Release date: May 2016

Table C14. Electricity consumption and expenditure intensities, 2012

				Distribution building-leve (kWh/square	el intensities		Electricity ex	penditures	
	per building (thousand kWh)	per square foot (kWh)	per worker (thousand kWh)	25th per- centile	Median	75th	per building (thousand dollars)	per square foot (dollars)	per kwh (dollars)
All buildings	237	14.6	14.1	3.8	8.7	17.2	23.3	1.44	0.098
Building floorspace (square feet)									
1,001 to 5,000	51	17.4	12.8	4.0	9.0	19.4	5.3	1.82	0.105
5,001 to 10,000	97	13.3	12.3	3.7	7.8	14.9	10.2	1.41	0.106
10,001 to 25,000	187	11.7	11.2	3.2	7.7	16.0	19.6	1.23	0.105
25,001 to 50,000	457	12.8	13.1	4.2	9.6	16.7	44.7	1.25	0.098
50,001 to 100,000	985	14.1	15.5	6.0	10.7	16.6	94.9	1.36	0.096
100,001 to 200,000	2,115	15.3	16.8	6.9	13.7	19.6	195.2	1.42	0.092
200,001 to 500,000	4,808	16.9	17.4	7.7	13.6	22.1	445.6	1.57	0.093
Over 500,000	16,362	18.4	14.1	10.1	15.1	22.6	1558.7	1.76	0.095
Principal building activity									
Education	345	11.0	12.3	5.6	9.0	13.7	33.2	1.05	0.096
Food sales	345	48.7	52.0	35.0	54.8	81.4	32.4	4.57	0.094
Food service	215	44.9	23.8	18.9	38.4	73.2	21.3	4.44	0.099
Health care	683	25.8	14.1	7.0	13.1	19.2	61.2	2.31	0.090
Inpatient	7,687	31.0	17.2	20.5	32.7	43.9	671.8	2.71	0.087
Outpatient	227	18.7	10.0	6.3	12.8	19.0	21.4	1.77	0.094
Lodging	565	15.3	29.1	8.4	13.5	19.5	53.8	1.46	0.095
Mercantile	345	18.3	22.7	6.2	13.0	21.8	33.4	1.77	0.097
Retail (other than mall)	189	15.2	20.5	4.9	9.7	18.8	18.7	1.50	0.099
Enclosed and strip malls	757	21.1	24.4	13.8	19.5	27.8	72.4	2.02	0.096
Office	250	15.9	7.5	6.0	9.9	15.8	25.9	1.64	0.104
Public assembly	229	14.5	25.9	3.5	7.7	14.6	22.4	1.42	0.098
Public order and safety	255	14.9	11.5	3.9	9.1	16.2	24.3	1.42	0.095
Religious worship	58	5.2	12.2	2.2	3.5	5.7	6.1	0.55	0.106
Service	62	8.3	9.3	3.4	6.5	12.0	6.8	0.91	0.110
Warehouse and storage	123	6.6	13.2	1.6	3.7	7.5	12.5	0.67	0.101
Other	455	28.3	34.7	2.6	6.6	25.1	41.1	2.56	0.090
Vacant	66	4.5	32.7	0.8	1.6	3.6	7.0	0.48	0.105
Year constructed									
Before 1920	95	8.4	9.6	2.1	4.6	12.2	10.4	0.92	0.110
1920 to 1945	140	10.9	10.7	2.7	6.3	13.0	15.9	1.24	0.113
1946 to 1959	153	11.8	12.9	3.5	8.2	15.6	15.3	1.17	0.100
1960 to 1969	241	14.4	15.0	4.6	9.0	16.8	23.5	1.40	0.097
1970 to 1979	262	16.2	13.6	4.2	9.0	18.5	24.6	1.52	0.094
1980 to 1989	273	15.8	13.4	4.3	9.1	17.9	26.7	1.54	0.098
1990 to 1999	279	16.2	15.9	4.4	9.6	19.6	26.9	1.56	0.096
2000 to 2003	301	15.5	14.9	4.3	10.3	18.6	28.8	1.48	0.096
2004 to 2007	284	14.9	16.2	4.7	10.1	19.5	28.1	1.47	0.099
2008 to 2012	301	15.7	16.1	4.1	8.2	16.8	29.5	1.54	0.098

Table C14. Electricity consumption and expenditure intensities, 2012

				Distribution building-leve (kWh/square	el intensities		Electricity ex	penditures	
	per building (thousand kWh)	per square foot (kWh)	per worker (thousand kWh)	25th per-	Median	75th per- centile	per building (thousand dollars)	per square foot (dollars)	per kwh (dollars)
All buildings	237	14.6	14.1	3.8	8.7	17.2	23.3	1.44	0.098
Census region and division									
Northeast	286	14.4	12.4	3.2	7.4	16.0	32.6	1.64	0.114
New England	177	12.1	12.1	2.9	6.5	15.0	22.8	1.55	0.129
Middle Atlantic	350	15.3	12.5	3.4	8.0	16.7	38.4	1.68	0.110
Midwest	213	13.4	14.5	3.2	7.8	14.8	18.5	1.17	0.087
East North Central	247	13.9	14.6	3.6	8.4	16.7	22.2	1.25	0.090
West North Central	161	12.5	14.1	2.5	6.4	13.0	13.0	1.00	0.081
South	254	16.1	16.3	4.7	10.1	19.4	22.8	1.44	0.090
South Atlantic	281	16.3	15.9	5.0	10.7	21.4	26.7	1.55	0.095
East South Central	200	14.6	16.4	4.8	10.3	18.9	17.6	1.29	0.088
West South Central	243	16.3	16.9	4.3	9.7	17.7	19.7	1.32	0.081
West	201	13.5	11.9	4.1	7.9	15.9	22.8	1.53	0.113
Mountain	212	13.9	14.6	3.9	7.3	17.2	19.7	1.29	0.093
Pacific	197	13.3	11.1	4.2	8.2	15.5	23.9	1.62	0.121
Climate region ¹									
Very cold/Cold	217	13.4	13.6	3.1	7.5	15.0	20.8	1.28	0.096
Mixed-humid	254	15.2	14.5	4.1	9.5	17.7	24.1	1.44	0.095
Mixed-dry/Hot-dry	193	13.0	11.7	4.0	7.4	14.5	23.2	1.56	0.120
Hot-humid	298	18.4	17.6	5.7	13.3	22.6	27.2	1.68	0.091
Marine	256	14.6	11.2	4.7	9.1	17.3	28.4	1.62	0.111
Number of floors									
One	153	14.3	15.6	3.9	8.7	18.1	15.2	1.42	0.099
Two	230	13.0	13.1	3.7	8.2	15.1	22.5	1.27	0.098
Three	300	13.5	14.0	3.6	8.9	16.1	30.2	1.36	0.101
Four to nine	1,321	17.2	14.2	5.1	11.4	16.8	122.6	1.60	0.093
Ten or more	7,851	18.3	10.5	11.6	15.7	21.8	806.2	1.88	0.103
Elevators and escalators (more than one may apply)									
Any elevators	1,343	16.9	13.5	7.4	13.1	19.6	128.1	1.61	0.095
Number of elevators									
One	546	13.2	12.9	5.7	11.7	17.6	51.1	1.23	0.093
Two to five	1,906	17.5	14.4		14.6	22.0	180.3	1.66	0.095
Six or more	10,641	21.0	12.9		18.9	26.3	1042.8	2.05	0.098
Any escalators	6,854	18.2	13.7		19.1	20.7	651.8	1.73	0.095
Number of workers (main shift)									
Fewer than 5	52	8.6	26.7	2.6	5.9	13.2	5.4	0.89	0.103
5 to 9	103	12.5	16.0	5.0	9.5	17.5	10.7	1.30	0.104
10 to 19	181	13.7	14.0	6.3	12.0	22.0	18.5	1.41	0.103
20 to 49	429	15.1	14.8		12.1	21.3	41.4	1.46	0.097
50 to 99	1,042	15.9	15.9		14.4	21.4	97.7	1.49	0.094
100 to 249	1,984	16.9	13.9		15.7	24.3	188.7	1.61	0.095
250 or more	6,634	20.8	9.9		18.3	27.4	645.3	2.03	0.097

Table C14. Electricity consumption and expenditure intensities, 2012

			ŀ	Distribution ouilding-leve kWh/square	l intensities		Electricity ex	penditures	
	per building (thousand kWh)	per square foot (kWh)	per worker (thousand kWh)	25th per- centile	Median	75th per- centile	per building (thousand dollars)	per square foot (dollars)	per kwh (dollars)
All buildings	237	14.6	14.1	3.8	8.7	17.2	23.3	1.44	0.098
Weekly operating hours									
Fewer than 40	37	5.3	10.6	1.5	3.3	7.3	4.0	0.57	0.107
40 to 48	117	9.8	8.8	4.2	7.5	12.6	12.1	1.02	0.104
49 to 60	194	11.7	9.6	4.7	8.7	14.7	19.9	1.20	0.103
61 to 84	335	15.8	14.9	7.4	14.9	26.6	33.9	1.60	0.101
85 to 167	429	21.4	24.7	13.0	28.8	56.5	40.6	2.02	0.095
Open continuously	691	21.5	20.6	4.8	13.4	26.8	63.2	1.97	0.091
Ownership and occupancy									
Nongovernment owned	220	15.1	14.4	3.6	8.5	17.6	21.8	1.49	0.099
Owner occupied	190	15.0	17.6	3.4	7.9	16.4	18.1	1.43	0.095
Leased to tenant(s)	238	15.4	12.4	4.4	10.0	20.0	24.5	1.59	0.103
Owner occupied and leased	385	15.0	12.5	4.3	8.7	15.7	38.3	1.49	0.099
Unoccupied	26	2.5	N	0.8	1.7	2.3	2.9	0.28	0.112
Government owned	338	13.3	13.0	5.6	9.7	15.5	32.0	1.26	0.095
Federal	689	14.4	10.6	6.4	11.6	17.1	68.1	1.43	0.099
State	440	14.6	14.5	6.3	10.3	17.0	39.5	1.31	0.090
Local	282	12.5	12.7	5.5	9.5	15.3	27.3	1.21	0.097
Party responsible for operation and maintenance of energy systems									
Building owner	233	14.4	13.8	3.7	8.3	16.0	22.6	1.39	0.097
Business owner or tenant	258	16.3	16.3	5.1	11.5	22.7	26.4	1.67	0.102
Property management	350	14.8	10.5	3.9	8.5	20.2	35.9	1.52	0.103
Other	213	16.2	15.5	5.5	10.8	19.8	22.8	1.74	0.107
Provider of direct input on energy- related equipment purchases									
	232	14.3	13.8	3.7	8.4	16.1	22.7	1.40	0.097
Building owner Business owner or tenant	269	17.4	16.5	5.2	11.7	25.9	27.2	1.76	0.101
Property management	344	13.5	12.4	4.7	13.9	25.1	37.8	1.48	0.110
Other	262	16.4	15.5	5.1	10.7	20.0	26.3	1.64	0.100
Number of establishments									
One	190	14.3	14.9	3.8	8.6	17.1	18.5	1.39	0.097
2 to 5	288	14.0	13.1	4.4	9.2	17.3	28.6	1.39	0.099
6 to 10	520	16.3	12.0	5.4	12.8	18.2	51.4	1.61	0.099
11 to 20	1,033	18.6	13.0	7.4	13.6	19.3	105.3	1.90	0.102
More than 20	4,079	20.1	12.6	12.2	16.9	20.2	401.1	1.98	0.102
Currently unoccupied	26	2.2	N	0.8	1.5	2.3	2.9	0.25	0.038
Carrently unoccupied		۷.۷	IN			د.ے	 .J	U.ZJ	J. 1 1 1

Table C14. Electricity consumption and expenditure intensities, 2012

Distribution of building-level intensities (kWh/square foot) **Electricity expenditures** per per per per per building square worker 25th 75th building square per (thousand foot (thousand perper- (thousand foot kwh centile kWh) kWh) Median centile dollars) (kWh) (dollars) (dollars) All buildings 237 14.6 14.1 3.8 8.7 17.2 23.3 1.44 0.098 Predominant exterior wall material 0.098 Brick, stone, or stucco 269 15.1 14.3 4.6 10.0 19.6 26.4 1.47 Concrete (block or poured) 300 15.8 16.0 4.8 9.6 19.8 29.2 1.54 0.097 0.097 Concrete panels 601 14.3 12.7 4.0 8.9 15.9 58.3 1.38 0.109 Siding or shingles 85 12.8 11.9 3.4 8.3 16.4 9.2 1.39 Metal panels 96 9.8 13.8 2.4 5.3 10.5 9.1 0.93 0.095 Window glass 11.8 15.2 28.8 2.24 0.096 1,838 23.4 7.4 175.8 Other 16.3 2.9 9.5 17.2 37.1 1.62 0.101 369 16.0 Q 7.2 0.100 No one major type 362 13.1 3.0 16.4 36.1 1.31 Predominant roof material Metal surfacing 112 11.2 14.1 2.8 6.5 13.8 10.9 1.09 0.097 Synthetic or rubber 10.3 45.4 0.096 474 16.5 15.3 21.3 1.58 5.1 Built-up 427 14.0 10.0 41.2 0.097 15.8 5.2 19.1 1.53 Slate or tile shingles 154 13.9 13.9 4.4 10.0 20.4 16.6 1.50 0.108 Wooden materials (including shingles) 94 12.5 13.9 3.4 10.1 25.2 10.3 1.36 0.109 Asphalt, fiberglass, or other shingles 138 13.4 12.1 4.1 8.8 16.4 14.1 1.36 0.102 0.099 Concrete 595 18.9 6.5 15.7 26.0 59.1 1.88 14.4 Other 0.098 451 15.8 18.8 5.1 13.2 16.4 44.0 1.54 No one major type 292 8.0 15.8 1.7 4.0 13.2 30.9 0.85 0.106 **Roof characteristics** Roof tilt Flat 427 41.3 0.097 16.4 14.0 5.3 11.2 22.0 1.59 Shallow pitch 150 13.0 15.3 3.5 7.7 15.4 14.8 1.28 0.099 Steeper pitch 106 11.1 12.7 7.2 14.2 11.0 0.103 3.1 1.15 Cool roof 452 15.0 5.2 10.2 43.4 0.096 16.8 21.1 1.61

Table C14. Electricity consumption and expenditure intensities, 2012

		Distribution of building-level intensities (kWh/square foot) Electricity expen					nenditures		
	per building (thousand kWh)	per square foot (kWh)	per worker (thousand kWh)	25th per- centile	Median	75th per- centile	per building (thousand dollars)	per square foot (dollars)	per kwh (dollars)
All buildings	237	14.6	14.1	3.8	8.7	17.2	23.3	1.44	0.098
Renovations in buildings constructed before 2008 (more than one may apply)									
Any type of renovation	317	15.5	14.0	4.4	9.5	17.8	30.8	1.50	0.097
Addition or annex	466	15.8	16.4	5.1	9.8	18.5	43.1	1.46	0.093
Reduction in floorspace	542	20.5	13.8	4.9	13.1	23.0	48.2	1.83	0.089
Roof replacement	345	15.9	14.4	4.2	9.0	17.2	32.9	1.52	0.096
Exterior wall replacement	374	16.6	15.4	3.7	8.5	17.4	34.7	1.54	0.093
Interior wall reconfiguration	406	16.8	12.9	5.0	9.8	17.9	39.3	1.62	0.097
Window replacement	316	14.4	12.5	4.0	8.8	15.8	31.3	1.42	0.099
HVAC equipment upgrade	399	16.2	14.4	4.5	9.8	18.2	38.6	1.57	0.097
Lighting upgrade	423	16.1	14.5	5.0	10.2	19.5	40.8	1.55	0.096
Electrical upgrade	359	16.4	14.9	4.4	8.8	17.9	34.8	1.60	0.097
Plumbing system upgrade	350	16.1	13.8	4.6	9.7	18.1	34.7	1.60	0.099
Insulation upgrade	332	16.6	15.0	3.9	8.5	16.0	31.1	1.56	0.093
Fire, safety, or security upgrade	462	16.4	14.1	5.4	10.0	19.0	45.2	1.61	0.098
Structural upgrade	458	17.6	18.5	4.2	9.4	16.5	42.8	1.65	0.094
Other	331	15.3	12.8	2.5	9.1	25.1	34.1	1.57	0.103
No renovations	175	13.6	14.0	3.6	8.1	16.7	17.4	1.35	0.099
Buildings constructed 2008 or later	301	15.7	16.1	4.1	8.2	16.8	29.5	1.54	0.098
Energy sources (more than one may apply)									
Electricity	237	14.6	14.1	3.8	8.7	17.2	23.3	1.44	0.098
Natural gas	308	15.4	14.5	4.6	9.5	18.5	30.0	1.50	0.097
Fuel oil	818	18.9	14.9	3.6	9.4	20.2	77.9	1.80	0.095
District heat	2,165	17.3	12.6	7.7	14.1	20.2	204.1	1.63	0.094
District chilled water	1,585	18.6	14.9	7.8	12.9	16.5	134.9	1.58	0.085
Propane	218	14.4	18.7	3.0	6.4	15.0	21.3	1.41	0.098
Other	298	13.1	13.2	3.6	7.2	13.1	30.9	1.36	0.104
Space-heating energy sources									
Electricity	271	15.8	14.4	5.2	10.2	19.6	26.1	1.52	0.096
Electricity main	242	16.8	15.2	5.6	10.8	21.3	23.1	1.61	0.096
Electricity secondary	322	14.7	13.4	4.7	9.3	16.7	31.4	1.43	0.097
Other excluding electricity	228	13.7	13.3	3.4	7.5	14.7	22.6	1.35	0.099
Buildings without heating	87	9.4	18.1	1.1	3.7	11.7	10.0	1.08	0.115
Primary space-heating energy source									
Electricity	242	16.8	15.2	5.6	10.8	21.3	23.1	1.61	0.096
Natural gas	263	14.2	13.7	4.2	8.8	16.4	26.0	1.40	0.099
Fuel oil	115	9.3	11.8	2.7	4.7	12.9	12.6	1.02	0.109
District heat	2,144	17.4	12.6	7.7	14.1	20.2	202.8	1.65	0.095
Propane	68	9.2	12.1	2.2	4.6	9.7	6.2	0.84	0.091
Other	73	8.0	9.0	4.0	5.9	12.7	8.3	0.90	0.113

Table C14. Electricity consumption and expenditure intensities, 2012

			k	Distribution Duilding-leve	el intensities		Electricity ex	penditures	
	per building (thousand kWh)	per square foot (kWh)	per worker (thousand kWh)	25th per- centile	Median	75th per- centile	per building (thousand dollars)	per square foot (dollars)	per kwh (dollars)
All buildings	237	14.6	14.1	3.8	8.7	17.2	23.3	1.44	0.098
Cooling energy sources									
Electricity	263	15.2	14.1	4.9	9.9	19.0	25.8	1.50	0.098
Other excluding electricity	1,170	17.3	16.1	7.4	10.9	15.6	97.8	1.45	0.084
Buildings without cooling	35	4.9	11.7	0.9	2.7	6.2	4.0	0.56	0.113
Water-heating energy sources									
Electricity	244	15.2	13.9	4.7	9.8	18.4	23.8	1.48	0.097
Other excluding electricity	318	15.5	14.5	4.7	9.8	19.8	31.1	1.51	0.098
Buildings without water heating	41	5.7	12.5	1.2	3.7	9.0		0.65	0.114
Cooking energy sources									
Electricity	449	18.0	16.6	5.0	12.3	28.0	42.8	1.72	0.095
Other excluding electricity	427	18.4	17.8	5.4	14.8	34.0	41.6	1.80	0.097
Buildings without cooking	149	11.7	11.6	3.5	7.5	14.1	15.0	1.18	0.101
Energy end uses (more than one may apply)									
Buildings with space heating	254	15.0	14.0	4.4	9.2	17.5	24.7	1.46	0.097
Buildings with cooling	272	15.3	14.2	4.9	9.9	18.8	26.6	1.50	0.098
Buildings with water heating	273	15.3	14.2	4.7	9.8	18.9	26.7	1.49	0.098
Buildings with cooking	441	18.2	17.0	5.1	13.2	30.9	42.3	1.74	0.096
Buildings with manufacturing	258	13.2	13.3	3.4	6.3	16.4	25.7	1.31	0.100
Buildings with electricity									
generation	1,195	19.1	15.8	7.2	14.0	24.5	112.4	1.80	0.094
Percent of floorspace heated									
Not heated	87	9.4	18.1	1.1	3.7	11.7	10.0	1.08	0.115
1 to 50	141	9.7	15.3	2.7	5.1	10.4	14.9	1.02	0.106
51 to 99	323	16.0	15.0	4.4	9.2	18.4	32.5	1.61	0.101
100	263	15.7	13.6	5.0	10.0	18.6	25.1	1.50	0.096
Percent of floorspace cooled									
Not cooled	35	4.9	11.7	0.9	2.7	6.2	4.0	0.56	0.113
1 to 50	130	8.1	12.1	3.3	6.1	11.3	13.7	0.85	0.105
51 to 99	425	16.8	15.1	5.8	11.3	20.7	42.1	1.66	0.099
100	285	18.1	14.2	6.0	12.0	22.0	27.2	1.72	0.095
Percent lit when open									
Zero	15	3.1	Q	0.6	2.4	3.7	1.7	0.37	0.116
1 to 50	104	9.0	16.9	2.7	5.7	11.9	10.3	0.90	0.100
51 to 99	315	15.1	14.4	5.0	10.2	18.4	31.0	1.48	0.098
100	270	16.8	13.4	5.1	10.2	20.8	26.3	1.64	0.097
Building never open/electricity									
not used	18	2.3	Q	0.3	1.0	2.3	1.9	0.25	0.108

Table C14. Electricity consumption and expenditure intensities, 2012

Distribution of building-level intensities (kWh/square foot) **Electricity expenditures** per per per per per building square worker 25th 75th building square per (thousand foot (thousand per-(thousand foot kwh percentile kWh) kWh) centile dollars) (kWh) Median (dollars) (dollars) All buildings 237 3.8 8.7 17.2 23.3 0.098 14.6 14.1 1.44 Percent lit during off hours Zero 93 9.4 10.0 2.6 5.9 11.8 10.2 1.02 0.109 1 to 50 321 15.4 14.4 11.1 20.8 31.1 1.50 0.097 5.7 51 to 100 10.8 16.4 73.5 0.090 817 23.8 21.1 42.6 2.14 Building always open with 610 24.2 0.093 no "off hours" 25.5 3.7 19.3 64.5 56.4 2.36 Electricity not used Ν Ν Ν Ν Ν Ν Ν **Heating equipment** (more than one may apply) 0.098 Heat pumps 286 15.2 13.5 5.9 10.3 18.8 28.0 1.48 0.098 **Furnaces** 141 12.3 12.4 4.2 8.8 15.7 13.8 1.20 Individual space heaters 0.098 218 13.1 14.0 3.5 7.3 13.1 21.4 1.29 0.094 District heat 2,152 17.3 12.6 7.7 14.1 20.2 203.0 1.63 645 **Boilers** 13.9 4.0 9.1 16.0 62.8 1.52 0.097 15.6 Packaged heating units 275 15.7 15.1 4.7 10.0 19.6 26.5 1.51 0.096 Other 640 24.4 31.9 5.1 12.4 34.1 56.2 2.14 0.088 **Cooling equipment** (more than one may apply) Residential-type central air 0.103 conditioners 121 12.6 12.3 4.3 8.9 17.0 12.4 1.30 Heat pumps 273 13.2 10.3 19.2 26.6 1.47 0.098 15.1 6.1 Individual air conditioners 226 12.9 13.0 3.8 8.0 14.8 23.2 1.32 0.103 District chilled water 1,585 18.6 14.9 7.8 12.9 16.5 134.9 1.58 0.085 Central chillers 2,016 19.3 15.0 9.0 15.0 23.0 189.3 1.81 0.094 Packaged air conditioning units 381 16.1 15.5 5.6 12.0 22.6 37.2 1.57 0.098 Swamp coolers 262 15.0 16.4 5.2 9.5 30.5 27.1 1.54 0.103 Other 0.094 Q 28.7 19.8 2.7 5.7 14.2 Q 2.70 Main equipment replaced since 1990 (more than one may apply) 20.4 1.39 0.099 Heating 207 14.1 13.5 4.4 9.1 17.5 Cooling 226 14.5 13.3 4.8 9.8 18.7 22.6 1.45 0.100 Water-heating equipment Centralized system 217 15.3 14.5 4.6 9.7 19.0 21.2 1.49 0.097 Distributed system 8.3 15.0 23.9 1.30 0.104 229 12.4 11.1 4.4 Combination of centralized and distributed system 841 17.2 15.4 6.6 13.7 22.6 79.8 1.63 0.095

Table C14. Electricity consumption and expenditure intensities, 2012

				Distribution building-leve	el intensities		Electricity ex	penditures	
	per building (thousand kWh)	per square foot (kWh)	per worker (thousand kWh)	25th per-	Median	75th per- centile	per building (thousand dollars)	per square foot (dollars)	per kwh (dollars)
All buildings	237	14.6	14.1	3.8	8.7	17.2	23.3	1.44	0.098
Lighting equipment types (more than one may apply)									
Incandescent	335	15.9	14.7	4.1	9.4	18.5	31.8	1.51	0.095
Standard fluorescent	258	15.0	14.0	4.5	9.3	18.0	25.2	1.46	0.098
Compact fluorescent	386	16.5	14.8	5.0	10.6	20.5	37.2	1.59	0.096
High-intensity discharge (HID)	727	16.3	16.0	5.3	10.8	20.0	69.0	1.55	0.095
Halogen	529	17.0	15.7	5.5	11.1	20.8	50.8	1.64	0.096
LED	877	18.8	16.0	8.1	14.7	26.0	84.6	1.81	0.096
Other	965	21.4	17.2	18.4	24.6	42.7	88.9	1.97	0.092
Refrigeration equipment (more than one may apply)									
Any refrigeration	289	15.6	14.6	4.7	10.0	19.5	28.1	1.52	0.097
Walk-in units	747	21.4	19.5	14.5	28.5	57.4	70.8	2.03	0.095
Cases or cabinets	636	20.3	18.5	10.3	22.4	43.6	61.1	1.95	0.096
Large cold storage areas	1,253	23.5	26.5	16.4	27.8	52.6	115.9	2.17	0.092
Commercial ice makers	772	19.9	17.9	11.0	20.8	43.2	72.2	1.86	0.093
Residential-type or compact units	269	14.6	13.5	4.4	9.1	16.3	26.2	1.42	0.097
Vending machines	773	16.9	14.9	7.4	13.0	21.5	73.2	1.60	0.095
No refrigeration	75	8.3	10.2	2.0	5.1	11.0	8.1	0.90	0.108
Office equipment (more than one may apply)									
Desktop computers	296	15.3	14.0	5.1	10.0	18.7	28.9	1.49	0.098
With flat screen monitors	303	15.3	13.9	5.2	10.0	18.8	29.6	1.49	0.098
With multiple monitors	574	16.9	12.1	6.1	11.1	19.4	55.3	1.63	0.096
Laptop computers	355	15.2	13.2	5.1	9.7	17.5	34.5	1.48	0.097
Dedicated servers	497	16.3	13.7	6.3	11.5	19.9	48.1	1.57	0.097
Laser printers	366	15.8	13.5	5.5	10.4	19.0	35.5	1.53	0.097
Inkjet printers	239	14.5	13.9	4.8	9.4	18.3	23.9	1.44	0.100
FAX machines	323	15.4	14.0	5.2	10.1	18.7	31.5	1.50	0.097
Photocopiers	420	15.3	13.3	5.3	10.0	17.1	40.8	1.49	0.097
Number of desktop computers	F2	0.4	17.2	1.5	4.2	11.5		0.80	0.100
None	52	8.4	17.3		4.2	11.5	5.5	0.89	0.106
1 to 4	101	13.1	18.1		8.1	18.6		1.33	0.102
5 to 9	163	14.2	13.9		9.8	17.4		1.40	0.098
10 to 19 20 to 49	268 592	13.8 16.0	14.9 16.4		11.1	17.6 21.2	27.4 56.6	1.41	0.102
50 to 99	834	14.4	12.9		11.9	19.3		1.53 1.42	0.098
100 to 249	1,734	16.4	12.8		13.2	19.0		1.51	0.098
250 or more	4,957	19.2	10.9		14.8	23.0		1.85	0.092
230 OI IIIOI C	4,337	15.2	10.9	10.2	14.0	25.0	4/0.1	1.03	0.030

Table C14. Electricity consumption and expenditure intensities, 2012

			I	Distribution building-leve (kWh/square	el intensities		Electricity ex	penditures	
	per building (thousand kWh)	per square foot (kWh)	per worker (thousand kWh)	25th per- centile	Median	75th per- centile	per building (thousand dollars)	per square foot (dollars)	per kwh (dollars)
All buildings	237	14.6	14.1	3.8	8.7	17.2	23.3	1.44	0.098
Number of laptop computers									
None	110	12.9	18.6	2.7	7.1	16.6	11.1	1.30	0.101
1 to 4	140	12.9	15.4	4.6	8.7	16.7	13.9	1.28	0.099
5 to 9	361	15.1	14.2	6.7	10.7	17.5	34.4	1.44	0.095
10 to 19	720	15.6	14.1	8.0	12.5	18.8	71.1	1.54	0.099
20 to 49	1,072	16.0	13.2	7.4	13.1	19.3	102.6	1.53	0.096
50 to 99	1,485	16.3	10.4	8.3	12.5	17.7	146.5	1.61	0.099
100 to 249	2,610	17.3	13.7	7.0	10.8	16.7	239.0	1.58	0.092
250 or more	5,521	19.7	10.0	11.0	16.1	25.0	542.6	1.93	0.098
Number of dedicated servers									
None	107	11.9	15.2	3.0	7.1	15.0	10.9	1.20	0.101
1 to 4	318	14.6	14.5	6.1	11.1	19.2	31.1	1.42	0.098
5 to 9	1,037	16.1	12.8	6.6	13.1	23.3	98.7	1.53	0.095
10 to 19	2,174	19.1	14.5	9.9	17.0	25.3	210.7	1.85	0.097
20 to 49	2,752	18.7	10.5	10.8	17.1	26.8	256.4	1.74	0.093
50 or more	6,996	25.8	13.1	13.5	20.5	34.1	670.6	2.47	0.096
Number of photocopiers									
None	109	13.1	17.1	3.1	7.4	17.2	10.9	1.31	0.100
One	162	12.6	16.1	4.5	8.8	15.0	16.0	1.24	0.099
2 to 4	452	14.4	13.6	7.1	11.4	19.6	44.1	1.41	0.098
5 to 9	1,248	16.3	13.7	7.4	13.0	20.4	116.4	1.52	0.093
10 or more	3,446	19.7	11.1	11.1	14.9	23.3	336.1	1.92	0.098
Number of TVs or video displays									
None	93	10.1	12.6	2.6	6.0	12.8	9.7	1.05	0.104
One	105	12.1	12.0	4.1	9.1	16.7	10.4	1.19	0.099
2 to 4	228	14.3	13.3	5.6	10.7	20.8	23.3	1.46	0.102
5 to 9	477	18.4	14.9	8.5	15.0	28.1	46.0	1.78	0.096
10 to 19	953	18.0	14.2	9.9	16.2	28.5	87.3	1.64	0.092
20 to 49	1,318	17.3	15.6	9.4	15.5	22.6	127.8	1.68	0.097
50 to 99	1,606	17.7	17.6	10.4	14.9	24.5	146.8	1.61	0.091
100 or more	3,977	19.7	16.7	10.4	14.5	20.9	377.5	1.87	0.095
Food preparation or serving areas in non-food service buildings									
(more than one may apply)									
Snack bar or concession stand	1,246	19.3	18.6	9.5	18.8	42.3	118.5	1.83	0.095
Fast food or small restaurant	1,294	22.9	20.5	16.7	24.6	41.5	122.5	2.17	0.095
Cafeteria or large restaurant	2,006	17.1	14.8	7.3	12.0	20.2	189.4	1.62	0.094
Commercial kitchen/	2,000		27.0					1.02	
food preparation area	1,034	18.1	19.0	5.2	10.7	21.3	96.4	1.69	0.093
Small kitchen area	276	14.5	14.9	3.2	6.7	14.9	26.8	1.40	0.097
						·			

Table C14. Electricity consumption and expenditure intensities, 2012

per building sousand kWh) 237 2,471 1,229 851	per square foot (kWh) 14.6 21.5 16.9 14.1	per worker (thousand kWh) 14.1 13.2 13.5 16.2	25th per-centile 3.8 10.5 7.5	l intensities	17.2 26.4	Electricity ex per building (thousand dollars) 23.3	penditures per square foot (dollars) 1.44	per kwh (dollars) 0.098
237 2,471 1,229 851	square foot (kWh) 14.6 21.5 16.9	worker (thousand kWh) 14.1 13.2	25th per- centile 3.8 10.5 7.5	Median 8.7 17.1	per- centile 17.2	per building (thousand dollars)	per square foot (dollars)	kwh (dollars) 0.098
237 2,471 1,229 851	square foot (kWh) 14.6 21.5 16.9	worker (thousand kWh) 14.1 13.2	25th per-centile 3.8 10.5 7.5	8.7 17.1	per- centile 17.2	building (thousand dollars)	square foot (dollars)	kwh (dollars) 0.098
2,471 1,229 851	14.6 21.5 16.9	14.1 13.2 13.5	3.8 10.5 7.5	8.7 17.1	17.2 26.4	23.3	1.44	0.098
2,471 1,229 851	21.5 16.9	13.2 13.5	10.5 7.5	17.1	26.4			
1,229 851	16.9	13.5	7.5			235.2	2.04	
1,229 851	16.9	13.5	7.5			235.2	2.04	
1,229 851	16.9	13.5	7.5			235.2	2.04	
851				13.5	21 E			0.095
	14.1	16.2	6.6		21.5	116.2	1.60	0.095
897				10.7	15.5	78.7	1.31	0.093
897								
	17.5	15.2	6.8	12.9	21.6	85.4	1.67	0.095
349	16.0	14.2	5.4	10.8	20.4	33.8	1.55	0.097
858	18.1	15.8	7.2	12.9	20.9	81.7	1.72	0.095
314	15.6	14.9	4.6	9.6	18.4	30.1	1.49	0.096
390	16.2	14.1	5.2	10.8	20.7	37.4	1.55	0.096
553	19.0	15.8	5.3	11.3	20.8	52.6	1.81	0.095
298	17.1	16.3	5.4	11.4	22.0	28.6	1.65	0.096
570	15.0	15.1	4.4	9.0	16.4	54.9	1.45	0.096
590	17.9	15.5	6.7	12.9	22.8	57.8	1.75	0.098
749	17.0	14.9	6.3	13.2	22.5	72.4	1.64	0.097
780	18.7	16.9	7.5	14.9	25.6	75.5	1.81	0.097
869	17.8	14.2	3.9	10.0	20.0	84.3	1.73	0.097
453	16.8	16.3	4.9	12.3	21.0	47.5	1.77	0.105
1,148	19.8	18.1	10.3	16.3	25.6	110.6	1.91	0.096
2/12	1/1	12 0	12	9.0	16.0	24.0	1 40	0.099
								0.100
239	14.5			9.1		23.5	1.42	0.100
5	1.3	2.4	0.7	1.6	3.0	0.7	0.19	0.142
27	4.8			6.1	9.9	3.2	0.58	0.122
72	8.2			11.9	19.8	8.0	0.91	0.111
224	13.3			17.6	36.7	23.3	1.38	0.104
692	16.4			19.2	40.3	67.3	1.59	0.097
2,012	18.3			19.6	33.1	190.4	1.73	0.095
10,676	25.9			26.8		963.6	2.34	0.090
	349 858 314 390 553 298 570 590 749 780 869 453 1,148 242 257 239 5 27 72 224 692 2,012	349 16.0 858 18.1 314 15.6 390 16.2 553 19.0 298 17.1 570 15.0 590 17.9 749 17.0 780 18.7 869 17.8 453 16.8 1,148 19.8 242 14.1 257 14.4 239 14.5 5 1.3 27 4.8 72 8.2 224 13.3 692 16.4 2,012 18.3	349 16.0 14.2 858 18.1 15.8 314 15.6 14.9 390 16.2 14.1 553 19.0 15.8 298 17.1 16.3 570 15.0 15.1 590 17.9 15.5 749 17.0 14.9 780 18.7 16.9 869 17.8 14.2 453 16.8 16.3 1,148 19.8 18.1 242 14.1 13.0 257 14.4 13.2 239 14.5 13.6 5 1.3 2.4 27 4.8 5.5 72 8.2 8.2 224 13.3 13.2 692 16.4 14.5 2,012 18.3 18.6	349 16.0 14.2 5.4 858 18.1 15.8 7.2 314 15.6 14.9 4.6 390 16.2 14.1 5.2 553 19.0 15.8 5.3 298 17.1 16.3 5.4 570 15.0 15.1 4.4 590 17.9 15.5 6.7 749 17.0 14.9 6.3 780 18.7 16.9 7.5 869 17.8 14.2 3.9 453 16.8 16.3 4.9 1,148 19.8 18.1 10.3 242 14.1 13.0 4.3 257 14.4 13.2 4.7 239 14.5 13.6 4.3 5 1.3 2.4 0.7 27 4.8 5.5 3.6 72 8.2 8.2 7.3 224 13.3	349 16.0 14.2 5.4 10.8 858 18.1 15.8 7.2 12.9 314 15.6 14.9 4.6 9.6 390 16.2 14.1 5.2 10.8 553 19.0 15.8 5.3 11.3 298 17.1 16.3 5.4 11.4 570 15.0 15.1 4.4 9.0 590 17.9 15.5 6.7 12.9 749 17.0 14.9 6.3 13.2 780 18.7 16.9 7.5 14.9 869 17.8 14.2 3.9 10.0 453 16.8 16.3 4.9 12.3 1,148 19.8 18.1 10.3 16.3 242 14.1 13.0 4.3 9.0 257 14.4 13.2 4.7 9.5 239 14.5 13.6 4.3 9.1	349 16.0 14.2 5.4 10.8 20.4 858 18.1 15.8 7.2 12.9 20.9 314 15.6 14.9 4.6 9.6 18.4 390 16.2 14.1 5.2 10.8 20.7 553 19.0 15.8 5.3 11.3 20.8 298 17.1 16.3 5.4 11.4 22.0 570 15.0 15.1 4.4 9.0 16.4 590 17.9 15.5 6.7 12.9 22.8 749 17.0 14.9 6.3 13.2 22.5 780 18.7 16.9 7.5 14.9 25.6 869 17.8 14.2 3.9 10.0 20.0 453 16.8 16.3 4.9 12.3 21.0 1,148 19.8 18.1 10.3 16.3 25.6 242 14.1 13.0 4.3 9.0 16.9 257 14.4 13.2 4.7 9.5 17.8 239 14.5 13.6 4.3 9.1 17.3 5 1.3 2.4 0.7 1.6 3.0 <	349 16.0 14.2 5.4 10.8 20.4 33.8 858 18.1 15.8 7.2 12.9 20.9 81.7 314 15.6 14.9 4.6 9.6 18.4 30.1 390 16.2 14.1 5.2 10.8 20.7 37.4 553 19.0 15.8 5.3 11.3 20.8 52.6 298 17.1 16.3 5.4 11.4 22.0 28.6 570 15.0 15.1 4.4 9.0 16.4 54.9 590 17.9 15.5 6.7 12.9 22.8 57.8 749 17.0 14.9 6.3 13.2 22.5 72.4 780 18.7 16.9 7.5 14.9 25.6 75.5 869 17.8 14.2 3.9 10.0 20.0 84.3 453 16.8 16.3 4.9 12.3 21.0 47.5	349 16.0 14.2 5.4 10.8 20.4 33.8 1.55 858 18.1 15.8 7.2 12.9 20.9 81.7 1.72 314 15.6 14.9 4.6 9.6 18.4 30.1 1.49 390 16.2 14.1 5.2 10.8 20.7 37.4 1.55 553 19.0 15.8 5.3 11.3 20.8 52.6 1.81 298 17.1 16.3 5.4 11.4 22.0 28.6 1.65 570 15.0 15.1 4.4 9.0 16.4 54.9 1.45 590 17.9 15.5 6.7 12.9 22.8 57.8 1.75 749 17.0 14.9 6.3 13.2 22.5 72.5 1.81 869 17.8 14.2 3.9 10.0 20.0 84.3 1.73 453 16.8 16.3 4.9 12.3

Table C14. Electricity consumption and expenditure intensities, 2012

							nsumption	Electricity co
					Distribution building-leve			
	penditures	Electricity ex			(kWh/square	,		
	per	per				per	per	per
per	square	building	75th		25th	worker	square	building
kwh	foot	(thousand	per-		per-	(thousand	foot	(thousand
(dollars)	(dollars)	dollars)	centile	Median	centile	kWh)	(kWh)	kWh)

14.1

3.8

8.7

17.2

23.3

1.44

0.098

237

14.6

All buildings

Notes: • Because of rounding, data may not sum to totals. • See the *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definitions of terms used in these tables and/or comparison of differences with prior CBECS tables. Both references can be accessed from

http://www.eia.gov/consumption/commercial/data/2012/ • Site electricity is the amount of electricity delivered to commercial buildings. Primary electricity, which is not included in the *Total of major fuels* category, is site electricity plus the conversion losses in the generation, transmission, and distribution processes. • Statistics for the *Energy end uses* category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, ventilation, and air conditioning.

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Forms EIA-871A and E of the 2012 Commercial Buildings Energy Consumption Survey.

¹These climate regions were created by the Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE).

²In earlier CBECS publications, BAS was referred to as *Energy Management and Control System (EMCS)*.

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

N = No cases in reporting sample.