

Table E8. Natural gas consumption and conditional energy intensities (cubic feet) by end use, 2012

	Total natural gas consumption (billion cubic feet)					Natural gas energy intensity ¹ (cubic feet/square foot in buildings using natural gas for the end use)				
	Total	Space heating	Water heating	Cooking	Other	Total	Space heating	Water heating	Cooking	Other
All buildings	2,193	1,307	414	384	89	37.3	26.4	10.5	15.5	9.8
Building floorspace (square feet)										
1,001 to 5,000	249	119	52	76	Q	66.4	36.0	24.9	92.4	Q
5,001 to 10,000	242	135	38	64	4	50.2	31.0	13.7	51.3	16.5
10,001 to 25,000	297	198	50	46	3	33.6	24.7	8.9	21.4	5.5
25,001 to 50,000	277	187	54	28	8	34.0	25.9	9.5	12.2	9.3
50,001 to 100,000	330	210	70	31	19	33.2	24.7	9.3	6.9	11.7
100,001 to 200,000	283	160	60	38	26	30.1	21.3	8.8	8.1	10.2
200,001 to 500,000	302	189	53	46	14	36.4	27.0	8.9	9.0	6.9
Over 500,000	214	109	36	Q	12	38.6	30.3	12.2	Q	11.0
Principal building activity										
Education	284	207	53	10	14	29.8	26.0	6.8	1.8	5.5
Food sales	52	28	3	19	Q	61.3	42.2	4.3	32.0	Q
Food service	222	34	39	148	Q	159.2	33.2	38.2	117.6	Q
Health care	258	155	60	32	11	78.5	59.4	23.2	15.9	18.3
Inpatient	214	118	56	30	10	101.1	72.4	33.4	16.2	24.4
Outpatient	45	38	3	Q	Q	38.0	38.1	3.8	Q	Q
Lodging	215	45	110	Q	6	43.8	14.1	25.8	Q	6.4
Mercantile	284	156	57	64	7	33.5	20.9	10.3	13.2	5.9
Retail (other than mall)	72	61	4	6	Q	21.5	20.0	2.4	5.8	Q
Enclosed and strip malls	212	95	53	59	6	41.3	21.6	13.7	15.0	6.8
Office	275	214	28	Q	12	26.8	25.1	4.7	Q	9.2
Public assembly	132	115	6	9	2	33.9	34.4	2.0	6.2	4.6
Public order and safety	40	21	16	2	Q	39.5	25.2	20.9	3.4	Q
Religious worship	85	65	Q	10	Q	28.1	24.4	Q	5.4	Q
Service	119	96	21	Q	Q	42.7	34.7	14.7	Q	Q
Warehouse and storage	136	106	10	Q	6	19.4	16.3	2.8	Q	6.9
Other	79	53	2	Q	Q	57.2	43.7	2.3	Q	Q
Vacant	12	11	Q	Q	Q	13.9	14.6	1.3	Q	Q
Year constructed										
Before 1920	85	63	6	12	Q	36.8	32.0	4.9	18.6	Q
1920 to 1945	141	95	27	17	3	37.3	29.7	11.4	11.0	9.1
1946 to 1959	195	132	31	26	5	36.1	26.9	8.5	11.5	7.5
1960 to 1969	307	198	58	30	Q	40.6	30.2	10.3	9.0	Q
1970 to 1979	332	184	79	59	10	41.6	28.1	14.1	17.9	9.3
1980 to 1989	327	179	68	66	Q	33.0	22.3	10.9	15.8	Q
1990 to 1999	330	184	59	78	9	36.0	24.1	9.7	17.8	9.1
2000 to 2003	154	98	23	24	9	32.6	26.0	7.4	13.5	7.1
2004 to 2007	167	82	31	Q	6	40.9	23.6	11.0	Q	8.0
2008 to 2012	156	93	30	24	9	40.7	26.7	11.3	16.7	8.1

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	Total natural gas consumption (billion cubic feet)					Natural gas energy intensity ¹ (cubic feet/square foot in buildings using natural gas for the end use)				
	Total	Space heating	Water heating	Cooking	Other	Total	Space heating	Water heating	Cooking	Other
All buildings	2,193	1,307	414	384	89	37.3	26.4	10.5	15.5	9.8
Census region and division										
Northeast	487	322	78	62	26	44.0	34.4	10.3	11.6	10.1
New England	108	79	10	11	8	48.1	39.7	6.6	11.3	12.0
Middle Atlantic	379	243	68	51	18	43.0	33.0	11.3	11.6	9.5
Midwest	627	487	75	53	11	41.7	34.7	7.1	9.4	4.8
East North Central	482	376	57	40	9	44.6	37.2	7.2	9.2	4.6
West North Central	145	111	19	14	2	34.3	28.3	6.9	10.2	5.6
South	600	274	151	149	26	30.2	17.8	12.3	17.4	8.9
South Atlantic	298	133	77	76	11	29.8	18.2	13.6	17.2	6.0
East South Central	101	51	27	22	2	29.4	19.0	12.7	14.6	4.9
West South Central	202	91	47	51	Q	31.1	16.6	10.5	19.2	Q
West	479	224	109	120	26	37.6	20.9	12.0	23.1	20.4
Mountain	159	86	25	Q	4	42.3	27.2	9.3	Q	7.5
Pacific	320	137	85	75	Q	35.7	18.3	13.1	21.5	Q
Climate region²										
Very cold/Cold	1,070	783	129	127	32	43.7	34.9	7.6	13.1	7.0
Mixed-humid	641	350	145	123	22	33.1	22.2	12.2	14.6	7.2
Mixed-dry/Hot-dry	249	87	76	69	Q	33.1	13.9	12.8	22.6	Q
Hot-humid	167	47	51	55	Q	31.4	14.3	14.7	19.3	Q
Marine	67	39	13	10	Q	32.7	22.9	10.2	14.1	Q
Number of floors										
One	896	528	153	189	27	36.6	24.0	9.8	22.2	9.7
Two	499	307	94	81	17	34.0	24.4	9.3	13.6	6.9
Three	219	153	40	19	7	36.0	28.7	8.6	7.9	7.4
Four to nine	432	255	99	48	30	44.3	34.2	13.7	9.2	13.3
Ten or more	147	65	28	Q	8	39.7	29.9	13.4	Q	12.4
Number of workers (main shift)										
Fewer than 5	258	179	46	29	4	32.8	25.1	9.8	16.3	Q
5 to 9	197	116	36	42	3	36.8	24.9	10.9	38.6	8.0
10 to 19	291	153	56	79	2	42.8	25.9	12.4	52.8	6.0
20 to 49	369	219	68	69	12	34.8	23.7	9.1	15.4	8.5
50 to 99	352	222	74	40	16	34.1	24.8	9.5	7.8	7.6
100 to 249	329	201	52	42	34	37.0	26.8	8.2	8.6	14.0
250 or more	398	216	81	83	18	44.7	35.5	15.2	14.0	9.5
Weekly operating hours										
Fewer than 40	95	77	9	8	Q	25.6	23.0	3.5	6.2	Q
40 to 48	252	199	32	15	7	25.3	22.2	5.0	5.3	6.0
49 to 60	360	285	36	25	14	25.7	23.4	4.3	6.6	6.7
61 to 84	458	265	76	106	11	39.9	26.7	9.7	18.2	6.6
85 to 167	340	183	51	93	13	50.5	30.7	10.2	29.4	8.5
Open continuously	688	297	211	137	44	53.6	32.6	22.3	17.5	17.5

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	Total	Space heating	Water heating	Cooking	Other	Total	Space heating	Water heating	Cooking	Other
All buildings	2,193	1,307	414	384	89	37.3	26.4	10.5	15.5	9.8
Ownership and occupancy										
Nongovernment owned	1,704	966	320	348	70	38.3	25.8	11.4	19.8	11.7
Owner occupied	868	477	169	176	46	42.3	28.4	12.8	21.8	15.0
Leased to tenant(s)	618	342	117	144	15	35.6	22.6	11.1	22.4	8.0
Owner occupied and leased	213	143	33	28	9	34.1	27.1	8.1	9.2	9.0
Unoccupied	4	4	Q	Q	N	12.5	11.9	Q	Q	N
Government owned	489	340	94	36	18	34.3	28.3	8.2	5.1	6.0
Federal	29	21	4	3	Q	34.0	31.2	6.7	11.4	Q
State	165	101	39	Q	8	42.0	32.8	12.7	Q	9.7
Local	294	219	50	15	9	31.2	26.4	6.6	2.9	4.4
Party responsible for operation and maintenance of energy systems										
Building owner	1,807	1,103	331	295	78	36.8	27.0	9.9	14.2	10.2
Business owner or tenant	334	176	69	79	10	40.6	23.2	13.4	24.1	7.8
Property management	26	12	9	4	Q	33.3	20.7	16.3	10.3	Q
Other	26	15	5	5	Q	43.0	32.6	14.6	18.0	Q
Provider of direct input on energy-related equipment purchases										
Building owner	1,868	1,137	346	305	80	36.7	26.7	10.0	14.2	10.0
Business owner or tenant	258	134	52	64	8	42.8	24.5	14.1	26.7	8.6
Property management	17	9	4	3	Q	32.3	22.3	10.4	9.7	Q
Other	51	26	12	12	Q	40.9	23.9	14.4	22.7	Q
Number of establishments										
One	1,490	856	299	272	63	40.1	27.2	11.4	18.7	10.4
2 to 5	418	279	66	56	17	33.6	26.1	8.8	11.7	9.8
6 to 10	105	69	17	17	2	33.8	26.2	9.2	12.4	7.0
11 to 20	110	65	19	23	3	39.7	26.2	9.2	12.7	6.5
More than 20	65	32	13	17	4	22.8	17.3	7.9	7.4	7.4
Currently unoccupied	6	5	Q	Q	N	14.1	15.4	Q	Q	N
Predominant exterior wall material										
Brick, stone, or stucco	1,131	669	232	188	42	39.0	27.6	11.4	13.8	8.5
Concrete (block or poured)	522	287	112	96	27	35.9	23.8	11.6	14.0	11.3
Concrete panels	203	127	25	Q	6	34.2	25.3	6.6	Q	6.6
Siding or shingles	131	75	24	29	Q	45.3	28.0	11.6	34.6	Q
Metal panels	123	101	9	7	Q	28.0	24.9	3.8	10.1	15.5
Window glass	47	30	Q	4	Q	44.4	42.3	Q	8.0	Q
Other	Q	7	2	Q	Q	46.0	16.6	6.1	Q	Q
No one major type	14	11	Q	Q	Q	30.6	31.2	Q	Q	Q

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All buildings	2,193	1,307	414	384	89	37.3	26.4	10.5	15.5	9.8
Predominant roof material										
Metal surfacing	235	151	35	40	9	30.1	21.4	7.5	20.4	8.8
Synthetic or rubber	830	523	127	143	37	41.9	30.6	9.5	16.0	10.1
Built-up	568	327	122	87	32	35.5	24.6	10.7	11.2	12.4
Slate or tile shingles	111	49	29	31	Q	39.7	25.4	14.6	25.2	Q
Wooden materials (including shingles)	40	21	8	10	Q	65.7	42.6	21.1	52.0	Q
Asphalt, fiberglass, or other shingles	359	208	81	64	6	36.3	25.3	12.2	16.1	5.5
Concrete	23	11	8	2	Q	27.5	17.8	15.5	7.2	Q
Other	18	8	Q	Q	Q	32.8	17.8	Q	Q	Q
No one major type	9	Q	Q	Q	Q	23.5	Q	Q	Q	Q
Roof characteristics										
Roof tilt										
Flat	1,420	839	285	230	66	39.6	28.0	11.3	14.1	11.3
Shallow pitch	470	284	66	102	17	32.4	22.7	7.5	21.4	7.5
Steeper pitch	304	184	62	52	6	36.2	26.1	11.2	14.0	6.0
Cool roof	588	324	116	105	42	40.9	27.9	12.0	14.1	15.4
Renovations in buildings constructed before 2008 (more than one may apply)										
Any type of renovation	1,200	714	217	213	56	38.8	27.9	10.6	14.4	12.2
Addition or annex	457	270	75	97	15	45.2	32.3	10.3	16.2	8.5
Reduction in floorspace	68	28	Q	Q	Q	49.0	31.3	24.1	23.4	Q
Roof replacement	664	403	122	100	40	41.1	30.4	11.0	11.9	16.2
Exterior wall replacement	126	63	24	34	6	37.2	22.9	10.3	18.0	11.6
Interior wall reconfiguration	629	381	101	118	29	39.1	28.8	10.0	15.9	10.5
Window replacement	378	219	65	72	21	40.7	29.0	10.3	16.1	13.0
HVAC equipment upgrade	822	475	149	154	43	40.2	28.1	10.7	14.7	13.4
Lighting upgrade	790	465	137	142	46	40.9	29.1	10.5	14.6	14.5
Electrical upgrade	537	299	85	114	38	43.4	29.9	10.2	17.5	17.8
Plumbing system upgrade	502	266	90	109	37	47.6	30.7	12.1	19.4	21.4
Insulation upgrade	262	139	33	73	18	44.5	29.3	8.5	23.3	19.9
Fire, safety, or security upgrade	555	318	110	87	40	41.9	29.6	11.6	11.9	16.6
Structural upgrade	148	56	20	Q	Q	52.1	25.8	11.1	35.8	Q
Other	13	9	Q	1	Q	23.9	21.5	9.4	3.2	Q
No renovations	838	500	167	148	23	35.0	24.4	10.2	17.1	7.1
Buildings constructed 2008 or later	156	93	30	24	9	40.7	26.7	11.3	16.7	8.1

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	Total	Space heating	Water heating	Cooking	Other	Total	Space heating	Water heating	Cooking	Other
All buildings	2,193	1,307	414	384	89	37.3	26.4	10.5	15.5	9.8
Energy sources (more than one may apply)										
Electricity	2,193	1,307	414	384	89	37.3	26.4	10.5	15.5	9.8
Natural gas	2,193	1,307	414	384	89	37.3	26.4	10.5	15.5	9.8
Fuel oil	608	355	119	110	25	44.5	34.7	12.5	13.3	15.1
District heat	106	13	Q	Q	Q	36.9	36.0	Q	Q	Q
District chilled water	130	33	Q	Q	Q	53.5	46.2	25.4	Q	Q
Propane	143	68	25	Q	Q	42.0	25.0	12.1	Q	Q
Other	106	66	13	9	Q	40.1	27.9	7.4	7.3	Q
Space-heating energy sources										
Natural gas	1,923	1,307	316	248	52	38.8	26.4	9.1	12.9	7.4
Natural gas main	1,726	1,240	254	190	42	40.2	28.9	8.3	11.4	6.9
Natural gas secondary	197	66	63	59	9	30.2	10.2	15.3	22.5	10.8
Other excluding natural gas	246	N	83	128	35	28.5	N	19.1	24.5	17.6
Buildings without heating	25	N	14	8	Q	41.1	N	32.2	23.9	Q
Primary space-heating energy source										
Electricity	327	51	122	130	24	28.3	8.7	16.9	22.1	13.9
Natural gas	1,726	1,240	254	190	42	40.2	28.9	8.3	11.4	6.9
Fuel oil	8	Q	Q	3	Q	19.0	Q	Q	11.9	Q
District heat	103	Q	Q	Q	Q	37.1	Q	Q	Q	Q
Propane	Q	Q	Q	N	Q	Q	Q	Q	N	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling energy sources										
Natural gas	57	35	8	3	11	77.9	49.3	12.4	8.6	15.1
Other excluding natural gas	2,068	1,221	394	378	75	36.8	25.9	10.4	15.7	9.1
Buildings without cooling	68	50	12	4	Q	37.3	30.0	11.2	10.8	Q
Water-heating energy sources										
Natural gas	1,728	989	414	273	52	43.7	28.5	10.5	14.4	8.5
Other excluding natural gas	428	283	N	111	34	24.5	21.6	N	19.3	12.2
Buildings without water heating	37	35	N	Q	Q	22.0	20.8	N	Q	Q
Cooking energy sources										
Natural gas	1,208	528	259	384	36	48.7	27.5	13.6	15.5	7.8
Other excluding natural gas	200	151	45	N	4	32.0	27.8	10.6	N	4.7
Buildings without cooking	786	627	110	N	48	28.4	25.2	6.8	N	13.8

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All buildings	2,193	1,307	414	384	89	37.3	26.4	10.5	15.5	9.8
Energy end uses (more than one may apply)										
Buildings with space heating	2,169	1,307	400	376	86	37.3	26.4	10.2	15.4	9.6
Buildings with cooling	2,125	1,256	402	381	86	37.4	26.3	10.4	15.6	9.6
Buildings with water heating	2,156	1,271	414	384	87	37.8	26.6	10.5	15.5	9.7
Buildings with cooking	1,408	679	304	384	40	45.4	27.6	13.1	15.5	7.3
Buildings with manufacturing	120	77	12	11	20	32.2	22.7	6.4	14.2	20.8
Buildings with electricity generation	834	480	156	134	65	41.1	30.3	10.9	11.3	8.1
Percent of floorspace heated										
Not heated	25	N	14	8	Q	41.1	N	32.2	23.9	Q
1 to 50	120	59	23	35	3	21.0	11.9	6.7	30.5	11.5
51 to 99	432	249	74	92	16	38.8	26.8	10.2	15.7	10.1
100	1,617	999	302	248	67	39.2	28.3	10.6	14.3	9.4
Percent of floorspace cooled										
Not cooled	68	50	12	4	Q	37.3	30.0	11.2	10.8	Q
1 to 50	408	308	50	40	11	31.3	25.7	6.3	13.4	7.3
51 to 99	651	391	122	114	23	38.0	27.1	10.3	12.6	8.7
100	1,066	557	230	227	52	39.8	26.0	12.3	18.3	10.9
Heating equipment (more than one may apply)										
Heat pumps	241	106	69	55	11	31.9	17.9	13.6	13.9	9.3
Furnaces	238	158	34	43	4	33.8	23.0	7.1	18.9	6.2
Individual space heaters	532	364	97	53	17	33.6	26.2	9.5	8.8	6.9
District heat	105	13	Q	Q	Q	37.2	36.8	Q	Q	Q
Boilers	960	650	189	83	39	48.0	34.4	11.2	7.3	8.8
Packaged heating units	1,327	785	233	268	41	35.3	23.8	9.3	16.8	8.2
Other	53	25	11	14	3	44.1	22.6	9.7	14.9	7.7
Cooling equipment (more than one may apply)										
Residential-type central air conditioners	406	234	73	82	Q	38.7	24.7	10.1	25.0	Q
Heat pumps	250	115	71	52	12	31.2	17.6	13.3	12.2	9.6
Individual air conditioners	365	217	90	43	15	40.0	29.2	14.1	8.9	10.0
District chilled water	130	33	Q	Q	Q	53.5	46.2	25.4	Q	Q
Central chillers	584	381	115	58	29	42.5	34.1	10.5	6.8	8.5
Packaged air conditioning units	1,286	774	224	242	45	36.8	25.6	9.6	14.9	8.4
Swamp coolers	69	36	15	16	Q	45.1	25.8	11.7	21.1	Q
Other	10	Q	Q	Q	Q	35.0	Q	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)										
Heating	771	469	157	126	19	36.6	25.2	11.3	14.1	6.5
Cooling	860	519	177	142	22	37.2	26.1	11.5	14.0	7.2

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All buildings	2,193	1,307	414	384	89	37.3	26.4	10.5	15.5	9.8
Water-heating equipment										
Centralized system	1,380	819	276	251	34	40.6	28.1	11.1	19.1	6.7
Distributed system	251	150	37	36	Q	30.5	22.4	9.0	14.6	24.8
Combination of centralized and distributed system	526	303	101	97	24	35.5	25.3	9.5	10.6	9.0
Food preparation or serving areas in non-food service buildings (more than one may apply)										
Snack bar or concession stand	355	192	59	91	15	45.2	31.4	10.0	13.5	7.7
Fast food or small restaurant	363	162	70	118	12	43.4	26.6	13.1	15.8	7.9
Cafeteria or large restaurant	572	297	134	120	21	43.9	29.6	12.9	10.5	7.1
Commercial kitchen/food preparation area	657	327	167	138	25	46.6	29.3	14.7	10.8	7.7
Small kitchen area	399	237	72	78	12	36.7	26.8	9.1	10.6	6.1
HVAC conservation features (more than one may apply)										
Economizer cycle	991	587	168	173	63	40.1	28.0	9.5	12.7	11.7
Regular HVAC maintenance	1,942	1,148	367	343	84	38.3	26.8	10.5	14.8	9.8
Building automation system (BAS) ³	1,073	628	194	181	70	38.6	27.9	9.7	11.4	11.1
Window and interior lighting features (more than one may apply)										
Multipaned windows	1,709	1,028	310	304	67	39.0	27.6	10.4	15.6	9.0
Tinted window glass	1,259	725	237	234	63	38.6	26.1	10.5	15.6	12.5
Reflective window glass	528	290	94	124	20	43.8	28.8	10.9	19.4	9.7
External overhangs or awnings	1,005	534	192	240	40	43.3	27.5	12.1	20.5	11.5
Skylights or atriums	664	368	114	134	48	39.7	27.3	10.3	15.3	13.4
Light scheduling	905	525	157	184	39	39.2	27.4	9.6	14.3	8.7
Occupancy sensors	1,041	631	173	171	66	38.6	28.1	9.4	12.3	11.7
Multi-level lighting or dimming	560	267	112	151	30	47.8	27.9	12.9	19.0	16.2
Daylight harvesting	192	114	25	32	Q	39.1	28.0	7.5	9.9	17.6
Demand responsive lighting	124	64	27	27	6	33.7	19.9	10.5	12.6	7.8
Building automation system (BAS) for lighting ³	327	200	50	59	17	34.8	25.2	7.3	9.6	7.3
Equipment usage reduced when building not in full use (more than one may apply)										
Heating	1,635	1,013	276	277	69	34.9	25.0	8.6	13.8	9.1
Cooling	1,604	972	286	280	66	35.1	25.0	9.2	14.1	9.1
Lighting	2,054	1,236	377	357	83	37.3	26.4	10.1	15.5	9.8

Table E8. Natural gas consumption and conditional energy intensities (cubic feet) by end use, 2012

	Total natural gas consumption (billion cubic feet)					Natural gas energy intensity ¹ (cubic feet/square foot in buildings using natural gas for the end use)				
	Total	Space heating	Water heating	Cooking	Other	Total	Space heating	Water heating	Cooking	Other
All buildings	2,193	1,307	414	384	89	37.3	26.4	10.5	15.5	9.8
Annual consumption (hundred cubic feet)										
1,000 or less	51	43	5	2	1	7.4	8.1	1.6	3.3	Q
1,001 to 5,000	275	207	34	30	4	20.6	18.0	4.3	10.6	3.8
5,001 to 10,000	232	141	40	46	4	29.0	21.7	8.0	16.0	4.6
10,001 to 25,000	448	237	97	104	10	40.1	25.5	12.5	18.4	6.3
25,001 to 50,000	304	187	66	43	9	42.4	30.1	11.7	11.4	6.0
50,001 to 100,000	278	150	61	53	14	52.7	31.3	13.7	14.2	9.4
Over 100,000	606	342	111	105	47	88.3	57.9	19.8	20.5	27.4

¹ The natural gas intensity calculation (natural gas consumption for the end use divided by the floorspace in buildings that use natural gas for the particular end use) differs from the calculation used in the 2003 CBECS tables, in which the intensities were not conditional on the presence of the end use; the 2003 CBECS denominator was total floorspace in all buildings that used natural gas. In this table, the intensities for each end use do not sum to the total natural gas intensity, whereas they did in the 2003 CBECS table.

² 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).

³ 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.

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/> • 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 C of the 2012 Commercial Buildings Energy Consumption Survey.