,915	1,404	0.09	0.06	0.06	0.12	1.39	1.06	1.46	2.09
10 to 19 .....	991	883	1,708	875	0.09	0.06	0.06	0.10	1.72	1.14	1.52	1.59
20 to 49 .....	Q	521	1,799	679	Q	0.06	0.06	0.09	Q	1.56	1.42	1.38
50 or More .....	2,207	771	879	Q	0.10	0.06	0.06	Q	2.42	1.26	1.19	Q
<b>Number of Photocopiers</b>												
None .....	2,568	3,800	6,980	3,273	0.12	0.07	0.08	0.10	0.88	0.78	1.08	1.15
One .....	2,624	3,209	5,066	3,199	0.09	0.07	0.07	0.10	0.87	0.76	0.93	1.16
2 to 4 .....	2,852	3,318	5,946	3,440	0.10	0.06	0.06	0.10	0.97	0.82	1.08	1.33
5 to 9 .....	2,016	1,244	2,332	1,546	0.09	0.06	0.06	0.11	1.33	0.89	1.31	1.90
10 or More .....	4,201	2,601	5,217	3,599	0.09	0.06	0.06	0.09	1.75	1.18	1.47	1.77

**Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003**

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					per kWh				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Energy-Related Space Functions (more than one may apply)</b>												
Commercial Food Preparation .....	6,275	5,913	11,757	5,826	0.09	0.06	0.07	0.09	1.25	1.01	1.49	1.68
Activities with Large Amounts of Hot Water .....	4,965	4,982	9,268	5,495	0.09	0.06	0.06	0.09	1.27	0.95	1.34	1.60
Separate Computer Area .....	8,286	6,100	11,405	7,516	0.09	0.06	0.06	0.09	1.40	0.94	1.21	1.48
<b>HVAC Conservation Features (more than one may apply)</b>												
Variable Air-Volume System .....	6,051	5,320	9,769	5,587	0.09	0.06	0.06	0.09	1.60	1.06	1.33	1.61
Economizer Cycle .....	7,496	6,479	9,250	6,438	0.09	0.06	0.06	0.09	1.81	1.10	1.39	1.45
HVAC Maintenance .....	13,086	11,958	21,800	13,577	0.10	0.06	0.07	0.10	1.18	0.91	1.24	1.45
Energy Management and Control System (EMCS) .....	4,893	3,545	7,501	4,512	0.09	0.06	0.06	0.09	1.63	0.93	1.29	1.49
<b>Window and Interior Lighting Features (more than one may apply)</b>												
Multipaned Windows .....	10,709	11,096	14,728	7,250	0.10	0.07	0.06	0.09	1.15	0.95	1.20	1.31
Tinted Window Glass .....	7,034	6,946	14,565	8,621	0.09	0.06	0.07	0.10	1.42	0.96	1.23	1.54
Reflective Window Glass .....	2,767	2,275	4,234	2,026	0.10	0.06	0.06	0.09	1.67	1.05	1.41	1.20
External Overhangs or Awnings .....	3,544	4,181	8,637	5,436	0.10	0.06	0.07	0.10	1.33	0.99	1.28	1.53
Skylights or Atriums .....	3,178	2,872	4,362	3,595	0.09	0.06	0.06	0.09	1.10	0.88	1.11	1.47
Daylighting Sensors .....	Q	845	936	2,487	Q	0.06	0.06	0.10	Q	1.04	1.39	2.61
Specular Reflectors .....	7,792	7,099	10,254	6,947	0.09	0.06	0.06	0.10	1.34	0.92	1.30	1.48
Electronic Ballasts .....	11,540	11,566	19,990	12,741	0.09	0.06	0.07	0.10	1.24	0.92	1.21	1.49
Energy Management and Control System (EMCS) For Lighting .....	1,685	1,342	1,948	1,947	0.09	0.06	0.06	0.09	1.99	1.04	1.32	1.67
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>												
Heating .....	10,079	8,581	15,958	10,481	0.10	0.07	0.07	0.10	1.06	0.79	1.09	1.37
Cooling .....	10,034	8,738	17,611	11,169	0.10	0.07	0.07	0.10	1.14	0.84	1.09	1.43
Lighting .....	8,314	10,806	17,810	9,881	0.10	0.07	0.07	0.10	0.95	0.84	1.04	1.19
Office Equipment .....	3,575	3,837	6,296	3,759	0.10	0.07	0.08	0.10	0.84	0.71	0.98	1.14
<b>Annual Consumption (kilowatthours)</b>												
10,000 or Less .....	111	109	144	113	0.14	0.11	0.12	0.14	0.15	0.12	0.20	0.25
10,001 to 50,000 .....	873	1,108	1,621	1,066	0.14	0.09	0.10	0.12	0.49	0.49	0.48	0.60
50,001 to 100,000 .....	1,130	885	1,867	1,173	0.12	0.08	0.09	0.12	0.73	0.60	0.76	1.17
100,001 to 500,000 .....	2,936	4,502	6,472	4,143	0.11	0.08	0.08	0.10	1.01	0.94	1.20	1.38
500,001 to 1,000,000 .....	1,301	1,397	3,448	1,589	0.10	0.07	0.07	0.11	1.01	0.78	1.24	1.79
1,000,001 to 5,000,000 .....	3,983	3,922	6,703	3,928	0.09	0.06	0.06	0.09	1.55	1.12	1.43	1.61
Over 5,000,000 .....	3,928	2,248	5,286	3,046	0.08	0.05	0.06	0.09	2.02	1.17	1.58	2.05

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**Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003**

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					per kWh				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Provider of Purchased Electricity (more than one may apply)</b>												
Local Utility .....	11,785	12,978	22,643	14,070	0.10	0.07	0.07	0.10	1.06	0.83	1.10	1.34
Some Other Provider .....	2,841	1,086	2,412	Q	0.09	0.07	0.07	Q	1.63	1.04	1.35	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.



**Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1**

	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> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Building Floorspace (Square Feet)</b>									
1,001 to 5,000 .....	4	9	20	345	652	908	12.7	13.8	22.0
5,001 to 10,000 .....	3	7	8	350	732	781	7.7	9.6	10.7
10,001 to 25,000 .....	Q	16	20	Q	1,390	1,934	Q	11.2	10.5
25,001 to 50,000 .....	Q	8	16	Q	944	1,534	Q	8.5	10.4
50,001 to 100,000 .....	Q	15	21	Q	1,524	1,618	Q	10.2	12.9
100,001 to 200,000 .....	Q	17	26	Q	1,703	1,671	Q	10.1	15.5
200,001 to 500,000 .....	Q	22	24	Q	1,673	1,801	Q	13.1	13.1
Over 500,000 .....	Q	22	18	Q	1,248	1,126	Q	17.3	16.4
<b>Principal Building Activity</b>									
Education .....	Q	12	16	Q	1,384	1,990	Q	8.4	7.9
Food Sales .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service .....	Q	Q	10	Q	Q	248	Q	Q	38.5
Health Care .....	Q	9	13	Q	464	551	Q	20.2	24.2
Inpatient .....	Q	8	9	Q	310	316	Q	24.8	27.9
Outpatient .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging .....	Q	Q	8	Q	Q	548	Q	Q	14.7
Retail (Other Than Mall).....	Q	5	7	Q	419	544	Q	10.9	12.3
Office .....	9	40	42	578	2,434	2,190	16.3	16.6	18.9
Public Assembly .....	Q	5	8	Q	769	635	Q	Q	12.3
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship .....	Q	1	3	Q	474	720	Q	3.2	4.3
Service .....	Q	5	9	Q	620	775	Q	7.5	12.0
Warehouse and Storage .....	Q	8	21	Q	1,070	1,931	Q	7.4	10.8
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 .....	3	8	6	444	945	994	6.0	Q	5.8
1920 to 1945 .....	3	14	Q	611	1,861	1,494	5.6	7.4	12.5
1946 to 1959 .....	Q	15	12	Q	1,734	1,444	Q	8.8	8.6
1960 to 1969 .....	Q	16	14	Q	1,393	1,380	17.4	11.4	10.2
1970 to 1979 .....	6	20	32	450	1,273	2,198	12.5	15.9	14.5
1980 to 1989 .....	Q	20	27	Q	1,109	1,459	Q	18.1	18.8
1990 to 1999 .....	Q	15	30	Q	1,130	1,606	Q	13.3	18.6
2000 to 2003 .....	Q	Q	13	Q	Q	799	Q	Q	16.6
<b>Climate Zone: 30-Year Average</b>									
Under 2,000 CDD and --									
More than 7,000 HDD .....	7	Q	32	Q	1,417	3,008	7.1	11.6	10.6
5,500-7,000 HDD .....	25	34	122	1,993	3,373	8,365	12.5	10.1	14.5
4,000-5,499 HDD .....	N	65	N	N	5,077	N	N	12.8	N
Fewer than 4,000 HDD .....	N	N	N	N	N	N	N	N	N
2,000 CDD or More and --									
Fewer than 4,000 HDD .....	N	N	N	N	N	N	N	N	N
<b>Number of Floors</b>									
One .....	7	31	54	522	2,564	3,774	13.9	12.2	14.3
Two .....	4	23	35	742	2,274	3,228	5.6	10.0	10.9
Three .....	4	11	22	755	1,310	1,805	5.2	8.5	12.1
Four to Nine .....	14	27	32	793	2,210	2,061	17.4	12.1	15.4
Ten or More .....	Q	24	11	Q	1,510	506	Q	15.8	20.8

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**Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1**

	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> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Elevators and Escalators (more than one may apply)</b>									
Any Elevators .....	19	67	76	1,375	4,744	4,967	13.7	14.2	15.4
Number of Elevators									
One .....	Q	12	26	Q	1,068	2,149	Q	11.1	12.1
Two to Five .....	Q	28	32	723	2,248	2,051	14.1	12.4	15.7
Six or More .....	Q	28	18	Q	1,428	766	Q	19.5	23.7
Any Escalators .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Number of Workers (main shift)</b>									
Fewer than 5 .....	3	8	27	754	1,525	2,973	4.6	5.3	8.9
5 to 9 .....	3	6	12	401	684	866	7.0	8.9	13.3
10 to 19 .....	Q	10	14	Q	1,463	1,214	Q	Q	11.8
20 to 49 .....	Q	17	25	Q	1,964	1,980	Q	8.8	12.6
50 to 99 .....	Q	17	20	Q	1,110	1,570	Q	15.3	13.0
100 to 249 .....	Q	15	22	Q	1,034	1,212	Q	14.7	18.1
250 or More .....	Q	42	34	Q	2,087	1,558	Q	20.3	21.6
<b>Weekly Operating Hours</b>									
Fewer than 40 .....	Q	2	4	Q	665	1,427	Q	3.5	3.1
40 to 48 .....	3	10	22	431	1,672	1,742	6.7	6.2	12.6
49 to 60 .....	7	21	39	837	2,261	3,322	7.8	9.2	11.9
61 to 84 .....	5	17	21	494	1,554	1,737	9.5	10.7	12.4
85 to 167 .....	Q	20	32	Q	1,078	1,450	Q	18.7	22.1
Open Continuously .....	13	45	34	742	2,638	1,695	17.9	17.2	20.1
<b>Ownership and Occupancy</b>									
Nongovernment Owned .....	26	97	106	2,260	8,032	7,793	11.7	12.1	13.7
Owner Occupied .....	17	49	53	1,587	4,317	3,715	10.9	11.3	14.2
Nonowner Occupied .....	9	48	53	646	3,493	3,520	14.2	13.7	15.1
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	5	19	47	682	1,835	3,580	7.6	10.2	13.1
Federal .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
State .....	Q	Q	9	Q	Q	536	Q	Q	15.9
Local .....	Q	13	21	Q	1,360	2,199	Q	9.5	9.4
<b>Vacancy Status</b>									
Completely Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	11	29	31	1,022	2,073	2,251	10.3	14.1	13.9
Not At All Vacant .....	21	86	121	1,781	7,447	8,436	11.8	11.5	14.4
<b>Number of Establishments</b>									
One .....	20	72	117	1,761	6,235	8,199	11.1	11.5	14.3
2 to 5 .....	6	23	24	615	1,901	1,833	9.1	11.8	13.2
6 to 10 .....	Q	5	Q	Q	411	Q	Q	11.4	Q
11 to 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q

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**Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1**

	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> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Predominant Exterior Wall Material</b>									
Brick, Stone or Stucco .....	17	58	95	1,541	5,657	7,033	11.0	10.3	13.5
Concrete (Block or Poured) .....	Q	23	22	Q	1,890	1,875	Q	12.2	11.8
Concrete Panels .....	Q	Q	14	Q	Q	855	Q	Q	16.6
Siding or Shingles .....	4	3	5	764	415	425	5.6	8.0	10.6
Metal Panels .....	Q	13	8	Q	848	618	Q	15.4	12.4
Window Glass .....	Q	Q	Q	Q	Q	Q	Q	Q	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>Predominant Roof Material</b>									
Built-Up .....	5	41	52	704	3,321	3,812	6.9	12.4	13.6
Shingles (Not Wood) .....	5	18	21	668	1,326	2,002	7.6	13.7	10.6
Metal Surfacing .....	Q	8	13	Q	763	997	Q	11.0	13.3
Synthetic or Rubber .....	18	42	50	1,018	3,097	3,450	18.1	13.6	14.3
Slate or Tile .....	Q	3	2	Q	398	236	Q	6.5	10.2
Wooden Materials .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete .....	Q	Q	Q	Q	Q	Q	Q	Q	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>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
Any Type of Renovation									
Since 1980 .....	12	46	43	1,445	3,645	3,416	8.6	12.6	12.5
Addition or Annex .....	Q	16	18	Q	1,395	1,243	Q	11.5	14.3
Reduction In Floorspace .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements .....	9	39	33	943	2,996	2,354	9.9	12.9	14.0
Wall or Roof Replacement .....	6	21	18	720	1,955	1,365	8.7	10.9	13.3
Interior Wall									
Re-Configuration .....	7	20	26	639	1,836	1,709	10.8	10.9	14.9
HVAC Equipment Upgrade .....	8	32	28	739	2,287	2,136	10.6	14.1	13.3
Lighting Upgrade .....	9	32	26	853	2,497	1,985	10.9	12.9	12.9
Window Replacement .....	6	20	15	688	2,061	1,264	9.2	9.8	11.8
Plumbing System Upgrade .....	7	19	16	633	1,878	1,177	10.8	10.3	13.7
Insulation Upgrade .....	Q	12	9	356	1,014	700	Q	11.8	12.5
Other Renovation .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980 .....	7	27	40	752	3,561	4,094	9.0	7.6	9.9
Building Newer than 1980 .....	Q	43	71	744	2,661	3,863	16.9	16.0	18.3
<b>Energy Sources (more than one may apply)</b>									
Electricity .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
Natural Gas .....	21	93	125	1,465	7,716	9,568	14.4	12.1	13.1
Fuel Oil .....	15	56	36	1,577	4,502	1,856	9.3	12.4	19.4
District Heat .....	Q	17	25	Q	1,082	1,420	Q	15.7	17.7
District Chilled Water .....	Q	10	12	Q	583	569	Q	16.8	21.4
Propane .....	6	7	Q	850	505	Q	6.7	12.9	17.3
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q

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**Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1**

	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> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Space-Heating Energy Sources</b>									
Electricity .....	16	50	58	1,132	3,273	3,895	14.6	15.1	14.9
Electricity Main .....	Q	18	30	Q	1,127	1,487	Q	16.3	20.3
Electricity Secondary .....	Q	31	28	1,006	2,146	2,408	13.5	14.5	11.6
Other Excluding Electricity .....	15	66	94	1,687	6,504	7,302	8.7	10.1	12.9
Buildings without Heating .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Primary Space-Heating Energy Source</b>									
Electricity .....	Q	18	30	Q	1,127	1,487	Q	16.3	20.3
Natural Gas .....	14	71	95	1,061	5,377	8,228	13.5	13.1	11.6
Fuel Oil .....	8	9	Q	1,161	2,089	Q	6.7	Q	Q
District Heat .....	Q	15	25	Q	970	1,319	Q	16.0	18.8
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling Energy Sources</b>									
Electricity .....	27	103	131	1,946	8,456	9,157	13.9	12.2	14.3
Other Excluding Electricity .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings without Cooling .....	4	3	Q	920	935	1,598	3.8	3.3	7.7
<b>Water-Heating Energy Sources</b>									
Electricity .....	15	42	57	1,439	3,686	4,086	10.6	11.4	13.9
Other Excluding Electricity .....	16	70	84	1,285	5,379	6,106	12.1	13.1	13.7
Bldgs without Water Heating .....	Q	3	Q	Q	803	Q	Q	4.1	10.7
<b>Cooking Energy Sources</b>									
Electricity .....	7	32	46	537	1,958	2,934	12.5	16.3	15.8
Other Excluding Electricity .....	4	27	23	401	2,120	1,444	9.6	Q	15.7
Buildings without Cooking .....	21	57	84	2,003	5,789	6,995	10.5	9.9	12.1
<b>Energy End Uses (more than one may apply)</b>									
Buildings with Space Heating .....	31	115	152	2,819	9,778	11,197	11.1	11.8	13.6
Buildings with Cooling .....	28	113	141	2,021	8,932	9,775	13.9	12.6	14.4
Buildings with Water Heating .....	31	112	141	2,724	9,065	10,193	11.3	12.4	13.8
Buildings with Cooking .....	11	59	69	938	4,078	4,378	11.3	14.4	15.8
Buildings with Manufacturing .....	Q	11	8	Q	679	489	Q	16.2	16.4
Buildings with Electricity Generation .....	9	51	52	567	2,678	2,558	16.2	19.1	20.4
<b>Percent of Floorspace Heated</b>									
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	Q	4	Q	Q	899	759	Q	4.7	9.0
51 to 99 .....	3	12	15	418	1,120	1,214	8.2	10.4	12.2
100 .....	26	99	130	1,913	7,758	9,225	13.7	12.8	14.1
<b>Percent of Floorspace Cooled</b>									
Not Cooled .....	4	3	Q	920	935	1,598	3.8	3.3	7.7
1 to 50 .....	6	22	25	922	3,349	3,171	6.6	6.6	7.8
51 to 99 .....	11	38	39	550	2,551	2,436	19.4	15.0	16.0
100 .....	11	52	77	550	3,033	4,169	20.7	17.2	18.6

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**Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1**

	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> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Percent Lit When Open</b>									
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	3	8	10	953	1,796	1,575	3.3	4.5	6.5
51 to 99 .....	11	39	47	1,070	2,529	3,641	9.9	15.3	12.8
100 .....	18	68	95	830	5,221	5,418	21.5	13.1	17.6
Building Never Open/ Electricity Not Used .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Percent Lit When Closed</b>									
Zero .....	4	16	34	721	2,086	3,237	5.7	7.5	10.5
1 to 50 .....	13	49	76	1,400	4,880	6,101	9.5	10.1	12.5
51 to 100 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Building Never Closed/ Electricity Not Used .....	13	45	34	742	2,638	1,695	17.9	17.2	20.1
<b>Heating Equipment (more than one may apply)</b>									
Heat Pumps .....	Q	21	12	Q	1,019	719	Q	20.5	16.3
Packaged Heat Pumps .....	Q	16	9	Q	656	541	Q	24.1	16.8
Split-System Heat Pumps .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Furnaces .....	9	24	50	990	2,606	4,561	8.8	9.3	10.9
Individual Space Heaters .....	11	25	30	1,011	1,775	2,544	10.5	13.9	11.7
District Heat .....	Q	15	25	Q	1,000	1,420	Q	15.5	17.7
Boilers .....	16	55	56	1,465	4,763	4,466	11.0	11.5	12.4
Packaged Heating Units .....	15	36	45	615	2,297	2,531	23.8	15.5	17.6
Other .....	Q	Q	7	Q	Q	419	Q	Q	17.1
<b>Cooling Equipment (more than one may apply)</b>									
Residential-Type Central									
Air Conditioners .....	Q	17	27	Q	2,100	2,040	Q	8.1	13.2
Heat Pumps .....	Q	21	12	Q	1,008	746	Q	20.4	15.8
Packaged Heat Pumps .....	Q	15	9	Q	646	563	Q	23.9	16.3
Split-System Heat Pumps .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Air Conditioners .....	8	22	23	925	2,762	2,199	9.1	8.0	10.3
District Chilled Water .....	Q	10	12	Q	583	569	Q	16.8	21.4
Central Chillers .....	6	31	41	383	1,469	2,074	16.6	21.1	19.7
Packaged Air Conditioning									
Units .....	18	65	82	872	5,128	5,505	20.5	12.6	15.0
Swamp Coolers .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
Heating .....	9	33	41	1,013	2,961	3,271	8.4	11.3	12.4
Cooling .....	14	52	52	1,100	4,353	3,700	12.7	12.0	14.1
<b>Water Heating Equipment</b>									
Centralized System .....	18	76	95	1,839	5,930	6,680	9.7	12.8	14.2
Distributed System .....	Q	18	19	Q	1,815	1,750	Q	9.7	10.9
Combination of Centralized and Distributed System .....	Q	19	27	Q	1,319	1,763	Q	14.4	15.1

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**Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1**

	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> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Lighting Equipment Types (more than one may apply)</b>									
Incandescent .....	24	72	101	1,996	6,105	7,211	12.1	11.8	13.9
Standard Fluorescent .....	31	113	150	2,724	9,435	10,701	11.4	11.9	14.0
Compact Fluorescent .....	22	68	78	1,474	4,616	4,845	14.8	14.7	16.1
High Intensity Discharge .....	16	49	72	1,021	3,358	5,104	15.3	14.5	14.1
Halogen .....	14	42	52	769	2,812	3,259	18.3	15.0	16.0
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
Any Refrigeration.....	30	107	136	2,474	8,367	9,538	12.0	12.8	14.2
Commercial Refrigeration .....	20	70	89	1,107	4,830	5,286	17.8	14.5	16.9
Walk-In Units .....	17	56	70	889	3,563	3,860	19.2	15.8	18.0
Cases or Cabinets .....	18	58	67	849	3,656	3,702	20.9	15.8	18.1
Residential-Type Units .....	20	67	92	2,037	6,251	7,247	10.0	10.8	12.7
Vending Machines .....	23	73	98	1,569	4,990	6,583	14.7	14.7	14.8
No Refrigeration .....	2	9	Q	467	1,500	1,835	4.3	5.9	9.8
<b>Office Equipment (more than one may apply)</b>									
Computers .....	30	110	141	2,521	8,996	9,882	12.1	12.3	14.3
With Flat Screen Monitors .....	19	73	74	1,156	4,839	4,584	16.6	15.2	16.2
Dedicated Servers .....	24	89	99	1,656	6,486	6,456	14.4	13.7	15.4
Laser Printers .....	15	61	72	1,569	5,526	5,678	9.4	11.1	12.8
Inkjet Printers .....	19	77	86	1,204	5,211	5,817	15.6	14.7	14.7
FAX Machines .....	29	109	129	2,367	8,806	9,138	12.1	12.4	14.1
Photocopiers .....	25	100	114	1,869	8,024	8,273	13.6	12.5	13.8
<b>Number of Computers</b>									
None .....	1	6	12	Q	871	1,491	2.9	6.4	8.2
1 to 4 .....	6	11	32	570	1,511	2,536	10.1	7.1	12.5
5 to 9 .....	Q	8	13	Q	1,087	1,112	Q	7.4	11.7
10 to 19 .....	Q	10	14	Q	992	1,069	Q	10.6	13.4
20 to 49 .....	Q	16	14	Q	1,182	1,196	Q	13.6	12.1
50 to 99 .....	Q	8	11	Q	1,018	744	Q	Q	14.8
100 to 249 .....	Q	15	18	Q	1,054	1,221	Q	14.0	14.7
250 or More .....	Q	42	39	439	2,151	2,005	21.4	19.6	19.3
<b>Number of Dedicated Servers</b>									
None .....	8	27	54	1,285	3,381	4,917	6.1	7.9	11.0
1 to 4 .....	12	45	55	1,028	4,219	4,202	11.9	10.7	13.0
5 to 9 .....	Q	12	12	Q	604	754	Q	19.4	16.2
10 to 19 .....	Q	Q	12	Q	Q	647	Q	Q	18.6
20 to 49 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
50 or More .....	Q	19	12	Q	815	Q	Q	23.1	21.0
<b>Number of Photocopiers</b>									
None .....	6	15	40	1,072	1,843	3,100	5.9	8.3	12.8
One .....	6	22	27	683	2,344	2,620	8.8	9.4	10.3
2 to 4 .....	8	21	35	643	2,302	2,745	12.9	8.9	12.9
5 to 9 .....	Q	16	15	Q	1,250	1,013	Q	13.2	14.6
10 or More .....	Q	41	36	Q	2,128	1,894	Q	19.5	19.2

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**Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1**

	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> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Energy-Related Space Functions (more than one may apply)</b>									
Commercial Food Preparation .....	11	59	69	938	4,078	4,378	11.3	14.4	15.8
Activities with Large Amounts of Hot Water .....	15	40	56	995	2,927	3,546	15.2	13.5	15.7
Separate Computer Area .....	17	75	73	1,045	4,880	4,759	16.6	15.4	15.3
<b>HVAC Conservation Features (more than one may apply)</b>									
Variable Air-Volume System .....	Q	54	64	592	3,188	3,660	22.5	16.9	17.4
Economizer Cycle .....	17	65	79	824	3,317	4,350	20.3	19.6	18.2
HVAC Maintenance .....	29	109	140	2,311	8,736	9,415	12.5	12.4	14.9
Energy Management and Control System (EMCS) .....	8	45	42	429	2,573	2,835	19.0	17.4	14.7
<b>Window and Interior Lighting Features (more than one may apply)</b>									
Multipaned Windows .....	27	85	120	2,292	6,983	7,925	11.8	12.2	15.2
Tinted Window Glass .....	16	61	86	803	4,141	5,307	20.1	14.8	16.2
Reflective Window Glass .....	Q	23	26	Q	1,436	1,454	Q	15.9	17.9
External Overhangs or Awnings .....	8	28	42	577	2,096	2,522	13.0	13.5	16.7
Skylights or Atriums .....	5	30	34	476	2,416	2,322	10.3	12.2	14.6
Daylighting Sensors .....	Q	Q	11	Q	Q	608	Q	Q	17.7
Specular Reflectors .....	19	65	89	1,390	4,444	5,813	13.5	14.7	15.4
Electronic Ballasts .....	28	94	128	2,162	7,125	8,623	12.9	13.2	14.8
Energy Management and Control System (EMCS) For Lighting .....	Q	17	17	Q	758	988	Q	21.9	17.2
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
Heating .....	17	87	88	1,768	7,751	7,580	9.5	11.2	11.7
Cooling .....	17	86	91	1,456	7,356	7,132	11.5	11.7	12.8
Lighting .....	18	63	117	2,067	6,639	8,846	8.8	9.5	13.2
Office Equipment .....	6	28	42	847	3,422	3,645	7.2	8.3	11.4
<b>Annual Consumption (kilowatthours)</b>									
10,000 or Less .....	Q	0	0	Q	Q	Q	Q	1.1	0.9
10,001 to 50,000 .....	2	4	7	638	1,162	1,273	3.2	3.8	5.2
50,001 to 100,000 .....	Q	7	6	Q	1,319	886	Q	5.3	7.1
100,001 to 500,000 .....	7	19	40	606	2,304	3,293	10.9	8.3	12.1
500,001 to 1,000,000 .....	Q	10	14	Q	967	1,107	Q	10.1	12.2
1,000,001 to 5,000,000 .....	10	35	48	672	1,899	2,564	15.4	18.5	18.9
Over 5,000,000 .....	Q	40	38	Q	1,770	1,751	Q	22.5	21.8

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**Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1**

	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> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Provider of Purchased Electricity (more than one may apply)</b>									
Local Utility .....	24	96	139	2,399	8,760	10,536	10.1	11.0	13.2
Some Other Provider .....	9	22	13	589	1,151	789	14.7	19.5	15.9

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.



**Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2**

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Building Floorspace (Square Feet)</b>									
1,001 to 5,000 .....	10	26	7	821	1,157	472	12.4	22.9	15.5
5,001 to 10,000 .....	7	18	4	666	1,308	359	10.7	13.9	12.0
10,001 to 25,000 .....	8	27	11	1,164	2,207	791	7.3	12.2	14.2
25,001 to 50,000 .....	15	24	5	949	1,672	442	16.1	14.4	10.9
50,001 to 100,000 .....	8	25	10	642	1,470	650	12.8	16.7	14.8
100,001 to 200,000 .....	8	39	Q	614	2,087	Q	12.3	18.9	Q
200,001 to 500,000 .....	Q	22	Q	Q	1,072	Q	Q	20.4	Q
Over 500,000 .....	Q	29	Q	Q	1,123	Q	Q	25.6	Q
<b>Principal Building Activity</b>									
Education .....	5	39	Q	549	2,445	Q	8.8	16.0	Q
Food Sales .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service .....	Q	20	Q	Q	433	Q	Q	45.7	Q
Health Care .....	5	17	5	247	749	219	20.8	23.4	24.2
Inpatient .....	Q	15	Q	Q	469	Q	Q	31.3	Q
Outpatient .....	Q	3	Q	Q	280	Q	Q	10.1	Q
Lodging .....	7	17	Q	595	939	Q	11.3	18.0	Q
Retail (Other Than Mall).....	6	16	4	337	897	353	17.3	17.7	11.9
Office .....	12	35	9	799	1,958	481	14.9	18.0	18.8
Public Assembly .....	Q	9	Q	Q	440	Q	Q	20.4	Q
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship .....	2	5	Q	395	721	Q	3.9	6.4	Q
Service .....	4	Q	Q	484	753	Q	9.0	16.9	Q
Warehouse and Storage .....	6	16	Q	918	1,733	Q	6.9	9.1	Q
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 .....	3	Q	Q	541	Q	Q	4.8	8.9	Q
1920 to 1945 .....	4	5	Q	459	630	Q	9.6	8.2	Q
1946 to 1959 .....	4	16	Q	561	1,074	Q	7.7	14.4	Q
1960 to 1969 .....	8	19	6	844	1,379	449	10.0	14.0	14.0
1970 to 1979 .....	15	30	12	1,039	1,423	784	14.3	21.1	15.3
1980 to 1989 .....	8	45	9	457	2,373	423	16.5	19.1	21.8
1990 to 1999 .....	15	66	10	1,032	3,620	693	14.3	18.2	14.8
2000 to 2003 .....	6	26	Q	394	1,258	Q	14.0	20.9	Q
<b>Climate Zone: 30-Year Average</b>									
Under 2,000 CDD and --									
More than 7,000 HDD .....	31	N	N	2,479	N	N	12.4	N	N
5,500-7,000 HDD .....	Q	N	N	Q	N	N	9.6	N	N
4,000-5,499 HDD .....	19	48	Q	1,558	2,613	Q	12.4	18.2	19.0
Fewer than 4,000 HDD .....	N	107	Q	N	6,293	Q	N	17.0	12.6
2,000 CDD or More and --									
Fewer than 4,000 HDD .....	N	56	Q	N	3,190	Q	N	17.6	19.6
<b>Number of Floors</b>									
One .....	26	81	20	2,099	5,612	1,489	12.5	14.5	13.7
Two .....	21	47	14	1,902	2,680	864	11.1	17.6	16.1
Three .....	7	17	5	699	1,043	421	10.1	15.9	12.4
Four to Nine .....	7	48	8	579	2,003	355	12.5	24.1	22.6
Ten or More .....	Q	17	Q	Q	759	Q	Q	22.4	Q

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**Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2**

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Elevators and Escalators (more than one may apply)</b>									
Any Elevators .....	22	101	18	1,627	4,612	923	13.6	21.8	19.9
Number of Elevators									
One .....	11	23	6	860	1,475	369	12.7	15.4	17.2
Two to Five .....	9	43	Q	644	1,900	Q	13.5	22.8	Q
Six or More .....	Q	35	Q	Q	1,237	Q	Q	28.1	Q
Any Escalators .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Number of Workers (main shift)</b>									
Fewer than 5 .....	10	23	7	1,606	2,375	933	6.2	9.7	7.7
5 to 9 .....	8	14	7	598	1,264	476	12.7	11.3	15.7
10 to 19 .....	8	21	5	867	1,392	350	9.5	15.0	14.5
20 to 49 .....	13	31	14	876	1,773	701	14.4	17.5	19.7
50 to 99 .....	12	27	Q	742	1,611	Q	16.3	16.9	Q
100 to 249 .....	Q	42	Q	Q	1,737	Q	Q	24.0	Q
250 or More .....	5	52	6	242	1,943	211	19.3	26.8	26.9
<b>Weekly Operating Hours</b>									
Fewer than 40 .....	3	7	2	619	1,134	308	4.3	6.0	5.6
40 to 48 .....	9	24	11	1,001	2,107	770	9.1	11.2	13.8
49 to 60 .....	13	37	Q	1,273	3,071	610	10.0	11.9	12.7
61 to 84 .....	11	37	10	837	1,926	593	13.1	19.1	17.3
85 to 167 .....	10	40	Q	558	1,370	Q	17.9	28.8	Q
Open Continuously .....	17	67	16	1,040	2,488	769	16.3	26.9	20.4
<b>Ownership and Occupancy</b>									
Nongovernment Owned .....	52	148	35	4,314	8,895	2,308	12.0	16.6	15.3
Owner Occupied .....	28	71	14	2,416	4,141	962	11.5	17.2	14.5
Nonowner Occupied .....	24	76	21	1,846	4,572	1,335	12.9	16.7	16.0
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	11	62	15	1,014	3,202	912	10.5	19.5	16.1
Federal .....	Q	Q	Q	Q	Q	Q	Q	29.3	Q
State .....	Q	14	8	Q	726	485	Q	19.6	17.5
Local .....	7	36	5	710	2,071	369	10.0	17.5	13.4
<b>Vacancy Status</b>									
Completely Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant .....	Q	Q	N	Q	Q	N	Q	Q	N
Partially Vacant .....	9	27	5	854	1,939	358	11.0	14.1	12.7
Not At All Vacant .....	52	182	45	4,329	9,961	2,851	12.1	18.3	15.9
<b>Number of Establishments</b>									
One .....	45	151	37	3,936	8,797	2,587	11.5	17.2	14.5
2 to 5 .....	12	37	8	970	2,139	385	12.2	17.2	20.3
6 to 10 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q

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**Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2**

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Predominant Exterior Wall Material</b>									
Brick, Stone or Stucco .....	26	99	26	2,078	6,021	1,746	12.3	16.5	15.0
Concrete (Block or Poured) .....	14	38	11	1,002	2,355	631	13.8	16.2	18.2
Concrete Panels .....	7	38	Q	375	1,416	Q	19.1	26.9	Q
Siding or Shingles .....	6	8	Q	638	638	Q	9.0	12.0	Q
Metal Panels .....	9	21	Q	1,150	1,345	530	8.0	15.5	Q
Window Glass .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	Q	Q	N	Q	Q	N	Q	Q	N
<b>Predominant Roof Material</b>									
Built-Up .....	20	72	15	1,338	4,119	762	14.8	17.6	19.7
Shingles (Not Wood) .....	10	26	9	1,116	1,864	638	9.2	14.0	13.8
Metal Surfacing .....	12	28	11	1,488	2,456	1,012	8.3	11.4	10.7
Synthetic or Rubber .....	16	60	13	990	2,449	638	16.1	24.4	20.3
Slate or Tile .....	Q	9	Q	Q	604	Q	Q	15.1	Q
Wooden Materials .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete .....	Q	Q	N	Q	Q	N	Q	Q	N
Other .....	Q	Q	N	Q	Q	N	Q	Q	N
No One Major Type .....	Q	Q	N	Q	Q	N	Q	Q	N
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
Any Type of Renovation									
Since 1980 .....	21	39	12	1,945	2,304	884	10.7	16.7	13.8
Addition or Annex .....	11	14	6	727	884	392	15.0	15.9	16.2
Reduction In Floorspace .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements .....	17	25	10	1,525	1,497	677	10.9	16.5	14.8
Wall or Roof Replacement .....	9	18	6	871	961	340	9.8	18.3	17.4
Interior Wall									
Re-Configuration .....	10	18	6	877	1,036	334	11.7	17.0	18.0
HVAC Equipment Upgrade .....	14	27	8	1,197	1,559	464	11.6	17.5	17.0
Lighting Upgrade .....	12	18	7	1,074	1,186	440	11.5	15.5	16.6
Window Replacement .....	6	8	Q	508	505	Q	11.7	15.0	Q
Plumbing System Upgrade .....	7	12	Q	721	782	Q	9.8	16.0	Q
Insulation Upgrade .....	6	7	Q	512	468	Q	10.9	15.6	Q
Other Renovation .....	N	Q	Q	N	Q	Q	N	Q	Q
No Renovations Since 1980 .....	14	34	12	1,500	2,542	885	9.2	13.5	14.1
Building Newer than 1980 .....	28	137	25	1,883	7,251	1,452	14.8	18.9	17.5
<b>Energy Sources (more than one may apply)</b>									
Electricity .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
Natural Gas .....	46	122	36	3,593	6,326	2,281	12.8	19.3	15.7
Fuel Oil .....	14	52	8	961	2,639	341	14.8	19.8	22.9
District Heat .....	Q	29	Q	Q	1,243	Q	Q	23.1	Q
District Chilled Water .....	Q	15	Q	Q	667	Q	Q	22.9	Q
Propane .....	10	26	Q	991	1,548	Q	9.9	16.7	8.5
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q

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**Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2**

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Space-Heating Energy Sources</b>									
Electricity .....	31	135	23	2,328	7,347	1,411	13.2	18.4	16.4
Electricity Main .....	16	86	15	1,058	4,968	791	15.0	17.3	19.0
Electricity Secondary .....	15	49	8	1,269	2,379	620	11.7	20.5	13.2
Other Excluding Electricity .....	31	66	26	2,778	3,662	1,645	11.3	18.0	15.7
Buildings without Heating .....	Q	9	Q	Q	1,087	Q	Q	8.5	Q
<b>Primary Space-Heating Energy Source</b>									
Electricity .....	16	86	15	1,058	4,968	791	15.0	17.3	19.0
Natural Gas .....	37	79	27	3,091	4,175	1,817	12.0	18.9	14.8
Fuel Oil .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Heat .....	Q	27	Q	Q	1,149	Q	Q	23.3	Q
Propane .....	Q	5	Q	496	456	Q	8.7	10.8	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling Energy Sources</b>									
Electricity .....	60	198	46	4,625	10,969	2,820	12.9	18.0	16.3
Other Excluding Electricity .....	Q	Q	Q	Q	505	Q	Q	22.0	Q
Buildings without Cooling .....	2	1	Q	634	623	Q	3.1	2.1	Q
<b>Water-Heating Energy Sources</b>									
Electricity .....	29	126	26	2,391	7,033	1,581	12.3	17.9	16.4
Other Excluding Electricity .....	30	77	22	2,329	3,681	1,277	12.8	20.9	17.3
Bldgs without Water Heating .....	Q	8	Q	608	1,383	363	5.6	5.5	5.3
<b>Cooking Energy Sources</b>									
Electricity .....	14	62	13	850	2,611	665	16.0	23.6	19.1
Other Excluding Electricity .....	9	37	7	622	1,587	390	15.2	23.1	18.2
Buildings without Cooking .....	39	112	30	3,856	7,899	2,165	10.2	14.2	14.0
<b>Energy End Uses (more than one may apply)</b>									
Buildings with Space Heating .....	62	201	49	5,106	11,009	3,056	12.2	18.3	16.0
Buildings with Cooling .....	60	209	49	4,694	11,474	2,985	12.9	18.2	16.5
Buildings with Water Heating .....	59	203	48	4,720	10,714	2,858	12.5	18.9	16.8
Buildings with Cooking .....	23	98	20	1,472	4,198	1,055	15.6	23.4	18.7
Buildings with Manufacturing .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation .....	14	52	8	760	2,396	324	18.4	21.7	24.9
<b>Percent of Floorspace Heated</b>									
Not Heated .....	Q	9	Q	Q	1,087	Q	Q	8.5	Q
1 to 50 .....	2	15	Q	356	1,105	353	6.8	13.7	10.8
51 to 99 .....	7	30	6	513	1,864	309	12.8	15.9	20.7
100 .....	53	156	39	4,236	8,041	2,394	12.5	19.4	16.2
<b>Percent of Floorspace Cooled</b>									
Not Cooled .....	2	1	Q	634	623	Q	3.1	2.1	Q
1 to 50 .....	13	25	Q	1,571	2,418	472	8.0	10.2	9.2
51 to 99 .....	19	46	9	1,325	2,624	459	14.4	17.4	19.0
100 .....	29	139	36	1,797	6,431	2,054	16.0	21.5	17.7

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**Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2**

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Percent Lit When Open</b>									
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	7	10	4	1,178	1,313	505	6.1	7.8	8.2
51 to 99 .....	18	58	14	1,658	3,293	913	11.2	17.7	15.5
100 .....	36	141	32	2,362	7,210	1,730	15.4	19.5	18.3
Building Never Open/ Electricity Not Used .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Percent Lit When Closed</b>									
Zero .....	15	37	5	1,936	3,431	623	8.0	10.9	8.8
1 to 50 .....	27	93	26	2,192	5,687	1,682	12.3	16.4	15.5
51 to 100 .....	Q	13	Q	Q	491	Q	Q	26.4	Q
Building Never Closed/ Electricity Not Used .....	17	67	16	1,040	2,488	769	16.3	26.9	20.4
<b>Heating Equipment (more than one may apply)</b>									
Heat Pumps .....	4	64	9	339	3,677	542	12.9	17.5	16.8
Packaged Heat Pumps .....	Q	45	Q	Q	2,145	Q	Q	20.8	Q
Split-System Heat Pumps .....	Q	23	Q	Q	1,459	Q	Q	15.7	Q
Individual Room Heat Pumps .....	Q	16	Q	Q	1,039	Q	Q	15.3	Q
Furnaces .....	32	34	9	2,657	2,772	895	12.0	12.4	10.3
Individual Space Heaters .....	20	38	7	1,625	2,148	563	12.3	17.9	12.6
District Heat .....	Q	27	Q	Q	1,173	Q	Q	23.3	Q
Boilers .....	19	47	18	1,675	2,135	786	11.2	21.9	22.6
Packaged Heating Units .....	17	78	20	1,135	3,917	1,215	15.0	20.0	16.4
Other .....	7	12	Q	383	902	Q	17.0	13.8	Q
<b>Cooling Equipment (more than one may apply)</b>									
Residential-Type Central									
Air Conditioners .....	18	32	6	1,568	1,843	489	11.5	17.4	12.1
Heat Pumps .....	4	67	11	317	3,742	586	12.5	18.0	18.6
Packaged Heat Pumps .....	Q	43	Q	Q	2,104	Q	Q	20.6	19.2
Split-System Heat Pumps .....	Q	24	Q	Q	1,494	Q	Q	16.2	Q
Individual Room Heat Pumps .....	Q	18	Q	Q	1,079	Q	Q	17.1	Q
Individual Air Conditioners .....	13	35	7	1,289	2,218	610	9.7	15.7	11.5
District Chilled Water .....	Q	15	Q	Q	667	Q	Q	22.9	Q
Central Chillers .....	11	63	13	768	2,489	594	14.8	25.1	21.2
Packaged Air Conditioning									
Units .....	39	96	26	2,581	5,520	1,555	15.1	17.4	16.7
Swamp Coolers .....	N	Q	Q	N	Q	Q	N	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
Heating .....	21	34	12	1,754	2,250	886	11.8	14.9	13.6
Cooling .....	22	49	17	2,052	3,111	1,059	10.7	15.6	16.0
<b>Water Heating Equipment</b>									
Centralized System .....	38	106	32	3,029	5,649	1,890	12.4	18.7	16.7
Distributed System .....	10	38	7	920	2,432	469	10.5	15.8	14.1
Combination of Centralized and Distributed System .....	12	58	10	771	2,633	499	15.3	22.2	19.7

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**Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2**

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Lighting Equipment Types (more than one may apply)</b>									
Incandescent .....	45	138	32	3,762	7,028	1,984	12.1	19.6	16.2
Standard Fluorescent .....	61	203	49	5,006	11,245	3,022	12.2	18.0	16.1
Compact Fluorescent .....	31	114	26	1,983	4,856	1,262	15.7	23.4	20.8
High Intensity Discharge .....	19	84	13	1,515	4,053	706	12.8	20.7	18.2
Halogen .....	22	83	12	1,402	3,474	620	15.7	24.0	19.0
Other .....	N	Q	Q	N	Q	Q	N	Q	Q
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
Any Refrigeration.....	57	198	47	4,544	10,256	2,829	12.5	19.3	16.7
Commercial Refrigeration .....	29	137	27	1,835	5,426	1,145	15.8	25.2	23.2
Walk-In Units .....	24	121	23	1,341	4,324	862	17.6	27.9	27.1
Cases or Cabinets .....	22	106	23	1,276	4,246	993	17.0	25.1	22.9
Residential-Type Units .....	41	118	26	3,545	7,043	1,834	11.7	16.8	14.4
Vending Machines .....	37	145	35	2,817	7,066	2,056	13.1	20.5	17.0
No Refrigeration .....	6	12	Q	784	1,841	392	7.4	6.5	Q
<b>Office Equipment (more than one may apply)</b>									
Computers .....	58	193	47	4,533	10,483	2,724	12.8	18.4	17.3
With Flat Screen Monitors .....	28	103	25	1,762	4,768	1,314	15.7	21.6	19.2
Dedicated Servers .....	43	137	31	2,796	6,839	1,606	15.2	20.0	19.3
Laser Printers .....	32	106	29	2,784	6,059	1,813	11.4	17.6	15.8
Inkjet Printers .....	38	125	27	2,489	6,138	1,502	15.3	20.4	18.2
FAX Machines .....	55	187	45	4,157	9,973	2,551	13.2	18.8	17.5
Photocopiers .....	46	164	36	3,586	8,821	2,211	13.0	18.6	16.3
<b>Number of Computers</b>									
None .....	4	17	3	795	1,613	496	5.4	10.8	5.8
1 to 4 .....	12	35	13	1,207	2,124	807	10.0	16.6	16.0
5 to 9 .....	10	14	6	826	1,154	520	12.5	12.3	12.3
10 to 19 .....	8	17	Q	621	1,321	Q	13.6	13.2	Q
20 to 49 .....	10	25	10	736	1,207	437	13.5	20.7	23.3
50 to 99 .....	Q	23	Q	Q	1,265	Q	Q	18.1	Q
100 to 249 .....	8	26	Q	630	1,353	Q	12.8	19.6	Q
250 or More .....	4	52	Q	208	2,059	Q	21.4	25.1	Q
<b>Number of Dedicated Servers</b>									
None .....	20	74	19	2,532	5,258	1,615	7.8	14.0	11.8
1 to 4 .....	35	72	25	2,366	4,155	1,272	14.6	17.3	19.5
5 to 9 .....	Q	23	Q	Q	966	Q	Q	24.0	Q
10 to 19 .....	Q	22	Q	Q	837	Q	Q	26.2	Q
20 to 49 .....	Q	11	Q	Q	524	Q	Q	21.9	Q
50 or More .....	Q	Q	Q	Q	Q	Q	Q	22.2	Q
<b>Number of Photocopiers</b>									
None .....	16	46	14	1,742	3,276	1,009	9.2	14.0	13.8
One .....	18	37	10	1,615	2,611	1,016	11.1	14.2	10.2
2 to 4 .....	16	53	14	1,281	3,060	659	12.7	17.4	20.5
5 to 9 .....	6	22	Q	388	1,124	Q	14.8	19.9	Q
10 or More .....	7	52	7	302	2,026	284	21.7	25.6	24.0

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**Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2**

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Energy-Related Space Functions (more than one may apply)</b>									
Commercial Food Preparation .....	23	98	20	1,472	4,196	1,055	15.6	23.4	18.7
Activities with Large Amounts of Hot Water .....	24	94	16	1,678	4,178	949	14.3	22.4	17.2
Separate Computer Area .....	26	106	20	1,723	5,236	1,028	15.1	20.3	19.1
<b>HVAC Conservation Features (more than one may apply)</b>									
Variable Air-Volume System .....	23	86	18	1,342	3,818	788	16.8	22.6	22.5
Economizer Cycle .....	26	90	17	1,533	3,815	828	17.2	23.6	21.0
HVAC Maintenance .....	47	187	41	3,701	9,547	2,258	12.8	19.6	18.0
Energy Management and Control System (EMCS) .....	16	70	11	965	3,426	542	16.2	20.4	20.4
<b>Window and Interior Lighting Features (more than one may apply)</b>									
Multipaned Windows .....	49	131	30	3,724	7,178	1,678	13.1	18.3	17.8
Tinted Window Glass .....	26	127	21	1,925	6,495	1,167	13.5	19.6	18.3
Reflective Window Glass .....	11	33	7	711	1,655	255	14.8	19.9	28.8
External Overhangs or Awnings .....	23	71	18	1,684	3,812	1,016	13.8	18.6	17.8
Skylights or Atriums .....	12	35	7	929	1,828	429	13.2	18.9	16.9
Daylighting Sensors .....	Q	8	Q	Q	448	Q	Q	18.9	Q
Specular Reflectors .....	26	99	14	1,896	4,553	785	13.9	21.8	17.8
Electronic Ballasts .....	52	171	37	3,987	8,835	2,177	13.0	19.3	17.0
Energy Management and Control System (EMCS) For Lighting .....	Q	15	Q	Q	810	Q	Q	18.5	Q
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
Heating .....	37	128	31	3,314	7,843	2,124	11.2	16.3	14.4
Cooling .....	37	140	33	3,323	8,678	2,175	11.1	16.2	15.0
Lighting .....	43	137	33	4,037	9,061	2,340	10.6	15.1	13.9
Office Equipment .....	16	50	10	1,767	3,468	703	9.3	14.3	13.9
<b>Annual Consumption (kilowatthours)</b>									
10,000 or Less .....	1	1	Q	430	302	Q	1.2	2.0	Q
10,001 to 50,000 .....	6	8	3	1,004	1,684	546	5.9	4.8	5.8
50,001 to 100,000 .....	5	11	4	580	1,284	376	8.5	9.0	10.8
100,001 to 500,000 .....	19	43	13	1,502	2,743	871	12.9	15.6	15.1
500,001 to 1,000,000 .....	7	29	Q	687	1,454	Q	10.8	20.2	Q
1,000,001 to 5,000,000 .....	20	61	15	948	2,661	587	21.3	22.8	25.9
Over 5,000,000 .....	Q	57	7	Q	1,968	247	Q	29.2	28.5

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**Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2**

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Provider of Purchased Electricity (more than one may apply)</b>									
Local Utility .....	59	193	48	5,095	11,510	3,167	11.5	16.8	15.3
Some Other Provider .....	Q	Q	Q	Q	Q	Q	Q	31.3	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.



**Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3**

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West South Central	Moun- tain	Pacific	West South Central	Moun- tain	Pacific	West South Central	Moun- tain	Pacific
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Building Floorspace (Square Feet)</b>									
1,001 to 5,000 .....	17	7	12	696	437	857	24.1	15.7	14.0
5,001 to 10,000 .....	11	5	14	787	404	810	13.4	12.0	16.9
10,001 to 25,000 .....	11	10	13	1,267	831	1,232	8.9	11.7	10.3
25,001 to 50,000 .....	12	7	12	897	511	1,088	13.6	13.2	11.0
50,001 to 100,000 .....	16	5	12	1,314	374	922	12.1	12.7	13.3
100,001 to 200,000 .....	20	Q	13	1,096	Q	895	18.2	Q	14.5
200,001 to 500,000 .....	12	5	11	659	Q	827	18.4	14.3	13.5
Over 500,000 .....	Q	Q	9	Q	Q	766	Q	Q	12.4
<b>Principal Building Activity</b>									
Education .....	15	6	11	1,198	640	1,027	12.8	9.4	10.7
Food Sales .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service .....	Q	Q	7	Q	Q	232	Q	Q	31.8
Health Care .....	8	6	6	309	230	323	27.5	25.8	20.1
Inpatient .....	7	Q	Q	235	Q	Q	29.7	Q	Q
Outpatient .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging .....	Q	Q	8	Q	438	649	Q	Q	11.9
Retail (Other Than Mall).....	9	Q	10	594	Q	753	15.8	Q	13.4
Office .....	27	10	26	1,343	629	1,796	19.9	16.3	14.6
Public Assembly .....	Q	Q	Q	Q	Q	464	Q	Q	Q
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship .....	4	Q	Q	467	Q	Q	8.1	Q	Q
Service .....	Q	Q	3	Q	Q	319	Q	Q	8.0
Warehouse and Storage .....	7	Q	6	1,581	Q	1,000	4.3	Q	5.9
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 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1920 to 1945 .....	Q	Q	7	Q	Q	783	Q	Q	9.1
1946 to 1959 .....	4	3	9	455	255	750	9.3	13.4	11.3
1960 to 1969 .....	8	7	10	675	592	1,000	12.5	12.4	10.2
1970 to 1979 .....	22	15	16	1,307	924	1,156	16.5	16.7	13.7
1980 to 1989 .....	34	13	22	1,840	688	1,541	18.4	19.4	14.6
1990 to 1999 .....	28	11	24	1,792	612	1,367	15.6	17.2	17.4
2000 to 2003 .....	13	4	7	907	292	638	14.2	12.7	11.0
<b>Climate Zone: 30-Year Average</b>									
Under 2,000 CDD and --									
More than 7,000 HDD .....	N	27	Q	N	2,081	Q	N	13.1	14.7
5,500-7,000 HDD .....	N	16	Q	N	1,075	Q	N	14.8	15.1
4,000-5,499 HDD .....	Q	N	Q	Q	N	693	Q	N	14.0
Fewer than 4,000 HDD .....	27	N	63	1,891	N	5,187	14.3	N	12.1
2,000 CDD or More and --									
Fewer than 4,000 HDD .....	82	13	Q	5,153	476	Q	16.0	26.8	Q
<b>Number of Floors</b>									
One .....	54	23	37	4,026	1,830	3,020	13.4	12.4	12.4
Two .....	17	14	26	1,330	990	1,969	12.9	14.5	13.2
Three .....	7	Q	9	453	Q	715	14.4	Q	12.3
Four to Nine .....	17	7	14	736	338	990	23.5	20.5	14.4
Ten or More .....	19	Q	10	904	Q	Q	21.6	Q	14.1

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**Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3**

	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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Elevators and Escalators (more than one may apply)</b>									
Any Elevators .....	49	23	40	2,407	1,069	2,772	20.4	22.0	14.4
Number of Elevators									
One .....	7	5	7	623	414	649	11.8	13.1	11.0
Two to Five .....	19	5	17	808	275	1,085	24.0	19.6	15.9
Six or More .....	22	Q	15	975	Q	1,039	22.8	Q	14.9
Any Escalators .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Number of Workers (main shift)</b>									
Fewer than 5 .....	12	7	12	1,658	724	1,512	7.1	9.8	7.6
5 to 9 .....	11	4	8	835	345	678	13.0	11.2	12.2
10 to 19 .....	13	5	8	999	428	681	13.3	12.2	12.2
20 to 49 .....	24	10	17	1,408	645	1,264	16.7	14.7	13.5
50 to 99 .....	14	7	12	840	558	812	17.2	11.9	14.7
100 to 249 .....	10	6	18	451	311	1,086	22.9	19.5	16.5
250 or More .....	30	Q	21	1,259	Q	1,364	23.8	28.2	15.6
<b>Weekly Operating Hours</b>									
Fewer than 40 .....	4	1	3	656	270	623	5.4	4.4	5.4
40 to 48 .....	17	8	13	1,688	783	1,378	10.1	10.6	9.1
49 to 60 .....	22	7	22	1,872	712	1,744	12.0	10.2	12.5
61 to 84 .....	20	9	16	1,227	592	1,352	16.5	14.5	11.7
85 to 167 .....	22	Q	15	829	Q	901	26.8	Q	16.8
Open Continuously .....	29	24	28	1,177	931	1,401	24.4	26.0	19.8
<b>Ownership and Occupancy</b>									
Nongovernment Owned .....	90	41	78	5,949	2,569	5,891	15.1	16.0	13.3
Owner Occupied .....	37	13	37	2,700	976	2,641	13.8	13.0	14.1
Nonowner Occupied .....	53	28	41	3,114	1,582	3,149	16.9	18.0	12.9
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	24	15	18	1,500	1,064	1,507	16.3	13.9	12.0
Federal .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
State .....	Q	Q	6	Q	Q	565	Q	Q	11.3
Local .....	14	10	11	961	681	861	14.1	14.3	12.4
<b>Vacancy Status</b>									
Completely Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	29	12	16	1,623	750	1,329	17.7	15.3	12.0
Not At All Vacant .....	85	44	80	5,687	2,855	5,914	15.0	15.5	13.4
<b>Number of Establishments</b>									
One .....	76	42	66	5,186	2,767	4,912	14.7	15.0	13.5
2 to 5 .....	14	8	17	1,193	524	1,362	12.1	14.4	12.2
6 to 10 .....	Q	Q	3	Q	Q	211	Q	Q	13.3
11 to 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q

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**Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3**

	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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Predominant Exterior Wall Material</b>									
Brick, Stone or Stucco .....	62	20	39	3,597	1,551	3,070	17.1	13.2	12.6
Concrete (Block or Poured) .....	17	8	18	937	450	1,315	18.4	17.7	14.0
Concrete Panels .....	17	Q	12	1,114	Q	1,204	15.6	19.6	10.1
Siding or Shingles .....	4	Q	9	281	Q	461	14.4	12.0	Q
Metal Panels .....	8	8	10	1,212	604	885	6.3	13.3	11.8
Window Glass .....	Q	Q	Q	Q	Q	Q	Q	Q	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>Predominant Roof Material</b>									
Built-Up .....	40	26	34	2,346	1,421	2,959	17.1	18.1	11.6
Shingles (Not Wood) .....	11	5	15	769	475	1,011	14.3	10.1	15.2
Metal Surfacing .....	20	10	11	2,420	903	958	8.3	10.8	11.7
Synthetic or Rubber .....	30	12	19	1,194	664	1,209	25.3	18.6	16.1
Slate or Tile .....	Q	Q	6	Q	Q	552	Q	Q	11.7
Wooden Materials .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	Q	N	Q	Q	N	Q	Q	N	Q
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
Any Type of Renovation									
Since 1980 .....	18	17	21	1,157	1,095	1,746	15.1	15.9	12.1
Addition or Annex .....	10	9	6	529	551	428	19.0	16.8	15.0
Reduction In Floorspace .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements .....	13	12	18	828	718	1,465	15.5	17.2	12.5
Wall or Roof Replacement .....	7	7	10	549	504	789	12.1	13.6	13.0
Interior Wall									
Re-Configuration .....	8	12	12	564	637	870	13.4	18.7	13.6
HVAC Equipment Upgrade .....	9	14	14	559	776	1,049	16.4	18.3	13.1
Lighting Upgrade .....	7	14	14	463	733	1,042	15.5	18.6	13.4
Window Replacement .....	Q	5	7	Q	332	510	Q	16.2	13.0
Plumbing System Upgrade .....	Q	10	11	Q	517	852	Q	19.4	12.5
Insulation Upgrade .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Renovation .....	N	Q	Q	N	Q	Q	N	Q	Q
No Renovations Since 1980 .....	22	11	22	1,752	945	2,106	12.6	11.5	10.3
Building Newer than 1980 .....	75	28	53	4,540	1,593	3,545	16.4	17.3	15.0
<b>Energy Sources (more than one may apply)</b>									
Electricity .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
Natural Gas .....	82	44	64	4,698	2,797	5,016	17.5	15.6	12.7
Fuel Oil .....	26	Q	27	1,141	626	1,497	22.9	26.0	18.0
District Heat .....	Q	Q	6	Q	Q	413	Q	Q	14.1
District Chilled Water .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Propane .....	Q	Q	13	Q	555	618	Q	18.8	21.3
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q

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**Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3**

	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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Space-Heating Energy Sources</b>									
Electricity .....	70	26	47	4,300	1,389	3,526	16.2	18.5	13.5
Electricity Main .....	52	14	32	3,325	789	2,325	15.7	17.2	13.7
Electricity Secondary .....	18	Q	16	975	599	1,201	18.1	20.2	13.1
Other Excluding Electricity .....	41	27	41	2,624	2,136	3,052	15.7	12.7	13.3
Buildings without Heating .....	Q	Q	8	Q	Q	820	Q	Q	10.0
<b>Primary Space-Heating Energy Source</b>									
Electricity .....	52	14	32	3,325	789	2,325	15.7	17.2	13.7
Natural Gas .....	56	34	45	3,303	2,277	3,633	17.0	14.8	12.5
Fuel Oil .....	N	Q	Q	N	Q	Q	N	Q	Q
District Heat .....	Q	Q	5	Q	Q	362	Q	Q	13.3
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	N	Q	Q	N	Q	Q	N	Q	Q
<b>Cooling Energy Sources</b>									
Electricity .....	110	52	88	6,834	3,186	6,328	16.1	16.4	13.9
Other Excluding Electricity .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings without Cooling .....	Q	2	4	Q	366	715	Q	5.6	5.9
<b>Water-Heating Energy Sources</b>									
Electricity .....	48	20	39	3,267	1,236	2,771	14.8	16.3	14.0
Other Excluding Electricity .....	60	35	52	3,074	2,187	3,655	19.4	15.9	14.3
Bldgs without Water Heating .....	6	Q	5	1,108	Q	972	5.7	Q	5.4
<b>Cooking Energy Sources</b>									
Electricity .....	38	18	20	1,623	791	1,192	23.4	23.1	16.4
Other Excluding Electricity .....	23	6	20	1,005	418	1,089	22.7	14.1	18.3
Buildings without Cooking .....	53	32	57	4,821	2,424	5,117	11.1	13.1	11.1
<b>Energy End Uses (more than one may apply)</b>									
Buildings with Space Heating .....	111	53	88	6,924	3,525	6,577	16.0	15.0	13.4
Buildings with Cooling .....	113	54	92	7,094	3,267	6,683	16.0	16.5	13.8
Buildings with Water Heating .....	108	55	91	6,341	3,422	6,426	17.0	16.0	14.2
Buildings with Cooking .....	61	24	39	2,628	1,209	2,280	23.1	20.0	17.3
Buildings with Manufacturing .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation .....	30	18	26	1,297	738	1,504	23.4	24.9	17.1
<b>Percent of Floorspace Heated</b>									
Not Heated .....	Q	Q	8	Q	Q	820	Q	Q	10.0
1 to 50 .....	7	Q	12	1,379	Q	1,257	5.4	Q	9.3
51 to 99 .....	14	11	18	718	569	1,381	20.2	19.7	12.7
100 .....	89	40	59	4,828	2,721	3,940	18.5	14.7	14.9
<b>Percent of Floorspace Cooled</b>									
Not Cooled .....	Q	2	4	Q	366	715	Q	5.6	5.9
1 to 50 .....	10	10	15	2,025	918	1,738	5.0	11.2	8.7
51 to 99 .....	19	16	23	820	886	1,559	23.2	17.7	14.5
100 .....	84	28	54	4,249	1,463	3,386	19.8	19.0	16.1

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**Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3**

	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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Percent Lit When Open</b>									
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	11	3	9	1,371	382	1,130	8.1	6.7	8.0
51 to 99 .....	30	17	29	1,928	1,095	2,161	15.5	15.2	13.3
100 .....	73	37	58	3,933	2,136	3,947	18.5	17.1	14.7
Building Never Open/ Electricity Not Used .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Percent Lit When Closed</b>									
Zero .....	18	10	19	2,239	1,118	1,994	7.9	8.9	9.6
1 to 50 .....	60	21	47	3,658	1,526	3,823	16.3	13.5	12.4
51 to 100 .....	8	Q	Q	374	Q	Q	22.0	Q	Q
Building Never Closed/ Electricity Not Used .....	29	24	28	1,177	931	1,401	24.4	26.0	19.8
<b>Heating Equipment (more than one may apply)</b>									
Heat Pumps .....	12	Q	17	722	Q	1,268	16.2	Q	13.4
Packaged Heat Pumps .....	Q	Q	10	Q	Q	741	Q	Q	13.6
Split-System Heat Pumps .....	Q	Q	5	Q	Q	305	Q	Q	16.9
Individual Room Heat Pumps .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Furnaces .....	28	14	22	2,048	1,302	1,773	13.6	11.0	12.6
Individual Space Heaters .....	11	9	15	893	692	1,290	12.1	13.1	11.3
District Heat .....	Q	Q	5	Q	Q	362	Q	Q	13.3
Boilers .....	30	23	33	1,472	1,359	2,302	20.3	17.1	14.2
Packaged Heating Units .....	52	12	35	2,998	748	2,564	17.5	16.6	13.7
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling Equipment (more than one may apply)</b>									
Residential-Type Central									
Air Conditioners .....	14	4	11	1,523	341	841	8.9	11.7	13.1
Heat Pumps .....	10	Q	18	595	430	1,355	17.4	30.1	13.0
Packaged Heat Pumps .....	Q	Q	10	Q	Q	742	Q	Q	13.4
Split-System Heat Pumps .....	Q	Q	6	Q	Q	322	Q	Q	17.2
Individual Room Heat Pumps .....	Q	Q	6	Q	Q	546	Q	Q	11.3
Individual Air Conditioners .....	9	11	12	806	730	1,019	11.7	15.7	11.5
District Chilled Water .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Central Chillers .....	40	15	25	1,771	621	1,466	22.7	24.8	16.9
Packaged Air Conditioning									
Units .....	54	31	52	3,325	1,655	3,826	16.2	18.7	13.5
Swamp Coolers .....	Q	11	8	Q	874	468	Q	12.3	16.6
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
Heating .....	23	21	17	1,670	1,133	1,455	13.5	18.9	11.6
Cooling .....	33	24	23	2,245	1,356	2,018	14.6	18.0	11.5
<b>Water Heating Equipment</b>									
Centralized System .....	72	25	55	3,998	1,928	3,712	17.9	12.8	14.9
Distributed System .....	21	9	15	1,664	566	1,415	12.8	15.4	10.7
Combination of Centralized and Distributed System .....	15	21	21	679	928	1,299	22.1	23.1	15.9

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**Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3**

	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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Lighting Equipment Types (more than one may apply)</b>									
Incandescent .....	78	41	57	4,033	2,443	3,965	19.2	16.6	14.5
Standard Fluorescent .....	111	55	93	6,955	3,534	7,066	16.0	15.4	13.2
Compact Fluorescent .....	59	32	59	2,764	1,748	4,024	21.5	18.2	14.6
High Intensity Discharge .....	27	15	35	1,470	977	2,438	18.5	15.8	14.2
Halogen .....	35	20	33	2,099	993	2,275	16.9	20.1	14.3
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
Any Refrigeration.....	103	51	84	6,018	3,028	5,919	17.1	16.7	14.3
Commercial Refrigeration .....	73	32	47	3,067	1,398	2,674	24.0	23.2	17.6
Walk-In Units .....	60	26	40	2,284	1,073	2,059	26.4	24.3	19.2
Cases or Cabinets .....	61	27	40	2,425	1,093	2,185	25.3	24.8	18.5
Residential-Type Units .....	66	32	55	4,285	2,232	4,410	15.4	14.3	12.5
Vending Machines .....	76	39	56	4,412	2,058	3,783	17.3	18.9	14.7
No Refrigeration .....	12	5	12	1,431	605	1,478	8.1	8.9	8.0
<b>Office Equipment (more than one may apply)</b>									
Computers .....	107	53	92	6,507	3,282	6,698	16.5	16.1	13.7
With Flat Screen Monitors .....	62	27	53	3,053	1,365	3,575	20.4	19.8	14.9
Dedicated Servers .....	74	36	65	4,204	1,959	4,335	17.5	18.2	14.9
Laser Printers .....	53	33	53	3,694	2,165	3,723	14.3	15.2	14.3
Inkjet Printers .....	72	33	57	3,840	1,901	4,108	18.8	17.2	13.8
FAX Machines .....	103	51	85	6,258	2,983	6,140	16.4	17.0	13.9
Photocopiers .....	84	46	75	5,281	2,753	5,439	16.0	16.9	13.7
<b>Number of Computers</b>									
None .....	7	3	4	942	351	699	7.7	9.0	6.3
1 to 4 .....	22	8	14	1,488	707	1,444	15.1	11.5	9.9
5 to 9 .....	9	7	10	864	450	649	10.4	16.6	14.8
10 to 19 .....	11	5	11	910	371	825	11.6	14.0	13.0
20 to 49 .....	14	8	17	780	548	1,006	18.3	14.6	17.4
50 to 99 .....	9	Q	10	490	Q	784	17.6	Q	12.9
100 to 249 .....	13	8	12	660	448	869	19.2	17.5	13.4
250 or More .....	30	Q	18	1,315	473	1,122	22.4	26.3	16.1
<b>Number of Dedicated Servers</b>									
None .....	41	20	32	3,245	1,674	3,062	12.5	12.0	10.3
1 to 4 .....	40	23	36	2,782	1,428	2,665	14.2	15.8	13.6
5 to 9 .....	Q	Q	11	Q	Q	601	Q	Q	18.3
10 to 19 .....	Q	Q	6	Q	Q	414	Q	Q	15.4
20 to 49 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
50 or More .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Number of Photocopiers</b>									
None .....	30	10	22	2,169	880	1,958	13.8	10.8	11.1
One .....	21	12	21	1,833	995	1,757	11.5	11.9	11.8
2 to 4 .....	25	13	22	1,799	887	1,706	13.8	14.9	12.7
5 to 9 .....	Q	Q	12	Q	Q	634	Q	Q	18.6
10 or More .....	29	19	20	1,243	690	1,341	23.0	27.4	15.2

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**Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3**

	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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Energy-Related Space Functions (more than one may apply)</b>									
Commercial Food Preparation .....	61	24	39	2,628	1,209	2,269	23.1	20.0	17.3
Activities with Large Amounts of Hot Water .....	36	26	35	1,776	1,384	2,048	20.5	19.0	17.1
Separate Computer Area .....	58	30	49	3,132	1,607	3,462	18.4	18.6	14.3
<b>HVAC Conservation Features (more than one may apply)</b>									
Variable Air-Volume System .....	54	25	35	2,743	1,236	2,232	19.7	20.0	15.7
Economizer Cycle .....	45	29	44	1,988	1,383	3,069	22.6	21.1	14.2
HVAC Maintenance .....	102	50	88	5,836	3,065	6,282	17.5	16.2	14.0
Energy Management and Control System (EMCS) .....	38	18	31	1,834	857	2,170	21.0	21.4	14.5
<b>Window and Interior Lighting Features (more than one may apply)</b>									
Multipaned Windows .....	65	42	43	3,416	2,649	2,880	19.2	15.8	15.0
Tinted Window Glass .....	70	33	52	4,170	1,617	3,999	16.7	20.2	13.1
Reflective Window Glass .....	26	7	16	1,098	489	1,206	23.8	13.7	13.2
External Overhangs or Awnings .....	37	24	31	1,921	1,521	2,025	19.2	15.5	15.4
Skylights or Atriums .....	29	19	19	1,656	1,001	1,452	17.4	18.5	13.3
Daylighting Sensors .....	Q	Q	15	Q	Q	674	Q	Q	22.6
Specular Reflectors .....	50	28	45	2,533	1,307	3,396	19.7	21.2	13.2
Electronic Ballasts .....	93	48	81	5,446	2,905	5,621	17.1	16.6	14.5
Energy Management and Control System (EMCS) For Lighting .....	14	Q	16	629	Q	923	22.9	Q	17.2
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
Heating .....	72	36	70	4,688	2,456	5,183	15.4	14.8	13.4
Cooling .....	80	40	72	5,241	2,449	5,380	15.3	16.1	13.3
Lighting .....	80	31	66	5,715	2,608	5,674	14.0	11.9	11.7
Office Equipment .....	23	12	24	2,255	1,030	2,260	10.2	11.7	10.7
<b>Annual Consumption (kilowatthours)</b>									
10,000 or Less .....	Q	Q	1	Q	Q	292	Q	Q	1.8
10,001 to 50,000 .....	6	3	6	1,156	564	1,201	5.0	5.4	4.9
50,001 to 100,000 .....	6	3	7	788	299	701	7.4	9.4	9.9
100,001 to 500,000 .....	27	16	25	1,788	1,146	1,858	15.3	14.2	13.4
500,001 to 1,000,000 .....	12	Q	10	923	Q	657	12.9	Q	15.2
1,000,001 to 5,000,000 .....	35	12	32	1,443	665	1,770	24.3	18.1	17.9
Over 5,000,000 .....	28	Q	16	1,123	Q	918	24.7	30.4	17.9

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**Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3**

	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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Provider of Purchased Electricity (more than one may apply)</b>									
Local Utility .....	89	54	88	5,901	3,544	6,940	15.1	15.3	12.7
Some Other Provider .....	23	Q	Q	1,335	Q	Q	16.9	Q	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.









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**Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup> 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)				
	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
<b>All Buildings*</b> .....	120	224	166	219	161	10,393	17,076	11,375	15,172	9,290	11.5	13.1	14.6	14.5	17.3
<b>Space-Heating Energy Sources</b>															
Electricity .....	52	97	92	106	109	3,945	6,180	5,080	7,343	6,052	13.1	15.7	18.0	14.5	18.0
Electricity Main .....	23	47	40	66	91	1,375	2,603	2,210	4,580	5,228	16.4	18.0	17.9	14.3	17.5
Electricity Secondary .....	29	50	52	41	18	2,570	3,577	2,870	2,763	824	11.3	14.1	18.1	14.7	21.7
Other Excluding Electricity .....	67	124	74	104	38	6,153	10,525	6,154	6,622	1,938	10.9	11.8	12.0	15.7	19.5
Buildings without Heating .....	Q	Q	Q	9	14	Q	372	Q	1,207	1,300	Q	6.6	Q	7.5	10.9
<b>Primary Space-Heating Energy Source</b>															
Electricity .....	23	47	40	66	91	1,375	2,603	2,210	4,580	5,228	16.4	18.0	17.9	14.3	17.5
Natural Gas .....	76	132	90	116	45	6,513	10,640	5,617	7,965	2,228	11.6	12.4	16.0	14.6	20.3
Fuel Oil .....	6	7	8	Q	Q	962	1,211	Q	Q	Q	6.0	5.9	Q	Q	11.8
District Heat .....	10	31	21	20	Q	752	1,638	1,231	883	Q	13.0	18.7	17.3	22.9	Q
Propane .....	3	4	Q	Q	Q	Q	492	Q	423	Q	8.6	8.4	10.1	Q	Q
Other .....	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N
<b>Cooling Energy Sources</b>															
Electricity .....	107	197	154	206	150	8,205	13,843	10,319	13,508	8,446	13.0	14.2	14.9	15.2	17.8
Other Excluding Electricity .....	Q	11	11	8	Q	Q	667	626	468	Q	Q	15.9	17.7	18.0	Q
Buildings without Cooling .....	7	Q	1	5	Q	1,843	2,567	430	1,195	Q	4.0	6.3	3.0	4.1	Q
<b>Water-Heating Energy Sources</b>															
Electricity .....	43	88	77	104	91	3,941	6,525	5,147	6,685	5,192	10.8	13.5	15.0	15.6	17.5
Other Excluding Electricity .....	74	118	87	104	61	5,533	8,621	5,637	6,507	2,675	13.4	13.7	15.5	16.0	22.8
Bldgs without Water Heating .....	3	Q	2	11	9	919	1,931	591	1,980	1,423	3.2	9.1	3.1	5.4	6.5
<b>Cooking Energy Sources</b>															
Electricity .....	32	70	45	52	50	2,123	4,210	2,235	2,472	2,120	14.9	16.7	19.9	21.0	23.8
Other Excluding Electricity .....	17	32	39	40	27	1,179	2,160	2,501	2,149	1,088	14.7	14.9	Q	18.4	24.4
Buildings without Cooking .....	71	121	82	128	84	7,091	10,707	6,639	10,550	6,082	10.0	11.3	12.4	12.1	13.8
<b>Energy End Uses (more than one may apply)</b>															
Buildings with Space Heating .....	119	221	165	210	147	10,098	16,705	11,234	13,965	7,990	11.8	13.2	14.7	15.1	18.4
Buildings with Cooling .....	112	208	165	214	160	8,550	14,509	10,946	13,977	8,943	13.1	14.3	15.1	15.3	17.9
Buildings with Water Heating .....	117	206	164	209	152	9,474	15,145	10,785	13,192	7,867	12.3	13.6	15.3	15.8	19.3
Buildings with Cooking .....	49	102	84	91	77	3,302	6,369	4,736	4,621	3,208	14.9	16.1	17.7	19.8	24.0
Buildings with Manufacturing .....	9	12	11	8	Q	855	729	772	608	Q	10.2	17.0	14.1	13.3	Q
Buildings with Electricity Generation .....	29	78	62	52	40	1,764	3,862	2,973	2,583	1,639	16.4	20.2	20.9	20.0	24.6
<b>Percent of Floorspace Heated</b>															
Not Heated .....	Q	Q	Q	9	14	Q	372	Q	1,207	1,300	Q	6.6	Q	7.5	10.9
1 to 50 .....	5	10	12	18	10	1,111	1,094	1,325	1,845	1,455	4.4	8.9	9.4	9.6	6.9
51 to 99 .....	17	21	24	33	22	1,377	1,735	1,713	2,349	932	12.1	12.0	13.8	14.1	23.1
100 .....	97	191	129	159	115	7,609	13,876	8,196	9,772	5,602	12.8	13.7	15.8	16.3	20.6
<b>Percent of Floorspace Cooled</b>															
Not Cooled .....	7	Q	1	5	Q	1,843	2,567	430	1,195	Q	4.0	6.3	3.0	4.1	Q
1 to 50 .....	29	35	24	32	11	3,133	4,642	3,422	3,480	1,906	9.2	7.5	7.0	9.2	5.7
51 to 99 .....	33	58	55	42	29	2,327	3,568	3,297	2,803	1,215	14.1	16.4	16.8	15.2	24.2
100 .....	51	114	86	140	120	3,089	6,300	4,227	7,693	5,822	16.4	18.2	20.3	18.2	20.6

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**Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup> 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)				
	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
<b>All Buildings*</b> .....	120	224	166	219	161	10,393	17,076	11,375	15,172	9,290	11.5	13.1	14.6	14.5	17.3
<b>Percent Lit When Open</b>															
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	12	14	13	13	13	1,956	2,667	2,132	2,066	1,382	5.9	5.4	6.3	6.4	9.6
51 to 99 .....	40	62	54	54	52	3,666	4,929	3,133	3,804	2,756	10.8	12.7	17.2	14.1	19.0
100 .....	68	145	98	151	95	4,362	8,654	5,924	8,979	4,870	15.5	16.8	16.6	16.9	19.4
Building Never Open/ Electricity Not Used .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Percent Lit When Closed</b>															
Zero .....	25	45	22	38	29	3,536	4,589	2,252	4,370	2,637	7.2	9.8	9.7	8.6	11.2
1 to 50 .....	56	103	74	105	75	4,772	8,916	5,541	7,172	4,546	11.8	11.5	13.4	14.6	16.4
51 to 100 .....	Q	Q	Q	7	13	Q	Q	Q	478	501	Q	Q	Q	15.5	25.4
Building Never Closed/ Electricity Not Used .....	32	67	60	69	44	1,822	3,162	3,140	3,151	1,605	17.4	21.3	19.2	22.0	27.6
<b>Heating Equipment (more than one may apply)</b>															
Heat Pumps .....	10	29	40	46	29	727	1,471	1,971	3,283	1,361	14.2	19.6	20.1	14.0	21.0
Packaged Heat Pumps .....	7	20	30	26	23	433	995	1,267	1,749	997	15.0	19.8	24.0	14.7	23.0
Split-System Heat Pumps .....	Q	Q	Q	14	6	Q	Q	686	1,140	419	Q	Q	20.6	12.3	15.5
Individual Room Heat Pumps .....	Q	10	10	14	Q	Q	497	537	1,021	Q	Q	20.0	18.1	13.3	Q
Furnaces .....	50	70	32	48	25	4,576	6,411	2,648	4,313	1,658	10.8	10.9	11.9	11.1	14.9
Individual Space Heaters .....	31	48	45	30	12	3,014	3,582	2,524	2,569	851	10.2	13.3	17.8	11.5	14.3
District Heat .....	10	31	21	20	Q	801	1,749	1,266	918	Q	12.9	17.9	16.9	22.3	Q
Boilers .....	47	86	69	63	31	4,060	6,835	4,693	3,334	1,500	11.6	12.5	14.8	18.7	20.6
Packaged Heating Units .....	32	68	57	86	67	2,126	3,708	3,204	5,619	3,365	15.3	18.2	17.7	15.3	20.0
Other .....	13	11	Q	5	13	816	659	Q	525	750	15.6	16.1	Q	10.5	17.3
<b>Cooling Equipment (more than one may apply)</b>															
Residential-Type Central															
Air Conditioners .....	22	37	27	28	19	1,971	3,078	2,207	2,056	1,723	11.2	12.2	12.2	13.7	10.8
Heat Pumps .....	10	29	42	49	30	739	1,542	1,998	3,398	1,365	14.0	18.7	20.9	14.5	22.2
Packaged Heat Pumps .....	7	19	33	24	22	453	1,033	1,337	1,679	924	14.6	18.9	24.6	14.6	23.8
Split-System Heat Pumps .....	Q	Q	Q	15	7	Q	Q	703	1,127	458	Q	Q	20.6	13.0	15.5
Individual Room Heat Pumps .....	Q	10	10	17	Q	Q	510	523	1,190	Q	Q	19.7	19.0	14.5	Q
Individual Air Conditioners .....	24	36	26	35	20	2,321	3,633	2,786	2,565	1,253	10.2	10.0	9.2	13.8	15.6
District Chilled Water .....	6	14	9	13	Q	350	698	514	659	633	17.3	20.2	17.8	19.2	22.7
Central Chillers .....	24	57	55	58	51	1,604	2,658	2,473	2,695	2,205	15.1	21.3	22.2	21.6	23.1
Packaged Air Conditioning															
Units .....	69	122	87	111	72	4,565	7,740	6,076	7,703	3,884	15.1	15.8	14.4	14.5	18.6
Swamp Coolers .....	7	5	Q	6	Q	515	468	Q	346	Q	14.2	11.1	Q	16.8	Q
Other .....	Q	Q	Q	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 .....	34	67	43	39	28	3,262	4,981	3,202	3,195	1,754	10.3	13.4	13.3	12.3	15.7
Cooling .....	41	85	69	49	43	3,555	5,895	4,827	4,112	2,606	11.5	14.4	14.3	11.8	16.4
<b>Water Heating Equipment</b>															
Centralized System .....	79	124	100	124	90	6,315	9,538	6,774	7,444	4,585	12.5	12.9	14.7	16.6	19.6
Distributed System .....	14	33	26	35	34	1,468	2,954	2,015	3,009	2,094	9.8	11.0	12.8	11.6	16.1
Combination of Centralized and Distributed System .....	23	50	39	50	28	1,691	2,654	1,996	2,739	1,187	13.8	18.9	19.5	18.3	23.8

Energy Information Administration

2003 Commercial Buildings Energy Consumption Survey: Consumption and Expenditures Tables



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**Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup> 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)				
	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
<b>All Buildings*</b> .....	120	224	166	219	161	10,393	17,076	11,375	15,172	9,290	11.5	13.1	14.6	14.5	17.3
<b>Energy-Related Space Functions (more than one may apply)</b>															
Commercial Food Preparation .....	49	102	84	91	77	3,302	6,358	4,736	4,620	3,208	14.9	16.1	17.7	19.8	24.0
Activities with Large Amounts of Hot Water .....	48	88	68	90	48	3,451	5,260	4,091	4,479	2,200	13.9	16.7	16.7	20.0	21.9
Separate Computer Area .....	56	113	102	110	74	3,713	7,143	5,988	6,266	3,763	15.1	15.8	17.0	17.6	19.6
<b>HVAC Conservation Features (more than one may apply)</b>															
Variable Air-Volume System .....	44	91	81	84	71	2,985	4,852	4,086	4,201	3,473	14.9	18.7	19.8	20.0	20.5
Economizer Cycle .....	59	112	96	89	57	3,804	5,533	4,736	4,630	2,406	15.5	20.2	20.3	19.2	23.5
HVAC Maintenance .....	101	204	149	190	148	8,035	14,309	9,595	11,542	7,670	12.6	14.2	15.6	16.5	19.3
Energy Management and Control System (EMCS) .....	34	64	67	59	55	2,438	3,834	3,284	3,546	2,528	14.0	16.7	20.4	16.8	21.8
<b>Window and Interior Lighting Features (more than one may apply)</b>															
Multipaned Windows .....	100	173	115	128	77	8,065	11,659	7,843	7,244	3,916	12.4	14.8	14.7	17.7	19.6
Tinted Window Glass .....	52	124	98	121	99	3,628	7,501	5,333	7,836	5,328	14.2	16.5	18.3	15.4	18.6
Reflective Window Glass .....	17	38	36	32	30	1,259	2,139	1,733	2,051	1,347	13.7	17.5	20.5	15.8	22.6
External Overhangs or Awnings .....	37	73	47	73	52	2,639	4,497	2,985	4,416	2,637	13.9	16.2	15.8	16.5	19.8
Skylights or Atriums .....	29	52	36	41	30	2,163	3,557	2,573	2,575	1,640	13.6	14.7	14.2	15.9	18.3
Daylighting Sensors .....	9	18	10	13	11	574	837	413	618	426	15.5	21.8	24.2	20.6	24.9
Specular Reflectors .....	57	125	88	101	65	4,446	7,579	5,238	5,892	2,961	12.8	16.4	16.9	17.1	22.1
Electronic Ballasts .....	104	177	143	176	133	8,390	11,771	8,922	10,876	6,923	12.3	15.0	16.0	16.2	19.3
Energy Management and Control System (EMCS) For Lighting .....	12	22	21	15	21	756	1,249	881	899	997	16.0	17.4	23.5	17.0	21.5
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>b</sup></b>															
Heating .....	75	137	124	137	93	6,995	11,636	8,469	10,227	5,380	10.7	11.7	14.6	13.4	17.4
Cooling .....	74	136	125	145	116	6,309	10,730	8,843	10,627	6,681	11.8	12.7	14.1	13.6	17.3
Lighting .....	83	153	99	143	110	7,959	12,889	7,802	11,312	7,025	10.4	11.9	12.7	12.7	15.6
Office Equipment .....	32	56	33	46	43	3,401	5,473	3,238	4,319	2,966	9.5	10.3	10.3	10.8	14.4
<b>Annual Consumption (kilowatthours)</b>															
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	1,589	2,594	1,270	2,624	1,150	4.6	4.5	5.6	4.6	5.8
50,001 to 100,000 .....	10	11	7	16	8	1,081	1,506	1,340	1,672	862	9.1	7.3	5.6	9.4	8.8
100,001 to 500,000 .....	38	54	26	52	39	3,073	4,313	2,698	3,648	2,380	12.5	12.5	9.7	14.3	16.3
500,001 to 1,000,000 .....	10	21	20	23	23	1,022	1,715	1,261	1,456	1,282	10.2	12.0	15.8	15.9	17.8
1,000,001 to 5,000,000 .....	36	69	50	67	46	2,225	3,545	2,269	3,319	1,851	16.3	19.5	22.2	20.3	24.7
Over 5,000,000 .....	17	56	55	48	39	768	2,351	2,231	1,831	1,518	21.7	23.9	24.5	26.1	25.8

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**Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup> 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)				
	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
<b>All Buildings*</b> .....	120	224	166	219	161	10,393	17,076	11,375	15,172	9,290	11.5	13.1	14.6	14.5	17.3
<b>Provider of Purchased Electricity (more than one may apply)</b>															
Local Utility .....	109	198	140	210	134	9,635	15,515	10,370	14,626	7,707	11.3	12.8	13.5	14.4	17.4
Some Other Provider .....	Q	25	27	Q	23	784	1,500	987	Q	1,341	14.2	16.5	26.9	Q	17.1

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/cbeecs>.

\* 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> 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.)

<sup>b</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.



**Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size 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)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Principal Building Activity</b>									
Education .....	9	55	45	806	5,378	3,687	11.1	10.2	12.2
Food Sales .....	36	24	Q	747	467	Q	48.8	51.1	Q
Food Service .....	47	16	Q	986	664	Q	47.8	24.5	Q
Health Care .....	6	17	50	445	835	1,883	13.1	20.5	26.3
Inpatient .....	N	Q	47	N	Q	1,723	N	Q	27.0
Outpatient .....	6	11	Q	445	652	Q	13.1	17.4	Q
Lodging .....	4	31	34	260	2,274	2,563	14.0	13.5	13.5
Retail (Other Than Mall).....	17	28	18	1,363	2,133	821	12.2	12.9	21.5
Office .....	30	75	105	2,320	4,602	5,286	12.9	16.4	19.9
Public Assembly .....	10	21	19	850	1,851	1,233	11.6	11.2	Q
Public Order and Safety .....	2	6	Q	231	390	Q	10.4	14.9	Q
Religious Worship .....	5	11	Q	1,160	2,391	Q	4.5	4.7	Q
Service .....	14	19	Q	1,687	1,862	Q	8.2	10.2	Q
Warehouse and Storage .....	7	25	40	1,256	4,482	3,687	5.8	5.5	10.8
Other .....	2	11	25	206	601	922	9.6	19.1	27.6
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Year Constructed</b>									
Before 1920 .....	6	14	6	953	1,972	805	6.7	7.3	7.0
1920 to 1945 .....	16	17	28	1,491	2,336	2,768	10.7	7.4	10.0
1946 to 1959 .....	16	26	25	1,465	3,237	2,136	10.8	8.1	11.9
1960 to 1969 .....	19	43	33	1,545	4,143	2,369	12.5	10.4	14.1
1970 to 1979 .....	34	64	70	2,208	4,607	3,740	15.2	13.9	18.7
1980 to 1989 .....	34	61	88	1,769	4,169	4,215	19.4	14.7	20.9
1990 to 1999 .....	50	75	77	2,252	5,798	4,029	22.1	13.0	19.1
2000 to 2003 .....	14	39	33	860	2,524	1,915	16.8	15.4	17.0
<b>Census Region and Division</b>									
Northeast .....	23	53	72	2,080	5,275	5,454	11.1	10.0	13.1
New England .....	7	14	Q	696	1,416	829	10.2	9.7	13.1
Middle Atlantic .....	16	39	61	1,384	3,859	4,624	11.6	10.1	13.1
Midwest .....	46	89	81	3,176	7,841	5,684	14.4	11.4	14.3
East North Central .....	28	57	68	1,689	5,086	4,598	16.8	11.2	14.8
West North Central .....	17	32	13	1,487	2,755	1,086	11.7	11.6	12.0
South .....	83	141	150	4,778	10,712	7,276	17.5	13.1	20.7
South Atlantic .....	45	76	90	2,464	5,350	4,282	18.1	14.1	21.0
East South Central .....	12	26	13	832	1,884	505	14.0	13.6	25.1
West South Central .....	27	39	48	1,482	3,478	2,489	18.4	11.3	19.2
West .....	37	58	57	2,509	4,958	3,564	14.9	11.7	15.9
Mountain .....	12	21	23	841	1,716	1,076	13.9	12.4	21.4
Pacific .....	26	37	34	1,668	3,242	2,488	15.4	11.4	13.5
<b>Climate Zone: 30-Year Average</b>									
Under 2,000 CDD and --									
More than 7,000 HDD .....	30	51	38	2,327	4,929	3,137	12.9	10.4	12.3
5,500-7,000 HDD .....	43	85	96	3,142	7,887	6,047	13.7	10.7	15.9
4,000-5,499 HDD .....	26	61	79	1,868	4,498	5,009	13.8	13.7	15.8
Fewer than 4,000 HDD .....	55	78	86	3,496	6,886	4,790	15.8	11.4	17.9
2,000 CDD or More and --									
Fewer than 4,000 HDD .....	36	65	60	1,709	4,586	2,994	20.9	14.2	20.2

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**Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size 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)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Number of Floors</b>									
One .....	142	139	53	8,615	12,365	3,955	16.5	11.3	13.4
Two .....	38	115	50	2,932	9,121	3,925	12.9	12.6	12.6
Three .....	9	44	31	841	4,112	2,428	10.2	10.7	12.8
Four to Nine .....	Q	41	132	Q	3,069	6,841	Q	13.5	19.2
Ten or More .....	N	Q	94	N	Q	4,828	N	Q	19.5
<b>Elevators and Escalators (more than one may apply)</b>									
Any Elevators .....	4	116	296	286	7,913	16,296	14.6	14.7	18.2
Number of Elevators									
One .....	4	67	32	286	5,077	2,745	14.6	13.3	11.7
Two to Five .....	N	48	123	N	2,791	7,329	N	17.3	16.8
Six or More .....	N	Q	140	N	Q	6,222	N	Q	22.6
Any Escalators .....	Q	Q	56	Q	Q	2,257	Q	Q	24.6
<b>Number of Workers (main shift)</b>									
Fewer than 5 .....	75	22	Q	7,169	5,485	Q	10.5	4.0	Q
5 to 9 .....	45	25	Q	2,618	3,202	Q	17.3	8.0	Q
10 to 19 .....	41	44	Q	1,798	4,940	Q	22.9	8.8	Q
20 to 49 .....	22	110	22	844	7,872	2,247	25.6	14.0	9.6
50 to 99 .....	Q	74	42	Q	4,492	3,368	Q	16.4	12.6
100 to 249 .....	Q	55	76	Q	2,377	4,455	Q	23.1	17.0
250 or More .....	N	11	202	N	419	9,109	N	25.7	22.2
<b>Weekly Operating Hours</b>									
Fewer than 40 .....	13	10	Q	2,586	2,415	Q	5.2	4.1	Q
40 to 48 .....	32	59	25	3,364	6,136	2,071	9.5	9.7	12.2
49 to 60 .....	34	75	66	2,888	8,031	4,783	11.9	9.4	13.7
61 to 84 .....	33	65	47	1,555	5,209	3,547	21.5	12.5	13.3
85 to 167 .....	48	57	48	1,121	2,889	2,932	42.7	19.8	16.4
Open Continuously .....	29	74	171	1,029	4,107	7,745	28.1	17.9	22.0
<b>Ownership and Occupancy</b>									
Nongovernment Owned .....	172	253	248	11,073	21,731	15,208	15.6	11.7	16.3
Owner Occupied .....	73	114	132	5,456	10,662	7,336	13.3	10.7	18.0
Nonowner Occupied .....	99	139	115	5,424	10,495	7,339	18.3	13.2	15.7
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	17	87	111	1,470	7,055	6,770	11.8	12.4	16.4
Federal .....	Q	6	32	Q	402	1,466	Q	14.1	21.7
State .....	3	23	34	302	1,733	1,751	10.4	13.1	19.3
Local .....	13	59	46	1,085	4,920	3,553	12.2	12.0	12.8
<b>Vacancy Status</b>									
Completely Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	13	49	106	1,275	4,504	6,420	10.6	10.8	16.6
Not At All Vacant .....	176	290	252	11,042	23,426	14,794	15.9	12.4	17.0

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**Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size 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)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Number of Establishments</b>									
One .....	166	252	208	10,331	20,970	13,077	16.0	12.0	15.9
2 to 5 .....	23	58	67	1,908	5,307	3,705	11.8	10.9	18.1
6 to 10 .....	Q	16	17	Q	1,011	872	Q	15.9	19.4
11 to 20 .....	Q	10	19	Q	624	1,325	Q	15.4	14.4
More than 20 .....	Q	Q	47	Q	Q	2,305	Q	Q	20.4
Currently Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Exterior Wall Material</b>									
Brick, Stone or Stucco .....	101	180	161	5,658	15,715	10,922	17.8	11.5	14.7
Concrete (Block or Poured) .....	33	70	52	2,003	5,347	3,388	16.7	13.1	15.3
Concrete Panels .....	Q	30	82	Q	1,843	4,270	Q	16.2	19.2
Siding or Shingles .....	28	12	Q	2,129	1,555	Q	13.1	7.4	Q
Metal Panels .....	19	41	27	2,242	3,737	1,398	8.3	11.0	19.5
Window Glass .....	Q	Q	15	Q	Q	762	Q	Q	20.0
Other .....	Q	Q	13	Q	Q	770	Q	Q	17.3
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>									
Built-Up .....	54	117	134	2,678	9,269	8,834	20.3	12.6	15.2
Shingles (Not Wood) .....	50	53	18	3,736	4,849	1,286	13.3	11.0	14.2
Metal Surfacing .....	31	60	24	3,446	6,247	1,541	9.0	9.6	15.6
Synthetic or Rubber .....	33	84	144	1,342	5,667	7,701	24.6	14.7	18.7
Slate or Tile .....	13	13	5	751	1,296	391	17.0	10.0	12.0
Wooden Materials .....	4	Q	Q	330	Q	Q	13.3	Q	Q
Concrete .....	Q	6	Q	Q	455	Q	Q	14.2	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>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
Any Type of Renovation									
Since 1980 .....	36	95	98	2,893	7,830	6,916	12.3	12.1	14.2
Addition or Annex .....	9	37	46	668	2,805	3,079	14.2	13.2	14.9
Reduction In Floorspace .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements .....	27	73	76	2,091	5,806	5,105	12.7	12.6	15.0
Wall or Roof Replacement .....	13	33	55	1,162	2,989	3,904	11.4	11.2	14.1
Interior Wall									
Re-Configuration .....	15	42	61	1,164	3,222	4,115	12.7	12.9	14.9
HVAC Equipment Upgrade .....	15	60	80	1,173	4,662	4,931	12.7	12.8	16.2
Lighting Upgrade .....	13	59	67	1,202	4,417	4,654	11.0	13.4	14.5
Window Replacement .....	9	32	32	871	2,772	2,633	10.4	11.7	12.1
Plumbing System Upgrade .....	10	30	51	888	2,735	3,519	11.5	11.1	14.6
Insulation Upgrade .....	6	21	25	638	1,655	1,719	8.8	12.4	14.5
Other Renovation .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980 .....	56	71	63	4,769	8,465	4,903	11.7	8.3	12.9
Building Newer than 1980 .....	99	175	198	4,881	12,491	10,159	20.2	14.0	19.5

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**Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size 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)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Energy Sources (more than one may apply)</b>									
Electricity .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
Natural Gas .....	112	243	279	6,775	19,761	16,926	16.5	12.3	16.5
Fuel Oil .....	12	52	186	1,302	3,532	10,308	9.4	14.8	18.0
District Heat .....	Q	20	77	Q	1,232	4,111	Q	16.4	18.8
District Chilled Water .....	Q	13	43	Q	694	2,111	Q	19.0	20.2
Propane .....	21	30	48	1,522	2,577	2,968	14.1	11.7	16.0
Other .....	3	10	9	409	583	388	8.0	17.7	23.4
<b>Space-Heating Energy Sources</b>									
Electricity .....	89	181	185	4,927	13,154	10,519	18.1	13.8	17.6
Electricity Main .....	69	118	79	3,465	7,876	4,656	19.8	15.0	17.0
Electricity Secondary .....	20	63	106	1,462	5,279	5,863	14.0	12.0	18.1
Other Excluding Electricity .....	88	152	166	6,496	14,011	10,885	13.6	10.9	15.3
Buildings without Heating .....	12	7	Q	1,120	1,621	Q	10.9	4.3	Q
<b>Primary Space-Heating Energy Source</b>									
Electricity .....	69	118	79	3,465	7,876	4,656	19.8	15.0	17.0
Natural Gas .....	86	182	191	5,739	15,927	11,297	14.9	11.4	16.9
Fuel Oil .....	8	6	9	913	1,268	Q	8.3	4.9	Q
District Heat .....	Q	18	72	Q	1,112	3,695	Q	16.4	19.4
Propane .....	13	6	Q	999	858	Q	13.2	7.5	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling Energy Sources</b>									
Electricity .....	178	324	312	10,360	25,385	18,575	17.2	12.7	16.8
Other Excluding Electricity .....	Q	9	36	Q	644	1,920	Q	14.5	18.7
Buildings without Cooling .....	11	8	Q	2,142	2,757	Q	5.2	2.8	7.7
<b>Water-Heating Energy Sources</b>									
Electricity .....	88	163	152	5,669	12,392	9,430	15.5	13.1	16.1
Other Excluding Electricity .....	83	167	196	4,423	13,317	11,233	18.7	12.5	17.4
Bldgs without Water Heating .....	19	11	Q	2,451	3,078	Q	7.8	3.6	Q
<b>Cooking Energy Sources</b>									
Electricity .....	40	74	135	1,114	4,754	7,292	35.8	15.5	18.5
Other Excluding Electricity .....	33	46	76	1,019	3,286	4,771	32.4	13.9	16.0
Buildings without Cooking .....	117	221	148	10,410	20,746	9,914	11.2	10.7	14.9
<b>Energy End Uses (more than one may apply)</b>									
Buildings with Space Heating .....	178	334	351	11,423	27,165	21,403	15.5	12.3	16.4
Buildings with Cooling .....	179	333	348	10,401	26,030	20,495	17.2	12.8	17.0
Buildings with Water Heating .....	171	330	347	10,092	25,708	20,663	16.9	12.8	16.8
Buildings with Cooking .....	73	119	211	2,133	8,041	12,063	34.2	14.8	17.5
Buildings with Manufacturing .....	3	18	21	330	1,326	1,482	9.4	13.2	14.0
Buildings with Electricity Generation .....	Q	65	192	Q	3,074	9,547	Q	21.3	20.1

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**Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size 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)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Percent of Floorspace Heated</b>									
Not Heated .....	12	7	Q	1,120	1,621	Q	10.9	4.3	Q
1 to 50 .....	15	27	13	1,612	3,499	1,718	9.2	7.8	7.5
51 to 99 .....	23	39	53	1,455	3,286	3,365	16.1	11.9	15.8
100 .....	139	267	285	8,355	20,380	16,320	16.7	13.1	17.5
<b>Percent of Floorspace Cooled</b>									
Not Cooled .....	11	8	Q	2,142	2,757	Q	5.2	2.8	7.7
1 to 50 .....	28	64	38	2,894	8,811	4,877	9.6	7.2	7.9
51 to 99 .....	37	79	102	1,775	5,265	6,170	21.0	15.0	16.5
100 .....	113	190	208	5,731	11,953	9,447	19.8	15.9	22.0
<b>Percent Lit When Open</b>									
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	20	31	15	2,495	5,662	2,046	8.1	5.4	7.4
51 to 99 .....	44	105	113	3,154	8,556	6,579	14.1	12.3	17.1
100 .....	123	203	231	6,390	13,779	12,620	19.3	14.8	18.3
Building Never Open/ Electricity Not Used .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Percent Lit When Closed</b>									
Zero .....	57	66	36	5,839	8,570	2,976	9.8	7.7	12.0
1 to 50 .....	95	181	137	5,314	15,218	10,415	17.8	11.9	13.1
51 to 100 .....	9	20	16	361	891	841	23.9	22.8	19.6
Building Never Closed/ Electricity Not Used .....	29	74	171	1,029	4,107	7,745	28.1	17.9	22.0
<b>Heating Equipment (more than one may apply)</b>									
Heat Pumps .....	21	65	68	1,147	4,074	3,593	18.2	15.9	18.8
Packaged Heat Pumps .....	15	41	50	686	2,402	2,354	21.2	17.0	21.2
Split-System Heat Pumps .....	6	18	Q	420	1,293	868	13.4	13.7	19.0
Individual Room Heat Pumps .....	Q	18	24	Q	1,113	1,509	Q	16.5	15.9
Furnaces .....	75	95	54	5,783	9,501	4,320	12.9	10.0	12.4
Individual Space Heaters .....	25	68	72	2,329	5,696	4,515	10.7	11.9	16.0
District Heat .....	Q	19	73	Q	1,162	3,903	Q	16.1	18.8
Boilers .....	16	100	180	1,234	8,490	10,699	12.7	11.8	16.8
Packaged Heating Units .....	66	130	114	2,758	8,541	6,722	24.1	15.2	17.0
Other .....	7	20	22	529	1,325	1,388	12.7	15.3	16.0
<b>Cooling Equipment (more than one may apply)</b>									
Residential-Type Central									
Air Conditioners .....	41	56	36	3,091	5,245	2,699	13.4	10.7	13.3
Heat Pumps .....	22	65	73	1,239	4,036	3,766	18.0	16.2	19.3
Packaged Heat Pumps .....	15	42	49	761	2,370	2,295	19.8	17.6	21.2
Split-System Heat Pumps .....	7	18	Q	436	1,289	880	15.0	13.7	18.9
Individual Room Heat Pumps .....	Q	18	31	Q	1,096	1,774	Q	16.5	17.5
Individual Air Conditioners .....	20	59	61	1,984	5,999	4,576	10.2	9.9	13.3
District Chilled Water .....	Q	13	43	Q	694	2,111	Q	19.0	20.2
Central Chillers .....	Q	54	189	Q	2,907	8,666	Q	18.7	21.8
Packaged Air Conditioning									
Units .....	102	196	164	4,698	14,256	11,016	21.8	13.7	14.9
Swamp Coolers .....	6	10	Q	385	776	Q	16.4	12.7	Q
Other .....	Q	Q	13	Q	Q	700	Q	Q	18.1

Energy Information Administration

2003 Commercial Buildings Energy Consumption Survey: Consumption and Expenditures Tables

CONTINUED

**Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size 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)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
Heating .....	49	97	63	3,374	8,613	4,406	14.6	11.3	14.4
Cooling .....	61	117	108	3,903	10,012	7,080	15.7	11.7	15.2
<b>Water Heating Equipment</b>									
Centralized System .....	136	208	171	7,591	16,799	10,266	17.9	12.4	16.7
Distributed System .....	31	63	48	2,263	5,582	3,695	13.6	11.3	12.9
Combination of Centralized and Distributed System .....	Q	58	128	Q	3,327	6,702	Q	17.6	19.1
<b>Lighting Equipment Types (more than one may apply)</b>									
Incandescent .....	93	218	277	5,979	16,896	15,653	15.6	12.9	17.7
Standard Fluorescent .....	181	330	354	11,305	27,126	21,256	16.0	12.2	16.6
Compact Fluorescent .....	47	169	272	2,232	10,936	14,403	21.2	15.4	18.9
High Intensity Discharge .....	17	105	208	998	7,559	12,086	16.8	13.9	17.2
Halogen .....	30	102	181	1,385	6,585	9,734	21.9	15.4	18.6
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
Any Refrigeration.....	164	308	340	9,071	23,752	20,150	18.1	13.0	16.9
Commercial Refrigeration .....	100	160	263	2,716	9,350	14,702	36.9	17.1	17.9
Walk-In Units .....	86	118	233	1,824	5,937	12,493	47.1	19.8	18.6
Cases or Cabinets .....	85	127	210	2,216	7,057	11,151	38.5	18.0	18.8
Residential-Type Units .....	80	207	231	6,783	17,774	14,328	11.8	11.7	16.1
Vending Machines .....	41	230	311	2,237	15,323	17,775	18.3	15.0	17.5
No Refrigeration .....	26	33	Q	3,472	5,034	1,827	7.4	6.5	10.6
<b>Office Equipment (more than one may apply)</b>									
Computers .....	150	330	351	8,727	26,064	20,837	17.2	12.7	16.8
With Flat Screen Monitors .....	39	160	266	2,173	10,178	14,065	18.1	15.7	18.9
Dedicated Servers .....	56	229	312	2,790	15,713	17,835	20.0	14.5	17.5
Laser Printers .....	91	188	175	5,598	16,584	10,830	16.3	11.3	16.2
Inkjet Printers .....	70	207	257	3,821	14,731	13,658	18.2	14.1	18.8
FAX Machines .....	130	314	347	7,520	24,274	20,580	17.3	13.0	16.9
Photocopiers .....	71	286	335	5,167	21,434	19,657	13.8	13.4	17.0
<b>Number of Computers</b>									
None .....	39	10	Q	3,816	2,723	Q	10.3	3.8	Q
1 to 4 .....	89	52	Q	5,366	5,844	1,185	16.7	8.9	Q
5 to 9 .....	30	42	Q	1,725	4,428	Q	17.2	9.5	Q
10 to 19 .....	17	52	14	1,031	4,055	1,524	16.2	12.9	9.4
20 to 49 .....	13	72	34	569	4,639	2,207	23.1	15.6	15.6
50 to 99 .....	Q	47	28	Q	3,297	2,045	Q	14.3	13.6
100 to 249 .....	Q	51	56	Q	3,165	3,522	Q	16.0	16.0
250 or More .....	N	14	198	N	636	9,327	N	21.7	21.2

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**Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size 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)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Number of Dedicated Servers</b>									
None .....	134	112	48	9,753	13,073	4,142	13.7	8.6	11.5
1 to 4 .....	51	172	119	2,667	13,017	8,432	19.1	13.2	14.1
5 to 9 .....	Q	30	40	Q	1,491	2,305	Q	20.1	17.1
10 to 19 .....	Q	14	48	Q	603	2,370	Q	23.8	20.2
20 to 49 .....	N	9	44	N	482	2,101	N	19.5	21.0
50 or More .....	N	Q	62	N	Q	2,627	N	Q	23.5
<b>Number of Photocopiers</b>									
None .....	118	54	25	7,376	7,353	2,321	16.1	7.4	10.8
One .....	48	99	27	3,817	8,993	2,665	12.5	11.0	10.1
2 to 4 .....	19	122	66	1,257	8,908	4,917	15.0	13.7	13.5
5 to 9 .....	Q	38	53	Q	2,032	3,390	Q	18.5	15.5
10 or More .....	N	28	189	N	1,500	8,685	N	18.3	21.7
<b>Energy-Related Space Functions (more than one may apply)</b>									
Commercial Food Preparation .....	73	119	211	2,131	8,029	12,063	34.2	14.8	17.5
Activities with Large Amounts of Hot Water .....	38	113	191	1,477	7,554	10,451	25.7	14.9	18.3
Separate Computer Area .....	16	157	282	969	10,433	15,471	16.3	15.0	18.2
<b>HVAC Conservation Features (more than one may apply)</b>									
Variable Air-Volume System .....	26	111	235	1,048	6,736	11,813	24.5	16.5	19.9
Economizer Cycle .....	29	133	251	1,102	7,217	12,789	26.5	18.4	19.6
HVAC Maintenance .....	133	304	356	7,121	23,011	21,019	18.6	13.2	16.9
Energy Management and Control System (EMCS) .....	9	80	191	364	4,973	10,294	24.8	16.0	18.6
<b>Window and Interior Lighting Features (more than one may apply)</b>									
Multipaned Windows .....	104	228	260	6,162	17,228	15,337	16.9	13.3	17.0
Tinted Window Glass .....	68	163	262	3,766	11,952	13,908	18.1	13.6	18.9
Reflective Window Glass .....	12	48	94	694	2,919	4,915	16.8	16.3	19.1
External Overhangs or Awnings .....	70	112	100	3,596	7,868	5,709	19.4	14.2	17.5
Skylights or Atriums .....	10	56	123	733	4,605	7,170	13.8	12.1	17.2
Daylighting Sensors .....	Q	12	42	Q	789	1,864	Q	15.7	22.5
Specular Reflectors .....	38	145	253	2,184	10,058	13,875	17.3	14.4	18.2
Electronic Ballasts .....	124	276	332	7,346	20,431	19,105	16.8	13.5	17.4
Energy Management and Control System (EMCS) For Lighting .....	Q	21	67	Q	1,172	3,537	Q	18.1	19.0
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
Heating .....	112	221	233	8,146	19,476	15,084	13.7	11.3	15.5
Cooling .....	117	232	247	7,782	19,738	15,670	15.0	11.7	15.8
Lighting .....	154	253	180	10,689	23,175	13,123	14.4	10.9	13.7
Office Equipment .....	57	97	57	4,483	10,317	4,597	12.8	9.4	12.4

Energy Information Administration

2003 Commercial Buildings Energy Consumption Survey: Consumption and Expenditures Tables

CONTINUED

**Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size 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)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Annual Consumption (kilowatthours)</b>									
10,000 or Less .....	4	Q	Q	1,954	Q	Q	1.8	Q	Q
10,001 to 50,000 .....	39	6	Q	5,565	3,534	Q	7.0	1.8	Q
50,001 to 100,000 .....	38	14	Q	2,527	3,373	Q	14.9	4.1	Q
100,001 to 500,000 .....	94	112	3	2,345	11,928	1,838	40.2	9.4	1.6
500,001 to 1,000,000 .....	Q	77	8	Q	4,927	1,684	Q	15.6	4.6
1,000,001 to 5,000,000 .....	Q	129	137	Q	4,144	9,037	Q	31.1	15.1
Over 5,000,000 .....	N	Q	212	N	Q	8,677	N	Q	24.4
<b>Provider of Purchased Electricity (more than one may apply)</b>									
Local Utility .....	182	314	296	12,150	27,035	18,668	15.0	11.6	15.8
Some Other Provider .....	7	23	60	351	1,399	3,196	20.1	16.4	18.9

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.



**Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed 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)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Building Floorspace (Square Feet)</b>									
1,001 to 5,000 .....	23	52	37	2,049	2,668	1,628	11.3	19.6	23.0
5,001 to 10,000 .....	15	35	27	1,859	2,854	1,484	8.1	12.2	18.1
10,001 to 25,000 .....	27	55	37	3,141	4,907	3,322	8.5	11.3	11.2
25,001 to 50,000 .....	16	56	31	2,344	3,994	2,047	6.7	13.9	15.3
50,001 to 100,000 .....	15	58	46	2,060	4,018	2,953	7.5	14.3	15.5
100,001 to 200,000 .....	19	69	53	2,113	3,911	2,993	9.2	17.7	17.7
200,001 to 500,000 .....	21	57	27	2,030	3,427	1,593	10.5	16.6	17.2
Over 500,000 .....	18	65	29	1,566	2,986	1,357	11.4	21.9	21.4
<b>Principal Building Activity</b>									
Education .....	22	53	34	3,191	4,359	2,321	6.8	12.3	14.4
Food Sales .....	Q	29	Q	Q	585	Q	Q	50.0	Q
Food Service .....	10	22	31	613	524	517	16.7	42.9	59.4
Health Care .....	14	43	16	730	1,671	762	19.2	25.5	21.0
Inpatient .....	11	35	7	456	1,218	231	23.7	28.4	30.2
Outpatient .....	3	8	9	273	453	531	11.7	17.9	17.0
Lodging .....	10	39	20	1,236	2,564	1,296	Q	15.3	15.1
Retail (Other Than Mall).....	8	24	29	1,026	1,804	1,487	8.2	13.3	19.7
Office .....	34	131	46	2,852	6,792	2,563	11.9	19.2	17.9
Public Assembly .....	7	20	22	1,455	1,445	1,035	4.6	13.9	21.6
Public Order and Safety .....	Q	7	Q	Q	385	Q	Q	18.5	Q
Religious Worship .....	4	6	7	1,522	1,328	904	2.9	4.8	8.1
Service .....	7	26	11	1,045	1,925	1,012	6.3	13.4	11.4
Warehouse and Storage .....	Q	25	30	1,941	3,851	3,633	8.3	6.5	8.4
Other .....	Q	19	14	Q	684	673	Q	28.0	Q
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Census Region and Division</b>									
Northeast .....	45	72	31	5,944	4,834	2,031	7.5	15.0	15.0
New England .....	8	16	Q	1,404	1,058	479	5.4	15.2	16.7
Middle Atlantic .....	37	56	22	4,540	3,776	1,552	8.2	14.9	14.5
Midwest .....	48	104	63	5,494	7,376	3,832	8.8	14.1	16.6
East North Central .....	37	73	43	3,932	5,036	2,405	9.4	14.6	17.9
West North Central .....	11	31	20	1,562	2,339	1,427	7.2	13.2	14.2
South .....	40	186	149	3,506	10,654	8,606	11.3	17.5	17.3
South Atlantic .....	24	94	92	2,043	5,175	4,878	11.6	18.3	18.9
East South Central .....	6	28	16	535	1,656	1,029	11.8	16.6	15.7
West South Central .....	10	64	41	927	3,822	2,700	10.4	16.7	15.1
West .....	22	85	45	2,220	5,902	2,909	10.1	14.4	15.5
Mountain .....	6	36	14	524	2,204	904	10.6	16.4	15.7
Pacific .....	17	49	31	1,695	3,697	2,005	9.9	13.1	15.4
<b>Climate Zone: 30-Year Average</b>									
Under 2,000 CDD and --									
More than 7,000 HDD .....	24	61	35	3,335	4,624	2,435	7.1	13.2	14.3
5,500-7,000 HDD .....	53	115	56	5,898	7,607	3,571	8.9	15.2	15.7
4,000-5,499 HDD .....	38	84	44	4,024	4,894	2,458	9.4	17.3	17.9
Fewer than 4,000 HDD .....	28	108	83	2,908	7,309	4,954	9.8	14.8	16.7
2,000 CDD or More and --									
Fewer than 4,000 HDD .....	12	78	70	999	4,332	3,959	12.4	18.1	17.7

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**Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed 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)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Number of Floors</b>									
One .....	49	148	137	4,653	11,401	8,881	10.5	13.0	15.5
Two .....	34	99	69	4,361	7,474	4,143	7.8	13.3	16.6
Three .....	25	37	23	3,351	2,465	1,565	7.3	14.9	14.4
Four to Nine .....	26	101	47	3,384	4,507	2,175	7.8	22.5	21.4
Ten or More .....	21	62	13	1,415	2,919	613	14.7	21.3	21.1
<b>Elevators and Escalators (more than one may apply)</b>									
Any Elevators .....	63	234	120	6,479	11,645	6,371	9.8	20.1	18.8
Number of Elevators									
One .....	17	49	37	2,292	3,249	2,567	7.5	15.2	14.5
Two to Five .....	22	99	50	2,812	4,792	2,516	7.8	20.7	20.0
Six or More .....	24	85	32	1,375	3,605	1,288	17.7	23.5	24.8
Any Escalators .....	Q	41	Q	Q	1,598	Q	Q	25.7	Q
<b>Number of Workers (main shift)</b>									
Fewer than 5 .....	36	44	29	4,848	5,608	3,605	7.4	7.8	8.1
5 to 9 .....	15	37	21	1,766	2,693	1,687	8.2	13.9	12.3
10 to 19 .....	14	37	38	2,429	3,045	2,329	5.8	12.2	16.2
20 to 49 .....	24	70	60	3,158	4,568	3,236	7.7	15.2	18.4
50 to 99 .....	18	58	42	1,781	3,725	2,428	10.3	15.6	17.1
100 to 249 .....	18	72	45	1,284	3,779	1,808	13.6	19.2	24.8
250 or More .....	30	129	54	1,896	5,347	2,285	15.8	24.1	23.8
<b>Weekly Operating Hours</b>									
Fewer than 40 .....	6	12	8	2,019	2,548	1,333	3.2	4.6	6.1
40 to 48 .....	26	61	30	3,627	5,076	2,868	7.2	11.9	10.4
49 to 60 .....	38	92	46	4,564	7,361	3,777	8.2	12.5	12.1
61 to 84 .....	26	71	48	2,728	4,607	2,976	9.6	15.4	16.2
85 to 167 .....	20	64	69	1,353	2,818	2,770	14.6	22.9	25.0
Open Continuously .....	39	148	87	2,872	6,355	3,653	13.5	23.2	23.8
<b>Ownership and Occupancy</b>									
Nongovernment Owned .....	108	343	222	12,516	21,961	13,534	8.7	15.6	16.4
Owner Occupied .....									
Nonowner Occupied .....	57	160	101	7,103	10,371	5,981	8.0	15.4	16.9
Unoccupied .....	51	182	120	5,116	10,912	7,230	10.0	16.7	16.6
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	46	104	66	4,647	6,804	3,844	10.0	15.3	17.1
Federal .....									
State .....	Q	17	Q	Q	737	Q	17.0	23.2	Q
Local .....	9	34	17	816	2,122	848	11.1	15.8	20.2
Local .....	23	53	41	2,992	3,945	2,620	7.7	13.5	15.8
<b>Vacancy Status</b>									
Completely Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	33	93	43	3,680	5,665	2,853	8.9	16.4	15.0
Not At All Vacant .....	120	352	244	12,832	22,251	14,179	9.4	15.8	17.2
<b>Number of Establishments</b>									
One .....	112	300	215	12,146	19,255	12,978	9.2	15.6	16.5
2 to 5 .....	27	77	43	2,930	5,146	2,845	9.1	15.0	15.2
6 to 10 .....	4	17	13	467	989	501	8.1	16.9	26.4
11 to 20 .....	Q	17	Q	Q	974	Q	Q	17.8	Q
More than 20 .....	9	34	Q	607	1,720	Q	14.8	19.9	Q
Currently Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q

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**Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed 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)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Predominant Exterior Wall Material</b>									
Brick, Stone or Stucco .....	107	212	122	12,533	12,959	6,802	8.6	16.4	17.9
Concrete (Block or Poured) .....	30	78	46	2,664	5,391	2,683	11.4	14.5	17.3
Concrete Panels .....	Q	72	44	Q	3,493	2,728	Q	20.5	16.0
Siding or Shingles .....	8	16	20	1,128	1,512	1,335	6.9	10.7	15.0
Metal Panels .....	Q	41	40	485	3,854	3,038	10.7	10.7	13.3
Window Glass .....	Q	12	Q	Q	624	Q	Q	19.6	Q
Other .....	Q	11	Q	Q	726	Q	Q	15.7	Q
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>									
Built-Up .....	61	173	71	6,451	10,404	3,926	9.5	16.6	18.2
Shingles (Not Wood) .....	26	55	40	3,179	4,128	2,564	8.2	13.3	15.7
Metal Surfacing .....	7	46	62	943	4,753	5,538	7.3	9.6	11.3
Synthetic or Rubber .....	35	132	93	3,525	6,945	4,240	10.0	19.0	22.0
Slate or Tile .....	9	10	12	1,164	701	572	7.6	13.9	20.7
Wooden Materials .....	Q	7	Q	Q	461	Q	Q	15.3	Q
Concrete .....	Q	12	Q	Q	666	Q	Q	17.5	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>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
Any Type of Renovation									
Since 1980 .....	91	138	N	9,053	8,584	N	10.0	16.1	N
Addition or Annex .....	31	61	N	3,069	3,482	N	10.1	17.7	N
Reduction In Floorspace .....	7	Q	N	501	Q	N	13.2	Q	N
Cosmetic Improvements .....	67	108	N	6,735	6,267	N	10.0	17.3	N
Wall or Roof Replacement .....	41	61	N	4,166	3,890	N	9.8	15.6	N
Interior Wall									
Re-Configuration .....	42	76	N	4,175	4,327	N	9.9	17.6	N
HVAC Equipment Upgrade .....	59	96	N	5,433	5,332	N	10.8	18.0	N
Lighting Upgrade .....	54	86	N	5,481	4,792	N	9.9	17.9	N
Window Replacement .....	36	38	N	4,013	2,264	N	8.9	16.7	N
Plumbing System Upgrade .....	39	53	N	4,011	3,130	N	9.8	16.9	N
Insulation Upgrade .....	23	28	N	2,209	1,803	N	10.3	15.6	N
Other Renovation .....	3	Q	N	451	Q	N	7.4	Q	N
No Renovations Since 1980 .....	64	125	N	8,110	10,027	N	7.9	12.5	N
Building Newer than 1980 .....	N	184	288	N	10,154	17,378	N	18.1	16.6
<b>Energy Sources (more than one may apply)</b>									
Electricity .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
Natural Gas .....	106	318	210	12,091	19,763	11,608	8.7	16.1	18.1
Fuel Oil .....	44	139	67	4,995	6,951	3,196	8.8	20.1	20.9
District Heat .....	31	47	20	2,206	2,330	908	14.0	20.3	22.0
District Chilled Water .....	8	28	20	510	1,433	910	16.3	19.8	21.6
Propane .....	24	39	36	2,025	2,881	2,161	11.8	13.6	16.7
Other .....	2	14	Q	331	804	Q	6.9	17.1	Q

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**Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed 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)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Space-Heating Energy Sources</b>									
Electricity .....	61	238	158	5,769	13,818	9,013	10.5	17.2	17.5
Electricity Main .....	23	144	98	1,886	8,416	5,694	12.4	17.1	17.3
Electricity Secondary .....	37	93	59	3,883	5,402	3,319	9.6	17.3	17.9
Other Excluding Electricity .....	89	198	120	10,661	13,711	7,019	8.4	14.4	17.0
Buildings without Heating .....	5	12	11	733	1,237	1,346	6.8	9.4	7.9
<b>Primary Space-Heating Energy Source</b>									
Electricity .....	23	144	98	1,886	8,416	5,694	12.4	17.1	17.3
Natural Gas .....	83	232	144	9,425	15,149	8,390	8.8	15.3	17.2
Fuel Oil .....	10	9	Q	2,583	958	Q	4.0	9.3	Q
District Heat .....	29	43	19	2,001	2,044	862	14.6	20.9	22.0
Propane .....	4	6	10	450	768	729	8.3	8.1	14.4
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling Energy Sources</b>									
Electricity .....	126	421	267	13,263	25,843	15,214	9.5	16.3	17.5
Other Excluding Electricity .....	Q	18	18	Q	1,090	922	Q	16.4	19.1
Buildings without Cooling .....	Q	8	4	3,308	1,832	1,241	5.7	4.4	2.9
<b>Water-Heating Energy Sources</b>									
Electricity .....	51	216	135	6,039	13,305	8,147	8.5	16.2	16.6
Other Excluding Electricity .....	85	216	144	8,530	13,104	7,338	9.9	16.5	19.7
Bldgs without Water Heating .....	Q	15	9	2,594	2,356	1,893	7.2	6.4	4.5
<b>Cooking Energy Sources</b>									
Electricity .....	38	132	79	3,320	6,449	3,392	11.3	20.4	23.4
Other Excluding Electricity .....	33	70	52	3,440	3,327	2,309	9.7	21.0	22.5
Buildings without Cooking .....	84	246	157	10,404	18,990	11,676	8.1	12.9	13.4
<b>Energy End Uses (more than one may apply)</b>									
Buildings with Space Heating .....	150	436	277	16,430	27,529	16,032	9.1	15.8	17.3
Buildings with Cooling .....	136	439	284	13,855	26,933	16,137	9.8	16.3	17.6
Buildings with Water Heating .....	136	432	279	14,569	26,409	15,484	9.3	16.4	18.0
Buildings with Cooking .....	71	202	131	6,760	9,776	5,701	10.5	20.6	23.0
Buildings with Manufacturing .....	7	20	15	928	1,480	730	7.2	13.4	20.3
Buildings with Electricity Generation .....	35	154	71	2,294	6,955	3,572	15.3	22.2	20.0
<b>Percent of Floorspace Heated</b>									
Not Heated .....	5	12	11	733	1,237	1,346	6.8	9.4	7.9
1 to 50 .....	9	19	26	1,955	2,608	2,266	4.8	7.4	11.5
51 to 99 .....	23	57	36	2,611	3,476	2,020	8.9	16.3	17.8
100 .....	117	360	215	11,864	21,446	11,746	9.9	16.8	18.3
<b>Percent of Floorspace Cooled</b>									
Not Cooled .....	Q	8	4	3,308	1,832	1,241	5.7	4.4	2.9
1 to 50 .....	31	59	40	5,393	7,014	4,176	5.8	8.3	9.6
51 to 99 .....	39	111	68	3,663	6,171	3,377	10.6	18.1	20.2
100 .....	66	269	176	4,799	13,748	8,584	13.8	19.6	20.5

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**Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed 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)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Percent Lit When Open</b>									
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	18	26	22	3,977	3,766	2,461	4.5	6.9	8.9
51 to 99 .....	46	144	71	4,889	9,002	4,398	9.4	16.0	16.3
100 .....	89	274	194	7,611	15,221	9,957	11.7	18.0	19.4
Building Never Open/ Electricity Not Used .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Percent Lit When Closed</b>									
Zero .....	37	67	56	5,199	7,017	5,169	7.1	9.5	10.8
1 to 50 .....	76	213	123	8,854	14,432	7,662	8.6	14.8	16.1
51 to 100 .....	3	20	22	238	961	894	12.7	20.8	25.1
Building Never Closed/ Electricity Not Used .....	39	148	87	2,872	6,355	3,653	13.5	23.2	23.8
<b>Heating Equipment (more than one may apply)</b>									
Heat Pumps .....	20	79	54	1,617	4,223	2,973	12.5	18.6	18.3
Packaged Heat Pumps .....	11	62	33	796	3,059	1,587	14.1	20.1	20.5
Split-System Heat Pumps .....	5	20	15	364	1,214	1,003	12.6	16.7	14.9
Individual Room Heat Pumps .....	9	20	15	753	1,050	888	11.6	19.1	16.5
Furnaces .....	51	100	73	5,908	8,367	5,329	8.5	11.9	13.7
Individual Space Heaters .....	29	89	48	3,645	5,661	3,233	7.8	15.6	14.9
District Heat .....	30	44	19	2,147	2,139	880	13.9	20.5	22.0
Boilers .....	65	164	66	7,751	9,099	3,573	8.4	18.1	18.5
Packaged Heating Units .....	32	156	123	2,791	9,252	5,978	11.3	16.9	20.5
Other .....	4	29	16	386	1,659	1,197	11.0	17.2	13.8
<b>Cooling Equipment (more than one may apply)</b>									
Residential-Type Central									
Air Conditioners .....	32	62	40	3,470	4,779	2,786	9.1	12.9	14.4
Heat Pumps .....	22	78	60	1,699	4,241	3,102	13.0	18.4	19.5
Packaged Heat Pumps .....	12	60	33	860	2,997	1,569	14.4	20.1	20.9
Split-System Heat Pumps .....	5	20	15	419	1,205	981	13.0	16.6	15.7
Individual Room Heat Pumps .....	9	22	20	716	1,183	1,041	12.0	18.4	19.2
Individual Air Conditioners .....	39	69	33	5,406	5,295	1,858	7.2	13.0	17.7
District Chilled Water .....	8	28	20	510	1,433	910	16.3	19.8	21.6
Central Chillers .....	37	153	55	2,346	6,900	2,390	15.8	22.2	23.0
Packaged Air Conditioning Units .....	71	229	162	7,068	13,851	9,050	10.1	16.5	18.0
Swamp Coolers .....	Q	16	Q	Q	1,072	Q	Q	15.3	Q
Other .....	Q	9	Q	Q	528	Q	Q	17.6	Q
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
Heating .....	50	160	N	6,045	10,348	N	8.3	15.4	N
Cooling .....	72	215	N	7,686	13,309	N	9.3	16.1	N
<b>Water Heating Equipment</b>									
Centralized System .....	88	260	167	8,889	16,543	9,225	9.9	15.7	18.1
Distributed System .....	21	71	50	3,221	4,871	3,448	6.4	14.5	14.6
Combination of Centralized and Distributed System .....	28	101	62	2,459	4,996	2,812	11.2	20.2	22.1

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**Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed 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)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Lighting Equipment Types (more than one may apply)</b>									
Incandescent .....	98	318	172	11,094	18,083	9,351	8.8	17.6	18.4
Standard Fluorescent .....	148	438	279	15,996	27,530	16,161	9.3	15.9	17.3
Compact Fluorescent .....	72	264	152	6,587	13,504	7,480	10.9	19.5	20.4
High Intensity Discharge .....	55	151	124	4,992	9,231	6,420	11.0	16.4	19.3
Halogen .....	44	163	107	4,079	8,102	5,522	10.7	20.1	19.3
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
Any Refrigeration.....	131	410	271	13,973	24,165	14,836	9.4	17.0	18.3
Commercial Refrigeration .....	84	266	173	7,421	12,240	7,107	11.4	21.7	24.4
Walk-In Units .....	64	226	146	5,242	9,625	5,387	12.3	23.4	27.2
Cases or Cabinets .....	70	219	134	5,492	9,628	5,304	12.7	22.8	25.2
Residential-Type Units .....	90	269	160	11,110	17,563	10,211	8.1	15.3	15.7
Vending Machines .....	80	311	191	7,833	17,126	10,375	10.2	18.2	18.4
No Refrigeration .....	24	37	17	3,190	4,601	2,542	7.4	8.1	6.6
<b>Office Equipment (more than one may apply)</b>									
Computers .....	131	426	274	14,244	25,894	15,490	9.2	16.5	17.7
With Flat Screen Monitors .....	68	254	143	6,001	13,348	7,068	11.4	19.1	20.3
Dedicated Servers .....	84	322	190	8,136	17,936	10,265	10.4	17.9	18.5
Laser Printers .....	77	233	145	9,240	15,256	8,516	8.3	15.2	17.0
Inkjet Printers .....	77	275	182	6,987	15,573	9,650	11.1	17.6	18.8
FAX Machines .....	123	408	261	13,208	24,496	14,669	9.3	16.6	17.8
Photocopiers .....	106	362	224	11,473	21,832	12,952	9.2	16.6	17.3
<b>Number of Computers</b>									
None .....	24	21	14	2,920	2,872	1,888	8.1	7.4	7.2
1 to 4 .....	30	64	59	4,022	5,011	3,362	7.5	12.7	17.6
5 to 9 .....	14	35	31	2,124	2,820	2,236	6.5	12.5	14.0
10 to 19 .....	11	39	33	1,268	3,254	2,088	8.8	12.1	15.8
20 to 49 .....	19	55	46	1,808	3,178	2,428	10.4	17.3	18.9
50 to 99 .....	13	44	19	1,607	2,523	1,246	8.3	17.3	15.1
100 to 249 .....	16	56	36	1,507	3,277	1,907	10.3	17.1	19.0
250 or More .....	28	133	50	1,909	5,832	2,222	14.8	22.8	22.5
<b>Number of Dedicated Servers</b>									
None .....	70	125	98	9,027	10,829	7,112	7.8	11.6	13.8
1 to 4 .....	49	177	115	5,444	11,560	7,112	9.1	15.3	16.2
5 to 9 .....	10	37	26	1,078	1,607	1,180	9.4	23.0	22.3
10 to 19 .....	10	33	20	795	1,468	764	13.1	22.3	26.4
20 to 49 .....	Q	41	8	Q	1,921	423	Q	21.4	19.5
50 or More .....	10	34	20	581	1,380	787	17.5	24.7	25.4
<b>Number of Photocopiers</b>									
None .....	49	85	64	5,690	6,934	4,426	8.6	12.2	14.6
One .....	32	72	70	4,324	6,116	5,035	7.4	11.7	14.0
2 to 4 .....	30	107	70	3,669	7,155	4,258	8.1	15.0	16.5
5 to 9 .....	10	49	36	1,256	2,754	1,505	Q	17.8	23.6
10 or More .....	34	135	48	2,224	5,806	2,154	15.4	23.2	22.1

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**Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed 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)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Energy-Related Space Functions (more than one may apply)</b>									
Commercial Food Preparation .....	71	202	131	6,748	9,774	5,701	10.5	20.6	23.0
Activities with Large Amounts of Hot Water .....	52	178	111	4,912	9,140	5,430	10.6	19.5	20.5
Separate Computer Area .....	68	255	131	6,222	13,495	7,156	11.0	18.9	18.2
<b>HVAC Conservation Features (more than one may apply)</b>									
Variable Air-Volume System .....	45	209	118	3,465	9,798	6,335	13.0	21.3	18.6
Economizer Cycle .....	53	233	127	3,618	11,196	6,294	14.6	20.8	20.1
HVAC Maintenance .....	127	399	266	13,084	23,498	14,569	9.7	17.0	18.3
Energy Management and Control System (EMCS) .....	35	158	87	2,975	8,078	4,577	11.6	19.5	19.1
<b>Window and Interior Lighting Features (more than one may apply)</b>									
Multipaned Windows .....	84	293	216	9,534	16,692	12,502	8.8	17.6	17.3
Tinted Window Glass .....	63	273	157	5,462	14,980	9,183	11.5	18.2	17.1
Reflective Window Glass .....	19	81	53	1,576	4,009	2,943	12.3	20.2	17.8
External Overhangs or Awnings .....	38	149	95	4,112	8,141	4,919	9.3	18.3	19.3
Skylights or Atriums .....	23	102	64	2,661	6,126	3,722	8.5	16.7	17.3
Daylighting Sensors .....	5	31	25	448	1,407	1,014	10.3	21.7	24.9
Specular Reflectors .....	64	226	146	6,340	12,258	7,519	10.1	18.4	19.4
Electronic Ballasts .....	122	371	240	11,938	21,721	13,223	10.2	17.1	18.1
Energy Management and Control System (EMCS) For Lighting .....	6	51	34	565	2,606	1,610	11.1	19.4	21.3
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
Heating .....	95	294	176	11,574	20,077	11,055	8.2	14.6	16.0
Cooling .....	99	304	192	11,103	20,157	11,930	9.0	15.1	16.1
Lighting .....	113	285	190	13,346	20,951	12,690	8.4	13.6	15.0
Office Equipment .....	46	96	69	6,195	8,140	5,062	7.4	11.8	13.7
<b>Annual Consumption (kilowatthours)</b>									
10,000 or Less .....	1	2	1	1,102	1,083	676	1.4	1.5	1.1
10,001 to 50,000 .....	15	19	10	3,538	3,820	1,870	4.3	5.1	5.5
50,001 to 100,000 .....	16	23	13	2,344	2,382	1,735	6.7	9.5	7.7
100,001 to 500,000 .....	42	100	67	4,712	7,155	4,244	9.0	13.9	15.9
500,001 to 1,000,000 .....	13	48	35	1,308	3,269	2,160	10.2	14.8	16.3
1,000,001 to 5,000,000 .....	35	136	98	2,329	6,488	4,391	14.9	20.9	22.4
Over 5,000,000 .....	32	120	63	1,830	4,568	2,301	17.4	26.3	27.2

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**Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed 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)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Provider of Purchased Electricity (more than one may apply)</b>									
Local Utility .....	142	395	254	15,846	26,253	15,754	8.9	15.0	16.2
Some Other Provider .....	15	51	25	1,329	2,366	1,250	11.1	21.5	19.8

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.