

Table E3. Electricity Consumption (Btu) by End Use for Non-Mall Buildings, 2003

	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	3,037	115	397	384	52	1,143	22	354	64	148	357
Building Floorspace (Square Feet)											
1,001 to 5,000	386	19	43	18	11	93	7	137	8	12	38
5,001 to 10,000	262	12	35	17	5	83	4	56	6	9	35
10,001 to 25,000	407	20	46	44	8	151	3	53	9	19	54
25,001 to 50,000	350	15	55	50	9	121	2	34	7	16	42
50,001 to 100,000	405	16	57	65	7	158	2	29	6	18	45
100,001 to 200,000	483	16	62	80	5	195	1	24	Q	31	56
200,001 to 500,000	361	8	51	54	5	162	1	9	8	19	43
Over 500,000	383	8	47	56	3	181	2	12	8	23	43
Principal Building Activity											
Education	371	15	74	83	11	113	2	16	4	32	21
Food Sales	208	6	12	7	Q	46	2	119	2	2	10
Food Service	217	10	28	24	10	42	13	70	2	2	15
Health Care	248	6	34	42	2	105	1	8	4	10	36
Inpatient	178	3	25	38	2	76	1	4	2	7	21
Outpatient	69	3	9	4	(*)	28	(*)	4	2	3	15
Lodging	235	14	24	14	12	124	2	12	Q	6	24
Retail (Other Than Mall).....	211	6	25	16	2	111	(*)	22	3	4	22
Office	719	33	101	63	7	281	1	35	32	74	91
Public Assembly	167	5	35	63	(*)	27	(*)	9	Q	3	23
Public Order and Safety	57	2	8	10	3	18	(*)	3	1	2	10
Religious Worship	62	3	11	5	(*)	17	(*)	6	(*)	1	18
Service	149	6	15	24	(*)	63	Q	9	1	3	28
Warehouse and Storage	244	5	13	20	2	132	Q	36	2	5	30
Other	133	2	16	11	Q	59	Q	10	Q	5	22
Vacant	15	1	2	1	Q	4	Q	(*)	Q	(*)	7
Year Constructed											
Before 1920	90	2	6	11	Q	34	1	17	2	4	12
1920 to 1945	208	4	16	30	2	89	1	26	3	8	30
1946 to 1959	231	8	26	34	5	87	2	26	4	11	28
1960 to 1969	327	12	43	50	5	113	1	40	6	18	39
1970 to 1979	572	27	72	74	10	220	4	58	12	27	67
1980 to 1989	627	28	91	66	12	236	4	66	15	37	72
1990 to 1999	690	24	99	88	12	246	6	85	17	35	78
2000 to 2003	293	10	45	32	4	116	3	38	4	9	32
Census Region and Division											
Northeast	503	20	37	67	6	206	2	58	12	30	64
New England	108	5	6	12	2	42	1	19	2	6	13
Middle Atlantic	395	15	31	55	4	164	1	39	10	24	51
Midwest	737	44	52	103	11	287	5	89	15	35	96
East North Central	524	28	34	77	6	208	4	59	11	27	68
West North Central	213	16	18	25	4	79	1	29	4	9	27
South	1,278	33	242	153	28	449	12	154	18	55	134
South Atlantic	717	20	124	85	19	258	7	87	11	35	71
East South Central	171	6	23	22	3	63	1	24	2	5	21
West South Central	390	8	96	46	6	128	3	43	5	14	41
West	519	18	66	61	7	200	3	53	19	28	64
Mountain	191	7	25	23	2	78	Q	18	Q	8	22
Pacific	329	11	41	38	5	122	2	35	13	20	42

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	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	3,037	115	397	384	52	1,143	22	354	64	148	357
Climate Zone: 30-Year Average											
Under 2,000 CDD and --											
More than 7,000 HDD	408	23	22	60	5	157	3	59	8	18	53
5,500-7,000 HDD	763	44	55	98	11	309	6	88	16	39	97
4,000-5,499 HDD	567	22	58	69	8	230	3	61	18	31	66
Fewer than 4,000 HDD	748	16	113	94	17	275	6	93	14	33	87
2,000 CDD or More and --											
Fewer than 4,000 HDD	549	9	149	62	11	172	5	53	7	27	53
Number of Floors											
One	1,140	50	155	110	23	384	13	230	17	34	125
Two	689	25	88	98	16	254	5	70	18	32	85
Three	286	13	32	40	4	113	1	22	7	16	38
Four to Nine	595	16	81	99	6	240	2	25	13	41	72
Ten or More	327	10	41	38	4	152	1	8	9	25	38
Elevators and Escalators (more than one may apply)											
Any Elevators	1,421	46	193	221	18	581	5	53	38	96	169
Number of Elevators.....											
One	354	13	47	61	6	134	1	20	7	22	42
Two to Five	585	22	79	89	7	234	2	22	19	43	70
Six or More	481	10	68	70	5	214	2	12	12	31	57
Any Escalators	193	5	32	30	2	80	Q	4	Q	11	22
Number of Workers (main shift)											
Fewer than 5	372	18	39	28	7	119	3	92	3	5	57
5 to 9	248	12	31	21	6	78	4	56	4	6	31
10 to 19	303	17	40	31	8	103	5	52	5	9	35
20 to 49	524	18	71	69	9	191	4	67	14	21	59
50 to 99	403	16	55	67	7	151	2	37	8	19	41
100 to 249	460	16	67	68	8	188	2	27	9	25	49
250 or More	727	18	95	100	7	313	2	22	20	63	85
Weekly Operating Hours											
Fewer than 40	90	5	17	7	1	22	1	12	1	2	22
40 to 48	397	22	66	42	6	133	1	33	10	25	60
49 to 60	598	23	83	71	7	229	2	50	15	34	84
61 to 84	497	19	62	67	9	184	4	64	9	24	55
85 to 167	523	16	54	77	9	167	9	119	5	22	44
Open Continuously	932	30	116	119	20	408	4	76	23	41	93
Ownership and Occupancy											
Nongovernment Owned.....	2,300	91	280	224	38	897	19	319	54	102	276
Owner Occupied	1,086	38	136	116	16	424	5	135	28	51	138
Nonowner Occupied	1,205	52	144	108	22	471	14	184	25	51	134
Unoccupied	8	Q	Q	(*)	Q	2	(*)	Q	Q	Q	4
Government Owned	737	24	117	160	14	246	3	35	10	47	81
Federal	131	2	13	24	(*)	63	Q	3	2	5	19
State	204	3	25	53	3	62	(*)	9	3	Q	24
Local	402	19	79	83	11	120	3	23	5	21	38
Vacancy Status											
Completely Vacant	9	Q	Q	(*)	Q	3	Q	Q	Q	Q	5
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	575	25	76	68	7	240	2	30	13	42	74
Not At All Vacant	2,446	89	320	315	45	899	20	324	51	107	277

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	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	3,037	115	397	384	52	1,143	22	354	64	148	357
Number of Establishments											
One	2,138	82	272	272	43	790	19	290	42	87	242
2 to 5	502	16	67	64	5	199	2	49	12	24	64
6 to 10	115	5	15	14	2	43	(*)	5	3	Q	13
11 to 20	98	5	15	12	1	37	(*)	5	2	7	13
More than 20	174	5	29	22	2	72	(*)	5	5	15	20
Currently Unoccupied	9	Q	Q	(*)	Q	3	Q	Q	Q	Q	5
Predominant Exterior Wall Material											
Brick, Stone or Stucco	1,507	58	208	207	31	530	13	180	30	73	176
Concrete (Block or Poured)	530	19	72	62	9	202	4	72	Q	18	60
Concrete Panels	399	9	50	46	4	185	1	22	10	28	43
Siding or Shingles	150	9	17	14	4	49	2	29	3	6	18
Metal Panels	297	12	24	35	3	120	Q	44	4	11	42
Window Glass	67	3	11	7	1	25	(*)	2	2	6	9
Other	63	3	10	7	(*)	25	1	4	1	4	7
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material											
Built-Up	1,041	30	143	134	17	405	8	107	23	57	117
Shingles (Not Wood)	413	19	50	41	13	134	4	79	9	15	50
Metal Surfacing	392	18	47	48	7	150	Q	47	5	13	55
Synthetic or Rubber	890	37	116	126	12	329	6	91	22	53	99
Slate or Tile	104	4	16	11	2	34	1	17	2	4	12
Wooden Materials	37	2	6	4	1	14	Q	4	1	1	4
Concrete	99	Q	11	Q	1	Q	Q	5	1	3	13
Other	41	Q	6	3	Q	22	(*)	3	(*)	1	4
No One Major Type	20	Q	3	4	Q	6	Q	2	(*)	Q	3
Renovations in Buildings Constructed Before 1980 (more than one may apply)											
Any Type of Renovation											
Since 1980	780	30	85	112	14	298	5	88	15	42	90
Addition or Annex	315	13	35	55	5	121	3	31	4	14	35
Reduction In Floorspace	52	2	5	9	Q	22	(*)	2	1	3	7
Cosmetic Improvements	600	23	64	84	11	230	4	70	12	33	68
Wall or Roof Replacement	347	12	38	53	7	140	2	27	7	22	39
Interior Wall											
Re-Configuration	401	15	44	61	5	162	2	32	8	24	49
HVAC Equipment Upgrade.....	527	21	59	81	9	206	3	45	11	32	60
Lighting Upgrade	478	18	50	75	7	184	2	49	10	28	55
Window Replacement	251	9	23	37	4	100	2	26	5	16	29
Plumbing System Upgrade	314	10	32	50	5	129	2	25	5	19	36
Insulation Upgrade	174	6	20	30	2	64	1	15	3	11	21
Other Renovation	16	1	1	2	Q	7	Q	2	(*)	1	2
No Renovations Since 1980.....	647	22	78	87	10	246	4	78	12	26	85
Building Newer than 1980	1,609	62	234	185	29	599	13	188	36	80	182
Energy Sources (more than one may apply)											
Electricity	3,037	115	397	384	52	1,143	22	354	64	148	357
Natural Gas	2,161	62	269	295	30	842	17	239	43	108	256
Fuel Oil	854	29	109	121	12	359	4	43	24	51	102
District Heat	335	3	24	69	3	147	1	12	5	29	42
District Chilled Water	192	2	16	49	2	68	1	7	3	Q	23
Propane	339	9	36	40	5	141	2	51	5	9	40
Other	77	2	8	14	1	30	(*)	6	Q	4	10

Energy Information Administration

2003 Commercial Buildings Energy Consumption Survey: Energy End-Use Consumption Tables

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	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	3,037	115	397	384	52	1,143	22	354	64	148	357
Space-Heating Energy Sources^a											
Electricity	1,553	115	225	155	37	571	12	164	36	70	168
Electricity Main	907	92	151	68	28	303	8	111	21	37	88
Electricity Secondary	646	23	74	87	9	267	5	53	15	33	80
Other Excluding Electricity	1,390	(*)	152	221	14	543	9	171	26	76	177
Buildings without Heating	93	(*)	20	8	1	29	1	19	1	2	11
Primary Space-Heating Energy Source											
Electricity	907	92	151	68	28	303	8	111	21	37	88
Natural Gas	1,565	19	192	219	18	620	11	179	34	75	197
Fuel Oil	77	1	6	13	1	29	(*)	13	1	4	9
District Heat	310	2	21	65	3	135	1	11	4	27	40
Propane	70	1	7	9	1	18	Q	19	Q	Q	10
Other	16	Q	1	2	(*)	7	(*)	2	Q	Q	2
Cooling Energy Source^b											
Electricity	2,776	110	397	326	50	1,032	21	335	61	126	318
Other Excluding Electricity	157	Q	(*)	42	2	63	(*)	6	3	Q	19
Buildings without Cooling	104	4	(*)	15	1	48	(*)	14	1	2	20
Water-Heating Energy Source											
Electricity	1,373	72	196	142	52	487	9	157	33	66	159
Other Excluding Electricity	1,519	38	186	228	(*)	593	13	179	29	79	174
Bldgs without Water Heating	144	4	16	15	(*)	63	Q	18	2	3	24
Cooking Energy Source											
Electricity	848	37	117	125	21	294	22	103	14	36	78
Other Excluding Electricity	529	15	76	78	8	193	(*)	81	9	18	52
Buildings without Cooking	1,659	63	205	181	23	656	(*)	170	41	93	227
Energy End Uses (more than one may apply)											
Buildings with Space Heating	2,944	115	377	376	51	1,113	21	335	63	146	346
Buildings with Cooling	2,933	111	397	369	52	1,095	22	341	63	147	337
Buildings with Water Heating	2,892	110	382	370	52	1,080	22	336	62	145	333
Buildings with Cooking	1,377	51	193	203	30	487	22	184	23	55	130
Buildings with Manufacturing	141	4	9	17	Q	64	Q	10	2	6	25
Buildings with Electricity Generation	890	30	117	129	13	367	4	42	28	56	103
Percent of Floorspace Heated											
Not Heated	93	(*)	20	8	1	29	1	19	1	2	11
1 to 50	187	6	14	18	4	69	Q	39	Q	4	25
51 to 99	395	14	49	49	7	152	3	54	6	16	46
100	2,361	95	314	309	41	892	17	242	49	127	275
Percent of Floorspace Cooled											
Not Cooled	104	4	(*)	15	1	48	(*)	14	1	2	20
1 to 50	444	15	23	56	7	195	Q	64	5	12	63
51 to 99	746	29	93	97	11	273	5	104	13	38	82
100	1,744	67	281	215	34	627	14	173	45	96	191

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	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	3,037	115	397	384	52	1,143	22	354	64	148	357
Percent Lit When Open											
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	225	12	32	29	6	63	2	28	Q	6	40
51 to 99	894	34	116	125	16	328	5	87	21	58	104
100	1,901	68	248	230	31	747	15	236	35	85	207
Building Never Open/ Electricity Not Used	12	Q	1	(*)	Q	4	Q	1	Q	Q	6
Percent Lit When Closed											
Zero	543	21	71	69	7	173	4	74	10	30	84
1 to 50	1,407	58	195	181	23	487	13	180	29	72	169
51 to 100	155	5	16	14	Q	75	1	24	2	5	11
Building Never Closed/ Electricity Not Used	932	30	116	119	20	408	4	76	23	41	93
Heating Equipment (more than one may apply)											
Heat Pumps	523	27	87	53	13	201	4	46	12	25	55
Packaged Heat Pumps	359	18	61	33	8	141	2	33	9	17	37
Split-System Heat Pumps	136	6	23	18	4	51	Q	11	2	5	15
Individual Room Heat Pumps ..	148	8	25	17	5	60	1	7	2	8	14
Furnaces	761	35	78	84	13	287	6	123	13	27	95
Individual Space Heaters	563	37	61	65	11	225	2	61	10	26	66
District Heat	317	2	22	66	3	139	1	11	4	28	40
Boilers	1,009	27	126	168	13	405	4	59	24	56	126
Packaged Heating Units	1,058	51	156	119	21	383	10	134	24	47	112
Other	168	10	21	20	3	64	1	18	3	8	20
Cooling Equipment (more than one may apply)											
Residential-Type Central											
Air Conditioners	455	19	58	67	11	158	4	59	8	15	56
Heat Pumps	547	26	91	55	13	209	4	54	12	25	58
Packaged Heat Pumps	360	18	59	32	8	142	2	36	9	17	38
Split-System Heat Pumps	139	5	24	19	4	50	Q	13	2	5	16
Individual Room Heat Pumps ..	171	8	30	19	5	68	1	11	3	8	17
Individual Air Conditioners	479	20	63	62	13	196	3	44	7	18	53
District Chilled Water	192	2	16	49	2	68	1	7	3	Q	23
Central Chillers	836	22	122	140	10	338	3	27	24	50	99
Packaged Air Conditioning											
Units	1,578	64	216	179	27	595	14	205	30	72	176
Swamp Coolers	75	2	9	9	2	28	1	12	1	2	9
Other	75	3	11	10	(*)	28	(*)	Q	1	4	8
Main Equipment Replaced Since 1990 (more than one may apply)											
Heating	716	36	91	84	16	258	6	83	17	37	88
Cooling	976	41	124	120	19	363	7	110	23	55	114
Water Heating Equipment											
Centralized System	1,759	68	219	227	31	630	16	250	35	79	204
Distributed System	483	20	75	54	10	179	3	52	9	23	58
Combination of Centralized and Distributed System	651	22	88	88	12	271	3	34	19	43	71

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All Buildings*	3,037	115	397	384	52	1,143	22	354	64	148	357
Lighting Equipment Types (more than one may apply)											
Incandescent	2,006	75	257	257	34	803	17	193	44	105	222
Standard Fluorescent	2,951	111	388	378	50	1,103	22	344	63	147	345
Compact Fluorescent	1,665	61	220	238	27	652	12	139	40	88	189
High Intensity Discharge	1,126	36	131	170	16	472	5	82	22	61	130
Halogen	1,069	40	132	139	18	453	8	94	22	50	114
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)											
Any Refrigeration.....	2,771	104	359	350	49	1,030	22	354	59	137	307
Commercial Refrigeration	1,788	61	237	236	32	651	21	283	28	70	169
Walk-In Units	1,489	48	196	198	27	539	20	250	22	56	133
Cases or Cabinets	1,441	48	193	185	24	522	17	239	23	54	135
Residential-Type Units	1,769	71	236	236	31	681	9	161	34	98	212
Vending Machines	1,985	67	261	275	31	784	9	183	45	110	219
No Refrigeration	266	11	39	34	4	112	Q	(*)	5	11	50
Office Equipment (more than one may apply)											
Computers	2,838	107	377	370	48	1,077	19	299	63	148	328
With Flat Screen Monitors	1,589	57	213	223	22	614	8	112	46	109	187
Dedicated Servers	2,035	74	272	279	30	797	9	164	57	124	230
Laser Printers	1,550	65	208	197	27	569	11	182	38	76	177
Inkjet Printers	1,820	61	251	242	29	717	9	158	39	102	211
FAX Machines	2,701	100	359	352	45	1,036	18	277	62	142	310
Photocopiers	2,361	83	321	327	35	928	9	187	60	136	276
Number of Computers											
None	199	8	20	14	4	66	3	55	1	(*)	29
1 to 4	523	26	58	45	14	166	9	133	5	5	60
5 to 9	274	14	39	28	4	102	2	40	4	6	35
10 to 19	285	11	39	33	5	108	1	40	5	9	35
20 to 49	408	13	54	56	6	161	Q	38	Q	16	50
50 to 99	259	9	38	38	5	108	1	11	6	14	29
100 to 249	368	15	54	61	6	142	1	16	7	25	41
250 or More	722	19	96	109	8	291	2	21	22	73	79
Number of Dedicated Servers											
None	1,002	41	125	105	23	346	13	191	7	25	127
1 to 4	1,166	50	159	156	20	451	5	128	17	48	131
5 to 9	250	7	36	40	4	100	Q	11	6	17	28
10 to 19	216	5	25	35	2	83	(*)	12	5	23	25
20 to 49	183	5	32	26	2	71	1	6	6	14	21
50 or More	219	7	20	23	2	92	Q	7	22	21	25
Number of Photocopiers											
None	676	32	77	57	18	215	13	167	4	12	81
One	593	26	73	66	10	224	3	92	9	16	74
2 to 4	706	25	100	104	12	270	3	59	19	34	80
5 to 9	323	11	45	52	5	121	1	14	8	29	37
10 or More	738	21	103	105	8	312	2	21	25	56	85

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	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	3,037	115	397	384	52	1,143	22	354	64	148	357
Energy-Related Space Functions (more than one may apply)											
Commercial Food Preparation....	1,376	51	193	203	30	486	22	184	23	55	130
Activities with Large Amounts of Hot Water	1,167	46	158	174	27	463	12	99	18	50	120
Separate Computer Area	1,550	54	219	232	23	615	6	85	45	101	169
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System.....	1,267	45	181	176	19	498	7	71	35	85	151
Economizer Cycle	1,408	51	182	206	21	556	7	97	37	91	161
HVAC Maintenance	2,703	98	362	360	46	1,030	20	282	59	137	310
Energy Management and Control System (EMCS)	954	30	142	160	14	368	4	40	27	61	108
Window and Interior Lighting Features (more than one may apply)											
Multipaned Windows	2,024	87	244	263	34	774	16	222	46	98	239
Tinted Window Glass	1,682	56	235	221	24	663	10	135	41	95	202
Reflective Window Glass	522	20	77	71	8	211	2	33	11	29	60
External Overhangs or Awnings	961	37	120	121	19	339	11	140	25	47	101
Skylights or Atriums	645	20	81	96	8	273	3	35	20	33	75
Daylighting Sensors	206	6	29	30	2	79	1	12	Q	12	23
Specular Reflectors	1,487	52	195	207	23	596	9	113	34	81	177
Electronic Ballasts	2,498	91	335	336	41	937	17	262	56	132	291
Energy Management and Control System (EMCS) For Lighting	311	10	47	44	4	125	1	15	Q	19	35
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)											
Heating	1,930	73	255	262	33	717	14	193	49	101	233
Cooling	2,031	74	281	275	36	755	15	198	45	111	241
Lighting	2,006	81	270	255	31	693	17	265	40	104	251
Office Equipment	721	29	107	97	13	258	5	81	13	26	92
Annual Consumption (kilowatthours)											
10,000 or Less	13	(*)	1	1	(*)	4	(*)	2	(*)	(*)	4
10,001 to 50,000	153	8	19	10	2	55	(*)	22	3	5	29
50,001 to 100,000	176	8	22	14	4	55	1	35	4	6	27
100,001 to 500,000	715	35	84	72	16	228	10	146	14	27	81
500,001 to 1,000,000	331	14	51	44	10	115	3	43	5	13	33
1,000,001 to 5,000,000	917	34	124	145	14	347	4	78	16	55	100
Over 5,000,000	732	16	95	99	7	338	2	28	21	42	83

Table E3. Electricity Consumption (Btu) by End Use for Non-Mall Buildings, 2003

	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	3,037	115	397	384	52	1,143	22	354	64	148	357
Provider of Purchased Electricity (more than one may apply)											
Local Utility	2,700	104	347	340	49	1,007	21	329	53	131	319
Some Other Provider	308	9	44	42	3	122	1	25	Q	16	35

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. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

^a Totals in the "Electricity," "Electricity Secondary," and "Other Excluding Electricity" rows have been revised and values do not match published values in consumption Table C13

(http://www.eia.doe.gov/emeu/cbecs/cbecs2003/detailed_tables_2003/detailed_tables_2003.html).

^b Totals in the "Electricity" and "Other Excluding Electricity" rows have been revised and do not match published value in consumption Table C13.

(*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

Notes: • Due to rounding, data may not sum to totals. • HVAC = Heating, Ventilation, and Air Conditioning.

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

Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
Building Floorspace (Square Feet)											
1,001 to 5,000	60.8	2.9	6.8	2.9	1.7	14.6	1.1	21.6	1.2	1.9	6.0
5,001 to 10,000	42.2	2.0	5.6	2.8	0.9	13.3	0.7	9.0	0.9	1.5	5.7
10,001 to 25,000	35.8	1.7	4.1	3.9	0.7	13.3	0.3	4.6	0.8	1.7	4.7
25,001 to 50,000	41.8	1.8	6.6	6.0	1.0	14.4	0.2	4.1	0.8	1.9	5.0
50,001 to 100,000	44.8	1.8	6.4	7.2	0.8	17.5	0.3	3.3	0.7	2.0	5.0
100,001 to 200,000	53.5	1.8	6.9	8.8	0.5	21.7	0.1	2.7	Q	3.5	6.2
200,001 to 500,000	51.2	1.2	7.2	7.6	0.7	23.0	0.2	1.2	1.1	2.7	6.1
Over 500,000	64.9	1.4	7.9	9.5	0.5	30.6	0.3	2.1	1.4	3.9	7.3
Principal Building Activity											
Education	37.6	1.5	7.5	8.4	1.1	11.5	0.2	1.6	0.4	3.3	2.1
Food Sales	168.5	5.1	9.9	6.0	Q	37.2	1.9	96.1	1.6	1.5	8.1
Food Service	130.9	6.3	17.0	14.8	6.3	25.4	8.1	42.1	1.0	1.0	8.9
Health Care	78.3	1.9	10.6	13.3	0.8	33.1	0.2	2.6	1.2	3.2	11.3
Inpatient	93.7	1.6	13.0	20.0	1.1	40.1	0.4	2.0	1.1	3.6	10.9
Outpatient	55.0	2.3	7.0	3.3	0.3	22.6	0.1	3.5	1.3	2.6	12.0
Lodging	46.1	2.8	4.7	2.7	2.3	24.3	0.4	2.3	Q	1.2	4.7
Retail (Other Than Mall).....	48.8	1.5	5.9	3.7	0.4	25.7	0.1	5.0	0.6	0.9	5.1
Office	58.9	2.7	8.3	5.2	0.6	23.1	0.1	2.9	2.6	6.1	7.5
Public Assembly	42.6	1.3	8.9	15.9	0.1	7.0	0.1	2.2	Q	0.8	5.8
Public Order and Safety	52.3	1.6	7.2	9.5	3.0	16.5	0.1	2.9	0.6	1.5	9.2
Religious Worship	16.6	0.8	2.8	1.4	0.1	4.4	0.1	1.7	0.1	0.2	4.9
Service	37.5	1.4	3.8	6.1	0.1	15.8	Q	2.2	0.3	0.8	7.0
Warehouse and Storage	25.9	0.5	1.4	2.2	0.2	14.0	Q	3.8	0.2	0.5	3.2
Other	76.8	1.4	9.3	6.1	0.3	34.3	Q	6.0	Q	2.9	12.6
Vacant	8.3	0.5	0.8	0.5	Q	2.4	Q	0.2	Q	Q	3.7
Year Constructed											
Before 1920	24.1	0.5	1.7	2.9	Q	9.2	0.3	4.5	0.6	0.9	3.2
1920 to 1945	31.5	0.6	2.4	4.5	0.3	13.5	0.2	3.9	0.4	1.2	4.5
1946 to 1959	33.7	1.2	3.8	5.0	0.7	12.8	0.3	3.8	0.6	1.6	4.1
1960 to 1969	40.6	1.4	5.3	6.2	0.7	14.1	0.2	4.9	0.8	2.3	4.8
1970 to 1979	54.2	2.5	6.8	7.0	1.0	20.9	0.4	5.5	1.2	2.6	6.3
1980 to 1989	61.7	2.8	9.0	6.5	1.2	23.3	0.4	6.5	1.5	3.6	7.1
1990 to 1999	57.1	2.0	8.2	7.3	1.0	20.4	0.5	7.0	1.4	2.9	6.4
2000 to 2003	55.3	1.9	8.4	6.0	0.8	22.0	0.5	7.1	0.7	1.7	6.1
Census Region and Division											
Northeast	39.3	1.5	2.9	5.2	0.5	16.1	0.2	4.6	1.0	2.4	5.0
New England	36.7	1.6	2.0	4.1	0.7	14.2	0.3	6.5	0.7	2.1	4.4
Middle Atlantic	40.0	1.5	3.1	5.6	0.4	16.6	0.1	4.0	1.0	2.4	5.2
Midwest	44.1	2.6	3.1	6.1	0.6	17.2	0.3	5.3	0.9	2.1	5.7
East North Central	46.0	2.4	3.0	6.8	0.6	18.3	0.3	5.2	1.0	2.3	6.0
West North Central	40.0	3.0	3.4	4.8	0.8	14.8	0.2	5.5	0.7	1.6	5.1
South	56.1	1.4	10.6	6.7	1.2	19.7	0.5	6.8	0.8	2.4	5.9
South Atlantic	59.3	1.6	10.2	7.0	1.6	21.4	0.6	7.2	0.9	2.9	5.9
East South Central	53.0	1.8	7.1	6.9	0.9	19.6	Q	7.5	0.6	1.6	6.6
West South Central	52.3	1.0	12.8	6.2	0.8	17.2	0.5	5.8	0.7	1.9	5.5
West	47.1	1.6	6.0	5.6	0.6	18.2	0.3	4.8	1.7	2.5	5.8
Mountain	52.5	2.0	7.0	6.3	0.6	21.6	Q	5.0	Q	2.3	6.1
Pacific	44.4	1.5	5.5	5.2	0.7	16.5	0.3	4.7	Q	2.6	5.7

Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
Climate Zone: 30-Year Average											
Under 2,000 CDD and --											
More than 7,000 HDD	39.3	2.2	2.1	5.8	0.5	15.1	0.3	5.6	0.8	1.7	5.1
5,500-7,000 HDD	44.7	2.6	3.2	5.8	0.6	18.1	0.3	5.2	1.0	2.3	5.7
4,000-5,499 HDD	49.9	2.0	5.1	6.1	0.7	20.2	0.3	5.4	1.6	2.7	5.8
Fewer than 4,000 HDD	49.3	1.1	7.4	6.2	1.1	18.1	0.4	6.1	0.9	2.2	5.8
2,000 CDD or More and --											
Fewer than 4,000 HDD	59.2	1.0	16.1	6.7	1.2	18.5	0.5	5.7	0.8	2.9	5.7
Number of Floors											
One	45.7	2.0	6.2	4.4	0.9	15.4	0.5	9.2	0.7	1.4	5.0
Two	43.1	1.6	5.5	6.1	1.0	15.9	0.3	4.4	1.1	2.0	5.3
Three	38.7	1.8	4.4	5.4	0.6	15.3	0.2	2.9	1.0	2.2	5.1
Four to Nine	59.1	1.6	8.0	9.9	0.6	23.9	0.2	2.5	1.2	4.0	7.1
Ten or More	66.1	2.1	8.4	7.6	0.7	30.7	0.3	1.5	1.9	5.1	7.7
Elevators and Escalators (more than one may apply)											
Any Elevators	58.0	1.9	7.9	9.0	0.7	23.7	0.2	2.2	1.6	3.9	6.9
Number of Elevators.....											
One	43.7	1.7	5.8	7.5	0.7	16.5	0.1	2.5	0.9	2.7	5.2
Two to Five	57.8	2.2	7.8	8.8	0.7	23.1	0.2	2.1	1.8	4.2	6.9
Six or More	76.8	1.7	10.8	11.2	0.7	34.1	0.3	1.9	2.0	5.0	9.1
Any Escalators	82.2	2.1	13.4	12.7	0.7	33.9	Q	1.8	Q	4.8	9.3
Number of Workers (main shift)											
Fewer than 5	26.4	1.3	2.8	2.0	0.5	8.5	0.2	6.6	0.2	0.4	4.0
5 to 9	40.4	2.0	5.0	3.5	0.9	12.6	0.6	9.1	0.7	1.0	5.0
10 to 19	38.8	2.2	5.1	3.9	1.0	13.2	0.7	6.7	0.6	1.1	4.4
20 to 49	47.8	1.6	6.5	6.3	0.9	17.5	0.4	6.1	1.3	1.9	5.4
50 to 99	50.8	2.0	6.9	8.4	0.9	19.1	0.3	4.7	1.0	2.4	5.2
100 to 249	66.9	2.3	9.8	9.8	1.2	27.3	0.3	4.0	1.3	3.7	7.2
250 or More	76.3	1.9	10.0	10.5	0.7	32.9	0.2	2.3	2.1	6.6	9.0
Weekly Operating Hours											
Fewer than 40	15.3	0.9	2.9	1.2	0.2	3.7	0.2	1.9	0.1	0.4	3.7
40 to 48	34.3	1.9	5.7	3.6	0.5	11.5	0.1	2.9	0.9	2.2	5.2
49 to 60	38.1	1.5	5.3	4.5	0.5	14.6	0.1	3.2	1.0	2.2	5.3
61 to 84	48.2	1.8	6.0	6.5	0.8	17.9	0.4	6.2	0.9	2.3	5.3
85 to 167	75.4	2.3	7.7	11.1	1.3	24.0	1.4	17.2	0.8	3.1	6.3
Open Continuously	72.3	2.3	9.0	9.3	1.6	31.7	0.3	5.9	1.8	3.2	7.2
Ownership and Occupancy											
Nongovernment Owned.....	47.9	1.9	5.8	4.7	0.8	18.7	0.4	6.6	1.1	2.1	5.8
Owner Occupied	46.3	1.6	5.8	4.9	0.7	18.1	0.2	5.7	1.2	2.2	5.9
Nonowner Occupied	51.8	2.2	6.2	4.6	0.9	20.3	0.6	7.9	1.1	2.2	5.8
Unoccupied	6.4	Q	Q	0.2	Q	1.7	(*)	Q	Q	Q	3.2
Government Owned	48.2	1.6	7.7	10.5	0.9	16.1	0.2	2.3	0.7	3.0	5.3
Federal	67.1	0.9	6.5	12.2	0.2	32.5	0.1	1.6	0.8	2.8	9.5
State	53.9	0.8	6.7	14.1	0.8	16.3	0.1	2.5	0.8	5.4	6.4
Local	42.0	2.0	8.3	8.7	1.1	12.6	0.3	2.4	0.5	2.2	3.9
Vacancy Status											
Completely Vacant	6.2	Q	Q	0.2	Q	1.7	Q	Q	Q	Q	3.1
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	47.1	2.0	6.2	5.6	0.6	19.6	0.2	2.5	1.0	3.4	6.0
Not At All Vacant	49.7	1.8	6.5	6.4	0.9	18.2	0.4	6.6	1.0	2.2	5.6

Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
Number of Establishments											
One	48.2	1.8	6.1	6.1	1.0	17.8	0.4	6.5	0.9	2.0	5.5
2 to 5	46.0	1.5	6.1	5.9	0.5	18.2	0.2	4.5	1.1	2.2	5.8
6 to 10	58.9	2.7	7.4	7.1	0.8	22.1	0.1	2.4	1.4	8.2	6.7
11 to 20	50.1	2.8	7.4	6.3	0.5	19.1	0.1	Q	1.0	3.3	6.8
More than 20	66.8	2.0	11.0	8.4	0.6	27.4	0.1	1.8	2.0	5.7	7.7
Currently Unoccupied	6.2	Q	Q	0.2	Q	1.7	Q	Q	Q	Q	3.1
Predominant Exterior Wall Material											
Brick, Stone or Stucco	46.7	1.8	6.4	6.4	1.0	16.4	0.4	5.6	0.9	2.3	5.5
Concrete (Block or Poured)	49.3	1.7	6.7	5.8	0.8	18.8	0.3	6.7	1.2	1.7	5.6
Concrete Panels	62.6	1.4	7.8	7.3	0.6	29.0	0.2	3.4	1.6	4.5	6.7
Siding or Shingles	37.7	2.3	4.2	3.4	0.9	12.3	0.5	7.2	0.9	1.4	4.5
Metal Panels	40.3	1.6	3.3	4.8	0.5	16.3	Q	6.0	0.5	1.5	5.7
Window Glass	65.2	3.0	10.4	7.2	1.0	24.7	0.1	2.0	1.9	6.2	8.8
Other	56.8	3.1	8.6	5.9	0.3	22.9	0.7	3.7	1.3	3.9	6.4
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material											
Built-Up	50.1	1.5	6.9	6.5	0.8	19.5	0.4	5.2	1.1	2.7	5.6
Shingles (Not Wood)	41.8	1.9	5.1	4.2	1.3	13.6	0.4	8.0	0.9	1.5	5.1
Metal Surfacing	34.9	1.6	4.2	4.2	0.6	13.4	Q	4.1	0.4	1.1	4.9
Synthetic or Rubber	60.5	2.5	7.9	8.6	0.8	22.4	0.4	6.2	1.5	3.6	6.7
Slate or Tile	42.5	1.7	6.6	4.4	0.7	14.1	0.6	6.9	0.8	1.8	5.1
Wooden Materials	41.6	2.5	6.3	4.4	1.0	16.1	(*)	4.7	0.7	1.2	4.5
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	69.7	0.7	9.9	5.5	Q	37.7	Q	5.6	0.4	2.0	6.9
No One Major Type	35.5	Q	4.7	6.6	Q	10.8	Q	Q	0.7	Q	4.6
Renovations in Buildings Constructed Before 1980 (more than one may apply)											
Any Type of Renovation											
Since 1980	44.2	1.7	4.8	6.4	0.8	16.9	0.3	5.0	0.9	2.4	5.1
Addition or Annex	48.1	1.9	5.3	8.4	0.8	18.5	0.4	4.7	0.6	2.1	5.4
Reduction In Floorspace	51.8	1.7	5.2	8.9	0.9	22.0	0.2	2.3	0.9	3.0	6.7
Cosmetic Improvements	46.2	1.8	4.9	6.5	0.8	17.7	0.3	5.4	0.9	2.6	5.2
Wall or Roof Replacement	43.0	1.4	4.7	6.6	0.8	17.3	0.3	3.4	0.9	2.7	4.9
Interior Wall											
Re-Configuration	47.2	1.7	5.1	7.2	0.6	19.1	0.2	3.8	0.9	2.8	5.7
HVAC Equipment Upgrade.....	49.0	1.9	5.5	7.5	0.8	19.1	0.3	4.2	1.1	3.0	5.6
Lighting Upgrade	46.5	1.7	4.8	7.3	0.7	17.9	0.2	4.7	1.0	2.7	5.4
Window Replacement	39.9	1.5	3.6	5.9	0.7	15.9	0.2	4.1	0.7	2.6	4.7
Plumbing System Upgrade	43.9	1.4	4.5	7.0	0.7	18.1	0.2	3.5	0.7	2.6	5.1
Insulation Upgrade	43.4	1.4	4.9	7.5	0.6	16.1	0.3	3.8	0.8	2.7	5.3
Other Renovation	30.8	1.4	2.0	4.3	Q	13.8	0.3	3.4	0.3	1.0	3.7
No Renovations Since 1980.....	35.7	1.2	4.3	4.8	0.5	13.6	0.2	4.3	0.7	1.4	4.7
Building Newer than 1980	58.5	2.3	8.5	6.7	1.0	21.8	0.5	6.8	1.3	2.9	6.6
Energy Sources (more than one may apply)											
Electricity	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
Natural Gas	49.7	1.4	6.2	6.8	0.7	19.4	0.4	5.5	1.0	2.5	5.9
Fuel Oil	56.4	1.9	7.2	8.0	0.8	23.7	0.2	2.8	1.6	3.4	6.7
District Heat	61.5	0.5	4.4	12.8	0.6	26.9	0.1	2.2	0.8	5.4	7.7
District Chilled Water	67.4	0.7	5.6	17.2	0.8	23.9	0.2	2.6	1.0	7.2	8.2
Propane	47.9	1.2	5.1	5.7	0.8	19.9	0.3	7.2	0.7	1.3	5.7
Other	56.0	1.4	5.5	10.1	0.5	21.9	0.2	4.6	Q	2.8	7.3

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Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
Space-Heating Energy Sources											
Electricity	54.4	4.0	7.9	5.4	1.3	20.0	0.4	5.7	1.3	2.4	5.9
Electricity Main	56.7	5.7	9.4	4.3	1.8	19.0	0.5	6.9	1.3	2.3	5.5
Electricity Secondary	51.5	1.8	5.9	6.9	0.7	21.3	0.4	4.2	1.2	2.6	6.4
Other Excluding Electricity	44.2	(*)	4.8	7.0	0.4	17.3	0.3	5.4	0.8	2.4	5.6
Buildings without Heating	28.1	(*)	6.1	2.3	0.3	8.9	0.4	5.8	0.3	0.6	3.5
Primary Space-Heating Energy Source											
Electricity	56.7	5.7	9.4	4.3	1.8	19.0	0.5	6.9	1.3	2.3	5.5
Natural Gas	47.5	0.6	5.8	6.6	0.5	18.8	0.3	5.4	1.0	2.3	6.0
Fuel Oil	20.1	0.2	1.5	3.4	0.3	7.5	0.1	3.3	0.3	1.0	2.4
District Heat	63.1	0.4	4.2	13.3	0.6	27.6	0.1	2.2	0.9	5.6	8.1
Propane	35.8	0.5	3.8	4.4	0.5	9.3	Q	9.9	Q	Q	5.0
Other	43.1	0.5	2.8	5.0	0.4	20.5	0.1	6.1	0.5	Q	6.0
Cooling Energy Source											
Electricity	51.1	2.0	7.3	6.0	0.9	19.0	0.4	6.2	1.1	2.3	5.8
Other Excluding Electricity	59.6	Q	(*)	16.1	0.7	23.9	0.2	2.3	1.0	7.7	7.3
Buildings without Cooling	16.2	0.6	(*)	2.4	0.1	7.5	0.1	2.1	0.1	0.3	3.2
Water-Heating Energy Source											
Electricity	50.0	2.6	7.1	5.2	1.9	17.7	0.3	5.7	1.2	2.4	5.8
Other Excluding Electricity	52.4	1.3	6.4	7.9	(*)	20.5	0.4	6.2	1.0	2.7	6.0
Bldgs without Water Heating	21.1	0.6	2.3	2.1	(*)	9.1	Q	2.6	0.2	0.4	3.6
Cooking Energy Source											
Electricity	64.4	2.8	8.9	9.5	1.6	22.3	1.7	7.8	1.1	2.8	6.0
Other Excluding Electricity	58.3	1.6	8.4	8.5	0.9	21.2	(*)	8.9	1.0	2.0	5.7
Buildings without Cooking	40.4	1.5	5.0	4.4	0.6	16.0	(*)	4.1	1.0	2.3	5.5
Energy End Uses (more than one may apply)											
Buildings with Space Heating	49.1	1.9	6.3	6.3	0.9	18.6	0.3	5.6	1.0	2.4	5.8
Buildings with Cooling	51.5	2.0	7.0	6.5	0.9	19.2	0.4	6.0	1.1	2.6	5.9
Buildings with Water Heating	51.2	2.0	6.8	6.5	0.9	19.1	0.4	6.0	1.1	2.6	5.9
Buildings with Cooking	61.9	2.3	8.7	9.1	1.3	21.9	1.0	8.3	1.0	2.5	5.9
Buildings with Manufacturing	45.0	1.3	3.0	5.4	Q	20.5	Q	3.2	0.6	2.1	7.8
Buildings with Electricity Generation	69.4	2.4	9.1	10.1	1.0	28.6	0.3	3.3	2.2	4.4	8.0
Percent of Floorspace Heated											
Not Heated	28.1	(*)	6.1	2.3	0.3	8.9	0.4	5.8	0.3	0.6	3.5
1 to 50	27.4	0.8	2.0	2.7	0.6	10.1	Q	5.7	Q	0.6	3.6
51 to 99	48.7	1.7	6.1	6.0	0.8	18.7	0.3	6.7	0.8	1.9	5.6
100	52.4	2.1	7.0	6.9	0.9	19.8	0.4	5.4	1.1	2.8	6.1
Percent of Floorspace Cooled											
Not Cooled	16.2	0.6	(*)	2.4	0.1	7.5	0.1	2.1	0.1	0.3	3.2
1 to 50	26.7	0.9	1.4	3.4	0.4	11.8	Q	3.9	0.3	0.8	3.8
51 to 99	56.5	2.2	7.0	7.4	0.8	20.7	0.4	7.9	1.0	2.9	6.2
100	64.3	2.5	10.4	7.9	1.3	23.1	0.5	6.4	1.7	3.6	7.0

Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
Percent Lit When Open											
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	22.0	1.2	3.1	2.8	0.5	6.2	0.2	2.8	Q	0.6	3.9
51 to 99	48.9	1.9	6.3	6.8	0.9	18.0	0.3	4.8	1.1	3.1	5.7
100	58.0	2.1	7.6	7.0	0.9	22.8	0.5	7.2	1.1	2.6	6.3
Building Never Open/ Electricity Not Used	7.1	Q	0.7	0.2	Q	2.1	Q	0.3	Q	Q	3.3
Percent Lit When Closed											
Zero	31.2	1.2	4.1	4.0	0.4	10.0	0.2	4.2	0.5	1.7	4.8
1 to 50	45.5	1.9	6.3	5.8	0.7	15.7	0.4	5.8	1.0	2.3	5.5
51 to 100	74.0	2.6	7.5	6.8	1.1	35.6	0.6	11.5	0.8	2.2	5.3
Building Never Closed/ Electricity Not Used	72.3	2.3	9.0	9.3	1.6	31.7	0.3	5.9	1.8	3.2	7.2
Heating Equipment (more than one may apply)											
Heat Pumps	59.3	3.1	9.9	6.0	1.5	22.8	0.4	5.2	1.3	2.8	6.2
Packaged Heat Pumps	66.0	3.3	11.2	6.1	1.4	25.9	0.4	6.0	1.6	3.2	6.9
Split-System Heat Pumps	52.6	2.3	9.1	7.0	1.4	19.6	Q	4.3	0.8	1.8	5.8
Individual Room Heat Pumps ..	55.1	3.1	9.4	6.2	1.9	22.3	0.3	2.7	0.8	2.9	5.3
Furnaces	38.8	1.8	4.0	4.3	0.7	14.6	0.3	6.3	0.7	1.4	4.8
Individual Space Heaters	44.9	2.9	4.8	5.1	0.9	18.0	0.2	4.9	0.8	2.0	5.2
District Heat	61.4	0.5	4.2	12.8	0.6	26.9	0.1	2.1	0.9	5.5	7.8
Boilers	49.4	1.3	6.2	8.2	0.6	19.9	0.2	2.9	1.2	2.7	6.2
Packaged Heating Units	58.7	2.8	8.7	6.6	1.2	21.3	0.6	7.4	1.4	2.6	6.2
Other	51.9	3.1	6.4	6.2	1.0	19.8	0.2	5.7	0.8	2.5	6.3
Cooling Equipment (more than one may apply)											
Residential-Type Central											
Air Conditioners	41.3	1.7	5.3	6.1	1.0	14.3	0.4	5.3	0.7	1.4	5.1
Heat Pumps	60.5	2.9	10.1	6.0	1.5	23.1	0.4	6.0	1.3	2.8	6.4
Packaged Heat Pumps	66.3	3.3	10.9	5.8	1.4	26.2	0.4	6.6	1.6	3.2	7.0
Split-System Heat Pumps	53.5	2.1	9.4	7.2	1.4	19.2	Q	5.0	0.8	1.9	6.0
Individual Room Heat Pumps ..	58.3	2.9	10.3	6.6	1.7	23.3	0.3	3.7	0.9	2.9	5.8
Individual Air Conditioners	38.1	1.6	5.0	5.0	1.1	15.6	0.2	3.5	0.5	1.4	4.2
District Chilled Water	67.4	0.7	5.6	17.2	0.8	23.9	0.2	2.6	1.0	7.2	8.2
Central Chillers	71.9	1.9	10.5	12.0	0.9	29.1	0.3	2.3	2.0	4.3	8.5
Packaged Air Conditioning											
Units	52.7	2.1	7.2	6.0	0.9	19.9	0.5	6.8	1.0	2.4	5.9
Swamp Coolers	48.1	1.3	5.5	5.8	1.4	18.1	0.6	7.7	0.5	1.4	5.8
Other	61.3	2.1	9.3	8.5	0.4	23.2	0.2	Q	1.1	2.9	6.4
Main Equipment Replaced Since 1990 (more than one may apply)											
Heating	43.7	2.2	5.5	5.2	1.0	15.7	0.4	5.1	1.0	2.2	5.4
Cooling	46.5	2.0	5.9	5.7	0.9	17.3	0.3	5.2	1.1	2.6	5.4
Water Heating Equipment											
Centralized System	50.8	2.0	6.3	6.6	0.9	18.2	0.5	7.2	1.0	2.3	5.9
Distributed System	41.8	1.8	6.5	4.7	0.8	15.5	0.3	4.5	0.8	2.0	5.0
Combination of Centralized and Distributed System	63.4	2.1	8.5	8.6	1.1	26.4	0.3	3.3	1.8	4.2	6.9

Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
Lighting Equipment Types (more than one may apply)											
Incandescent	52.1	1.9	6.7	6.7	0.9	20.9	0.4	5.0	1.2	2.7	5.8
Standard Fluorescent	49.4	1.9	6.5	6.3	0.8	18.5	0.4	5.8	1.1	2.5	5.8
Compact Fluorescent	60.4	2.2	8.0	8.6	1.0	23.6	0.4	5.0	1.5	3.2	6.9
High Intensity Discharge	54.6	1.8	6.4	8.2	0.8	22.9	0.3	4.0	1.1	2.9	6.3
Halogen	60.4	2.3	7.4	7.8	1.0	25.6	0.4	5.3	1.2	2.8	6.4
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)											
Any Refrigeration.....	52.3	2.0	6.8	6.6	0.9	19.5	0.4	6.7	1.1	2.6	5.8
Commercial Refrigeration	66.8	2.3	8.9	8.8	1.2	24.3	0.8	10.6	1.0	2.6	6.3
Walk-In Units	73.5	2.4	9.7	9.8	1.3	26.6	1.0	12.3	1.1	2.8	6.6
Cases or Cabinets	70.5	2.4	9.4	9.1	1.2	25.6	0.9	11.7	1.1	2.6	6.6
Residential-Type Units	45.5	1.8	6.1	6.1	0.8	17.5	0.2	4.1	0.9	2.5	5.5
Vending Machines	56.2	1.9	7.4	7.8	0.9	22.2	0.3	5.2	1.3	3.1	6.2
No Refrigeration	25.7	1.1	3.7	3.3	0.4	10.9	Q	(*)	0.4	1.1	4.8
Office Equipment (more than one may apply)											
Computers	51.0	1.9	6.8	6.6	0.9	19.4	0.3	5.4	1.1	2.7	5.9
With Flat Screen Monitors	60.1	2.1	8.1	8.5	0.8	23.2	0.3	4.2	1.7	4.1	7.1
Dedicated Servers	56.0	2.0	7.5	7.7	0.8	21.9	0.2	4.5	1.6	3.4	6.3
Laser Printers	47.0	2.0	6.3	6.0	0.8	17.2	0.3	5.5	1.2	2.3	5.4
Inkjet Printers	56.5	1.9	7.8	7.5	0.9	22.3	0.3	4.9	1.2	3.2	6.6
FAX Machines	51.6	1.9	6.9	6.7	0.9	19.8	0.3	5.3	1.2	2.7	5.9
Photocopiers	51.0	1.8	6.9	7.1	0.7	20.1	0.2	4.0	1.3	2.9	6.0
Number of Computers											
None	25.9	1.0	2.6	1.9	0.6	8.5	0.4	7.2	0.1	N	3.7
1 to 4	42.2	2.1	4.7	3.6	1.1	13.4	0.8	10.7	0.4	0.4	4.8
5 to 9	38.1	2.0	5.4	3.8	0.6	14.1	0.3	5.6	0.6	0.9	4.8
10 to 19	43.1	1.6	5.9	5.0	0.7	16.3	0.2	6.0	0.7	1.3	5.3
20 to 49	55.1	1.7	7.2	7.6	0.9	21.7	Q	5.1	Q	2.2	6.7
50 to 99	48.1	1.7	7.0	7.1	0.9	20.1	0.1	2.1	1.1	2.7	5.4
100 to 249	55.0	2.3	8.0	9.2	0.9	21.2	0.1	2.4	1.0	3.7	6.1
250 or More	72.4	2.0	9.7	11.0	0.8	29.2	0.2	2.1	2.2	7.3	7.9
Number of Dedicated Servers											
None	37.2	1.5	4.6	3.9	0.8	12.8	0.5	7.1	0.3	0.9	4.7
1 to 4	48.4	2.1	6.6	6.5	0.8	18.7	0.2	5.3	0.7	2.0	5.4
5 to 9	64.8	1.9	9.4	10.3	0.9	25.8	Q	2.9	1.6	4.4	7.1
10 to 19	71.4	1.8	8.3	11.7	0.7	27.5	0.2	3.9	1.6	7.6	8.3
20 to 49	70.7	1.8	12.2	9.9	0.8	27.3	0.2	2.2	2.4	5.5	8.3
50 or More	79.8	2.4	7.2	8.3	0.6	33.6	Q	2.4	7.9	7.8	9.2
Number of Photocopiers											
None	39.6	1.9	4.5	3.4	1.0	12.6	0.7	9.8	0.2	0.7	4.8
One	38.3	1.7	4.7	4.3	0.6	14.5	0.2	6.0	0.6	1.1	4.8
2 to 4	46.8	1.7	6.6	6.9	0.8	17.9	0.2	3.9	1.3	2.2	5.3
5 to 9	58.6	2.0	8.1	9.4	0.8	22.0	0.2	2.6	1.4	5.3	6.8
10 or More	72.5	2.1	10.1	10.3	0.8	30.6	0.2	2.1	2.4	5.5	8.4

Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
Energy-Related Space Functions (more than one may apply)											
Commercial Food Preparation....	61.9	2.3	8.7	9.1	1.3	21.9	1.0	8.3	1.0	2.5	5.9
Activities with Large Amounts of Hot Water	59.9	2.4	8.1	8.9	1.4	23.8	0.6	5.1	0.9	2.6	6.2
Separate Computer Area	57.7	2.0	8.1	8.6	0.9	22.9	0.2	3.2	1.7	3.8	6.3
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System.....	64.7	2.3	9.2	9.0	0.9	25.4	0.3	3.6	1.8	4.3	7.7
Economizer Cycle	66.7	2.4	8.6	9.7	1.0	26.4	0.3	4.6	1.7	4.3	7.6
HVAC Maintenance	52.8	1.9	7.1	7.0	0.9	20.1	0.4	5.5	1.1	2.7	6.1
Energy Management and Control System (EMCS)	61.1	1.9	9.1	10.2	0.9	23.6	0.3	2.6	1.7	3.9	6.9
Window and Interior Lighting Features (more than one may apply)											
Multipaned Windows	52.3	2.3	6.3	6.8	0.9	20.0	0.4	5.7	1.2	2.5	6.2
Tinted Window Glass	56.8	1.9	7.9	7.5	0.8	22.4	0.3	4.6	1.4	3.2	6.8
Reflective Window Glass	61.2	2.3	9.0	8.3	0.9	24.8	0.3	3.9	1.3	3.4	7.1
External Overhangs or Awnings	55.9	2.2	7.0	7.1	1.1	19.7	0.7	8.1	1.4	2.8	5.9
Skylights or Atriums	51.6	1.6	6.4	7.7	0.7	21.9	0.2	2.8	1.6	2.6	6.0
Daylighting Sensors	71.9	2.2	10.0	10.3	0.6	27.7	0.5	4.3	Q	4.2	8.2
Specular Reflectors	56.9	2.0	7.5	7.9	0.9	22.8	0.3	4.3	1.3	3.1	6.8
Electronic Ballasts	53.3	1.9	7.1	7.2	0.9	20.0	0.4	5.6	1.2	2.8	6.2
Energy Management and Control System (EMCS) For Lighting	65.1	2.0	9.8	9.1	0.9	26.1	0.2	3.1	Q	4.0	7.3
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)											
Heating	45.2	1.7	6.0	6.1	0.8	16.8	0.3	4.5	1.1	2.4	5.5
Cooling	47.0	1.7	6.5	6.4	0.8	17.5	0.3	4.6	1.0	2.6	5.6
Lighting	42.7	1.7	5.7	5.4	0.7	14.8	0.4	5.6	0.8	2.2	5.3
Office Equipment	37.2	1.5	5.5	5.0	0.7	13.3	0.2	4.2	0.7	1.3	4.7
Annual Consumption (kilowatthours)											
10,000 or Less	4.6	0.1	0.4	0.3	(*)	1.5	(*)	0.7	(*)	0.1	1.4
10,001 to 50,000	16.6	0.8	2.1	1.1	0.3	5.9	(*)	2.4	0.4	0.5	3.1
50,001 to 100,000	27.3	1.3	3.4	2.1	0.6	8.6	0.2	5.4	0.6	0.9	4.1
100,001 to 500,000	44.4	2.2	5.2	4.5	1.0	14.2	0.6	9.1	0.8	1.7	5.1
500,001 to 1,000,000	49.1	2.1	7.6	6.5	1.4	17.1	0.5	6.3	0.8	1.9	5.0
1,000,001 to 5,000,000	69.4	2.6	9.4	10.9	1.1	26.3	0.3	5.9	1.2	4.1	7.5
Over 5,000,000	84.1	1.8	10.9	11.4	0.8	38.8	0.3	3.2	2.4	4.9	9.6

Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
Provider of Purchased Electricity (more than one may apply)											
Local Utility	46.7	1.8	6.0	5.9	0.8	17.4	0.4	5.7	0.9	2.3	5.5
Some Other Provider	62.3	1.8	8.9	8.5	0.6	24.6	0.2	5.1	Q	3.3	7.1

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. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

(*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

Notes: ● Due to rounding, data may not sum to totals. ● HVAC = Heating, Ventilation, and Air Conditioning.

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

Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	890	34	116	113	15	335	6	104	19	43	105
Building Floorspace (Square Feet)											
1,001 to 5,000	113	5	13	5	3	27	2	40	2	3	11
5,001 to 10,000	77	4	10	5	2	24	1	16	2	3	10
10,001 to 25,000	119	6	14	13	2	44	1	15	3	6	16
25,001 to 50,000	103	4	16	15	3	35	(*)	10	2	5	12
50,001 to 100,000	119	5	17	19	2	46	1	9	2	5	13
100,001 to 200,000	141	5	18	23	1	57	(*)	7	Q	9	16
200,001 to 500,000	106	2	15	16	1	48	(*)	3	2	6	13
Over 500,000	112	2	14	16	1	53	(*)	4	2	7	13
Principal Building Activity											
Education	109	4	22	24	3	33	(*)	5	1	9	6
Food Sales	61	2	4	2	Q	14	1	35	1	1	3
Food Service	63	3	8	7	3	12	4	20	(*)	1	4
Health Care	73	2	10	12	1	31	(*)	2	1	3	11
Inpatient	52	1	7	11	1	22	(*)	1	1	2	6
Outpatient	20	1	3	1	(*)	8	(*)	1	(*)	1	4
Lodging	69	4	7	4	3	36	1	3	Q	2	7
Retail (Other Than Mall).....	62	2	7	5	1	33	(*)	6	1	1	6
Office	211	10	30	18	2	82	(*)	10	9	22	27
Public Assembly	49	1	10	18	(*)	8	(*)	3	Q	1	7
Public Order and Safety	17	1	2	3	1	5	(*)	1	(*)	(*)	3
Religious Worship	18	1	3	2	(*)	5	(*)	2	(*)	(*)	5
Service	44	2	4	7	(*)	18	Q	3	(*)	1	8
Warehouse and Storage	72	1	4	6	1	39	Q	10	1	1	9
Other	39	1	5	3	Q	17	Q	3	Q	1	6
Vacant	4	(*)	(*)	(*)	Q	1	Q	(*)	Q	(*)	2
Year Constructed											
Before 1920	26	1	2	3	Q	10	(*)	5	1	1	4
1920 to 1945	61	1	5	9	1	26	(*)	7	1	2	9
1946 to 1959	68	2	8	10	1	26	1	8	1	3	8
1960 to 1969	96	3	13	15	2	33	(*)	12	2	5	11
1970 to 1979	168	8	21	22	3	65	1	17	4	8	20
1980 to 1989	184	8	27	19	4	69	1	19	4	11	21
1990 to 1999	202	7	29	26	4	72	2	25	5	10	23
2000 to 2003	86	3	13	9	1	34	1	11	1	3	9
Census Region and Division											
Northeast	147	6	11	20	2	60	1	17	4	9	19
New England	32	1	2	4	1	12	(*)	6	1	2	4
Middle Atlantic	116	4	9	16	1	48	(*)	11	3	7	15
Midwest	216	13	15	30	3	84	1	26	4	10	28
East North Central	153	8	10	23	2	61	1	17	3	8	20
West North Central	62	5	5	7	1	23	(*)	9	1	3	8
South	375	10	71	45	8	132	3	45	5	16	39
South Atlantic	210	6	36	25	6	76	2	26	3	10	21
East South Central	50	2	7	7	1	19	(*)	7	1	2	6
West South Central	114	2	28	13	2	37	1	13	1	4	12
West	152	5	19	18	2	59	1	15	6	8	19
Mountain	56	2	7	7	1	23	Q	5	Q	2	6
Pacific	96	3	12	11	1	36	1	10	4	6	12

Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	890	34	116	113	15	335	6	104	19	43	105
Climate Zone: 30-Year Average											
Under 2,000 CDD and --											
More than 7,000 HDD	120	7	6	18	2	46	1	17	2	5	15
5,500-7,000 HDD	224	13	16	29	3	91	2	26	5	11	29
4,000-5,499 HDD	166	7	17	20	2	67	1	18	5	9	19
Fewer than 4,000 HDD	219	5	33	28	5	81	2	27	4	10	26
2,000 CDD or More and --											
Fewer than 4,000 HDD	161	3	44	18	3	50	1	16	2	8	16
Number of Floors											
One	334	15	45	32	7	113	4	67	5	10	37
Two	202	7	26	29	5	75	1	20	5	9	25
Three	84	4	9	12	1	33	(*)	6	2	5	11
Four to Nine	174	5	24	29	2	70	1	7	4	12	21
Ten or More	96	3	12	11	1	44	(*)	2	3	7	11
Elevators and Escalators (more than one may apply)											
Any Elevators	416	14	57	65	5	170	1	16	11	28	50
Number of Elevators.....											
One	104	4	14	18	2	39	(*)	6	2	6	12
Two to Five	172	7	23	26	2	68	1	6	5	12	20
Six or More	141	3	20	21	1	63	1	3	4	9	17
Any Escalators	57	1	9	9	(*)	23	Q	1	Q	3	6
Number of Workers (main shift)											
Fewer than 5	109	5	11	8	2	35	1	27	1	2	17
5 to 9	73	4	9	6	2	23	1	16	1	2	9
10 to 19	89	5	12	9	2	30	2	15	1	3	10
20 to 49	154	5	21	20	3	56	1	20	4	6	17
50 to 99	118	5	16	20	2	44	1	11	2	5	12
100 to 249	135	5	20	20	2	55	1	8	3	7	14
250 or More	213	5	28	29	2	92	1	6	6	19	25
Weekly Operating Hours											
Fewer than 40	26	1	5	2	(*)	6	(*)	3	(*)	1	6
40 to 48	116	6	19	12	2	39	(*)	10	3	7	18
49 to 60	175	7	24	21	2	67	1	15	4	10	25
61 to 84	146	5	18	20	3	54	1	19	3	7	16
85 to 167	153	5	16	23	3	49	3	35	2	6	13
Open Continuously	273	9	34	35	6	120	1	22	7	12	27
Ownership and Occupancy											
Nongovernment Owned.....	674	27	82	66	11	263	6	93	16	30	81
Owner Occupied	318	11	40	34	5	124	1	39	8	15	41
Nonowner Occupied	353	15	42	32	6	138	4	54	7	15	39
Unoccupied	2	Q	Q	(*)	Q	1	(*)	Q	Q	Q	1
Government Owned	216	7	34	47	4	72	1	10	3	14	24
Federal	38	1	4	7	(*)	19	Q	1	(*)	2	5
State	60	1	7	16	1	18	(*)	3	1	Q	7
Local	118	6	23	24	3	35	1	7	2	6	11
Vacancy Status											
Completely Vacant	3	Q	Q	(*)	Q	1	Q	Q	Q	Q	1
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	169	7	22	20	2	70	1	9	4	12	22
Not At All Vacant	717	26	94	92	13	263	6	95	15	31	81

Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	890	34	116	113	15	335	6	104	19	43	105
Number of Establishments											
One	627	24	80	80	13	231	6	85	12	25	71
2 to 5	147	5	20	19	2	58	1	14	4	7	19
6 to 10	34	2	4	4	(*)	13	(*)	1	1	Q	4
11 to 20	29	2	4	4	(*)	11	(*)	2	1	2	4
More than 20	51	1	8	6	(*)	21	(*)	1	2	4	6
Currently Unoccupied	3	Q	Q	(*)	Q	1	Q	Q	Q	Q	1
Predominant Exterior Wall Material											
Brick, Stone or Stucco	442	17	61	61	9	155	4	53	9	21	52
Concrete (Block or Poured)	155	5	21	18	3	59	1	21	Q	5	17
Concrete Panels	117	3	15	14	1	54	(*)	6	3	8	13
Siding or Shingles	44	3	5	4	1	14	1	8	1	2	5
Metal Panels	87	4	7	10	1	35	Q	13	1	3	12
Window Glass	20	1	3	2	(*)	7	(*)	1	1	2	3
Other	18	1	3	2	(*)	7	(*)	1	(*)	1	2
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material											
Built-Up	305	9	42	39	5	119	2	31	7	17	34
Shingles (Not Wood)	121	5	15	12	4	39	1	23	3	4	15
Metal Surfacing	115	5	14	14	2	44	Q	14	1	4	16
Synthetic or Rubber	261	11	34	37	3	96	2	27	7	16	29
Slate or Tile	30	1	5	3	1	10	(*)	5	1	1	4
Wooden Materials	11	1	2	1	(*)	4	Q	1	(*)	(*)	1
Concrete	29	Q	3	Q	(*)	Q	Q	1	(*)	1	4
Other	12	Q	2	1	Q	7	(*)	1	(*)	(*)	1
No One Major Type	6	Q	1	1	Q	2	Q	(*)	(*)	Q	1
Renovations in Buildings Constructed Before 1980 (more than one may apply)											
Any Type of Renovation											
Since 1980	229	9	25	33	4	87	1	26	5	12	26
Addition or Annex	92	4	10	16	2	36	1	9	1	4	10
Reduction In Floorspace	15	1	2	3	Q	7	(*)	1	(*)	1	2
Cosmetic Improvements	176	7	19	25	3	68	1	20	4	10	20
Wall or Roof Replacement	102	3	11	16	2	41	1	8	2	6	12
Interior Wall											
Re-Configuration	118	4	13	18	2	48	1	9	2	7	14
HVAC Equipment Upgrade.....	154	6	17	24	3	60	1	13	3	9	18
Lighting Upgrade	140	5	15	22	2	54	1	14	3	8	16
Window Replacement	73	3	7	11	1	29	(*)	7	1	5	9
Plumbing System Upgrade	92	3	9	15	2	38	(*)	7	2	6	11
Insulation Upgrade	51	2	6	9	1	19	(*)	4	1	3	6
Other Renovation	5	(*)	(*)	1	Q	2	Q	1	(*)	(*)	1
No Renovations Since 1980.....	190	6	23	25	3	72	1	23	4	7	25
Building Newer than 1980	472	18	69	54	8	176	4	55	11	24	53
Energy Sources (more than one may apply)											
Electricity	890	34	116	113	15	335	6	104	19	43	105
Natural Gas	633	18	79	87	9	247	5	70	13	32	75
Fuel Oil	250	8	32	36	4	105	1	12	7	15	30
District Heat	98	1	7	20	1	43	(*)	3	1	9	12
District Chilled Water	56	1	5	14	1	20	(*)	2	1	Q	7
Propane	99	3	11	12	2	41	1	15	1	3	12
Other	23	1	2	4	(*)	9	(*)	2	Q	1	3

Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	890	34	116	113	15	335	6	104	19	43	105
Space-Heating Energy Sources^a											
Electricity	455	34	66	46	11	167	4	48	11	20	49
Electricity Main	266	27	44	20	8	89	2	32	6	11	26
Electricity Secondary	189	7	22	26	3	78	1	15	4	10	24
Other Excluding Electricity	407	(*)	45	65	4	159	3	50	8	22	52
Buildings without Heating	27	(*)	6	2	(*)	9	(*)	6	(*)	1	3
Primary Space-Heating Energy Source											
Electricity	266	27	44	20	8	89	2	32	6	11	26
Natural Gas	459	6	56	64	5	182	3	53	10	22	58
Fuel Oil	23	(*)	2	4	(*)	8	(*)	4	(*)	1	3
District Heat	91	1	6	19	1	40	(*)	3	1	8	12
Propane	20	(*)	2	3	(*)	5	Q	6	Q	Q	3
Other	5	Q	(*)	1	(*)	2	(*)	1	Q	Q	1
Cooling Energy Source											
Electricity	814	32	116	96	15	303	6	98	18	37	93
Other Excluding Electricity	46	Q	(*)	12	1	18	(*)	2	1	Q	6
Buildings without Cooling	30	1	(*)	4	(*)	14	(*)	4	(*)	1	6
Water-Heating Energy Source											
Electricity	402	21	57	42	15	143	3	46	10	19	46
Other Excluding Electricity	445	11	54	67	(*)	174	4	52	9	23	51
Bldgs without Water Heating	42	1	5	4	(*)	18	Q	5	(*)	1	7
Cooking Energy Source											
Electricity	249	11	34	37	6	86	6	30	4	11	23
Other Excluding Electricity	155	4	22	23	2	56	(*)	24	3	5	15
Buildings without Cooking	486	19	60	53	7	192	(*)	50	12	27	66
Energy End Uses (more than one may apply)											
Buildings with Space Heating	863	34	111	110	15	326	6	98	18	43	101
Buildings with Cooling	860	33	116	108	15	321	6	100	19	43	99
Buildings with Water Heating	848	32	112	108	15	317	6	98	18	43	97
Buildings with Cooking	404	15	56	59	9	143	6	54	7	16	38
Buildings with Manufacturing	41	1	3	5	Q	19	Q	3	1	2	7
Buildings with Electricity Generation	261	9	34	38	4	107	1	12	8	17	30
Percent of Floorspace Heated											
Not Heated	27	(*)	6	2	(*)	9	(*)	6	(*)	1	3
1 to 50	55	2	4	5	1	20	Q	11	Q	1	7
51 to 99	116	4	14	14	2	44	1	16	2	5	13
100	692	28	92	91	12	262	5	71	14	37	81
Percent of Floorspace Cooled											
Not Cooled	30	1	(*)	4	(*)	14	(*)	4	(*)	1	6
1 to 50	130	4	7	16	2	57	Q	19	1	4	19
51 to 99	219	9	27	29	3	80	1	30	4	11	24
100	511	20	82	63	10	184	4	51	13	28	56

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Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	890	34	116	113	15	335	6	104	19	43	105
Percent Lit When Open											
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	66	3	9	8	2	19	1	8	Q	2	12
51 to 99	262	10	34	37	5	96	2	26	6	17	30
100	557	20	73	67	9	219	4	69	10	25	61
Building Never Open/ Electricity Not Used	4	Q	(*)	(*)	Q	1	Q	(*)	Q	Q	2
Percent Lit When Closed											
Zero	159	6	21	20	2	51	1	22	3	9	25
1 to 50	412	17	57	53	7	143	4	53	9	21	50
51 to 100	45	2	5	4	Q	22	(*)	7	1	1	3
Building Never Closed/ Electricity Not Used	273	9	34	35	6	120	1	22	7	12	27
Heating Equipment (more than one may apply)											
Heat Pumps	153	8	26	15	4	59	1	13	3	7	16
Packaged Heat Pumps	105	5	18	10	2	41	1	10	3	5	11
Split-System Heat Pumps	40	2	7	5	1	15	Q	3	1	1	4
Individual Room Heat Pumps ..	43	2	7	5	1	18	(*)	2	1	2	4
Furnaces	223	10	23	25	4	84	2	36	4	8	28
Individual Space Heaters	165	11	18	19	3	66	1	18	3	7	19
District Heat	93	1	6	19	1	41	(*)	3	1	8	12
Boilers	296	8	37	49	4	119	1	17	7	16	37
Packaged Heating Units	310	15	46	35	6	112	3	39	7	14	33
Other	49	3	6	6	1	19	(*)	5	1	2	6
Cooling Equipment (more than one may apply)											
Residential-Type Central											
Air Conditioners	133	6	17	20	3	46	1	17	2	5	16
Heat Pumps	160	8	27	16	4	61	1	16	3	7	17
Packaged Heat Pumps	105	5	17	9	2	42	1	10	3	5	11
Split-System Heat Pumps	41	2	7	6	1	15	Q	4	1	1	5
Individual Room Heat Pumps ..	50	2	9	6	2	20	(*)	3	1	2	5
Individual Air Conditioners	140	6	18	18	4	57	1	13	2	5	16
District Chilled Water	56	1	5	14	1	20	(*)	2	1	Q	7
Central Chillers	245	6	36	41	3	99	1	8	7	15	29
Packaged Air Conditioning											
Units	463	19	63	52	8	174	4	60	9	21	52
Swamp Coolers	22	1	2	3	1	8	(*)	4	(*)	1	3
Other	22	1	3	3	(*)	8	(*)	Q	(*)	1	2
Main Equipment Replaced Since 1990 (more than one may apply)											
Heating	210	11	27	25	5	76	2	24	5	11	26
Cooling	286	12	36	35	6	106	2	32	7	16	34
Water Heating Equipment											
Centralized System	515	20	64	67	9	185	5	73	10	23	60
Distributed System	142	6	22	16	3	53	1	15	3	7	17
Combination of Centralized and Distributed System	191	6	26	26	3	80	1	10	5	13	21

Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	890	34	116	113	15	335	6	104	19	43	105
Lighting Equipment Types (more than one may apply)											
Incandescent	588	22	75	75	10	235	5	57	13	31	65
Standard Fluorescent	865	33	114	111	15	323	6	101	18	43	101
Compact Fluorescent	488	18	64	70	8	191	3	41	12	26	56
High Intensity Discharge	330	11	38	50	5	138	2	24	6	18	38
Halogen	313	12	39	41	5	133	2	28	6	15	33
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)											
Any Refrigeration.....	812	30	105	103	14	302	6	104	17	40	90
Commercial Refrigeration	524	18	69	69	9	191	6	83	8	21	50
Walk-In Units	436	14	58	58	8	158	6	73	6	17	39
Cases or Cabinets	422	14	57	54	7	153	5	70	7	16	39
Residential-Type Units	519	21	69	69	9	200	3	47	10	29	62
Vending Machines	582	20	76	81	9	230	3	54	13	32	64
No Refrigeration	78	3	11	10	1	33	Q	(*)	1	3	15
Office Equipment (more than one may apply)											
Computers	832	31	111	108	14	316	6	88	19	43	96
With Flat Screen Monitors	466	17	62	65	6	180	2	33	13	32	55
Dedicated Servers	596	22	80	82	9	234	3	48	17	36	68
Laser Printers	454	19	61	58	8	167	3	53	11	22	52
Inkjet Printers	533	18	74	71	9	210	3	46	12	30	62
FAX Machines	792	29	105	103	13	304	5	81	18	42	91
Photocopiers	692	24	94	96	10	272	3	55	18	40	81
Number of Computers											
None	58	2	6	4	1	19	1	16	(*)	(*)	8
1 to 4	153	8	17	13	4	49	3	39	2	2	18
5 to 9	80	4	11	8	1	30	1	12	1	2	10
10 to 19	83	3	11	10	1	32	(*)	12	1	3	10
20 to 49	120	4	16	16	2	47	Q	11	Q	5	15
50 to 99	76	3	11	11	1	32	(*)	3	2	4	8
100 to 249	108	4	16	18	2	42	(*)	5	2	7	12
250 or More	212	6	28	32	2	85	1	6	7	21	23
Number of Dedicated Servers											
None	294	12	37	31	7	101	4	56	2	7	37
1 to 4	342	15	47	46	6	132	2	38	5	14	38
5 to 9	73	2	11	12	1	29	Q	3	2	5	8
10 to 19	63	2	7	10	1	24	(*)	3	1	7	7
20 to 49	54	1	9	7	1	21	(*)	2	2	4	6
50 or More	64	2	6	7	1	27	Q	2	6	6	7
Number of Photocopiers											
None	198	9	22	17	5	63	4	49	1	4	24
One	174	8	22	19	3	66	1	27	2	5	22
2 to 4	207	7	29	30	3	79	1	17	6	10	23
5 to 9	95	3	13	15	1	36	(*)	4	2	9	11
10 or More	216	6	30	31	2	91	1	6	7	16	25

Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	890	34	116	113	15	335	6	104	19	43	105
Energy-Related Space Functions (more than one may apply)											
Commercial Food Preparation....	403	15	56	59	9	142	6	54	7	16	38
Activities with Large Amounts of Hot Water	342	14	46	51	8	136	4	29	5	15	35
Separate Computer Area	454	16	64	68	7	180	2	25	13	30	50
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System.....	371	13	53	52	5	146	2	21	10	25	44
Economizer Cycle	413	15	53	60	6	163	2	28	11	27	47
HVAC Maintenance	792	29	106	105	13	302	6	83	17	40	91
Energy Management and Control System (EMCS)	280	9	42	47	4	108	1	12	8	18	32
Window and Interior Lighting Features (more than one may apply)											
Multipaned Windows	593	26	72	77	10	227	5	65	13	29	70
Tinted Window Glass	493	16	69	65	7	194	3	40	12	28	59
Reflective Window Glass	153	6	23	21	2	62	1	10	3	9	18
External Overhangs or Awnings	282	11	35	36	6	99	3	41	7	14	30
Skylights or Atriums	189	6	24	28	2	80	1	10	6	10	22
Daylighting Sensors	60	2	8	9	(*)	23	(*)	4	Q	4	7
Specular Reflectors	436	15	57	61	7	175	3	33	10	24	52
Electronic Ballasts	732	27	98	99	12	275	5	77	16	39	85
Energy Management and Control System (EMCS) For Lighting	91	3	14	13	1	37	(*)	4	Q	6	10
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)											
Heating	566	21	75	77	10	210	4	56	14	30	68
Cooling	595	22	82	81	10	221	4	58	13	32	71
Lighting	588	24	79	75	9	203	5	78	12	30	73
Office Equipment	211	9	31	28	4	76	1	24	4	8	27
Annual Consumption (kilowatthours)											
10,000 or Less	4	(*)	(*)	(*)	(*)	1	(*)	1	(*)	(*)	1
10,001 to 50,000	45	2	6	3	1	16	(*)	7	1	1	8
50,001 to 100,000	52	2	6	4	1	16	(*)	10	1	2	8
100,001 to 500,000	209	10	25	21	5	67	3	43	4	8	24
500,001 to 1,000,000	97	4	15	13	3	34	1	12	2	4	10
1,000,001 to 5,000,000	269	10	36	42	4	102	1	23	5	16	29
Over 5,000,000	214	5	28	29	2	99	1	8	6	12	24

Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	890	34	116	113	15	335	6	104	19	43	105
Provider of Purchased Electricity (more than one may apply)											
Local Utility	791	30	102	100	14	295	6	96	16	38	94
Some Other Provider	90	3	13	12	1	36	(*)	7	Q	5	10

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. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

^a Totals in the "Electricity" and "Electricity Secondary" rows have been revised and values do not match published values in consumption Table C13 (http://www.eia.doe.gov/emeu/cbecs/cbecs2003/detailed_tables_2003/detailed_tables_2003.html).

(*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

Notes: ● Due to rounding, data may not sum to totals. ● HVAC = Heating, Ventilation, and Air Conditioning.

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

Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Building Floorspace (Square Feet)											
1,001 to 5,000	17.8	0.9	2.0	0.8	0.5	4.3	0.3	6.3	0.4	0.5	1.8
5,001 to 10,000	12.4	0.6	1.6	0.8	0.3	3.9	0.2	2.6	0.3	0.4	1.7
10,001 to 25,000	10.5	0.5	1.2	1.1	0.2	3.9	0.1	1.4	0.2	0.5	1.4
25,001 to 50,000	12.2	0.5	1.9	1.8	0.3	4.2	0.1	1.2	0.2	0.6	1.5
50,001 to 100,000	13.1	0.5	1.9	2.1	0.2	5.1	0.1	1.0	0.2	0.6	1.5
100,001 to 200,000	15.7	0.5	2.0	2.6	0.2	6.3	(*)	0.8	Q	1.0	1.8
200,001 to 500,000	15.0	0.3	2.1	2.2	0.2	6.7	0.1	0.4	0.3	0.8	1.8
Over 500,000	19.0	0.4	2.3	2.8	0.1	9.0	0.1	0.6	0.4	1.2	2.1
Principal Building Activity											
Education	11.0	0.5	2.2	2.5	0.3	3.4	(*)	0.5	0.1	1.0	0.6
Food Sales	49.4	1.5	2.9	1.8	Q	10.9	0.6	28.2	0.5	0.4	2.4
Food Service	38.4	1.8	5.0	4.3	1.8	7.5	2.4	12.3	0.3	0.3	2.6
Health Care	22.9	0.5	3.1	3.9	0.2	9.7	0.1	0.8	0.3	0.9	3.3
Inpatient	27.5	0.5	3.8	5.9	0.3	11.7	0.1	0.6	0.3	1.0	3.2
Outpatient	16.1	0.7	2.1	1.0	0.1	6.6	(*)	1.0	0.4	0.8	3.5
Lodging	13.5	0.8	1.4	0.8	0.7	7.1	0.1	0.7	Q	0.4	1.4
Retail (Other Than Mall).....	14.3	0.4	1.7	1.1	0.1	7.5	(*)	1.5	0.2	0.3	1.5
Office	17.3	0.8	2.4	1.5	0.2	6.8	(*)	0.8	0.8	1.8	2.2
Public Assembly	12.5	0.4	2.6	4.7	(*)	2.0	(*)	0.7	Q	0.2	1.7
Public Order and Safety	15.3	0.5	2.1	2.8	0.9	4.8	(*)	0.9	0.2	0.4	2.7
Religious Worship	4.9	0.2	0.8	0.4	(*)	1.3	(*)	0.5	(*)	0.1	1.4
Service	11.0	0.4	1.1	1.8	(*)	4.6	Q	0.6	0.1	0.2	2.1
Warehouse and Storage	7.6	0.2	0.4	0.6	0.1	4.1	Q	1.1	0.1	0.1	0.9
Other	22.5	0.4	2.7	1.8	0.1	10.1	Q	1.8	Q	0.9	3.7
Vacant	2.4	0.1	0.2	0.2	Q	0.7	Q	0.1	Q	(*)	1.1
Year Constructed											
Before 1920	7.1	0.2	0.5	0.9	Q	2.7	0.1	1.3	0.2	0.3	0.9
1920 to 1945	9.2	0.2	0.7	1.3	0.1	4.0	0.1	1.1	0.1	0.4	1.3
1946 to 1959	9.9	0.4	1.1	1.5	0.2	3.7	0.1	1.1	0.2	0.5	1.2
1960 to 1969	11.9	0.4	1.6	1.8	0.2	4.1	(*)	1.4	0.2	0.7	1.4
1970 to 1979	15.9	0.7	2.0	2.1	0.3	6.1	0.1	1.6	0.3	0.8	1.9
1980 to 1989	18.1	0.8	2.6	1.9	0.3	6.8	0.1	1.9	0.4	1.1	2.1
1990 to 1999	16.7	0.6	2.4	2.1	0.3	6.0	0.2	2.1	0.4	0.8	1.9
2000 to 2003	16.2	0.5	2.5	1.8	0.2	6.4	0.2	2.1	0.2	0.5	1.8
Census Region and Division											
Northeast	11.5	0.5	0.8	1.5	0.1	4.7	0.1	1.3	0.3	0.7	1.5
New England	10.8	0.5	0.6	1.2	0.2	4.2	0.1	1.9	0.2	0.6	1.3
Middle Atlantic	11.7	0.4	0.9	1.6	0.1	4.9	(*)	1.2	0.3	0.7	1.5
Midwest	12.9	0.8	0.9	1.8	0.2	5.0	0.1	1.6	0.3	0.6	1.7
East North Central	13.5	0.7	0.9	2.0	0.2	5.4	0.1	1.5	0.3	0.7	1.8
West North Central	11.7	0.9	1.0	1.4	0.2	4.3	0.1	1.6	0.2	0.5	1.5
South	16.5	0.4	3.1	2.0	0.4	5.8	0.2	2.0	0.2	0.7	1.7
South Atlantic	17.4	0.5	3.0	2.1	0.5	6.3	0.2	2.1	0.3	0.9	1.7
East South Central	15.5	0.5	2.1	2.0	0.3	5.8	Q	2.2	0.2	0.5	1.9
West South Central	15.3	0.3	3.8	1.8	0.2	5.0	0.1	1.7	0.2	0.5	1.6
West	13.8	0.5	1.8	1.6	0.2	5.3	0.1	1.4	0.5	0.7	1.7
Mountain	15.4	0.6	2.0	1.9	0.2	6.3	Q	1.5	Q	0.7	1.8
Pacific	13.0	0.4	1.6	1.5	0.2	4.8	0.1	1.4	Q	0.8	1.7

Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Climate Zone: 30-Year Average											
Under 2,000 CDD and --											
More than 7,000 HDD	11.5	0.6	0.6	1.7	0.2	4.4	0.1	1.7	0.2	0.5	1.5
5,500-7,000 HDD	13.1	0.8	0.9	1.7	0.2	5.3	0.1	1.5	0.3	0.7	1.7
4,000-5,499 HDD	14.6	0.6	1.5	1.8	0.2	5.9	0.1	1.6	0.5	0.8	1.7
Fewer than 4,000 HDD	14.5	0.3	2.2	1.8	0.3	5.3	0.1	1.8	0.3	0.6	1.7
2,000 CDD or More and --											
Fewer than 4,000 HDD	17.3	0.3	4.7	2.0	0.4	5.4	0.1	1.7	0.2	0.9	1.7
Number of Floors											
One	13.4	0.6	1.8	1.3	0.3	4.5	0.1	2.7	0.2	0.4	1.5
Two	12.6	0.5	1.6	1.8	0.3	4.7	0.1	1.3	0.3	0.6	1.6
Three	11.4	0.5	1.3	1.6	0.2	4.5	0.1	0.9	0.3	0.6	1.5
Four to Nine	17.3	0.5	2.4	2.9	0.2	7.0	0.1	0.7	0.4	1.2	2.1
Ten or More	19.4	0.6	2.5	2.2	0.2	9.0	0.1	0.5	0.6	1.5	2.3
Elevators and Escalators (more than one may apply)											
Any Elevators	17.0	0.6	2.3	2.6	0.2	7.0	0.1	0.6	0.5	1.1	2.0
Number of Elevators.....											
One	12.8	0.5	1.7	2.2	0.2	4.8	(*)	0.7	0.3	0.8	1.5
Two to Five	17.0	0.6	2.3	2.6	0.2	6.8	(*)	0.6	0.5	1.2	2.0
Six or More	22.5	0.5	3.2	3.3	0.2	10.0	0.1	0.5	0.6	1.5	2.7
Any Escalators	24.1	0.6	3.9	3.7	0.2	9.9	Q	0.5	Q	1.4	2.7
Number of Workers (main shift)											
Fewer than 5	7.7	0.4	0.8	0.6	0.2	2.5	0.1	1.9	0.1	0.1	1.2
5 to 9	11.8	0.6	1.5	1.0	0.3	3.7	0.2	2.7	0.2	0.3	1.5
10 to 19	11.4	0.6	1.5	1.1	0.3	3.9	0.2	2.0	0.2	0.3	1.3
20 to 49	14.0	0.5	1.9	1.9	0.3	5.1	0.1	1.8	0.4	0.6	1.6
50 to 99	14.9	0.6	2.0	2.5	0.3	5.6	0.1	1.4	0.3	0.7	1.5
100 to 249	19.6	0.7	2.9	2.9	0.4	8.0	0.1	1.2	0.4	1.1	2.1
250 or More	22.4	0.6	2.9	3.1	0.2	9.6	0.1	0.7	0.6	1.9	2.6
Weekly Operating Hours											
Fewer than 40	4.5	0.3	0.9	0.4	0.1	1.1	(*)	0.6	(*)	0.1	1.1
40 to 48	10.1	0.6	1.7	1.1	0.2	3.4	(*)	0.8	0.3	0.6	1.5
49 to 60	11.2	0.4	1.5	1.3	0.1	4.3	(*)	0.9	0.3	0.6	1.6
61 to 84	14.1	0.5	1.8	1.9	0.2	5.2	0.1	1.8	0.3	0.7	1.6
85 to 167	22.1	0.7	2.3	3.3	0.4	7.0	0.4	5.0	0.2	0.9	1.9
Open Continuously	21.2	0.7	2.6	2.7	0.5	9.3	0.1	1.7	0.5	0.9	2.1
Ownership and Occupancy											
Nongovernment Owned.....	14.0	0.6	1.7	1.4	0.2	5.5	0.1	1.9	0.3	0.6	1.7
Owner Occupied	13.6	0.5	1.7	1.4	0.2	5.3	0.1	1.7	0.4	0.6	1.7
Nonowner Occupied	15.2	0.7	1.8	1.4	0.3	5.9	0.2	2.3	0.3	0.6	1.7
Unoccupied	1.9	Q	Q	(*)	Q	0.5	(*)	Q	Q	Q	0.9
Government Owned	14.1	0.5	2.2	3.1	0.3	4.7	0.1	0.7	0.2	0.9	1.5
Federal	19.7	0.3	1.9	3.6	0.1	9.5	(*)	0.5	0.2	0.8	2.8
State	15.8	0.2	2.0	4.1	0.2	4.8	(*)	0.7	0.2	1.6	1.9
Local	12.3	0.6	2.4	2.6	0.3	3.7	0.1	0.7	0.2	0.6	1.2
Vacancy Status											
Completely Vacant	1.8	Q	Q	(*)	Q	0.5	Q	Q	Q	Q	0.9
Mostly Vacant	13.8	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	13.8	0.6	1.8	1.6	0.2	5.8	0.1	0.7	0.3	1.0	1.8
Not At All Vacant	14.6	0.5	1.9	1.9	0.3	5.3	0.1	1.9	0.3	0.6	1.6

Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Number of Establishments											
One	14.1	0.5	1.8	1.8	0.3	5.2	0.1	1.9	0.3	0.6	1.6
2 to 5	13.5	0.4	1.8	1.7	0.1	5.3	0.1	1.3	0.3	0.6	1.7
6 to 10	17.3	0.8	2.2	2.1	0.2	6.5	(*)	0.7	0.4	2.4	2.0
11 to 20	14.7	0.8	2.2	1.8	0.1	5.6	(*)	Q	0.3	1.0	2.0
More than 20	19.6	0.6	3.2	2.5	0.2	8.0	(*)	0.5	0.6	1.7	2.3
Currently Unoccupied	1.8	Q	Q	(*)	Q	0.5	Q	Q	Q	Q	0.9
Predominant Exterior Wall Material											
Brick, Stone or Stucco	13.7	0.5	1.9	1.9	0.3	4.8	0.1	1.6	0.3	0.7	1.6
Concrete (Block or Poured)	14.5	0.5	2.0	1.7	0.2	5.5	0.1	2.0	0.3	0.5	1.6
Concrete Panels	18.3	0.4	2.3	2.1	0.2	8.5	0.1	1.0	0.5	1.3	2.0
Siding or Shingles	11.0	0.7	1.2	1.0	0.3	3.6	0.1	2.1	0.3	0.4	1.3
Metal Panels	11.8	0.5	1.0	1.4	0.1	4.8	Q	1.8	0.1	0.4	1.7
Window Glass	19.1	0.9	3.0	2.1	0.3	7.2	(*)	0.6	0.6	1.8	2.6
Other	16.7	0.9	2.5	1.7	0.1	6.7	0.2	1.1	0.4	1.1	1.9
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material											
Built-Up	14.7	0.4	2.0	1.9	0.2	5.7	0.1	1.5	0.3	0.8	1.7
Shingles (Not Wood)	12.3	0.6	1.5	1.2	0.4	4.0	0.1	2.3	0.3	0.4	1.5
Metal Surfacing	10.2	0.5	1.2	1.2	0.2	3.9	Q	1.2	0.1	0.3	1.4
Synthetic or Rubber	17.7	0.7	2.3	2.5	0.2	6.6	0.1	1.8	0.4	1.1	2.0
Slate or Tile	12.5	0.5	1.9	1.3	0.2	4.1	0.2	2.0	0.2	0.5	1.5
Wooden Materials	12.2	0.7	1.9	1.3	0.3	4.7	(*)	1.4	0.2	0.4	1.3
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	20.4	0.2	2.9	1.6	Q	11.0	Q	1.7	0.1	0.6	2.0
No One Major Type	10.4	Q	1.4	1.9	Q	3.2	Q	Q	0.2	Q	1.4
Renovations in Buildings Constructed Before 1980 (more than one may apply)											
Any Type of Renovation											
Since 1980	13.0	0.5	1.4	1.9	0.2	5.0	0.1	1.5	0.3	0.7	1.5
Addition or Annex	14.1	0.6	1.6	2.5	0.2	5.4	0.1	1.4	0.2	0.6	1.6
Reduction In Floorspace	15.2	0.5	1.5	2.6	0.2	6.4	0.1	0.7	0.3	0.9	2.0
Cosmetic Improvements	13.5	0.5	1.4	1.9	0.2	5.2	0.1	1.6	0.3	0.8	1.5
Wall or Roof Replacement	12.6	0.4	1.4	1.9	0.2	5.1	0.1	1.0	0.2	0.8	1.4
Interior Wall											
Re-Configuration	13.8	0.5	1.5	2.1	0.2	5.6	0.1	1.1	0.3	0.8	1.7
HVAC Equipment Upgrade.....	14.4	0.6	1.6	2.2	0.2	5.6	0.1	1.2	0.3	0.9	1.6
Lighting Upgrade	13.6	0.5	1.4	2.1	0.2	5.3	0.1	1.4	0.3	0.8	1.6
Window Replacement	11.7	0.4	1.1	1.7	0.2	4.7	0.1	1.2	0.2	0.8	1.4
Plumbing System Upgrade	12.9	0.4	1.3	2.1	0.2	5.3	0.1	1.0	0.2	0.8	1.5
Insulation Upgrade	12.7	0.4	1.5	2.2	0.2	4.7	0.1	1.1	0.2	0.8	1.5
Other Renovation	9.0	0.4	0.6	1.3	Q	4.0	0.1	1.0	0.1	0.3	1.1
No Renovations Since 1980.....	10.5	0.4	1.3	1.4	0.2	4.0	0.1	1.3	0.2	0.4	1.4
Building Newer than 1980	17.1	0.7	2.5	2.0	0.3	6.4	0.1	2.0	0.4	0.9	1.9
Energy Sources (more than one may apply)											
Electricity	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Natural Gas	14.6	0.4	1.8	2.0	0.2	5.7	0.1	1.6	0.3	0.7	1.7
Fuel Oil	16.5	0.6	2.1	2.3	0.2	7.0	0.1	0.8	0.5	1.0	2.0
District Heat	18.0	0.2	1.3	3.7	0.2	7.9	(*)	0.6	0.2	1.6	2.3
District Chilled Water	19.7	0.2	1.6	5.0	0.2	7.0	0.1	0.8	0.3	2.1	2.4
Propane	14.0	0.4	1.5	1.7	0.2	5.8	0.1	2.1	0.2	0.4	1.7
Other	16.4	0.4	1.6	3.0	0.1	6.4	0.1	1.4	Q	0.8	2.1

Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Space-Heating Energy Sources											
Electricity	15.9	1.2	2.3	1.6	0.4	5.9	0.1	1.7	0.4	0.7	1.7
Electricity Main	16.6	1.7	2.8	1.3	0.5	5.6	0.1	2.0	0.4	0.7	1.6
Electricity Secondary	15.1	0.5	1.7	2.0	0.2	6.2	0.1	1.2	0.4	0.8	1.9
Other Excluding Electricity	13.0	(*)	1.4	2.1	0.1	5.1	0.1	1.6	0.2	0.7	1.7
Buildings without Heating	8.2	(*)	1.8	0.7	0.1	2.6	0.1	1.7	0.1	0.2	1.0
Primary Space-Heating Energy Source											
Electricity	16.6	1.7	2.8	1.3	0.5	5.6	0.1	2.0	0.4	0.7	1.6
Natural Gas	13.9	0.2	1.7	1.9	0.2	5.5	0.1	1.6	0.3	0.7	1.8
Fuel Oil	5.9	0.1	0.4	1.0	0.1	2.2	(*)	1.0	0.1	0.3	0.7
District Heat	18.5	0.1	1.2	3.9	0.2	8.1	(*)	0.6	0.3	1.6	2.4
Propane	10.5	0.2	1.1	1.3	0.2	2.7	Q	2.9	Q	Q	1.5
Other	12.6	0.1	0.8	1.5	0.1	6.0	(*)	1.8	0.2	Q	1.8
Cooling Energy Source											
Electricity	15.0	0.6	2.1	1.8	0.3	5.6	0.1	1.8	0.3	0.7	1.7
Other Excluding Electricity	17.5	Q	(*)	4.7	0.2	7.0	(*)	0.7	0.3	2.3	2.1
Buildings without Cooling	4.8	0.2	(*)	0.7	(*)	2.2	(*)	0.6	(*)	0.1	0.9
Water-Heating Energy Source											
Electricity	14.6	0.8	2.1	1.5	0.6	5.2	0.1	1.7	0.3	0.7	1.7
Other Excluding Electricity	15.4	0.4	1.9	2.3	(*)	6.0	0.1	1.8	0.3	0.8	1.8
Bldgs without Water Heating	6.2	0.2	0.7	0.6	(*)	2.7	Q	0.8	0.1	0.1	1.0
Cooking Energy Source											
Electricity	18.9	0.8	2.6	2.8	0.5	6.5	0.5	2.3	0.3	0.8	1.7
Other Excluding Electricity	17.1	0.5	2.5	2.5	0.3	6.2	(*)	2.6	0.3	0.6	1.7
Buildings without Cooking	11.8	0.5	1.5	1.3	0.2	4.7	(*)	1.2	0.3	0.7	1.6
Energy End Uses (more than one may apply)											
Buildings with Space Heating	14.4	0.6	1.8	1.8	0.3	5.4	0.1	1.6	0.3	0.7	1.7
Buildings with Cooling	15.1	0.6	2.0	1.9	0.3	5.6	0.1	1.8	0.3	0.8	1.7
Buildings with Water Heating	15.0	0.6	2.0	1.9	0.3	5.6	0.1	1.7	0.3	0.8	1.7
Buildings with Cooking	18.2	0.7	2.5	2.7	0.4	6.4	0.3	2.4	0.3	0.7	1.7
Buildings with Manufacturing	13.2	0.4	0.9	1.6	Q	6.0	Q	0.9	0.2	0.6	2.3
Buildings with Electricity Generation	20.3	0.7	2.7	3.0	0.3	8.4	0.1	1.0	0.6	1.3	2.4
Percent of Floorspace Heated											
Not Heated	8.2	(*)	1.8	0.7	0.1	2.6	0.1	1.7	0.1	0.2	1.0
1 to 50	8.0	0.2	0.6	0.8	0.2	3.0	Q	1.7	Q	0.2	1.1
51 to 99	14.3	0.5	1.8	1.8	0.2	5.5	0.1	2.0	0.2	0.6	1.6
100	15.4	0.6	2.0	2.0	0.3	5.8	0.1	1.6	0.3	0.8	1.8
Percent of Floorspace Cooled											
Not Cooled	4.8	0.2	(*)	0.7	(*)	2.2	(*)	0.6	(*)	0.1	0.9
1 to 50	7.8	0.3	0.4	1.0	0.1	3.5	Q	1.1	0.1	0.2	1.1
51 to 99	16.5	0.7	2.1	2.2	0.2	6.1	0.1	2.3	0.3	0.8	1.8
100	18.8	0.7	3.0	2.3	0.4	6.8	0.2	1.9	0.5	1.0	2.1

Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Percent Lit When Open											
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	6.5	0.3	0.9	0.8	0.2	1.8	0.1	0.8	Q	0.2	1.1
51 to 99	14.3	0.5	1.9	2.0	0.3	5.3	0.1	1.4	0.3	0.9	1.7
100	17.0	0.6	2.2	2.1	0.3	6.7	0.1	2.1	0.3	0.8	1.8
Building Never Open/ Electricity Not Used	2.1	Q	0.2	0.1	Q	0.6	Q	0.1	Q	Q	1.0
Percent Lit When Closed											
Zero	9.2	0.4	1.2	1.2	0.1	2.9	0.1	1.2	0.2	0.5	1.4
1 to 50	13.3	0.5	1.8	1.7	0.2	4.6	0.1	1.7	0.3	0.7	1.6
51 to 100	21.7	0.8	2.2	2.0	0.3	10.4	0.2	3.4	0.2	0.6	1.5
Building Never Closed/ Electricity Not Used	21.2	0.7	2.6	2.7	0.5	9.3	0.1	1.7	0.5	0.9	2.1
Heating Equipment (more than one may apply)											
Heat Pumps	17.4	0.9	2.9	1.8	0.4	6.7	0.1	1.5	0.4	0.8	1.8
Packaged Heat Pumps	19.3	1.0	3.3	1.8	0.4	7.6	0.1	1.8	0.5	0.9	2.0
Split-System Heat Pumps	15.4	0.7	2.7	2.1	0.4	5.7	Q	1.3	0.2	0.5	1.7
Individual Room Heat Pumps ..	16.1	0.9	2.8	1.8	0.5	6.5	0.1	0.8	0.2	0.9	1.6
Furnaces	11.4	0.5	1.2	1.3	0.2	4.3	0.1	1.8	0.2	0.4	1.4
Individual Space Heaters	13.2	0.9	1.4	1.5	0.3	5.3	0.1	1.4	0.2	0.6	1.5
District Heat	18.0	0.1	1.2	3.8	0.2	7.9	(*)	0.6	0.3	1.6	2.3
Boilers	14.5	0.4	1.8	2.4	0.2	5.8	0.1	0.8	0.3	0.8	1.8
Packaged Heating Units	17.2	0.8	2.5	1.9	0.3	6.2	0.2	2.2	0.4	0.8	1.8
Other	15.2	0.9	1.9	1.8	0.3	5.8	0.1	1.7	0.2	0.7	1.8
Cooling Equipment (more than one may apply)											
Residential-Type Central											
Air Conditioners	12.1	0.5	1.6	1.8	0.3	4.2	0.1	1.6	0.2	0.4	1.5
Heat Pumps	17.7	0.8	3.0	1.8	0.4	6.8	0.1	1.8	0.4	0.8	1.9
Packaged Heat Pumps	19.4	1.0	3.2	1.7	0.4	7.7	0.1	1.9	0.5	0.9	2.0
Split-System Heat Pumps	15.7	0.6	2.7	2.1	0.4	5.6	Q	1.5	0.2	0.6	1.8
Individual Room Heat Pumps ..	17.1	0.8	3.0	1.9	0.5	6.8	0.1	1.1	0.3	0.8	1.7
Individual Air Conditioners	11.2	0.5	1.5	1.5	0.3	4.6	0.1	1.0	0.2	0.4	1.2
District Chilled Water	19.7	0.2	1.6	5.0	0.2	7.0	0.1	0.8	0.3	2.1	2.4
Central Chillers	21.1	0.6	3.1	3.5	0.3	8.5	0.1	0.7	0.6	1.3	2.5
Packaged Air Conditioning											
Units	15.4	0.6	2.1	1.7	0.3	5.8	0.1	2.0	0.3	0.7	1.7
Swamp Coolers	14.1	0.4	1.6	1.7	0.4	5.3	0.2	2.3	0.2	0.4	1.7
Other	18.0	0.6	2.7	2.5	0.1	6.8	0.1	Q	0.3	0.9	1.9
Main Equipment Replaced Since 1990 (more than one may apply)											
Heating	12.8	0.6	1.6	1.5	0.3	4.6	0.1	1.5	0.3	0.7	1.6
Cooling	13.6	0.6	1.7	1.7	0.3	5.1	0.1	1.5	0.3	0.8	1.6
Water Heating Equipment											
Centralized System	14.9	0.6	1.9	1.9	0.3	5.3	0.1	2.1	0.3	0.7	1.7
Distributed System	12.3	0.5	1.9	1.4	0.2	4.6	0.1	1.3	0.2	0.6	1.5
Combination of Centralized and Distributed System	18.6	0.6	2.5	2.5	0.3	7.7	0.1	1.0	0.5	1.2	2.0

Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Lighting Equipment Types (more than one may apply)											
Incandescent	15.3	0.6	2.0	2.0	0.3	6.1	0.1	1.5	0.3	0.8	1.7
Standard Fluorescent	14.5	0.5	1.9	1.9	0.2	5.4	0.1	1.7	0.3	0.7	1.7
Compact Fluorescent	17.7	0.6	2.3	2.5	0.3	6.9	0.1	1.5	0.4	0.9	2.0
High Intensity Discharge	16.0	0.5	1.9	2.4	0.2	6.7	0.1	1.2	0.3	0.9	1.8
Halogen	17.7	0.7	2.2	2.3	0.3	7.5	0.1	1.6	0.4	0.8	1.9
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)											
Any Refrigeration.....	15.3	0.6	2.0	1.9	0.3	5.7	0.1	2.0	0.3	0.8	1.7
Commercial Refrigeration	19.6	0.7	2.6	2.6	0.3	7.1	0.2	3.1	0.3	0.8	1.9
Walk-In Units	21.5	0.7	2.8	2.9	0.4	7.8	0.3	3.6	0.3	0.8	1.9
Cases or Cabinets	20.7	0.7	2.8	2.7	0.3	7.5	0.2	3.4	0.3	0.8	1.9
Residential-Type Units	13.3	0.5	1.8	1.8	0.2	5.1	0.1	1.2	0.3	0.7	1.6
Vending Machines	16.5	0.6	2.2	2.3	0.3	6.5	0.1	1.5	0.4	0.9	1.8
No Refrigeration	7.5	0.3	1.1	1.0	0.1	3.2	Q	(*)	0.1	0.3	1.4
Office Equipment (more than one may apply)											
Computers	15.0	0.6	2.0	1.9	0.3	5.7	0.1	1.6	0.3	0.8	1.7
With Flat Screen Monitors	17.6	0.6	2.4	2.5	0.2	6.8	0.1	1.2	0.5	1.2	2.1
Dedicated Servers	16.4	0.6	2.2	2.3	0.2	6.4	0.1	1.3	0.5	1.0	1.9
Laser Printers	13.8	0.6	1.8	1.8	0.2	5.1	0.1	1.6	0.3	0.7	1.6
Inkjet Printers	16.6	0.6	2.3	2.2	0.3	6.5	0.1	1.4	0.4	0.9	1.9
FAX Machines	15.1	0.6	2.0	2.0	0.2	5.8	0.1	1.5	0.3	0.8	1.7
Photocopiers	15.0	0.5	2.0	2.1	0.2	5.9	0.1	1.2	0.4	0.9	1.7
Number of Computers											
None	7.6	0.3	0.8	0.5	0.2	2.5	0.1	2.1	(*)	(*)	1.1
1 to 4	12.4	0.6	1.4	1.1	0.3	3.9	0.2	3.1	0.1	0.1	1.4
5 to 9	11.2	0.6	1.6	1.1	0.2	4.1	0.1	1.6	0.2	0.3	1.4
10 to 19	12.6	0.5	1.7	1.5	0.2	4.8	0.1	1.8	0.2	0.4	1.6
20 to 49	16.1	0.5	2.1	2.2	0.3	6.3	Q	1.5	Q	0.6	2.0
50 to 99	14.1	0.5	2.1	2.1	0.3	5.9	(*)	0.6	0.3	0.8	1.6
100 to 249	16.1	0.7	2.4	2.7	0.3	6.2	(*)	0.7	0.3	1.1	1.8
250 or More	21.2	0.6	2.8	3.2	0.2	8.6	0.1	0.6	0.7	2.1	2.3
Number of Dedicated Servers											
None	10.9	0.4	1.4	1.1	0.2	3.8	0.1	2.1	0.1	0.3	1.4
1 to 4	14.2	0.6	1.9	1.9	0.2	5.5	0.1	1.6	0.2	0.6	1.6
5 to 9	19.0	0.6	2.8	3.0	0.3	7.6	Q	0.9	0.5	1.3	2.1
10 to 19	20.9	0.5	2.4	3.4	0.2	8.1	(*)	1.1	0.5	2.2	2.4
20 to 49	20.7	0.5	3.6	2.9	0.2	8.0	0.1	0.6	0.7	1.6	2.4
50 or More	23.4	0.7	2.1	2.4	0.2	9.8	Q	0.7	2.3	2.3	2.7
Number of Photocopiers											
None	11.6	0.6	1.3	1.0	0.3	3.7	0.2	2.9	0.1	0.2	1.4
One	11.2	0.5	1.4	1.3	0.2	4.2	0.1	1.7	0.2	0.3	1.4
2 to 4	13.7	0.5	1.9	2.0	0.2	5.3	0.1	1.2	0.4	0.7	1.6
5 to 9	17.2	0.6	2.4	2.8	0.2	6.5	(*)	0.8	0.4	1.6	2.0
10 or More	21.2	0.6	3.0	3.0	0.2	9.0	0.1	0.6	0.7	1.6	2.4

Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Energy-Related Space Functions (more than one may apply)											
Commercial Food Preparation....	18.2	0.7	2.5	2.7	0.4	6.4	0.3	2.4	0.3	0.7	1.7
Activities with Large Amounts of Hot Water	17.6	0.7	2.4	2.6	0.4	7.0	0.2	1.5	0.3	0.8	1.8
Separate Computer Area	16.9	0.6	2.4	2.5	0.3	6.7	0.1	0.9	0.5	1.1	1.8
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System.....	19.0	0.7	2.7	2.6	0.3	7.5	0.1	1.1	0.5	1.3	2.3
Economizer Cycle	19.5	0.7	2.5	2.9	0.3	7.7	0.1	1.3	0.5	1.3	2.2
HVAC Maintenance	15.5	0.6	2.1	2.1	0.3	5.9	0.1	1.6	0.3	0.8	1.8
Energy Management and Control System (EMCS)	17.9	0.6	2.7	3.0	0.3	6.9	0.1	0.8	0.5	1.1	2.0
Window and Interior Lighting Features (more than one may apply)											
Multipaned Windows	15.3	0.7	1.8	2.0	0.3	5.9	0.1	1.7	0.3	0.7	1.8
Tinted Window Glass	16.6	0.5	2.3	2.2	0.2	6.6	0.1	1.3	0.4	0.9	2.0
Reflective Window Glass	17.9	0.7	2.6	2.4	0.3	7.3	0.1	1.1	0.4	1.0	2.1
External Overhangs or Awnings	16.4	0.6	2.0	2.1	0.3	5.8	0.2	2.4	0.4	0.8	1.7
Skylights or Atriums	15.1	0.5	1.9	2.2	0.2	6.4	0.1	0.8	0.5	0.8	1.8
Daylighting Sensors	21.1	0.6	2.9	3.0	0.2	8.1	0.1	1.3	Q	1.2	2.4
Specular Reflectors	16.7	0.6	2.2	2.3	0.3	6.7	0.1	1.3	0.4	0.9	2.0
Electronic Ballasts	15.6	0.6	2.1	2.1	0.3	5.9	0.1	1.6	0.3	0.8	1.8
Energy Management and Control System (EMCS) For Lighting	19.1	0.6	2.9	2.7	0.3	7.6	0.1	0.9	Q	1.2	2.1
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)											
Heating	13.2	0.5	1.8	1.8	0.2	4.9	0.1	1.3	0.3	0.7	1.6
Cooling	13.8	0.5	1.9	1.9	0.2	5.1	0.1	1.3	0.3	0.8	1.6
Lighting	12.5	0.5	1.7	1.6	0.2	4.3	0.1	1.7	0.2	0.6	1.6
Office Equipment	10.9	0.4	1.6	1.5	0.2	3.9	0.1	1.2	0.2	0.4	1.4
Annual Consumption (kilowatthours)											
10,000 or Less	1.3	(*)	0.1	0.1	(*)	0.4	(*)	0.2	(*)	(*)	0.4
10,001 to 50,000	4.9	0.2	0.6	0.3	0.1	1.7	(*)	0.7	0.1	0.1	0.9
50,001 to 100,000	8.0	0.4	1.0	0.6	0.2	2.5	0.1	1.6	0.2	0.3	1.2
100,001 to 500,000	13.0	0.6	1.5	1.3	0.3	4.2	0.2	2.7	0.2	0.5	1.5
500,001 to 1,000,000	14.4	0.6	2.2	1.9	0.4	5.0	0.1	1.9	0.2	0.6	1.5
1,000,001 to 5,000,000	20.3	0.7	2.8	3.2	0.3	7.7	0.1	1.7	0.4	1.2	2.2
Over 5,000,000	24.7	0.5	3.2	3.3	0.2	11.4	0.1	0.9	0.7	1.4	2.8

Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings*	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Provider of Purchased Electricity (more than one may apply)											
Local Utility	13.7	0.5	1.8	1.7	0.2	5.1	0.1	1.7	0.3	0.7	1.6
Some Other Provider	18.3	0.5	2.6	2.5	0.2	7.2	0.1	1.5	Q	1.0	2.1

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/cbecs>.

* Figures in this table do not include enclosed malls and strip malls. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

(*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

Notes: ● Due to rounding, data may not sum to totals. ● HVAC = Heating, Ventilation, and Air Conditioning.

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