Table C30. Natural gas consumption and conditional energy intensity by climate region, 2012

	Total natural gas consumption (billion cubic feet)					Total floorspace of buildings using natural gas (million square feet)					Natural gas energy intensity (cubic feet/square foot)				
	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine
All buildings	1,070	641	249	167	67	24,511	19,361	7,520	5,300	2,033	43.7	33.1	33.1	31.4	32.7
Building floorspace (square feet)															
1,001 to 5,000	96	93	30	24	6	1,618	1,299	453	269	Q	59.5	71.2	66.8	90.0	51.3
5,001 to 10,000	111	76	30	18	Q	2,088	1,367	875	354	Q	53.2	55.8	34.3	50.6	Q
10,001 to 25,000	146	76	33	26	16	3,895	2,431	1,493	623	381	37.4	31.2	22.1	42.1	41.3
25,001 to 50,000	141	74	35	17	Q	3,384	2,474	1,184	789	318	41.6	29.9	29.8	21.7	30.5
50,001 to 100,000	178	97	22	23	Q	4,034	3,719	870	941	Q	44.0	26.0	25.8	24.9	Q
100,001 to 200,000	128	99	35	16	Q	3,522	3,580	1,277	818	Q	36.3	27.6	27.2	19.8	Q
200,001 to 500,000	165	61	Q	18	8	3,818	2,437	941	798	298	43.2	25.1	53.5	22.5	26.5
Over 500,000	106	66	13	23	Q	2,152	2,053	427	708	Q	49.4	32.0	30.1	33.2	Q
Principal building activity															
Education	159	91	15	15	Q	3,873	3,615	842	1,077	Q	40.9	25.1	17.9	13.6	Q
Food sales	28	12	Q	Q	Q	400	193	Q	Q	Q	70.4	64.6	Q	Q	Q
Food service	76	87	26	27	Q	503	487	186	151	Q	150.4	178.7	139.1	179.6	Q
Health care	111	83	Q	25	Q	1,436	1,032	346	388	Q	77.3	80.7	93.2	63.7	Q
Inpatient	78	75	Q	24	Q	720	746	262	316	Q	108.7	100.0	115.0	75.2	Q
Outpatient	33	9	Q	Q	Q	717	286	Q	Q	Q	45.7	30.6	Q	Q	Q
Lodging	99	64	30	17	Q	1,684	1,617	812	676	Q	58.6	39.6	36.7	25.8	Q
Mercantile	136	62	44	32	Q	3,402	2,619	1,300	871	Q	39.9	23.8	34.2	37.1	Q
Retail (other than mall)	48	16	Q	Q	Q	1,517	975	Q	Q	Q	31.6	16.9	Q	Q	Q
Enclosed and strip malls	88	46	40	30	Q	1,885	1,644	824	643	Q	46.6	28.0	48.5	47.4	Q
Office	157	76	17	10	15	4,654	3,223	1,197	621	596	33.8	23.7	14.3	15.9	24.7
Public assembly	72	28	13	Q	Q	1,802	952	557	324	Q	39.9	29.5	24.0	Q	Q
Public order and safety	19	12	Q	Q	Q	409	326	Q	Q	Q	45.6	36.4	Q	Q	Q
Religious worship	40	30	Q	Q	Q	1,181	1,208	284	Q	Q	33.6	24.5	Q	Q	Q
Service	58	44	Q	Q	Q	1,400	932	Q	Q	Q	41.7	47.0	Q	Q	Q
Warehouse and storage	75	31	25	Q	Q	2,773	2,485	1,111	526	Q	27.1	12.4	22.8	7.3	Q
Other	34	Q	Q	Q	Q	541	Q	Q	Q	Q	63.5	Q	Q	Q	Q
Vacant	7	Q	Q	N	Q	454	Q	Q	N	Q	15.8	Q	Q	N	Q
Year constructed															
Before 1920	57	26	Q	Q	Q	1,432	724	Q	Q	Q	39.7	35.9	Q	Q	Q
1920 to 1945	68	53	14	Q	Q	1,677	1,418	388	Q	Q	40.6	37.1	35.0	Q	Q
1946 to 1959	117	49	15	10	Q	2,385	1,749	716	363	Q	49.0	28.0	21.6	26.5	Q
1960 to 1969	141	87	46	22	10	3,420	2,467	942	438	285	41.2	35.4	48.5	51.0	36.3
1970 to 1979	148	117	36	24	Q	3,337	2,363	1,330	768	Q	44.4	49.6	27.4	31.7	Q
1980 to 1989	152	77	35	46	17	3,484	3,054	1,337	1,415	598	43.5	25.3	25.9	32.8	27.7
1990 to 1999	155	99	38	28	11	3,857	2,963	1,099	947	295	40.1	33.5	34.2	29.1	38.6
2000 to 2003	82	40	16	12	Q	1,958	1,704	500	416	Q	41.9	23.5	32.6	28.2	Q
2004 to 2007	84	42	15	17	Q	1,547	1,489	471	397	Q	54.4	28.5	Q	42.8	Q
2008 to 2012	67	50	Q	Q	Q	1,414	1,430	661	Q	Q	47.4	35.0	50.5	Q	Q

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	Total natural gas consumption (billion cubic feet)					Total floorspace of buildings using natural gas (million square feet)					Natural gas energy intensity (cubic feet/square foot)				
	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine
All buildings	1,070	641	249	167	67	24,511	19,361	7,520	5,300	2,033	43.7	33.1	33.1	31.4	32.7
Census region and division															
Northeast	323	164	N	N	N	7,259	3,809	N	N	N	44.5	43.1	N	N	N
New England	108	N	N	N	N	2,241	N	N	N	N	48.1	N	N	N	N
Middle Atlantic	215	164	N	N	N	5,018	3,809	N	N	N	42.9	43.1	N	N	N
Midwest	561	65	N	N	N	13,130	1,895	N	N	N	42.7	34.5	N	N	N
East North Central	452	Q	N	N	N	9,944	Q	N	N	N	45.5	34.9	N	N	N
West North Central	109	36	N	N	N	3,185	1,050	N	N	N	34.3	34.3	N	N	N
South	N	411	23	167	N	N	13,656	944	5,300	N	N	30.1	24.0	31.4	N
South Atlantic	N	251	N	47	N	N	8,542	N	1,442	N	N	29.4	N	32.5	N
East South Central	N	79	N	22	N	N	2,813	N	623	N	N	28.0	N	35.6	N
West South Central	N	82	23	97	N	N	2,301	944	3,235	N	N	35.5	24.0	30.1	N
West	186	N	226	N	67	4,123	N	6,576	N	2,033	45.2	N	34.4	N	32.7
Mountain	131	N	29	N	N	2,872	N	894	N	N	45.6	N	31.9	N	N
Pacific	55	N	198	N	67	1,251	N	5,681	N	2,033	44.3	N	34.8	N	32.7
Number of floors															
One	399	260	122	86	29	9,104	8,144	3,965	2,540	744	43.9	31.9	30.7	34.0	38.3
Two	272	145	42	21	Q	6,764	4,589	1,651	1,027	634	40.3	31.5	25.6	20.9	28.2
Three	134	58	15	8	Q	3,265	1,858	494	339	Q	41.1	31.0	31.0	24.5	Q
Four to nine	185	133	61	41	13	4,022	3,323	1,064	1,025	330	46.0	40.0	57.3	39.8	37.9
Ten or more	79	46	9	10	Q	1,357	1,447	346	369	Q	58.4	31.7	24.8	25.9	Q
Number of workers (main shift)															
Fewer than 5	128	89	24	10	7	3,450	2,709	1,133	357	Q	37.1	32.8	21.3	28.6	32.4
5 to 9	84	64	26	17	Q	2,248	1,656	780	457	Q	37.2	38.5	33.1	36.3	Q
10 to 19	135	82	41	25	Q	2,811	2,055	1,171	503	Q	47.9	40.1	34.6	50.3	Q
20 to 49	178	102	39	32	18	4,577	3,229	1,382	906	520	39.0	31.6	28.0	35.6	34.2
50 to 99	196	99	25	23	Q	4,005	3,794	1,113	1,150	Q	48.9	26.0	22.6	19.8	Q
100 to 249	164	81	55	25	Q	3,766	3,010	1,060	878	Q	43.5	27.0	52.2	28.9	Q
250 or more	186	124	39	34	15	3,655	2,909	881	1,049	407	50.9	42.6	44.5	32.4	36.2
Weekly operating hours															
Fewer than 40	50	30	8	5	Q	1,533	1,226	503	352	Q	32.6	24.2	15.3	15.2	Q
40 to 48	135	64	39	8	7	3,911	3,506	1,529	654	360	34.5	18.3	25.3	11.5	19.2
49 to 60	205	100	18	20	17	6,012	4,648	1,489	1,188	669	34.1	21.5	12.4	17.1	25.4
61 to 84	222	132	55	37	12	5,156	3,480	1,542	936	380	43.1	37.9	35.5	39.9	30.5
85 to 167	177	99	21	30	Q	3,199	2,096	797	427	Q	55.3	47.2	26.8	70.0	Q
Open continuously	282	216	108	66	16	4,701	4,404	1,661	1,743	317	60.0	49.1	65.0	37.9	49.8
Ownership and occupancy															
Nongovernment owned	820	485	212	133	54	18,488	14,228	6,179	3,867	1,719	44.3	34.1	34.3	34.5	31.5
Owner occupied	430	253	103	62	21	8,997	6,294	2,716	1,917	618	47.8	40.2	38.0	32.2	33.3
Leased to tenant(s)	263	181	89	57	28	6,647	5,981	2,542	1,398	793	39.6	30.3	35.1	40.8	35.5
Owner occupied and leased	125	50	19	15	Q	2,672	1,914	836	552	Q	46.7	26.3	22.9	26.8	Q
Unoccupied	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q
Government owned	251	156	37	33	12	6,023	5,133	1,341	1,433	315	41.6	30.5	27.5	23.0	39.3
Federal	13	11	Q	Q	Q	313	448	Q	Q	Q	42.8	24.9	Q	Q	Q
State	79	61	9	Q	Q	1,703	1,404	364	353	Q	46.1	43.8	26.1	28.5	Q
Local	159	84	25	21	6	4,007	3,280	932	1,026	193	39.6	25.5	26.6	20.4	33.1

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	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine
All buildings	1,070	641	249	167	67	24,511	19,361	7,520	5,300	2,033	43.7	33.1	33.1	31.4	32.7
Party responsible for operation and maintenance of energy systems															
Building owner	918	510	192	134	53	20,953	15,877	5,997	4,512	1,760	43.8	32.1	32.0	29.6	30.4
Business owner or tenant	132	108	Q	31	Q	3,093	2,830	1,395	666	256	42.8	38.1	36.5	46.4	48.5
Property management	6	13	Q	Q	Q	211	415	Q	Q	Q	29.0	32.1	Q	Q	Q
Other	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N
Provider of direct input on energy-related equipment purchases															
Building owner	948	528	202	133	57	21,704	16,478	6,384	4,553	1,826	43.7	32.0	31.7	29.2	31.1
Business owner or tenant	94	85	Q	28	Q	2,156	2,111	978	587	Q	43.6	40.4	41.6	48.2	Q
Property management	6	Q	Q	Q	N	173	Q	Q	Q	N	32.6	Q	Q	Q	N
Other	23	21	Q	Q	Q	478	532	Q	Q	Q	47.1	39.9	Q	Q	Q
Number of establishments															
One	703	475	172	99	40	15,702	12,336	4,794	3,284	1,040	44.8	38.5	35.8	30.2	38.9
2 to 5	240	90	36	38	14	5,352	3,948	1,384	1,159	588	44.9	22.8	25.9	32.6	24.2
6 to 10	50	25	13	Q	Q	1,242	1,073	375	Q	Q	40.1	23.4	33.9	Q	Q
11 to 20	48	32	14	14	Q	1,117	889	353	330	Q	42.7	36.3	40.4	Q	Q
More than 20	26	18	14	6	Q	895	1,012	529	315	Q	28.7	17.9	26.1	20.0	Q
Currently unoccupied	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q
Predominant exterior wall material															
Brick, stone, or stucco	552	375	111	68	Q	11,912	10,651	3,191	2,570	675	46.3	35.2	34.9	26.5	36.9
Concrete (block or poured)	228	157	63	53	21	5,688	4,573	2,056	1,510	691	40.0	34.4	30.8	35.3	29.7
Concrete panels	131	30	17	18	7	2,405	1,507	1,175	552	299	54.6	19.7	14.3	32.8	24.6
Siding or shingles	62	24	Q	Q	Q	1,683	467	518	Q	Q	36.9	50.6	53.9	Q	Q
Metal panels	71	31	6	12	Q	1,957	1,610	304	388	Q	36.2	19.4	19.4	30.6	Q
Window glass	14	Q	Q	Q	Q	465	Q	Q	Q	Q	29.3	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No one major type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant roof material															
Metal surfacing	101	82	16	29	Q	2,976	2,930	935	821	Q	33.8	27.9	16.8	35.0	Q
Synthetic or rubber	495	205	72	41	16	10,464	6,015	1,506	1,212	593	47.3	34.1	47.8	33.8	27.8
Built-up	228	197	71	49	22	5,559	5,526	2,358	1,862	721	41.0	35.7	30.3	26.6	31.1
Slate or tile shingles	40	26	26	10	Q	832	1,001	637	206	Q	48.1	Q	40.3	50.7	Q
Wooden materials (including shingles)	9	18	Q	Q	Q	160	169	Q	Q	Q	59.1	108.8	Q	Q	Q
Asphalt, fiberglass, or other shingles	184	92	45	31	7	4,037	3,104	1,512	962	281	45.7	29.8	29.5	31.9	23.7
Concrete	Q	12	Q	Q	Q	Q	332	Q	Q	Q	Q	35.4	Q	Q	Q
Other	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N
No one major type	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q
Roof characteristics															
Roof tilt															
Flat	668	422	180	109	41	15,178	11,482	4,593	3,311	1,269	44.0	36.8	39.1	32.8	32.2
Shallow pitch	242	125	44	38	21	5,508	5,019	2,089	1,320	564	43.9	25.0	21.0	28.7	37.0
Steeper pitch	160	93	25	20	5	3,825	2,859	838	670	200	42.0	32.6	30.4	30.1	24.0
Cool roof	241	176	96	54	21	5,434	4,669	2,023	1,711	514	44.3	37.8	47.4	31.4	40.8

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	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine
All buildings	1,070	641	249	167	67	24,511	19,361	7,520	5,300	2,033	43.7	33.1	33.1	31.4	32.7
Renovations in buildings constructed before 2008 (more than one may apply)															
Any type of renovation	618	348	108	90	36	13,747	10,438	2,847	2,759	1,154	45.0	33.3	38.0	32.5	31.2
Addition or annex	251	133	Q	37	Q	5,008	3,394	617	939	Q	50.1	39.1	46.1	39.9	Q
Reduction in floorspace	16	Q	Q	Q	Q	340	810	Q	Q	Q	46.4	57.7	Q	Q	Q
Roof replacement	344	196	60	47	16	7,356	5,378	1,286	1,606	526	46.8	36.4	47.0	29.5	31.2
Exterior wall replacement	47	40	Q	14	Q	1,224	1,129	491	407	Q	38.3	35.2	42.5	Q	Q
Interior wall reconfiguration	340	159	57	50	22	7,659	4,890	1,459	1,308	758	44.4	32.5	39.1	38.5	29.2
Window replacement	209	101	24	34	10	4,427	3,093	664	666	436	47.2	32.6	36.6	50.9	21.9
HVAC equipment upgrade	407	251	78	63	23	9,127	6,889	1,833	1,913	675	44.6	36.4	42.4	33.1	33.9
Lighting upgrade	430	199	77	61	23	8,992	6,177	1,849	1,645	635	47.9	32.2	41.7	37.1	36.0
Electrical upgrade	288	136	58	41	15	5,654	3,879	1,129	1,221	491	51.0	35.0	51.4	33.6	29.5
Plumbing system upgrade	256	134	58	42	14	4,749	3,489	1,079	816	418	53.8	38.3	53.5	50.9	32.9
Insulation upgrade	142	63	Q	29	Q	2,958	1,805	491	471	Q	48.0	35.1	41.9	62.4	Q
Fire, safety, or security upgrade	268	156	61	48	22	5,839	4,231	1,244	1,370	543	45.8	36.9	49.1	34.9	40.3
Structural upgrade	71	31	Q	Q	Q	1,325	677	352	Q	Q	53.5	45.6	55.9	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No renovations	385	243	107	74	28	9,350	7,493	4,012	2,268	836	41.2	32.5	26.8	32.7	33.6
Buildings constructed 2008 or later	67	50	Q	Q	Q	1,414	1,430	661	Q	Q	47.4	35.0	50.5	Q	Q
Energy sources (more than one may apply)															
Electricity	1,070	641	249	167	67	24,511	19,361	7,520	5,300	2,033	43.7	33.1	33.1	31.4	32.7
Natural gas	1,070	641	249	167	67	24,511	19,361	7,520	5,300	2,033	43.7	33.1	33.1	31.4	32.7
Fuel oil	290	179	68	53	19	5,395	4,834	1,190	1,637	607	53.8	36.9	56.9	32.2	30.9
District heat	Q	Q	Q	Q	Q	1,074	1,493	Q	Q	Q	Q	Q	Q	Q	Q
District chilled water	Q	Q	Q	Q	Q	820	1,224	170	194	Q	Q	Q	134.5	66.1	Q
Propane	86	29	10	16	Q	1,591	887	490	356	Q	54.1	33.0	19.7	44.5	Q
Other	60	20	Q	Q	Q	1,438	643	341	Q	Q	41.6	31.4	Q	Q	Q
Space-heating energy sources															
Natural gas	1,007	552	202	104	58	22,436	15,774	6,268	3,316	1,717	44.9	35.0	32.3	31.4	33.8
Natural gas main	945	483	163	79	56	20,554	12,884	5,252	2,710	1,588	46.0	37.5	31.1	29.0	35.1
Natural gas secondary	62	68	39	26	Q	1,882	2,890	1,016	607	Q	32.8	23.6	38.6	42.1	Q
Other excluding natural gas	63	88	39	51	Q	2,044	3,578	1,086	1,629	280	30.9	24.5	36.0	31.5	16.5
Buildings without heating	Q	Q	Q	11	Q	Q	Q	Q	355	Q	Q	Q	Q	31.3	Q
Primary space-heating energy source															
Electricity	78	114	63	68	Q	2,526	4,582	1,979	2,141	321	30.7	24.9	31.8	31.7	14.4
Natural gas	945	483	163	79	56	20,554	12,884	5,252	2,710	1,588	46.0	37.5	31.1	29.0	35.1
Fuel oil	Q	5	N	N	N	Q	360	N	N	N	Q	15.1	N	N	N
District heat	Q	Q	Q	Q	Q	1,032	1,483	Q	Q	Q	Q	Q	Q	Q	Q
Propane	Q	Q	Q	N	N	Q	Q	Q	N	N	Q	Q	Q	N	N
Other	Q	Q	N	N	N	Q	Q	N	N	N	Q	Q	N	N	N
Cooling energy sources															
Natural gas	30	22	Q	Q	Q	403	272	Q	Q	Q	74.9	80.9	Q	Q	Q
Other excluding natural gas	995	607	244	165	58	22,970	18,728	7,325	5,276	1,868	43.3	32.4	33.3	31.2	30.8
Buildings without cooling	45	12	2	Q	Q	1,138	361	158	Q	Q	39.4	33.9	12.0	Q	Q
Water-heating energy sources															
Natural gas	839	514	201	124	50	16,960	11,896	5,927	3,447	1,294	49.4	43.2	34.0	36.0	38.9
Other excluding natural gas	216	114	44	41	14	7,014	6,724	1,327	1,784	647	30.8	16.9	32.9	22.8	21.7
Buildings without water heating	16	14	4	Q	Q	537	741	266	Q	Q	29.7	18.2	14.6	Q	Q

Table C30. Natural gas consumption and conditional energy intensity by climate region, 2012

	Total natural gas consumption (billion cubic feet)					Total floorspace of buildings using natural gas (million square feet)					Natural gas energy intensity (cubic feet/square foot)				
	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine
All buildings	1,070	641	249	167	67	24,511	19,361	7,520	5,300	2,033	43.7	33.1	33.1	31.4	32.7
Cooking energy sources															
Natural gas	530	385	151	107	34	9,670	8,466	3,055	2,873	706	54.8	45.5	49.5	37.1	48.2
Other excluding natural gas	114	54	15	13	Q	2,914	2,162	455	510	Q	39.0	25.1	32.0	25.4	Q
Buildings without cooking	426	201	83	47	28	11,927	8,733	4,010	1,917	1,113	35.8	23.0	20.8	24.5	25.1
Energy end uses (more than one may apply)															
Buildings with space heating	1,070	639	242	155	63	24,480	19,352	7,355	4,945	1,997	43.7	33.0	32.8	31.4	31.4
Buildings with cooling	1,026	629	247	166	58	23,373	19,000	7,361	5,289	1,874	43.9	33.1	33.5	31.4	30.9
Buildings with water heating	1,055	627	245	165	64	23,974	18,620	7,254	5,231	1,940	44.0	33.7	33.8	31.5	33.1
Buildings with cooking	644	440	166	120	39	12,584	10,628	3,510	3,383	921	51.2	41.4	47.2	35.3	42.0
Buildings with manufacturing	68	19	Q	Q	Q	1,735	997	367	445	Q	39.0	18.6	Q	44.1	Q
Buildings with electricity generation	440	226	93	51	24	9,160	6,421	1,915	1,989	786	48.1	35.3	48.3	25.5	30.5
Percent of floorspace heated															
Not heated	Q	Q	Q	11	Q	Q	Q	Q	355	Q	Q	Q	Q	31.3	Q
1 to 50	30	33	41	9	Q	1,444	1,489	1,858	563	Q	20.8	22.0	22.2	15.7	Q
51 to 99	168	131	72	45	15	3,270	4,266	2,032	1,089	491	51.5	30.7	35.5	41.6	31.5
100	872	476	128	101	40	19,766	13,597	3,464	3,294	1,144	44.1	35.0	37.0	30.7	34.9
Percent of floorspace cooled															
Not cooled	45	12	2	Q	Q	1,138	361	158	Q	Q	39.4	33.9	12.0	Q	Q
1 to 50	245	97	51	10	6	6,303	3,785	1,900	693	350	38.8	25.7	26.7	13.9	16.5
51 to 99	316	190	79	44	22	6,836	6,109	2,242	1,229	690	46.2	31.2	35.4	35.5	31.5
100	465	341	117	113	30	10,234	9,105	3,220	3,367	835	45.5	37.4	36.3	33.5	36.4
Heating equipment (more than one may apply)															
Heat pumps	61	102	50	17	11	1,584	4,001	1,122	494	358	38.8	25.4	44.2	35.1	31.7
Furnaces	121	71	Q	15	Q	3,139	2,403	904	454	Q	38.4	29.4	33.0	33.2	Q
Individual space heaters	316	130	35	33	18	8,159	4,842	1,224	995	587	38.7	26.9	28.4	33.3	30.2
District heat	Q	Q	Q	Q	Q	1,074	1,483	Q	Q	Q	Q	Q	Q	Q	Q
Boilers	525	275	89	50	21	9,860	6,584	1,709	1,302	564	53.3	41.8	51.9	38.3	37.7
Packaged heating units	647	366	165	107	42	15,325	12,135	5,298	3,500	1,310	42.2	30.1	31.2	30.5	32.4
Other	32	Q	Q	Q	Q	591	Q	Q	Q	Q	53.5	Q	Q	Q	Q
Cooling equipment (more than one may apply)															
Residential-type central air conditioners	197	110	66	30	Q	4,739	3,346	1,538	783	Q	41.6	33.0	42.9	37.9	Q
Heat pumps	71	108	36	22	14	1,842	4,085	1,095	551	445	38.4	26.5	32.8	39.2	31.2
Individual air conditioners	185	129	25	18	Q	3,993	3,467	626	802	Q	46.3	37.2	40.0	22.8	Q
District chilled water	Q	Q	Q	Q	Q	820	1,224	170	194	Q	Q	Q	134.5	66.1	Q
Central chillers	290	171	56	48	19	5,752	4,526	1,230	1,727	510	50.4	37.8	45.3	28.0	36.9
Packaged air conditioning units	627	361	160	100	38	14,127	11,743	4,727	3,154	1,166	44.4	30.7	33.9	31.7	32.6
Swamp coolers	30	Q	26	Q	Q	545	Q	582	Q	Q	55.0	Q	44.1	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

Table C30. Natural gas consumption and conditional energy intensity by climate region, 2012

	Total natural gas consumption (billion cubic feet)					Total floorspace of buildings using natural gas (million square feet)					Natural gas energy intensity (cubic feet/square foot)				
	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine
All buildings	1,070	641	249	167	67	24,511	19,361	7,520	5,300	2,033	43.7	33.1	33.1	31.4	32.7
Main equipment replaced since 1990 (more than one may apply)															
Heating	371	248	73	57	22	8,831	6,974	2,789	1,725	739	42.0	35.6	26.1	33.3	29.3
Cooling	423	261	82	71	22	9,590	7,817	2,755	2,242	689	44.1	33.4	29.9	31.7	32.1
Water-heating equipment															
Centralized system	693	419	130	99	38	15,179	10,784	4,230	2,832	980	45.7	38.9	30.8	34.9	38.5
Distributed system	127	49	50	21	Q	3,427	2,299	1,275	933	Q	37.1	21.4	39.0	22.4	Q
Combination of centralized and distributed system	234	159	65	45	23	5,367	5,536	1,749	1,466	685	43.6	28.7	37.1	30.6	33.5
Food preparation or serving areas in non-food service buildings (more than one may apply)															
Snack bar or concession stand	182	92	38	33	10	3,283	2,630	839	844	271	55.6	35.1	45.2	38.5	37.5
Fast food or small restaurant	160	92	51	49	11	2,944	2,513	1,350	1,221	316	54.2	36.8	37.9	40.0	33.5
Cafeteria or large restaurant	259	193	59	45	16	4,911	5,239	1,073	1,495	325	52.8	36.9	54.6	30.3	49.7
Commercial kitchen/ food preparation area	317	205	67	50	18	5,862	4,702	1,403	1,763	352	54.0	43.6	47.8	28.3	51.5
Small kitchen area	223	110	31	27	8	4,820	3,527	1,102	1,154	279	46.3	31.3	27.8	23.3	26.9
HVAC conservation features (more than one may apply)															
Economizer cycle	524	254	124	57	33	11,676	7,198	3,058	1,615	1,137	44.8	35.3	40.4	35.0	29.0
Regular HVAC maintenance	965	553	221	149	55	21,395	16,426	6,449	4,755	1,666	45.1	33.6	34.2	31.3	33.1
Building automation system (BAS)[2]	531	262	150	99	31	11,678	8,783	3,369	2,934	1,056	45.4	29.9	44.5	33.7	29.8
Window and interior lighting features (more than one may apply)															
Multipaned windows	925	473	147	115	49	20,517	14,990	3,905	3,075	1,287	45.1	31.5	37.6	37.5	38.3
Tinted window glass	556	382	157	115	49	12,194	10,966	4,817	3,203	1,450	45.6	34.9	32.5	35.8	33.6
Reflective window glass	258	133	78	38	21	5,332	3,314	1,816	1,137	452	48.4	40.1	43.2	33.1	45.6
External overhangs or awnings	440	311	126	90	39	9,079	7,538	3,145	2,495	962	48.4	41.2	39.9	36.0	40.8
Skylights or atriums	305	185	81	60	32	6,592	5,361	2,460	1,494	838	46.3	34.6	32.8	40.5	38.5
Light scheduling	462	215	113	80	36	9,885	6,723	3,262	2,266	973	46.7	31.9	34.7	35.1	36.6
Occupancy sensors	558	237	117	85	44	12,241	7,515	3,245	2,703	1,268	45.6	31.5	36.1	31.5	35.0
Multi-level lighting or dimming	248	156	99	36	20	4,712	3,751	1,729	1,004	507	52.6	41.7	57.5	35.8	39.2
Daylight harvesting	94	40	34	17	Q	2,168	1,205	784	601	Q	43.4	33.4	43.7	28.2	Q
Demand responsive lighting	47	40	23	11	Q	1,216	1,124	973	268	Q	38.5	35.8	23.5	39.4	Q
Building automation system (BAS) for lighting[2]	182	64	44	24	12	4,128	2,540	1,357	990	386	44.1	25.1	32.8	24.2	31.9
Equipment usage reduced when building not in full use (more than one may apply)															
Heating	820	482	181	103	48	19,735	15,659	6,228	3,592	1,603	41.6	30.8	29.0	28.7	29.9
Cooling	787	470	185	116	45	18,722	15,340	6,201	4,017	1,447	42.0	30.7	29.9	29.0	30.9
Lighting	1,015	596	230	150	64	23,235	18,079	6,910	4,850	1,959	43.7	32.9	33.2	30.9	32.4

Table C30. Natural gas consumption and conditional energy intensity by climate region, 2012

	Total natural gas consumption (billion cubic feet)					Total floorspace of buildings using natural gas (million square feet)					Natural gas energy intensity (cubic feet/square foot)				
	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine	Very cold/ cold	Mixed-humid	Mixed-dry/ hot-dry	Hot-humid	Marine
All buildings	1,070	641	249	167	67	24,511	19,361	7,520	5,300	2,033	43.7	33.1	33.1	31.4	32.7
Annual consumption (hundred cubic feet)															
1,000 or less	21	17	8	4	1	1,757	2,491	1,649	906	Q	11.8	7.0	4.9	4.0	8.8
1,001 to 5,000	133	86	33	16	7	5,090	4,791	1,936	1,035	484	26.2	18.0	17.0	15.5	13.9
5,001 to 10,000	103	80	24	19	7	2,811	3,072	898	921	285	36.5	25.9	26.3	21.0	23.3
10,001 to 25,000	192	138	57	36	25	4,791	3,635	1,276	963	491	40.2	37.9	44.5	37.1	51.5
25,001 to 50,000	154	94	27	19	10	3,349	2,300	579	498	429	46.1	40.8	46.9	37.1	22.8
50,001 to 100,000	160	54	28	31	Q	3,061	1,235	476	455	Q	52.3	43.3	58.9	68.3	Q
Over 100,000	307	173	72	42	Q	3,652	1,836	705	523	Q	84.0	94.1	102.4	80.6	Q

[1]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).

[2]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 Cof the 2012 Commercial Buildings Energy Consumption Survey.