

**Table E1. Major fuel consumption (Btu) by end use, 2012**

**Total major fuel consumption (trillion Btu)**

	Total	Space heating	Cooling	Ventilation	Water heating	Lighting	Cooking	Refrigeration	Office equipment	Computing	Other
<b>All buildings</b>	6,963	1,756	656	668	507	724	517	670	172	405	889
<b>Building floorspace (square feet)</b>											
1,001 to 5,000	723	155	50	45	56	59	105	131	21	33	67
5,001 to 10,000	646	157	45	48	42	58	82	93	17	33	71
10,001 to 25,000	876	244	67	79	56	92	60	92	28	50	108
25,001 to 50,000	823	223	79	84	61	97	33	68	21	46	111
50,001 to 100,000	1,067	288	103	108	83	110	42	103	27	60	143
100,001 to 200,000	1,035	243	95	116	77	119	54	92	21	73	145
200,001 to 500,000	1,026	267	125	106	74	109	59	68	19	62	138
Over 500,000	767	178	92	82	57	80	81	23	19	48	106
<b>Principal building activity</b>											
Education	842	299	91	68	68	78	15	40	21	78	84
Food sales	262	31	6	12	3	16	29	147	2	2	14
Food service	514	46	30	31	43	19	199	114	7	4	21
Health care	718	210	79	82	82	61	52	19	17	34	82
Inpatient	549	164	67	46	78	40	47	14	12	21	59
Outpatient	169	46	12	37	4	21	4	4	5	13	23
Lodging	564	67	39	49	136	40	69	33	43	6	84
Mercantile	1,008	181	91	121	66	140	72	191	18	23	103
Retail (other than mall)	364	76	40	47	5	72	8	53	7	11	46
Enclosed and strip malls	644	106	52	75	61	68	64	139	11	12	57
Office	1,241	305	118	214	35	148	Q	28	37	167	153
Public assembly	480	189	86	24	7	35	14	25	7	16	77
Public order and safety	133	36	16	5	21	15	4	3	3	8	22
Religious worship	173	75	15	13	Q	9	11	4	3	3	29
Service	272	118	21	14	22	37	1	5	4	8	42
Warehouse and storage	429	116	35	13	11	85	Q	47	6	16	87
Other	286	69	26	16	2	37	Q	15	2	40	78
Vacant	41	13	2	4	Q	5	Q	1	0	1	13
<b>Year constructed</b>											
Before 1920	238	102	10	19	9	20	19	15	4	10	30
1920 to 1945	418	143	34	35	34	38	23	33	9	23	47
1946 to 1959	537	177	44	48	40	50	35	41	12	25	65
1960 to 1969	902	280	74	73	71	90	44	70	23	56	120
1970 to 1979	1,012	251	87	100	98	98	89	90	25	58	116
1980 to 1989	1,164	219	142	130	78	132	84	115	31	77	156
1990 to 1999	1,102	227	113	108	70	121	101	128	27	65	142
2000 to 2003	579	139	58	61	31	67	33	57	14	40	80
2004 to 2007	528	104	50	47	41	57	Q	66	15	25	67
2008 to 2012	484	114	46	49	35	50	33	54	12	26	66

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<b>All buildings</b>	6,963	1,756	656	668	507	724	517	670	172	405	889
<b>Census region and division</b>											
Northeast	1,459	503	89	134	100	134	91	121	27	81	180
New England	368	159	15	27	15	29	17	34	7	16	48
Middle Atlantic	1,092	344	73	107	85	105	74	87	21	65	131
Midwest	1,566	574	98	141	94	155	82	128	33	79	182
East North Central	1,131	431	67	100	67	109	58	91	22	55	130
West North Central	435	143	30	41	27	46	24	37	11	24	53
South	2,566	405	376	259	183	295	201	278	72	152	345
South Atlantic	1,358	203	199	140	92	154	103	154	42	89	181
East South Central	369	73	39	37	35	40	30	42	11	18	44
West South Central	839	128	138	82	56	101	67	82	19	45	120
West	1,372	275	94	134	129	139	143	143	40	93	182
Mountain	417	108	30	39	35	38	Q	35	13	22	46
Pacific	954	167	64	95	95	101	91	109	27	71	135
<b>Climate region<sup>1</sup></b>											
Very cold/Cold	2,746	1,011	135	246	165	257	170	237	58	138	328
Mixed-humid	2,270	522	228	221	182	243	179	217	61	138	279
Mixed-dry/Hot-dry	804	114	79	76	83	87	83	88	23	60	112
Hot-humid	947	63	207	103	60	117	72	109	25	53	139
Marine	197	46	7	22	17	21	12	18	5	17	31
<b>Number of floors</b>											
One	2,831	621	260	243	170	324	248	434	61	127	342
Two	1,460	383	125	139	103	154	104	132	36	101	184
Three	668	223	59	64	47	63	28	38	18	43	85
Four to nine	1,432	411	145	154	136	127	76	50	38	94	201
Ten or more	572	119	66	68	52	55	Q	16	19	41	77
<b>Elevators and escalators (more than one may apply)</b>											
Any elevators	3,183	853	328	349	261	304	200	136	83	237	431
Number of elevators											
One	884	265	72	95	74	88	46	52	24	58	109
Two to five	1,242	328	125	140	86	122	52	51	32	120	187
Six or more	1,058	259	132	115	101	94	102	33	28	59	135
Any escalators	377	73	45	43	25	42	Q	16	12	17	53
<b>Number of workers (main shift)</b>											
Fewer than 5	756	229	55	45	52	78	41	93	22	24	118
5 to 9	598	142	51	49	40	61	60	79	17	24	74
10 to 19	772	184	57	60	65	71	102	99	22	32	81
20 to 49	1,188	284	106	112	81	126	90	145	30	73	141
50 to 99	1,150	290	118	119	83	128	50	118	27	75	143
100 to 249	1,058	286	101	110	63	116	51	86	21	68	156
250 or more	1,441	341	168	172	123	143	124	50	34	109	177

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<b>All buildings</b>	6,963	1,756	656	668	507	724	517	670	172	405	889
<b>Weekly operating hours</b>											
Fewer than 40	229	95	20	8	10	17	11	15	6	12	35
40 to 48	832	256	87	74	36	99	19	40	27	82	111
49 to 60	1,258	371	127	138	49	150	33	64	33	121	172
61 to 84	1,370	330	128	148	88	143	123	173	25	65	146
85 to 167	1,098	253	89	92	59	106	130	212	13	27	117
Open continuously	2,177	450	204	209	265	209	201	166	67	97	308
<b>Ownership and occupancy</b>											
Nongovernment owned	5,375	1,236	485	530	385	571	448	602	136	293	690
Owner occupied	2,615	646	238	222	206	262	229	267	72	117	356
Leased to tenant(s)	2,041	410	180	230	136	229	180	268	48	122	238
Owner occupied and leased	709	176	67	78	42	79	38	67	16	54	92
Unoccupied	10	4	0	0	Q	Q	Q	Q	Q	Q	4
Government owned	1,588	520	171	139	122	153	69	68	36	112	198
Federal	137	40	13	17	7	15	11	3	2	8	21
State	555	191	36	55	55	50	Q	23	13	34	65
Local	896	289	122	66	60	87	24	43	21	71	112
<b>Party responsible for operation and maintenance of energy systems</b>											
Building owner	5,808	1,517	557	561	415	606	403	476	149	357	768
Business owner or tenant	983	204	80	90	76	101	99	176	18	39	100
Property management	96	17	10	12	11	9	8	8	3	7	12
Other	75	18	8	5	6	7	8	10	2	2	9
<b>Provider of direct input on energy-related equipment purchases</b>											
Building owner	5,984	1,557	571	577	430	625	414	505	153	365	787
Business owner or tenant	766	156	65	70	58	78	81	133	14	32	79
Property management	61	12	6	8	5	7	5	5	2	3	8
Other	153	31	14	14	14	14	17	27	3	5	15
<b>Number of establishments</b>											
One	4,485	1,155	407	387	356	455	369	405	120	248	583
2 to 5	1,400	382	130	143	90	145	81	147	29	71	183
6 to 10	364	85	34	45	21	37	22	47	8	28	38
11 to 20	355	78	36	46	22	38	26	45	7	19	37
More than 20	347	51	48	47	17	48	19	26	7	39	44
Currently unoccupied	13	6	0	0	Q	0	Q	Q	Q	Q	5

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<b>All buildings</b>	6,963	1,756	656	668	507	724	517	670	172	405	889
<b>Predominant exterior wall material</b>											
Brick, stone, or stucco	3,457	917	319	335	284	330	262	292	92	207	419
Concrete (block or poured)	1,720	366	178	163	127	186	130	232	39	81	218
Concrete panels	664	157	57	69	42	77	Q	47	18	50	94
Siding or shingles	400	106	28	35	26	39	40	46	11	19	50
Metal panels	428	137	43	32	13	64	9	31	7	22	70
Window glass	170	46	17	22	Q	17	5	7	3	21	23
Other	79	13	11	7	3	7	Q	Q	1	3	10
No one major type	45	15	3	5	2	5	Q	4	1	2	6
<b>Predominant roof material</b>											
Metal surfacing	865	209	92	65	39	115	56	98	21	45	125
Synthetic or rubber	2,442	667	210	245	164	243	181	228	55	144	305
Built-up	1,862	437	194	199	145	198	131	163	42	118	236
Slate or tile shingles	371	101	26	30	36	30	38	34	12	19	45
Wooden materials (including shingles)	92	26	6	6	9	7	12	12	2	3	9
Asphalt, fiberglass, or other shingles	1,105	276	100	99	97	107	86	113	35	56	136
Concrete	132	16	20	16	10	16	4	11	4	16	20
Other	58	11	6	5	4	5	7	9	1	2	8
No one major type	35	13	3	3	Q	4	Q	Q	1	2	5
<b>Roof characteristics</b>											
<b>Roof tilt</b>											
Flat	4,476	1,103	446	464	348	472	314	382	102	276	569
Shallow pitch	1,597	382	139	136	85	177	131	213	41	87	207
Steeper pitch	890	271	71	69	74	75	72	75	29	42	112
Cool roof	1,837	434	180	183	139	186	143	179	40	113	240

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<b>All buildings</b>	6,963	1,756	656	668	507	724	517	670	172	405	889
<b>Renovations in buildings constructed before 2008 (more than one may apply)</b>											
Any type of renovation	3,762	992	352	368	277	367	291	320	89	229	476
Addition or annex	1,292	365	131	113	109	118	123	84	32	59	159
Reduction in floorspace	226	50	20	23	Q	22	Q	18	4	9	23
Roof replacement	1,986	554	183	194	153	189	147	145	44	118	258
Exterior wall replacement	399	89	41	38	28	37	45	35	8	28	50
Interior wall reconfiguration	2,056	539	201	219	139	199	155	143	48	155	256
Window replacement	1,090	304	98	100	88	97	96	64	30	73	139
HVAC equipment upgrade	2,545	651	252	252	197	245	210	198	59	157	324
Lighting upgrade	2,440	662	221	235	183	227	195	208	56	147	307
Electrical upgrade	1,608	421	150	149	122	144	149	121	37	100	214
Plumbing system upgrade	1,397	365	120	129	119	116	143	99	35	86	184
Insulation upgrade	771	196	68	66	52	63	90	69	19	52	97
Fire, safety, or security upgrade	1,685	445	167	164	140	150	126	118	38	113	223
Structural upgrade	424	83	42	35	30	35	68	30	11	29	60
Other	69	19	9	9	3	8	1	3	2	6	9
No renovations	2,718	650	258	251	195	307	193	295	71	150	347
Buildings constructed 2008 or later	484	114	46	49	35	50	33	54	12	26	66
<b>Energy sources (more than one may apply)</b>											
Electricity	6,963	1,756	656	668	507	724	517	670	172	405	889
Natural gas	5,544	1,520	472	498	476	514	483	523	127	283	648
Fuel oil	2,231	587	243	226	161	222	151	116	51	157	316
District heat	808	256	39	83	82	68	90	23	19	40	109
District chilled water	665	207	18	68	68	58	79	18	16	40	94
Propane	583	122	49	47	35	64	Q	78	17	23	95
Other	301	85	27	31	15	30	15	26	5	16	52
<b>Space-heating energy sources (more than one may apply)</b>											
Electricity	3,898	779	430	408	271	432	286	435	106	246	505
Natural gas	4,446	1,396	361	393	337	414	312	419	95	226	495
Fuel oil	360	146	29	28	18	34	12	19	7	17	50
District heat	804	256	38	83	81	67	89	22	19	40	108
Propane	151	27	12	14	5	19	10	26	5	7	28
Other	48	13	2	5	2	7	Q	5	1	2	8
<b>Primary space-heating energy source</b>											
Electricity	1,846	106	258	216	139	237	166	236	64	149	276
Natural gas	3,871	1,297	309	339	268	360	242	361	78	197	421
Fuel oil	187	92	10	12	4	17	5	9	4	8	28
District heat	794	253	37	82	80	67	89	22	18	39	106
Propane	63	4	5	6	0	9	Q	17	2	3	13
Other	21	5	1	2	Q	4	Q	2	Q	1	5

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<b>All buildings</b>	6,963	1,756	656	668	507	724	517	670	172	405	889
<b>Cooling energy sources (more than one may apply)</b>											
Electricity	6,322	1,533	649	619	450	659	451	637	157	373	794
Natural gas	97	37	15	9	9	7	3	2	2	4	11
District chilled water	665	207	18	68	68	58	79	18	16	40	94
<b>Water-heating energy sources (more than one may apply)</b>											
Electricity	3,102	649	347	339	95	380	207	378	74	222	412
Natural gas	4,029	1,093	341	348	432	350	347	407	93	184	434
Fuel oil	174	75	12	12	6	14	8	10	4	7	25
District heat	652	188	33	67	74	56	81	17	16	31	90
Propane	87	6	10	8	0	9	6	24	3	3	15
<b>Cooking energy sources (more than one may apply)</b>											
Electricity	2,511	574	253	231	200	219	280	312	56	121	265
Natural gas	3,015	635	274	258	296	232	466	398	65	100	290
Propane	167	34	16	14	8	14	10	33	5	Q	23
<b>Energy end uses (more than one may apply)</b>											
Buildings with space heating	6,782	1,756	619	657	492	693	506	647	168	397	848
Buildings with cooling	6,774	1,679	656	665	493	699	511	650	169	401	850
Buildings with water heating	6,798	1,707	641	658	507	696	516	664	168	396	844
Buildings with cooking	4,079	897	390	364	357	340	517	528	94	171	422
Buildings with manufacturing	360	89	34	28	14	49	14	32	5	15	80
Buildings with electricity generation	2,803	688	292	287	206	274	183	211	65	195	402
<b>Percent of floorspace heated</b>											
Not heated	181	N	36	11	15	31	11	23	4	8	41
1 to 50	468	71	38	38	25	63	40	63	11	39	81
51 to 99	1,298	304	129	129	91	131	114	158	29	60	153
100	5,016	1,381	453	491	376	499	351	426	127	298	614
<b>Percent of floorspace cooled</b>											
Not cooled	189	78	N	3	13	24	5	20	3	4	39
1 to 50	989	363	42	65	57	122	49	82	19	40	149
51 to 99	2,143	553	192	214	154	206	156	231	49	138	250
100	3,642	763	421	385	283	370	306	336	102	224	451
<b>Percent lit when open</b>											
Zero	4	Q	Q	Q	Q	Q	Q	Q	Q	Q	3
1 to 50	642	182	54	61	47	50	34	49	23	27	116
51 to 99	3,049	828	274	295	230	284	204	307	72	175	379
100	3,244	733	326	311	229	387	278	314	77	203	385
Building never open/electricity not used	24	13	1	0	Q	Q	Q	Q	Q	Q	7

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<b>All buildings</b>	6,963	1,756	656	668	507	724	517	670	172	405	889
<b>Percent lit during off hours</b>											
Zero	1,293	394	117	116	59	126	71	102	32	94	182
1 to 50	4,346	1,105	427	432	312	463	294	418	106	251	539
51 to 100	1,018	208	80	88	108	98	134	105	23	47	125
Building always open with no "off hours"	306	49	31	32	28	36	18	44	11	13	43
Electricity not used	N	N	N	N	N	N	N	N	N	N	N
<b>Heating equipment (more than one may apply)</b>											
Heat pumps	899	143	117	86	84	97	70	87	34	62	119
Furnaces	615	179	47	53	37	58	55	68	18	32	69
Individual space heaters	1,572	471	129	148	114	166	81	132	42	84	205
District heat	804	256	38	83	81	67	89	22	19	40	108
Boilers	2,262	741	217	211	198	197	106	123	52	137	281
Packaged heating units	4,083	925	411	419	260	431	345	493	91	222	486
Other	191	33	9	18	12	15	21	62	2	3	16
<b>Cooling equipment (more than one may apply)</b>											
Residential-type central air conditioners	1,086	281	93	75	81	108	98	144	29	47	131
Heat pumps	939	154	115	93	85	104	66	96	34	66	125
Individual air conditioners	1,013	298	97	81	106	89	64	70	34	47	126
District chilled water	665	207	18	68	68	58	79	18	16	40	94
Central chillers	1,853	481	234	210	143	179	85	80	43	147	250
Packaged air conditioning units	3,972	957	403	415	265	404	320	452	85	202	468
Swamp coolers	176	45	14	14	16	16	21	23	3	6	17
Other	45	9	4	5	2	5	Q	1	0	Q	7
<b>Main equipment replaced since 1990 (more than one may apply)</b>											
Heating	2,164	551	199	202	170	215	159	222	58	135	254
Cooling	2,521	650	252	235	204	243	182	233	68	158	296
<b>Water-heating equipment</b>											
Centralized system	4,210	1,109	377	391	335	415	347	387	111	230	508
Distributed system	832	192	82	83	43	105	46	75	19	55	132
Combination of centralized and distributed system	1,756	406	182	185	129	176	124	202	38	111	204
<b>Lighting equipment types (more than one may apply)</b>											
Incandescent	3,540	878	353	336	287	340	321	344	86	184	409
Standard fluorescent	6,714	1,698	632	650	491	693	492	649	166	394	850
Compact fluorescent	5,094	1,265	497	507	407	493	426	451	129	305	615
High-intensity discharge (HID)	2,187	557	227	215	159	229	173	190	49	112	275
Halogen	2,695	636	275	271	206	266	240	272	64	138	325
LED	2,363	561	242	248	174	220	206	251	52	117	293
Other	59	16	9	5	4	4	4	6	1	2	6

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<b>All buildings</b>	6,963	1,756	656	668	507	724	517	670	172	405	889
<b>Refrigeration equipment (more than one may apply)</b>											
Any refrigeration	6,471	1,600	610	623	486	647	517	670	159	365	795
Walk-in units	3,525	733	329	309	307	283	451	547	73	130	361
Cases or cabinets	3,316	697	291	307	273	282	400	523	70	126	347
Large cold storage areas	530	102	40	37	32	42	61	145	7	13	53
Commercial ice makers	3,731	789	370	357	335	326	416	457	91	172	419
Residential-type or compact units	5,183	1,383	499	513	388	537	332	413	131	324	663
Vending machines	4,178	1,034	418	430	337	439	273	379	102	243	525
No refrigeration	492	156	45	46	21	77	Q	N	13	40	94
<b>Office equipment (more than one may apply)</b>											
Desktop computers	6,586	1,657	629	647	483	687	473	620	163	399	829
With flat screen monitors	6,523	1,644	624	641	478	678	466	614	162	398	818
With multiple monitors	2,942	745	296	321	195	298	216	212	69	233	359
Laptop computers	5,466	1,411	545	556	403	570	354	427	136	363	701
Dedicated servers	4,784	1,169	476	496	340	498	328	425	115	341	597
Laser printers	4,795	1,239	451	488	346	495	316	428	126	316	590
Inkjet printers	2,903	707	298	273	200	306	228	280	66	161	384
FAX machines	5,706	1,425	554	574	404	612	399	541	140	345	710
Photocopiers	5,110	1,342	509	528	357	540	305	387	132	344	666
<b>Number of desktop computers</b>											
None	377	99	27	22	24	36	44	50	9	Q	59
1 to 4	1,184	270	82	82	104	106	162	189	30	22	136
5 to 9	738	192	60	62	44	77	55	106	20	27	96
10 to 19	676	173	58	69	41	79	31	79	17	41	87
20 to 49	1,121	269	118	118	86	131	52	117	29	55	146
50 to 99	645	165	69	73	44	77	36	45	16	41	80
100 to 249	961	249	82	99	76	101	Q	48	25	81	132
250 or more	1,261	339	160	144	89	116	67	35	27	132	152
<b>Number of laptop computers</b>											
None	1,497	345	111	112	103	154	162	243	36	43	187
1 to 4	1,516	394	137	125	101	165	120	181	40	60	194
5 to 9	698	157	65	73	59	81	58	70	16	32	85
10 to 19	719	169	82	79	66	75	42	63	16	38	88
20 to 49	907	244	73	96	68	91	70	56	25	74	111
50 to 99	506	149	55	53	31	51	14	22	11	37	84
100 to 249	525	152	51	58	38	50	21	17	12	61	66
250 or more	596	147	83	72	40	57	29	18	15	60	74



**Table E1. Major fuel consumption (Btu) by end use, 2012**

**Total major fuel consumption (trillion Btu)**

	Total	Space heating	Cooling	Ventilation	Water heating	Lighting	Cooking	Refrigeration	Office equipment	Computing	Other
<b>All buildings</b>	6,963	1,756	656	668	507	724	517	670	172	405	889
<b>Number of dedicated servers</b>											
None	2,179	588	180	172	167	225	189	245	57	64	292
1 to 4	2,718	657	246	266	206	295	191	309	68	136	345
5 to 9	565	138	54	60	40	59	47	55	12	35	67
10 to 19	593	140	66	74	29	63	Q	34	16	51	77
20 to 49	396	113	51	45	26	39	16	13	9	36	48
50 or more	512	122	59	51	38	42	32	14	10	83	60
<b>Number of photocopiers</b>											
None	1,854	414	147	141	150	184	212	282	40	62	223
One	1,202	325	103	102	88	127	80	143	31	49	154
2 to 4	1,596	428	156	167	102	178	67	137	45	104	211
5 to 9	784	187	76	84	50	92	56	58	17	66	97
10 or more	1,527	401	174	174	117	143	101	49	39	124	204
<b>Number of TVs or video displays</b>											
None	1,214	348	89	97	53	145	72	140	14	73	184
One	697	207	54	59	40	74	52	84	13	32	83
2 to 4	1,311	352	123	125	64	146	85	136	27	67	186
5 to 9	777	178	79	80	45	78	64	91	17	58	87
10 to 19	810	185	81	91	57	84	76	76	16	54	89
20 to 49	717	153	81	86	50	80	43	73	21	46	84
50 to 99	432	105	39	43	44	43	18	29	19	38	52
100 or more	1,006	227	109	87	156	73	107	41	46	37	123
<b>Food preparation or serving areas in non-food service buildings (more than one may apply)</b>											
Snack bar or concession stand	1,112	266	124	99	79	93	121	131	25	51	123
Fast food or small restaurant	1,206	217	120	122	92	113	141	202	29	43	127
Cafeteria or large restaurant	1,624	400	185	156	163	138	167	105	41	87	181
Commercial kitchen/food preparation area	1,798	421	184	157	196	142	190	200	47	64	197
Small kitchen area	1,187	314	129	106	90	103	104	108	33	54	147
<b>Separate computer areas (more than one may apply)</b>											
Data center or server farm	1,356	345	171	141	89	124	93	46	31	151	163
Computer-based training room	1,696	426	196	177	118	174	124	123	39	123	197
Student or public computer center	1,275	374	130	114	121	111	90	79	36	78	141
<b>HVAC conservation features (more than one may apply)</b>											
Economizer cycle	3,142	824	295	343	221	312	236	237	66	200	409
Regular HVAC maintenance	6,203	1,538	604	620	455	640	463	576	151	377	780
Building automation system (BAS) <sup>2</sup>	3,709	896	389	403	262	379	243	311	81	253	492

**Table E1. Major fuel consumption (Btu) by end use, 2012**

**Total major fuel consumption (trillion Btu)**

	Total	Space heating	Cooling	Ventilation	Water heating	Lighting	Cooking	Refrigeration	Office equipment	Computing	Other
<b>All buildings</b>	6,963	1,756	656	668	507	724	517	670	172	405	889
<b>Window and interior lighting features (more than one may apply)</b>											
Multipaned windows	5,250	1,346	476	516	382	524	405	515	131	307	647
Tinted window glass	3,973	937	411	408	290	416	305	364	95	240	506
Reflective window glass	1,652	368	174	174	121	163	147	154	41	118	192
External overhangs or awnings	3,089	702	283	296	233	295	317	381	74	158	351
Skylights or atriums	2,010	534	187	205	147	197	178	142	45	105	271
Light scheduling	2,930	668	299	318	194	284	235	327	67	183	354
Occupancy sensors	3,434	880	344	362	225	331	224	310	77	224	457
Multi-level lighting or dimming	1,618	360	156	161	141	132	186	182	39	72	189
Daylight harvesting	619	160	61	68	31	61	44	64	12	29	90
Demand responsive lighting	410	77	42	45	32	44	33	65	9	16	46
Building automation system (BAS) for lighting <sup>2</sup>	1,201	246	131	144	65	130	80	165	21	71	148
<b>Equipment usage reduced when building not in full use (more than one may apply)</b>											
Heating	5,022	1,324	485	502	328	509	364	480	118	296	615
Cooling	5,008	1,268	516	508	336	511	367	476	119	297	610
Lighting	6,426	1,658	606	620	460	664	478	595	156	376	811

(\*) May 2019 revision: there was a miscalculation in the *Other* column. For *all buildings*, *Other* changed from 857 to 889 trillion Btu.

<sup>1</sup>These 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).

<sup>2</sup>In 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.

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

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, C, D, E, and F of the 2012 Commercial Buildings Energy Consumption Survey.