

Table E7. Natural gas consumption and conditional energy intensities (Btu) by end use, 2012

	Total natural gas consumption (trillion Btu)					Natural gas energy intensity ¹ (thousand Btu/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	2,248	1,339	424	394	91	38.3	27.1	10.7	15.9	10.0
Building floorspace (square feet)										
1,001 to 5,000	256	122	53	78	Q	68.0	36.9	25.5	94.7	Q
5,001 to 10,000	248	138	39	66	4	51.4	31.8	14.0	52.6	16.9
10,001 to 25,000	304	203	52	47	3	34.5	25.3	9.1	22.0	5.6
25,001 to 50,000	284	192	55	28	9	34.8	26.5	9.7	12.5	9.5
50,001 to 100,000	338	215	71	32	19	34.0	25.3	9.5	7.0	12.0
100,001 to 200,000	290	164	62	39	26	30.8	21.8	9.0	8.3	10.5
200,001 to 500,000	310	194	54	48	14	37.3	27.7	9.1	9.2	7.1
Over 500,000	219	112	37	Q	13	39.6	31.0	12.5	Q	11.2
Principal building activity										
Education	291	212	54	10	14	30.6	26.7	7.0	1.8	5.6
Food sales	53	29	3	19	Q	62.8	43.3	4.4	32.8	Q
Food service	227	35	40	152	Q	163.2	34.0	39.2	120.5	Q
Health care	265	159	61	32	12	80.5	60.9	23.7	16.3	18.7
Inpatient	219	121	58	30	10	103.6	74.2	34.3	16.6	25.0
Outpatient	46	39	4	Q	Q	39.0	39.1	3.9	Q	Q
Lodging	221	46	113	Q	6	44.9	14.5	26.5	Q	6.6
Mercantile	291	159	58	66	8	34.3	21.5	10.6	13.5	6.0
Retail (other than mall)	74	63	4	6	Q	22.0	20.5	2.5	6.0	Q
Enclosed and strip malls	217	97	54	60	6	42.4	22.1	14.1	15.4	6.9
Office	282	220	29	Q	13	27.4	25.7	4.8	Q	9.4
Public assembly	135	118	6	9	2	34.8	35.3	2.1	6.4	4.7
Public order and safety	41	22	16	2	Q	40.4	25.8	21.4	3.5	Q
Religious worship	87	67	Q	10	Q	28.8	25.0	Q	5.6	Q
Service	122	98	21	Q	Q	43.7	35.5	15.0	Q	Q
Warehouse and storage	139	109	10	Q	7	19.9	16.7	2.9	Q	7.0
Other	81	55	2	Q	Q	58.6	44.8	2.3	Q	Q
Vacant	13	11	Q	Q	Q	14.3	15.0	1.4	Q	Q
Year constructed										
Before 1920	87	65	6	13	Q	37.7	32.8	5.0	19.1	Q
1920 to 1945	145	97	28	17	3	38.2	30.4	11.7	11.3	9.4
1946 to 1959	199	135	32	27	5	37.0	27.6	8.7	11.7	7.7
1960 to 1969	314	203	60	31	Q	41.6	30.9	10.6	9.3	Q
1970 to 1979	340	188	81	60	10	42.6	28.8	14.5	18.4	9.5
1980 to 1989	335	183	70	68	Q	33.9	22.9	11.2	16.2	Q
1990 to 1999	338	188	61	80	9	36.9	24.7	10.0	18.2	9.3
2000 to 2003	158	100	24	24	10	33.4	26.7	7.6	13.8	7.3
2004 to 2007	172	84	32	Q	6	41.9	24.2	11.3	Q	8.2
2008 to 2012	159	95	30	24	10	41.7	27.3	11.5	17.1	8.3

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	Total	Space heating	Water heating	Cooking	Other	Total	Space heating	Water heating	Cooking	Other
All buildings	2,248	1,339	424	394	91	38.3	27.1	10.7	15.9	10.0
Census region and division										
Northeast	499	330	80	64	26	45.1	35.3	10.6	11.9	10.3
New England	111	81	10	12	8	49.3	40.7	6.7	11.6	12.3
Middle Atlantic	389	249	70	52	19	44.1	33.8	11.5	11.9	9.7
Midwest	642	499	77	55	11	42.8	35.6	7.3	9.7	4.9
East North Central	494	386	58	41	9	45.7	38.1	7.3	9.4	4.7
West North Central	149	114	19	14	2	35.1	29.1	7.1	10.4	5.7
South	615	281	155	153	26	30.9	18.2	12.6	17.8	9.1
South Atlantic	305	137	79	78	12	30.6	18.7	14.0	17.7	6.2
East South Central	104	52	27	22	2	30.1	19.5	13.1	14.9	5.0
West South Central	207	93	49	52	Q	31.9	17.0	10.8	19.7	Q
West	491	229	112	123	27	38.6	21.4	12.3	23.6	20.9
Mountain	163	89	25	Q	4	43.4	27.8	9.5	Q	7.7
Pacific	328	141	87	77	Q	36.5	18.7	13.5	22.0	Q
Climate region²										
Very cold/Cold	1,097	802	132	130	33	44.8	35.8	7.8	13.4	7.2
Mixed-humid	657	359	149	126	22	33.9	22.8	12.5	14.9	7.4
Mixed-dry/Hot-dry	255	89	78	71	Q	33.9	14.2	13.1	23.1	Q
Hot-humid	171	48	52	57	Q	32.2	14.6	15.1	19.8	Q
Marine	68	40	13	10	Q	33.6	23.4	10.4	14.4	Q
Number of floors										
One	918	541	156	194	27	37.5	24.6	10.1	22.7	10.0
Two	511	314	96	83	17	34.8	25.1	9.6	13.9	7.1
Three	224	157	41	19	7	36.9	29.4	8.8	8.1	7.5
Four to nine	443	261	102	50	31	45.4	35.1	14.1	9.4	13.6
Ten or more	151	66	28	Q	9	40.7	30.6	13.8	Q	12.7
Number of workers (main shift)										
Fewer than 5	264	184	47	29	4	33.6	25.7	10.1	16.7	Q
5 to 9	202	119	37	43	3	37.7	25.5	11.2	39.6	8.2
10 to 19	298	157	57	81	2	43.8	26.6	12.7	54.1	6.2
20 to 49	379	225	70	71	12	35.7	24.2	9.3	15.8	8.7
50 to 99	360	227	75	41	16	34.9	25.4	9.7	8.0	7.8
100 to 249	337	206	54	43	34	38.0	27.5	8.4	8.8	14.3
250 or more	408	221	83	85	19	45.8	36.4	15.5	14.4	9.7
Weekly operating hours										
Fewer than 40	97	79	9	8	Q	26.2	23.6	3.6	6.3	Q
40 to 48	259	204	33	15	7	26.0	22.7	5.1	5.4	6.1
49 to 60	369	292	37	26	15	26.4	24.0	4.4	6.8	6.8
61 to 84	469	272	78	109	11	40.8	27.4	9.9	18.7	6.7
85 to 167	349	188	52	95	13	51.8	31.5	10.5	30.2	8.7
Open continuously	705	304	216	140	45	55.0	33.4	22.9	17.9	18.0

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	Total	Space heating	Water heating	Cooking	Other	Total	Space heating	Water heating	Cooking	Other
All buildings	2,248	1,339	424	394	91	38.3	27.1	10.7	15.9	10.0
Ownership and occupancy										
Nongovernment owned	1,747	991	328	356	72	39.3	26.4	11.7	20.3	12.0
Owner occupied	890	489	174	180	47	43.3	29.1	13.1	22.4	15.3
Leased to tenant(s)	634	351	120	147	16	36.5	23.2	11.3	22.9	8.3
Owner occupied and leased	219	147	34	29	9	35.0	27.8	8.3	9.4	9.3
Unoccupied	4	4	Q	Q	N	12.9	12.2	Q	Q	N
Government owned	501	349	96	37	19	35.2	29.0	8.4	5.2	6.1
Federal	30	21	4	4	Q	34.8	32.0	6.9	11.6	Q
State	169	103	40	Q	8	43.0	33.6	13.1	Q	9.9
Local	302	225	52	16	10	32.0	27.1	6.7	2.9	4.5
Party responsible for operation and maintenance of energy systems										
Building owner	1,852	1,131	339	302	80	37.7	27.7	10.1	14.6	10.4
Business owner or tenant	343	181	71	81	10	41.6	23.8	13.7	24.7	8.0
Property management	27	13	9	4	Q	34.2	21.2	16.7	10.5	Q
Other	27	15	5	6	Q	44.1	33.4	15.0	18.5	Q
Provider of direct input on energy-related equipment purchases										
Building owner	1,915	1,165	354	313	82	37.6	27.4	10.2	14.5	10.3
Business owner or tenant	264	138	54	65	8	43.9	25.1	14.4	27.4	8.8
Property management	17	10	4	3	Q	33.1	22.9	10.7	9.9	Q
Other	52	26	12	13	Q	42.0	24.5	14.8	23.3	Q
Number of establishments										
One	1,527	877	306	278	65	41.1	27.9	11.7	19.2	10.6
2 to 5	429	286	67	58	17	34.5	26.8	9.1	12.0	10.1
6 to 10	107	71	17	17	2	34.7	26.9	9.4	12.7	7.2
11 to 20	112	66	20	23	3	40.7	26.8	9.4	13.0	6.6
More than 20	67	33	14	17	4	23.4	17.7	8.1	7.5	7.6
Currently unoccupied	6	6	Q	Q	N	14.5	15.8	Q	Q	N
Predominant exterior wall material										
Brick, stone, or stucco	1,160	686	238	193	43	40.0	28.3	11.6	14.2	8.7
Concrete (block or poured)	535	294	115	99	28	36.8	24.4	11.9	14.4	11.6
Concrete panels	208	130	26	Q	6	35.1	25.9	6.8	Q	6.7
Siding or shingles	134	77	25	30	Q	46.4	28.7	11.8	35.5	Q
Metal panels	126	104	9	7	Q	28.7	25.5	3.8	10.4	15.9
Window glass	48	30	Q	4	Q	45.5	43.4	Q	8.2	Q
Other	Q	7	2	Q	Q	47.2	17.0	6.3	Q	Q
No one major type	14	11	Q	Q	Q	31.4	32.0	Q	Q	Q

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All buildings	2,248	1,339	424	394	91	38.3	27.1	10.7	15.9	10.0
Predominant roof material										
Metal surfacing	241	155	36	41	9	30.8	21.9	7.7	20.9	9.0
Synthetic or rubber	850	536	130	147	38	43.0	31.3	9.7	16.4	10.3
Built-up	582	335	125	89	33	36.3	25.2	11.0	11.5	12.7
Slate or tile shingles	114	50	29	32	Q	40.7	26.0	15.0	25.8	Q
Wooden materials (including shingles)	41	22	9	10	Q	67.3	43.7	21.7	53.3	Q
Asphalt, fiberglass, or other shingles	368	214	83	65	6	37.2	26.0	12.6	16.6	5.6
Concrete	24	12	9	2	Q	28.2	18.3	15.9	7.4	Q
Other	18	8	Q	Q	Q	33.7	18.3	Q	Q	Q
No one major type	10	Q	Q	Q	Q	24.1	Q	Q	Q	Q
Roof characteristics										
Roof tilt										
Flat	1,455	860	292	236	67	40.6	28.7	11.6	14.5	11.6
Shallow pitch	481	291	68	105	18	33.2	23.3	7.7	21.9	7.7
Steeper pitch	312	189	64	53	6	37.2	26.8	11.5	14.4	6.1
Cool roof	602	332	119	108	43	42.0	28.6	12.3	14.4	15.8
Renovations in buildings constructed before 2008 (more than one may apply)										
Any type of renovation	1,230	732	223	218	58	39.7	28.6	10.8	14.8	12.5
Addition or annex	468	276	77	99	15	46.3	33.1	10.6	16.6	8.8
Reduction in floorspace	70	28	Q	Q	Q	50.2	32.0	24.7	24.0	Q
Roof replacement	681	413	125	102	41	42.2	31.2	11.2	12.2	16.6
Exterior wall replacement	129	64	24	35	6	38.1	23.5	10.5	18.4	11.9
Interior wall reconfiguration	644	390	104	121	29	40.1	29.6	10.2	16.3	10.8
Window replacement	387	225	67	74	22	41.7	29.8	10.6	16.5	13.3
HVAC equipment upgrade	842	487	153	158	44	41.2	28.8	11.0	15.1	13.7
Lighting upgrade	810	477	140	146	47	42.0	29.8	10.8	15.0	14.9
Electrical upgrade	551	307	87	117	39	44.5	30.7	10.4	18.0	18.3
Plumbing system upgrade	515	273	93	112	38	48.8	31.4	12.4	19.9	21.9
Insulation upgrade	269	142	34	75	18	45.6	30.0	8.7	23.9	20.4
Fire, safety, or security upgrade	569	326	113	89	41	43.0	30.3	11.9	12.2	17.0
Structural upgrade	151	57	20	Q	Q	53.4	26.4	11.4	36.7	Q
Other	14	9	Q	1	Q	24.5	22.1	9.7	3.3	Q
No renovations	859	513	171	152	24	35.9	25.1	10.5	17.6	7.2
Buildings constructed 2008 or later	159	95	30	24	10	41.7	27.3	11.5	17.1	8.3

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All buildings	2,248	1,339	424	394	91	38.3	27.1	10.7	15.9	10.0
Energy sources (more than one may apply)										
Electricity	2,248	1,339	424	394	91	38.3	27.1	10.7	15.9	10.0
Natural gas	2,248	1,339	424	394	91	38.3	27.1	10.7	15.9	10.0
Fuel oil	623	364	122	112	25	45.6	35.6	12.8	13.6	15.4
District heat	108	13	Q	Q	Q	37.8	36.9	Q	Q	Q
District chilled water	133	33	Q	Q	Q	54.9	47.3	26.0	Q	Q
Propane	146	69	26	Q	Q	43.1	25.7	12.4	Q	Q
Other	108	68	14	9	Q	41.1	28.6	7.6	7.5	Q
Space-heating energy sources										
Natural gas	1,971	1,339	324	255	53	39.8	27.1	9.3	13.2	7.5
Natural gas main	1,769	1,271	260	195	43	41.2	29.6	8.5	11.7	7.0
Natural gas secondary	202	68	64	60	9	30.9	10.4	15.7	23.1	11.1
Other excluding natural gas	252	N	85	131	36	29.2	N	19.6	25.2	18.0
Buildings without heating	25	N	15	8	Q	42.1	N	33.0	24.5	Q
Primary space-heating energy source										
Electricity	335	52	125	133	25	29.0	8.9	17.3	22.6	14.2
Natural gas	1,769	1,271	260	195	43	41.2	29.6	8.5	11.7	7.0
Fuel oil	8	Q	Q	3	Q	19.5	Q	Q	12.2	Q
District heat	106	Q	Q	Q	Q	38.0	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	58	36	8	3	11	79.8	50.5	12.7	8.8	15.5
Other excluding natural gas	2,120	1,252	404	388	77	37.7	26.6	10.7	16.1	9.4
Buildings without cooling	70	52	12	4	Q	38.2	30.8	11.5	11.1	Q
Water-heating energy sources										
Natural gas	1,771	1,013	424	280	54	44.8	29.2	10.7	14.7	8.7
Other excluding natural gas	439	290	N	114	35	25.1	22.1	N	19.8	12.5
Buildings without water heating	38	36	N	Q	Q	22.5	21.3	N	Q	Q
Cooking energy sources										
Natural gas	1,238	542	265	394	37	50.0	28.2	14.0	15.9	8.0
Other excluding natural gas	205	155	46	N	4	32.8	28.5	10.8	N	4.8
Buildings without cooking	805	643	113	N	49	29.1	25.9	6.9	N	14.2

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All buildings	2,248	1,339	424	394	91	38.3	27.1	10.7	15.9	10.0
Energy end uses (more than one may apply)										
Buildings with space heating	2,223	1,339	410	385	89	38.2	27.1	10.5	15.8	9.9
Buildings with cooling	2,178	1,288	412	390	88	38.3	26.9	10.7	16.0	9.9
Buildings with water heating	2,210	1,303	424	394	89	38.8	27.3	10.7	15.9	9.9
Buildings with cooking	1,443	696	311	394	41	46.5	28.2	13.4	15.9	7.5
Buildings with manufacturing	123	79	13	11	20	33.0	23.2	6.5	14.5	21.3
Buildings with electricity generation	855	492	160	137	66	42.2	31.0	11.2	11.6	8.3
Percent of floorspace heated										
Not heated	25	N	15	8	Q	42.1	N	33.0	24.5	Q
1 to 50	123	60	23	36	4	21.5	12.2	6.9	31.3	11.8
51 to 99	443	256	76	95	16	39.7	27.5	10.5	16.1	10.3
100	1,657	1,024	310	255	69	40.2	29.0	10.9	14.7	9.7
Percent of floorspace cooled										
Not cooled	70	52	12	4	Q	38.2	30.8	11.5	11.1	Q
1 to 50	418	315	51	41	11	32.1	26.3	6.5	13.8	7.5
51 to 99	667	401	125	117	24	39.0	27.8	10.5	12.9	8.9
100	1,093	571	236	232	54	40.8	26.7	12.6	18.7	11.2
Heating equipment (more than one may apply)										
Heat pumps	247	109	71	57	11	32.7	18.3	13.9	14.3	9.5
Furnaces	244	161	35	44	4	34.7	23.6	7.3	19.3	6.4
Individual space heaters	545	373	100	55	17	34.5	26.9	9.7	9.1	7.0
District heat	108	13	Q	Q	Q	38.1	37.7	Q	Q	Q
Boilers	984	666	193	85	40	49.2	35.3	11.5	7.5	9.0
Packaged heating units	1,360	805	238	274	43	36.2	24.4	9.6	17.2	8.4
Other	54	25	11	15	3	45.2	23.2	10.0	15.3	7.9
Cooling equipment (more than one may apply)										
Residential-type central air conditioners	416	239	75	84	Q	39.6	25.3	10.3	25.6	Q
Heat pumps	257	118	73	53	13	32.0	18.1	13.6	12.6	9.9
Individual air conditioners	374	222	92	44	16	41.0	29.9	14.4	9.1	10.3
District chilled water	133	33	Q	Q	Q	54.9	47.3	26.0	Q	Q
Central chillers	598	391	118	60	30	43.5	35.0	10.8	7.0	8.7
Packaged air conditioning units	1,318	793	230	248	46	37.7	26.2	9.8	15.3	8.7
Swamp coolers	71	37	15	16	Q	46.2	26.4	12.0	21.7	Q
Other	10	Q	Q	Q	Q	35.9	Q	Q	Q	Q

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All buildings	2,248	1,339	424	394	91	38.3	27.1	10.7	15.9	10.0
Main equipment replaced since 1990 (more than one may apply)										
Heating	790	481	161	129	19	37.5	25.8	11.6	14.4	6.7
Cooling	882	532	181	145	23	38.2	26.7	11.7	14.4	7.4
Water-heating equipment										
Centralized system	1,414	839	283	257	35	41.6	28.8	11.4	19.6	6.8
Distributed system	257	153	38	37	Q	31.3	23.0	9.2	14.9	25.5
Combination of centralized and distributed system	539	311	104	99	25	36.4	25.9	9.8	10.9	9.2
Food preparation or serving areas in non-food service buildings (more than one may apply)										
Snack bar or concession stand	364	196	60	93	15	46.3	32.2	10.2	13.9	7.8
Fast food or small restaurant	372	166	72	121	13	44.5	27.2	13.4	16.2	8.1
Cafeteria or large restaurant	587	305	138	123	22	45.0	30.3	13.2	10.7	7.3
Commercial kitchen/ food preparation area	673	335	171	141	25	47.8	30.0	15.1	11.1	7.9
Small kitchen area	409	243	74	80	12	37.6	27.4	9.3	10.8	6.3
HVAC conservation features (more than one may apply)										
Economizer cycle	1,015	602	172	177	65	41.1	28.7	9.7	13.1	12.0
Regular HVAC maintenance	1,991	1,177	376	351	86	39.3	27.5	10.7	15.2	10.1
Building automation system (BAS) ²	1,100	644	198	186	72	39.5	28.6	10.0	11.6	11.4
Window and interior lighting features (more than one may apply)										
Multipaned windows	1,752	1,054	318	311	69	40.0	28.3	10.7	15.9	9.2
Tinted window glass	1,290	743	243	239	64	39.5	26.8	10.7	16.0	12.8
Reflective window glass	541	298	97	127	20	44.9	29.6	11.1	19.9	9.9
External overhangs or awnings	1,030	547	196	246	41	44.4	28.2	12.4	21.0	11.8
Skylights or atriums	681	377	117	137	49	40.6	28.0	10.5	15.7	13.7
Light scheduling	927	538	161	188	40	40.1	28.1	9.8	14.6	8.9
Occupancy sensors	1,067	647	178	175	67	39.6	28.8	9.6	12.6	12.0
Multi-level lighting or dimming	573	273	115	155	31	49.0	28.6	13.2	19.5	16.6
Daylight harvesting	197	116	25	32	Q	40.1	28.7	7.7	10.1	18.1
Demand responsive lighting	127	65	28	28	6	34.6	20.4	10.7	12.9	8.0
Building automation system (BAS) for lighting ³	335	205	51	61	18	35.6	25.8	7.5	9.9	7.4

Table E7. Natural gas consumption and conditional energy intensities (Btu) by end use, 2012

	Total natural gas consumption (trillion Btu)					Natural gas energy intensity ¹ (thousand Btu/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	2,248	1,339	424	394	91	38.3	27.1	10.7	15.9	10.0
Equipment usage reduced when building not in full use (more than one may apply)										
Heating	1,675	1,039	283	284	71	35.8	25.6	8.9	14.2	9.3
Cooling	1,644	996	293	287	68	35.9	25.6	9.4	14.4	9.3
Lighting	2,105	1,267	387	366	85	38.3	27.1	10.4	15.9	10.1
Annual consumption (hundred cubic feet)										
1,000 or less	53	44	5	2	1	7.6	8.3	1.7	3.4	Q
1,001 to 5,000	282	213	34	31	4	21.1	18.4	4.4	10.9	3.9
5,001 to 10,000	238	145	41	48	4	29.7	22.2	8.2	16.4	4.7
10,001 to 25,000	459	243	100	106	10	41.2	26.1	12.8	18.8	6.5
25,001 to 50,000	311	191	67	44	9	43.5	30.9	12.0	11.7	6.1
50,001 to 100,000	285	154	62	54	15	54.0	32.1	14.1	14.6	9.6
Over 100,000	621	350	114	108	48	90.5	59.3	20.3	21.0	28.1

¹ The natural gas intensity calculation (total natural gas use 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 use 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.