

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

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	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

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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

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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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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

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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

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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.