Table C27. Natural gas consumption and conditional energy intensity by census division (part 1), 2018

**Total floorspace of** 

Natural gas

Total natural gas

	consumption	-		nuildings usi	ng natural ga		nergy inten	city	
	(billion cubic			million squa	-		cubic feet/s	-	
	(0						,		
	New	Middle	East North	New	Middle	East North	New	Middle	East North
	England	Atlantic	Central	England	Atlantic	Central	England	Atlantic	Central
All buildings	75	334	580	1,861	9,470	14,491	40.5	35.2	40.1
Building floorspace (square feet)									
1,001 to 5,000	Q	16	51	Q	295	870	Q	54.3	59.0
5,001 to 10,000	Q	19	69	Q	505	1,232	Q	37.1	56.1
10,001 to 25,000	Q	37	83	Q	1,004	2,120	Q	37.0	39.3
25,001 to 50,000	Q	47	102	Q	1,237	2,482	Q	38.0	40.9
50,001 to 100,000	14	52	85	355	1,342	2,330	39.0	38.8	36.3
100,001 to 200,000	15	65	62	376	1,808	1,661	39.2	36.0	37.2
200,001 to 500,000	9	61	84	219	1,774	2,249	41.7	34.4	37.3
Over 500,000	Q	37	45	Q	1,505	1,547	Q	24.3	29.0
Principal building activity									
Education	12	67	92	343	1,551	2,237	35.0	42.9	41.2
Food sales	N	Q	19	N	Q	225	N	Q	84.6
Food service	Q	Q	38	Q	Q	186	Q	Q	206.6
Health care	8	31	46	144	523	802	53.5	59.5	57.8
Inpatient	Q	23	39	Q	258	569	Q	88.4	68.5
Outpatient	Q	8	7	Q	265	234	Q	31.4	31.6
Lodging	Q	25	44	Q	579	995	Q	43.7	44.1
Mercantile	Q	37	77	Q	940	1,708	Q	39.1	45.2
Retail (other than mall)	Q	7	22	Q	272	852	Q	24.0	25.9
Enclosed and strip malls	Q	30	55	Q	669	856	Q	45.2	64.4
Office	5	43	58	292	2,030	2,380	18.2	21.0	24.5
Public assembly	Q	34	65	Q	617	1,269	Q	54.9	51.3
Public order and safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious worship	Q	Q	22	Q	Q	783	Q	Q	27.7
Service	Q	18	35	Q	492	845	Q	36.1	40.9
Warehouse and storage	Q	30	70	Q	1,550	2,519	Q	19.6	27.7
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year constructed									
Before 1920	Q	23	23	Q	709	722	Q	31.9	32.0
1920 to 1945	Q	40	38	Q	1,102	1,243	Q	36.2	31.0
1946 to 1959	Q	45	39	Q	1,091	747	Q	41.0	52.8
1960 to 1969	Q	51	81	Q	1,326	1,906	Q	38.8	42.5
1970 to 1979	Q	50	80	Q	1,424	2,054	Q	35.1	39.0
1980 to 1989	16	34	55	337	1,085	1,383	47.1	31.4	39.6
1990 to 1999	9	36	81	277	967	2,148	32.8	37.4	37.7
2000 to 2009	15	33	122	448	1,114	2,779	34.4	29.8	44.0
2010 to 2018	Q	21	60	Q	652	1,509	Q	32.8	39.9
Climate zone <sup>a</sup>									
Cold or very cold	Q	Q	71	Q	Q	1,936	Q	Q	36.5
Cool	64	116	408	1,594	3,171	9,975	40.4	36.5	40.9
Mixed mild	Q	210	102	Q	6,145	2,580	40.0	34.2	39.6
Warm	N	N	N	N	N	N	N	N	N
Hot or very hot	N	N	N	N	N	N	N	N	N
·									

Table C27. Natural gas consumption and conditional energy intensity by census division (part 1), 2018

**Total floorspace of** Total natural gas Natural gas consumption buildings using natural gas energy intensity (billion cubic feet) (million square feet) (cubic feet/square foot) **East East** East New Middle North New Middle North New Middle North **England Atlantic** Central **England Atlantic** Central **England Atlantic** Central All buildings 75 334 580 1,861 9,470 14,491 40.5 35.2 40.1 **Number of floors** 24 90 282 411 2,550 5,911 57.4 35.5 47.7 2 34.0 14 83 135 315 2,336 3,973 44.3 35.5 3 16 52 67 483 1,242 2,004 33.9 42.0 33.6 4 to 9 17 75 74 521 2,157 1,793 33.3 34.9 41.1 Q 33 22 Q Q 10 or more 1,184 809 27.7 27.6 Number of workers (main shift) Fewer than 5 Q 44 92 Q 1,246 2,397 Q 35.5 38.2 5 to 9 Q 21 64 Q 586 1,598 Q 36.2 40.3 Q 30 88 850 2,046 Q 35.2 43.3 10 to 19 Q 20 to 49 14 48 107 270 1,209 2,495 50.8 39.9 43.0 40.8 40.2 50 to 99 15 60 80 356 1,525 1,992 39.2 100 to 249 17 69 90 415 1.981 2.252 41.9 34.8 39.9 250 or more 7 61 59 215 2,073 1,711 32.3 29.6 34.3 Weekly operating hours Fewer than 40 Q 29 45 Q 833 1,417 Q 34.7 31.9 40 to 48 12 36 91 416 2,782 29.9 32.0 32.7 1,139 49 to 60 9 124 425 2,305 3,291 21.2 29.3 37.8 68 61 to 84 16 100 266 41.1 66 1,853 2,421 59.2 35.8 85 to 167 Q 52 85 Q 1,231 1,867 Q 42.4 45.7 Open continuously 23 82 135 435 2,108 2,712 52.3 38.9 49.7 Ownership and occupancy 57 7,376 40.8 41.0 Nongovernment owned 242 463 1,399 11,294 32.8 Owner occupied 34 137 292 929 4,211 7,185 36.2 32.6 40.6 Leased to tenant or tenants 23 102 170 462 3,079 4,091 50.5 33.3 41.6 Unoccupied Q Q Q Q Q Q Q Q Q Government owned 18 92 118 463 2,094 3,197 39.7 43.9 36.8 Q Federal Q Q Q Q Q Q Q Q State Q 29 26 Q 618 853 Q 46.8 31.1 42.4 Local 12 56 85 284 1,319 2,147 41.0 39.7 Party responsible for operation of energy systems 1,531 **Building** owner 56 278 467 7,883 12,032 36.5 35.2 38.9 Q 48 96 Q 1,325 1,803 Q 36.1 53.2 Business owner or tenant Property management Q Q Q Q Q Q Q Q Q Other Q Q 11 Q 400 Q 27.2 Q Q Provider of direct input on energyrelated equipment purchases

62

Q

Q

Q

**Building** owner

Other

Business owner or tenant

Property management

290

26

Q

15

499

57

Q

21

1,581

Q

Q

Q

8,194

837

313

Q

12,678

1,022

Q

663

39.2

Q

Q

Q

35.4

31.4

46.4

Q

39.3

55.5

31.0

Q

Table C27. Natural gas consumption and conditional energy intensity by census division (part 1), 2018

Total floorspace of buildings using natural gas (million square feet)

Natural gas energy intensity (cubic feet/square foot)

	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	75	334	580	1,861	9,470	14,491	40.5	35.2	40.1
Number of establishments									
1	49	223	395	1,187	5,732	10,279	41.1	38.9	38.4
2 to 5	12	56	106	313	1,765	2,458	37.4	31.9	42.9
6 to 10	Q	19	39	Q	755	809	Q	25.6	48.2
11 to 20	Q	17	22	Q	482	435	Q	36.3	50.9
More than 20	Q	15	Q	Q	630	455	Q	23.3	40.0
Currently unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant exterior wall material									
Brick, stone, or stucco	32	203	322	884	5,350	7,005	36.1	38.0	46.0
Concrete (block or poured)	21	85	116	459	2,375	3,000	46.7	35.9	38.5
Concrete panels	Q	12	44	Q	535	1,578	Q	23.3	28.0
Siding or shingles	Q	9	31	Q	253	842	Q	36.0	36.4
Metal panels	Q	13	51	Q	458	1,499	Q	28.4	34.3
Window glass	Q	6	8	Q	257	273	Q	24.3	29.1
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant roof material									
Metal surfacing	Q	23	81	Q	702	2,112	Q	32.5	38.1
Synthetic or rubber	44	173	220	1,109	4,601	5,252	39.3	37.6	41.9
Built-up	12	66	130	262	2,351	3,288	47.2	28.1	39.4
Slate or tile shingles	Q	15	27	Q	335	530	Q	44.3	50.6
Wooden materials (including									
shingles)	Q	Q	Q	Q	Q	Q	Q	Q	Q
Asphalt, fiberglass, or									
other shingles	Q	35	98	Q	931	2,688	Q	37.9	36.6
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	12	12	Q	335	318	Q	37.2	38.0
Roof tilt									
Flat	53	244	349	1,247	7,171	8,193	42.8	34.0	42.5
Shallow pitch	11	54	162	311	1,383	4,328	34.3	38.9	37.4
Steeper pitch	11	36	70	303	916	1,970	37.4	39.2	35.5
Cool roof characteristics (more than one may apply)									
White or reflective coating or paint	16	106	177	436	2,710	4,051	35.8	39.1	43.6
White or reflective tiles or shingles	Q	Q	12	Q	Q	383	Q	Q	32.7
Aluminum coating	Q	15	25	Q	467	595	Q	31.6	41.8
Ballasted roof system	Q	33	58	Q	983	1,489	Q	33.8	38.9
Other cool roof property	Q	Q	Q	Q	Q	Q	Q	Q	Q

Table C27. Natural gas consumption and conditional energy intensity by census division (part 1), 2018

All buildings

**Renovations since 2000** (more than one may apply) Any type of renovation

Addition or annex

Total natural gas **Total floorspace of** Natural gas buildings using natural gas energy intensity consumption (billion cubic feet) (million square feet) (cubic feet/square foot) East East East New Middle North New Middle North New Middle North **England Atlantic** Central **England Atlantic** Central **England Atlantic** Central 75 334 580 1,861 9,470 14,491 40.5 35.2 40.1 38 197 304 852 5,173 7,783 45.1 38.1 39.1 13 57 106 89.4 50.5 43.2 144 1,131 2,451

radition of armex	10	3,	100		1,101	2,731	05.4	50.5	13.2
Reduction in floorspace	Q	13	14	Q	279	459	Q	45.6	30.3
Roof replacement	16	112	151	326	2,817	3,726	50.3	39.9	40.6
Interior wall reconfiguration	19	87	148	441	2,626	4,159	43.9	33.2	35.6
Window replacement	13	67	74	249	1,698	2,138	54.2	39.7	34.4
HVAC equipment upgrade	32	146	187	700	3,904	4,596	46.1	37.3	40.6
Lighting upgrade	31	135	203	683	3,709	5,300	44.9	36.3	38.4
Electrical upgrade	23	95	118	465	2,471	3,073	49.9	38.6	38.4
Plumbing system upgrade	19	92	100	425	2,418	2,609	44.6	38.0	38.3
Insulation upgrade	Q	55	53	Q	1,495	1,422	Q	37.0	37.2
Fire, safety, or security upgrade	26	117	146	536	2,795	3,590	48.4	41.7	40.6
Structural upgrade	Q	33	27	Q	739	846	Q	45.2	32.5
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No renovations	35	121	233	944	3,785	5,559	36.8	31.9	41.9
Buildings constructed 2013 or later	Q	16	43	Q	512	1,148	Q	30.8	37.9
Energy sources (more than one may apply)									
Electricity	75	334	580	1,861	9,470	14,491	40.5	35.2	40.1
Natural gas	75	334	580	1,861	9,470	14,491	40.5	35.2	40.1
Fuel oil	31	89	92	707	2,854	2,448	43.7	31.3	37.6
District heat	Q	21	14	Q	859	983	Q	24.6	14.7
District chilled water	Q	6	9	Q	223	532	Q	28.3	17.8
Propane	Q	33	30	Q	871	849	Q	38.2	35.5
Solar	6	22	14	208	896	393	29.7	24.8	35.4
Wood, coal, and other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Space-heating energy sources									
Natural gas	67	311	550	1,654	8,331	13,385	40.5	37.3	41.1
Natural gas main	60	291	521	1,430	7,463	12,096	41.9	39.0	43.1
Natural gas secondary	Q	20	29	Q	868	1,289	Q	23.0	22.5
Other excluding natural gas	9	23	30	208	1,118	1,101	40.9	20.3	27.4
Buildings without heating	N	Q	Q	N	Q	Q	N	Q	Q
Primary space-heating energy source									
Electricity	11	24	46	285	1,006	1,488	38.8	23.8	30.9
Natural gas	60	291	521	1,430	7,463	12,096	41.9	39.0	43.1
Fuel oil	Q	Q	N	Q	232	N	Q	15.9	N
District heat	Q	15	13	Q	749	888	Q	20.2	14.5
Propane	N	N	N	N	N	N	N	N	N
Other sources <sup>b</sup>	N	N	Q	N	N	Q	N	N	Q

Table C27. Natural gas consumption and conditional energy intensity by census division (part 1), 2018

Total floorspace of buildings using natural gas (million square feet)

Natural gas energy intensity (cubic feet/square foot)

	·	•	·	•	•	,	•	. ,	
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	75	334	580	1,861	9,470	14,491	40.5	35.2	40.1
Cooling energy sources									
Natural gas	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other excluding natural gas	72	315	547	1,747	8,997	13,635	41.2	35.0	40.1
Buildings without cooling	Q	Q	27	Q	Q	715	Q	Q	37.4
Water-heating energy sources									
Natural gas	54	240	458	1,124	5,854	10,193	47.6	41.1	44.9
Other excluding natural gas	21	88	117	713	3,385	4,118	29.3	26.0	28.4
Buildings without water heating	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooking energy sources									
Natural gas	45	194	287	819	4,396	5,337	54.5	44.2	53.8
Other excluding natural gas	10	27	79	343	924	2,271	28.3	29.3	34.8
Buildings without cooking	21	112	214	699	4,150	6,882	30.1	27.1	31.1
Energy end uses (more than one may apply)									
Buildings with space heating	75	334	580	1,861	9,449	14,487	40.5	35.3	40.1
Buildings with cooling	74	324	554	1,787	9,141	13,775	41.6	35.5	40.2
Buildings with water heating	74	328	575	1,837	9,238	14,311	40.5	35.6	40.2
Buildings with cooking	54	221	366	1,162	5,320	7,608	46.8	41.6	48.1
Buildings with manufacturing	Q	24	58	Q	748	1,274	Q	31.6	45.7
Buildings with electricity									
generation	46	155	207	1,066	4,271	4,783	42.8	36.4	43.3
Buildings with lighting	75	333	579	1,861	9,448	14,453	40.5	35.3	40.1
Percentage of floorspace heated									
Not heated	N	Q	Q	N	Q	Q	N	Q	Q
1% to 50%	Q	14	22	Q	668	975	Q	21.4	22.7
51% to 99%	24	63	114	617	1,791	2,736	38.3	35.2	41.5
100%	50	256	445	1,208	6,990	10,776	41.5	36.7	41.3
Percentage of floorspace cooled									
Not cooled	Q	Q	27	Q	Q	715	Q	Q	37.4
1% to 50%	11	79	103	288	2,214	3,423	36.5	35.8	30.1
51% to 99%	39	113	179	878	3,208	4,439	44.3	35.2	40.3
100%	25	132	272	620	3,719	5,913	40.2	35.5	46.0
Heating equipment									
(more than one may apply)									
Packaged heating units	44	164	337	975	4,466	7,805	45.2	36.8	43.1
Furnaces	Q	68	166	Q	1,606	4,183	Q	42.5	39.6
Individual space heaters	19	85	142	366	2,374	3,808	52.9	36.0	37.4
Boilers	38	203	257	972	4,947	5,563	39.4	41.0	46.2
Heat pumps	13	62	74	333	1,698	1,711	38.8	36.5	43.1
District heat	Q	18	13	Q	815	907	Q	22.0	14.4
Duct reheat	Q	21	39	Q	591	863	Q	35.6	45.2
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q

Table C27. Natural gas consumption and conditional energy intensity by census division (part 1), 2018

Total floorspace of buildings using natural gas (million square feet)

Natural gas energy intensity (cubic feet/square foot)

	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	75	334	580	1,861	9,470	14,491	40.5	35.2	40.1
Cooling equipment (more than one may apply)									
Packaged air-conditioning units	56	232	397	1,343	6,164	8,844	41.5	37.6	44.9
Residential-type central air									
conditioners	21	73	151	421	1,767	4,019	49.5	41.1	37.7
Individual air conditioners	27	90	98	459	2,142	2,261	59.2	42.1	43.3
Central chillers	15	99	120	382	2,708	3,023	39.2	36.4	39.8
Heat pumps	11	47	37	309	1,466	954	34.6	31.8	39.2
District chilled water	Q	6	9	Q	223	532	Q	28.3	17.8
Swamp coolers	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	N	N	N	N	N	N	N	N	N
HVAC features (more than one may apply)									
Economizer cycle	39	168	263	1,024	4,618	6,204	37.8	36.4	42.4
Variable air volume (VAV) system	27	121	201	721	3,652	5,072	37.4	33.1	39.7
Dedicated outside air system (DOAS)	8	56	54	190	1,151	1,245	42.9	49.1	43.0
Demand controlled ventilation (DCV)	13	65	59	371	1,879	1,667	36.1	34.5	35.2
Regular HVAC maintenance	69	297	507	1,645	8,285	12,135	42.1	35.8	41.8
Building automation system (BAS)									
controls heating or cooling	45	169	269	1,100	4,979	6,413	41.2	34.0	42.0
Internet-connected or smart									
thermostat	Q	16	21	Q	386	815	Q	41.2	25.7
Programmable thermostat	17	88	144	381	2,315	3,406	44.7	37.9	42.4
Main equipment replaced since									
2000 (more than one may apply)	44	1.10	227	047	2.044	F F63	50.2	27.7	40.0
Heating	41	149	227	817	3,941	5,562	50.2	37.7	40.8
Cooling	24	133	158	558	3,544	4,008	43.6	37.5	39.4
Water-heating equipment									
Centralized system	52	225	402	1,290	5,852	10,332	40.1	38.4	38.9
Distributed system	Q	58	84	242	1,992	1,763	39.6	29.3	47.7
Combination of centralized and									
distributed systems	13	46	89	305	1,394	2,216	43.1	32.6	40.0
Generation technologies									
(more than one may apply)	39	134	181	877	2 504	4,203	44.0	37.4	43.1
Reciprocating engine generators					3,594				
Solar panels Other generation technology	6	22	14	204	896	393	29.9	24.8	35.4
Other generation technology	Q	15	Q	Q	306	Q	Q	48.0	Q

Table C27. Natural gas consumption and conditional energy intensity by census division (part 1), 2018

Total floorspace of buildings using natural gas (million square feet)

Natural gas energy intensity (cubic feet/square foot)

		· ·	-	-		-			
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	75	334	580	1,861	9,470	14,491	40.5	35.2	40.1
Food preparation or serving areas in non-food service buildings (more than one may apply)									
Snack bar, concession stand, or coffee									
shop	11	53	85	222	1,171	1,862	50.7	45.1	45.4
Fast food or small restaurant	Q	57	91	Q	1,192	1,880	Q	48.2	48.2
Cafeteria or large restaurant	17	84	116	424	2,200	2,832	39.6	38.0	40.8
Commercial kitchen or									
food preparation area	25	113	154	437	2,469	3,215	58.1	45.9	47.8
Small kitchen area	19	94	153	531	2,428	3,888	35.2	38.9	39.5
Annual consumption									
(hundred cubic feet)									
1,000 or less	Q	3	10	Q	292	640	Q	11.1	15.1
1,001 to 5,000	Q	36	86	Q	1,329	3,058	Q	27.1	28.1
5,001 to 10,000	Q	36	77	Q	1,236	2,118	Q	29.0	36.2
10,001 to 25,000	17	48	112	434	1,630	2,800	38.5	29.2	40.1
25,001 to 50,000	15	54	108	339	1,884	2,045	45.1	28.5	52.6
50,001 to 100,000	10	68	60	205	1,436	1,400	49.7	47.7	43.2
Over 100,000	17	89	128	282	1,662	2,431	61.2	53.4	52.5

Data source: U.S. Energy Information Administration, Forms EIA-871A and C of the 2018 Commercial Buildings Energy Consumption Survey

Notes: Because of rounding, data may not sum to totals. The *Guide to the 2018 CBECS Tables* and *CBECS Terminology* contain definitions of terms used in these tables and comparisons between previous CBECS tables. You can access both references from http://www.eia.gov/consumption/commercial/data/2018/. Data are sample survey estimates with relative standard errors published in a tab on the Excel worksheet for this table.

Estimates in the *energy end uses* category represent total consumption in buildings that have the end use but not the consumption specifically for that end use. HVAC = Heating, ventilation, and air conditioning.

<sup>&</sup>lt;sup>a</sup>Climate zones are based on ASHRAE Standard 169-2021; see https://www.eia.gov/consumption/commercial/maps.php#defined.

<sup>&</sup>lt;sup>b</sup>Other sources includes wood, coal, solar, and all other energy sources.

Q = Data withheld either because the relative standard error was greater than 50% or the reporting sample had fewer than 20 buildings.

N = No buildings in reporting sample.

	RSEs for tota consumption	_			l floorspace o		RSEs for natu	•	
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	12.6	7.4	9.7	11.8	9.6	9.3	5.1	5.8	3.1
Building floorspace (square feet)									
1,001 to 5,000	35.9	28.0	20.2	40.1	17.6	26.0	21.1	20.4	10.0
5,001 to 10,000	38.5	22.8	18.4	41.4	20.9	16.3	61.6	10.5	9.8
10,001 to 25,000	34.9	17.4	19.2	28.4	18.9	18.0	17.7	10.5	6.9
25,001 to 50,000	31.5	17.6	13.9	24.3	15.2	13.4	31.1	10.5	7.3
50,001 to 100,000	42.3	11.8	18.5	39.4	11.2	17.6	7.6	8.2	10.1
100,001 to 200,000	36.7	16.9	17.7	25.0	16.2	15.8	16.4	9.2	9.1
200,001 to 500,000	34.5	11.7	12.9	26.6	13.3	14.2	17.7	10.9	6.4
Over 500,000	18.7	22.4	14.9	35.9	16.8	19.3	54.2	16.1	18.8
Principal building activity									
Education	25.8	13.2	15.1	27.0	14.2	13.1	9.7	6.5	4.3
Food sales	0.0	43.3	32.3	0.0	42.3	31.9	0.0	4.4	5.3
Food service	65.9	50.9	21.8	57.4	39.2	16.5	40.7	36.3	12.2
Health care	31.8	20.7	15.5	28.4	17.1	15.4	28.0	10.7	9.9
Inpatient	43.8	25.4	15.9	36.9	23.5	18.1	17.1	7.5	13.5
Outpatient	40.5	20.6	29.9	42.2	22.7	27.6	26.5	14.1	13.6
Lodging	34.2	17.7	18.5	28.0	21.4	17.7	24.1	13.1	11.0
Mercantile	52.2	31.4	22.0	42.2	20.1	22.8	17.8	15.8	11.1
Retail (other than mall)	54.2	20.1	32.3	42.3	24.1	31.4	27.4	17.4	8.4
Enclosed and strip malls	53.1	36.9	24.5	46.0	28.5	20.1	15.3	15.5	12.3
Office	19.0	17.6	15.6	24.6	16.6	14.2	17.8	11.0	10.9
Public assembly	34.3	19.7	17.3	21.9	21.4	16.0	20.4	16.6	7.8
Public order and safety	50.4	45.4	45.4	54.6	35.2	45.2	21.7	19.8	39.8
Religious worship	54.9	37.1	22.3	60.2	38.2	23.4	44.4	8.5	12.3
	45.8	23.1	23.5		21.8				
Service Warehouse and storage				34.6		22.8	30.5	14.8	13.0
Warehouse and storage	45.1	20.5	18.6	48.6	21.1	16.2	10.1	8.7	8.4
Other	65.1 95.3	41.7 59.9	55.4 35.2	68.0 71.1	37.2 64.0	46.9 37.8	9.4 86.1	14.3 20.4	32.0 9.7
	33.3	33.3	33.2	71.1	04.0	37.0	30.1	20.4	J.7
Year constructed									
Before 1920	27.6	30.4	21.7	17.9	27.3	18.7	25.0	13.7	16.7
1920 to 1945	37.4	18.7	19.0	35.7	17.0	24.8	28.9	17.1	21.4
1946 to 1959	24.7	19.7	21.2	24.3	20.9	20.8	10.5	8.4	12.5
1960 to 1969	44.8	13.5	15.7	30.9	14.6	14.3	26.1	10.1	5.3
1970 to 1979	28.7	20.5	14.8	46.1	18.6	12.4	42.8	15.1	8.7
1980 to 1989	38.2	20.1	16.4	20.8	15.6	16.7	32.2	14.0	8.6
1990 to 1999	27.0	18.8	18.6	21.7	18.1	15.5	22.0	11.3	9.0
2000 to 2009	20.0	11.6	12.8	24.1	16.7	12.8	15.0	15.8	4.8
2010 to 2018	16.6	20.1	18.8	20.5	24.6	20.9	18.5	12.8	7.0
Climate zone <sup>a</sup>									
Cold or very cold	93.5	58.4	47.5	96.1	59.4	46.2	17.4	2.6	6.3
Cool	19.5	23.1	14.4	18.6	24.1	14.2	5.9	9.7	4.2
Mixed mild	70.6	10.8	39.0	70.5	12.4	37.5	1.1	7.0	5.9
Warm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hot or very hot	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	RSEs for total natural gas consumption								
	_		North			North	_		East North Central
All buildings	12.6	7.4	9.7	11.8	9.6	9.3	5.1	5.8	3.1
Number of floors									
1	34.7	10.9	10.6	19.6	13.4	11.6	26.9	9.8	4.4
2	28.8	14.6	19.0	19.6	14.2	14.6	12.1	8.0	6.5
3	29.4	17.6	20.8	32.4	19.0	20.7	19.2	12.4	7.7
4 to 9	40.5	14.9	14.0	26.1	13.8	14.1	20.6	7.9	7.4
10 or more	37.0	16.7	12.2	34.1	19.1	36.2	26.6	11.6	43.6
Number of workers (main shift)									
Fewer than 5	28.8	21.3	15.2	31.2	23.3	16.0	26.3	6.9	7.9
5 to 9	34.0	25.2	22.2	45.0	17.7	24.5	20.0	24.0	8.3
10 to 19	74.2	15.8	20.7	64.4	16.4	23.4	24.6	14.6	9.2
20 to 49	22.0	12.3	13.3	15.3	12.4	12.5	17.9	9.3	7.7
50 to 99	35.7	16.1	17.4	25.1	15.4	15.8	12.5	10.1	6.4
100 to 249	37.8	13.7	15.8	41.0	17.4	11.6	9.9	10.6	9.0
250 or more	31.7	12.5	10.3	22.9	12.9	17.1	24.6	8.4	19.2
Weekly operating hours									
Fewer than 40	52.7	25.9	17.9	52.5	29.8	12.6	18.4	6.6	9.8
40 to 48	34.0	22.6	15.5	31.1	19.7	12.3	11.4	10.0	7.5
49 to 60	27.4	11.4	19.9	31.5	11.9	16.5	14.5	4.3	9.2
61 to 84	23.3	17.0	13.5	16.3	14.6	12.8	15.0	12.2	7.9
85 to 167	47.7	13.3	17.0	44.5	11.3	14.3	10.6	12.1	9.1
Open continuously	21.5	8.9	12.9	16.8	13.0	13.4	12.9	7.3	6.1
Ownership and occupancy									
Nongovernment owned	14.9	9.6	9.8	13.3	10.9	10.1	6.3	7.3	4.1
Owner occupied	16.6	12.2	9.3	14.4	14.4	9.0	13.2	6.7	5.0
Leased to tenant or tenants	33.7	13.1	15.6	21.4	12.5	14.4	23.5	10.7	5.2
Unoccupied	71.8	78.7	74.6	71.8	78.5	76.5	0.0	18.6	55.1
Government owned	20.2	10.9	13.2	22.4	12.8	13.0	7.2	4.0	4.8
Federal	60.5	37.8	38.0	54.1	45.2	35.1	44.7	16.5	10.9
State	26.4	30.0	28.0	34.9	30.1	29.3	20.1	6.4	12.4
Local	23.5	14.0	12.9	19.5	14.4	11.1	6.9	4.8	4.4
Party responsible for operation of energy systems									
Building owner	11.4	8.4	10.3	11.9	10.3	10.1	9.3	5.5	3.7
Business owner or tenant	48.3	26.2	21.1	27.1	22.2	20.3	33.2	12.0	7.4
Property management	59.7	38.3	43.0	62.4	30.4	43.4	9.0	18.2	33.3
Other	75.2	38.3	43.0 15.9	38.2	35.7	15.9	9.0 48.5	15.5	11.8
Provider of direct input on energy- related equipment purchases	/3.2	<b>30.U</b>	13.3	30.2	<b>33.</b> /	13.3	40.3	13.3	11.8
Building owner	16.0	8.4	10.7	13.5	10.4	10.2	6.6	5.4	3.5
Business owner or tenant	32.9	25.9	18.4	8.7	21.0	18.4	28.7	16.5	10.1
Property management	70.6	51.4	58.4	70.6	35.6	56.0	0.0	32.0	18.5
Other	46.7	33.5	22.2	20.5	34.8	18.9	41.2	18.5	15.5

	RSEs for tota consumption	Ū	RSEs for total floorspace of RSEs for natural gas buildings using natural gas energy intensity						
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	12.6	7.4	9.7	11.8	9.6	9.3	5.1	5.8	3.1
Number of establishments									
1	12.5	8.0	10.1	13.6	11.4	9.9	4.3	6.4	5.1
2 to 5	43.6	19.2	15.7	30.9	18.2	12.1	28.3	7.1	9.3
6 to 10	40.5	22.9	29.4	34.9	23.5	26.0	11.8	18.0	9.9
11 to 20	66.3	34.8	23.4	41.6	25.4	17.1	42.2	17.9	11.1
More than 20	51.6	20.9	53.4	51.7	19.0	31.9	43.4	20.3	33.4
Currently unoccupied	71.8	62.6	42.7	71.8	67.1	39.6	0.0	21.9	18.8
Predominant exterior wall material									
Brick, stone, or stucco	20.4	8.9	10.1	10.0	11.4	10.1	15.3	6.9	4.4
Concrete (block or poured)	26.3	13.3	18.5	26.1	13.2	19.1	19.0	10.8	11.9
Concrete panels	45.8	28.6	29.0	55.0	29.7	25.9	31.8	17.9	5.8
Siding or shingles	32.1	27.9	22.7	34.5	30.3	23.4	12.1	11.5	17.1
Metal panels	38.1	30.0	20.5	22.0	26.1	17.9	23.6	16.9	10.9
Window glass	63.2	38.6	41.4	43.6	40.5	24.3	57.2	8.7	25.0
Other	92.3	52.3	50.0	92.8	47.0	48.8	6.0	15.6	12.7
Predominant roof material									
Metal surfacing	62.6	25.1	14.3	38.6	24.4	17.0	44.8	9.0	10.2
Synthetic or rubber	18.7	10.3	9.1	16.5	10.9	9.1	10.4	7.1	5.6
Built-up	36.4	9.2	18.1	36.2	11.7	15.7	9.9	9.5	8.6
Slate or tile shingles	40.6	37.4	38.2	36.5	23.6	37.0	12.3	24.6	9.7
Wooden materials (including					/				
shingles)	83.7	59.3	51.2	98.4	59.1	55.5	112.7	2.1	30.8
Asphalt, fiberglass, or									
other shingles	29.9	10.6	16.2	37.5	17.0	16.2	15.1	13.8	5.5
Concrete	81.6	30.5	52.5	83.9	20.0	43.8	5.1	25.6	42.2
Other	57.3	27.3	31.1	58.1	21.4	20.8	1.2	14.5	35.0
Roof tilt									
Flat	19.0	7.6	10.3	18.3	9.4	8.7	9.2	6.1	5.1
Shallow pitch	25.5	15.3	13.9	30.6	15.1	16.6	16.2	11.0	7.0
Steeper pitch	16.6	22.7	13.8	19.0	26.6	13.6	10.9	9.2	5.2
Cool roof characteristics (more than or	ne								
may apply)									
White or reflective coating or paint	15.9	11.4	11.5	19.4	12.0	11.5	11.6	8.7	4.6
White or reflective tiles or shingles	65.7	38.1	29.4	48.0	25.3	26.7	41.0	28.4	13.9
Aluminum coating	48.8	31.0	29.1	54.4	19.2	34.5	99.4	21.5	13.5
Ballasted roof system	26.8	14.2	23.9	26.7	13.9	22.9	29.6	7.9	7.4
Other cool roof property	54.6	55.9		36.5	49.7				21.6

	RSEs for tota consumption	_			I floorspace on		RSEs for natural gas energy intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	12.6	7.4	9.7	11.8	9.6	9.3	5.1	5.8	3.1
Renovations since 2000									
(more than one may apply)									
Any type of renovation	10.7	9.0	8.8	13.7	9.8	9.8	11.8	5.8	4.6
Addition or annex	35.7	14.8	16.0	32.0	13.2	16.5	21.2	8.9	7.2
Reduction in floorspace	109.9	45.3	33.4	74.3	34.6	29.6	181.1	31.9	19.2
Roof replacement	21.8	13.3	9.8	19.4	12.7	9.9	11.5	7.7	6.6
Interior wall reconfiguration	31.3	17.7	11.0	24.0	15.0	10.0	12.1	10.1	6.5
Window replacement	26.3	14.4	11.2	16.3	12.0	14.5	18.8	9.7	12.1
HVAC equipment upgrade	12.7	12.3	8.6	16.0	12.1	9.0	14.6	7.4	4.9
Lighting upgrade	9.1	12.1	11.0	16.3	12.2	9.1	12.4	7.3	4.2
Electrical upgrade	18.5	13.9	13.0	23.9	13.5	12.6	16.7	9.9	9.3
Plumbing system upgrade	27.0	15.4	11.4	27.8	15.2	16.2	13.6	9.8	14.0
Insulation upgrade	41.8	18.7	14.6	41.5	19.3	20.0	11.8	14.9	19.9
Fire, safety, or security upgrade	21.8	11.0	13.6	20.8	12.6	11.1	10.8	8.4	8.7
Structural upgrade	67.6	22.1	14.2	48.5	18.9	27.4	37.3	18.6	35.2
Other	78.4	33.0	58.8	74.9	32.3	59.7	32.9	14.4	18.2
No renovations	26.1	9.9	13.4	25.5	13.0	11.7	7.6	8.0	3.2
Buildings constructed 2013 or later	47.4	27.0	23.3	44.0	29.5	22.7	22.0	14.6	9.7
Energy sources (more than one may apply)									
Electricity	12.6	7.4	9.7	11.8	9.6	9.3	5.1	5.8	3.1
Natural gas	12.6	7.4	9.7	11.8	9.6	9.3	5.1	5.8	3.1
Fuel oil	27.6	12.2	14.7	19.9	14.2	16.5	12.3	8.3	11.9
District heat	47.2	20.0	23.1	49.2	14.2	30.2	46.3	22.4	36.7
District chilled water	51.6	34.3	45.7	52.3	29.5	29.5	36.2	32.2	34.1
Propane	76.1	21.4	21.7	49.9	23.3	24.9	44.1	8.4	10.3
Solar	24.0	35.2	32.2	21.8	31.5	23.2	10.6	12.7	19.8
Wood, coal, and other	80.1	46.6	42.5	68.3	56.3	38.7	60.6	35.2	25.6
Space-heating energy sources									
Natural gas	11.7	7.6	9.8	11.6	10.1	10.0	4.9	6.0	3.3
Natural gas main	13.5	7.8	10.1	10.4	9.9	11.0	5.2	5.9	3.0
Natural gas secondary	24.5	19.7	21.4	35.1	17.8	21.1	34.8	9.8	25.6
Other excluding natural gas	40.0	21.4	24.2	30.7	15.6	17.2	32.1	20.8	17.6
Buildings without heating	0.0	51.2	70.5	0.0	51.2	70.5	0.0	0.0	0.0
Primary space-heating energy source									
Electricity	35.0	21.5	17.7	31.7	20.2	12.3	21.0	9.7	13.0
Natural gas	13.5	7.8	10.1	10.4	9.9	11.0	5.2	5.9	3.0
Fuel oil	93.0	62.4	0.0	78.9	39.8	0.0	78.7	45.8	0.0
District heat	47.5	28.1	23.2	51.6	20.4	32.5	49.0	25.4	43.0
Propane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other sources <sup>b</sup>	0.0	0.0	41.2	0.0	0.0	45.9	0.0	0.0	19.4

New England         Middle England         Morth Central England         New Middle Atlantic         East England Pengland         North Central England         East England Atlantic         North Central England         England Atlantic         East England Pengland         Middle Atlantic         North Central England         England Atlantic         Middle Central England         England Atlantic         Post Pengland Pengland         Post Pengland	New ngland 5.1 47.3 6.1 44.3 5.6 18.5 19.0	Middle Atlantic  5.8  23.4  5.9  19.4  7.0  7.3  29.8	East North Central 3.1 14.5 3.2 7.9 2.7 10.0 8.8
Cooling energy sources         Natural gas       47.2       44.3       55.4       45.6       36.2       54.0         Other excluding natural gas       14.6       7.5       9.5       13.1       9.9       9.3         Buildings without cooling       68.2       29.3       26.4       54.6       36.8       28.2         Water-heating energy sources         Natural gas       14.7       7.7       11.2       15.5       9.9       10.4         Other excluding natural gas       21.3       13.9       9.9       12.0       13.9       10.4	47.3 6.1 44.3 5.6 18.5 19.0	23.4 5.9 19.4 7.0 7.3	14.5 3.2 7.9 2.7 10.0
Natural gas       47.2       44.3       55.4       45.6       36.2       54.0         Other excluding natural gas       14.6       7.5       9.5       13.1       9.9       9.3         Buildings without cooling       68.2       29.3       26.4       54.6       36.8       28.2         Water-heating energy sources         Natural gas       14.7       7.7       11.2       15.5       9.9       10.4         Other excluding natural gas       21.3       13.9       9.9       12.0       13.9       10.4	6.1 44.3 5.6 18.5 19.0	5.9 19.4 7.0 7.3	3.2 7.9 2.7 10.0
Other excluding natural gas       14.6       7.5       9.5       13.1       9.9       9.3         Buildings without cooling       68.2       29.3       26.4       54.6       36.8       28.2         Water-heating energy sources         Natural gas       14.7       7.7       11.2       15.5       9.9       10.4         Other excluding natural gas       21.3       13.9       9.9       12.0       13.9       10.4	6.1 44.3 5.6 18.5 19.0	5.9 19.4 7.0 7.3	3.2 7.9 2.7 10.0
Buildings without cooling       68.2       29.3       26.4       54.6       36.8       28.2         Water-heating energy sources         Natural gas       14.7       7.7       11.2       15.5       9.9       10.4         Other excluding natural gas       21.3       13.9       9.9       12.0       13.9       10.4	5.6 18.5 19.0	7.0 7.3	7.9 2.7 10.0
Water-heating energy sources         Natural gas       14.7       7.7       11.2       15.5       9.9       10.4         Other excluding natural gas       21.3       13.9       9.9       12.0       13.9       10.4	5.6 18.5 19.0	7.0 7.3	2.7 10.0
Natural gas         14.7         7.7         11.2         15.5         9.9         10.4           Other excluding natural gas         21.3         13.9         9.9         12.0         13.9         10.4	18.5 19.0	7.3	10.0
Other excluding natural gas         21.3         13.9         9.9         12.0         13.9         10.4	18.5 19.0	7.3	10.0
	19.0		
Buildings without water heating 60.3 62.9 28.3 51.9 52.5 29.1		29.8	8.8
	7.5		
Cooking energy sources	7.5		
Natural gas 19.8 9.1 9.6 17.8 9.6 8.5		6.2	3.5
Other excluding natural gas         25.3         16.9         17.2         19.5         14.7         17.2	15.4	12.5	11.5
Buildings without cooking 16.6 11.1 11.8 17.3 13.8 11.7	8.3	6.0	4.3
Energy end uses (more than one may apply)			
Buildings with space heating 12.6 7.4 9.7 11.8 9.6 9.3	5.1	5.8	3.1
Buildings with cooling 13.3 7.3 9.6 12.6 9.8 9.3	5.4	5.8	3.2
Buildings with water heating 13.0 7.1 9.7 12.3 9.4 9.2	5.2	6.0	3.1
Buildings with cooking 16.6 7.8 10.1 15.8 8.5 9.8	6.4	6.4	4.9
Buildings with manufacturing 18.1 28.2 16.8 27.2 29.1 15.8	21.6	21.0	8.5
Buildings with electricity			
generation 19.8 8.0 9.7 16.6 11.3 9.0	7.8	7.5	7.5
Buildings with lighting 12.6 7.3 9.7 11.8 9.5 9.3	5.1	5.8	3.1
Percentage of floorspace heated			
Not heated 0.0 51.2 70.5 0.0 51.2 70.5	0.0	0.0	0.0
1% to 50% 95.0 36.3 16.7 84.5 30.6 20.0	71.9	22.9	14.1
51% to 99% 36.5 14.4 15.8 28.8 14.4 13.7	13.3	7.5	10.1
100% 14.0 8.6 10.9 13.3 9.7 9.9	9.6	6.8	3.8
Percentage of floorspace cooled			
Not cooled 68.2 29.3 26.4 54.6 36.8 28.2	44.3	19.4	7.9
1% to 50% 31.3 13.7 15.3 31.8 15.9 12.8	21.6	11.1	5.5
51% to 99% 18.4 9.2 14.9 14.0 11.5 13.4	13.1	6.1	7.3
100% 12.9 10.7 10.2 21.6 11.7 9.5	21.1	7.3	6.4
Heating equipment (more than one may apply)			
Packaged heating units 24.8 11.0 10.6 23.2 9.3 9.7	7.6	9.3	4.6
Furnaces 46.1 16.8 12.3 35.0 22.1 13.7	27.9	10.3	7.9
Individual space heaters         38.9         12.0         15.4         29.0         13.3         13.7	15.7	6.8	5.2
Boilers 22.0 8.6 10.5 15.5 13.0 10.4	10.4	7.3	3.5
Heat pumps 25.8 12.0 17.0 22.7 15.8 15.3	23.8	10.5	15.8
District heat 47.2 22.4 22.9 49.2 16.1 31.2	46.3	22.8	40.9
Duct reheat         56.0         31.5         20.8         37.9         24.0         16.6	33.1	18.9	11.2
Other 63.1 84.5 44.6 62.2 89.1 45.1	2.9	22.6	5.6

	RSEs for tota consumption	_			I floorspace ng natural ga		SEs for natu	-	
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	12.6	7.4	9.7	11.8	9.6	9.3	5.1	5.8	3.1
Cooling equipment									
(more than one may apply)									
Packaged air-conditioning units	14.0	7.6	9.4	13.6	9.5	10.2	6.1	6.6	3.6
Residential-type central air									
conditioners	29.6	15.1	10.0	23.8	16.1	10.7	9.9	8.1	6.6
Individual air conditioners	35.7	14.9	15.9	25.7	15.2	14.5	13.3	7.8	6.3
Central chillers	29.9	9.2	13.0	21.3	11.4	14.8	16.0	7.2	10.9
Heat pumps	24.7	18.1	20.8	28.2	19.4	17.8	18.8	8.2	12.1
District chilled water	51.6	34.3	45.7	52.3	29.5	29.5	36.2	32.2	34.1
Swamp coolers	70.8	64.7	44.6	65.3	76.9	40.2	36.0	66.9	9.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HVAC features									
(more than one may apply)									
Economizer cycle	18.4	9.7	9.0	13.7	11.2	8.2	9.6	7.7	4.8
Variable air volume (VAV) system	14.2	9.5	9.6	17.4	13.6	8.4	21.5	8.5	7.3
Dedicated outside air system (DOAS)	26.5	14.0	22.0	26.9	12.0	22.0	19.8	10.2	8.3
Demand controlled ventilation (DCV)	31.6	13.8	13.6	30.0	16.0	13.8	13.6	6.0	8.4
Regular HVAC maintenance	13.2	6.9	10.0	11.9	10.3	9.4	5.7	6.4	3.6
Building automation system (BAS)									
controls heating or cooling	16.1	7.7	7.6	13.6	9.1	6.7	4.6	7.6	4.4
Internet-connected or smart	FO 9	23.0	45.0	49.6	24.4	27.2	27.0	17.4	26.6
thermostat	50.8	14.9	16.5	28.1	24.4	37.2 15.0	37.8 20.2	17.4	36.6
Programmable thermostat	21.2	14.9	10.5	28.1	15.6	15.0	20.2	8.3	6.6
Main equipment replaced since									
2000 (more than one may apply)									
Heating	26.0	12.4	9.9	21.5	12.2	11.1	10.1	9.2	4.1
Cooling	23.9	15.1	10.6	16.2	15.7	11.3	19.4	6.2	6.6
Water-heating equipment									
Centralized system	19.2	7.5	11.5	18.7	9.6	10.6	9.8	5.7	4.1
Distributed system	50.6	12.1	21.1	21.2	12.2	19.8	48.2	12.4	11.3
Combination of centralized and									
distributed systems	21.6	19.0	12.7	18.2	15.7	10.5	7.1	8.7	7.7
Generation technologies									
(more than one may apply)									
Reciprocating engine generators	17.5	7.6	12.6	16.0	11.8	10.6	7.5	9.2	9.0
Solar panels	24.2	35.2	32.2	22.1	31.5	23.2	10.7	12.7	19.8
Other generation technology	60.4	44.4	43.0	52.8	27.9	33.2	9.3	26.4	26.1

	RSEs for total consumption	_	RSEs for total floorspace of buildings using natural gas				RSEs for natural gas energy intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	12.6	7.4	9.7	11.8	9.6	9.3	5.1	5.8	3.1
Food preparation or serving areas in non-food service buildings (more than one may apply)									
Snack bar, concession stand, or coffee									
shop	34.8	13.9	14.6	30.7	15.8	18.2	9.5	10.0	14.0
Fast food or small restaurant	46.8	14.7	13.0	37.3	11.5	12.9	13.0	9.4	9.0
Cafeteria or large restaurant	26.2	10.9	10.1	20.9	9.8	10.2	14.5	9.8	10.0
Commercial kitchen or									
food preparation area	12.5	12.3	11.2	12.5	13.5	14.1	10.1	5.7	10.4
Small kitchen area	29.3	8.4	15.4	19.7	9.4	14.9	22.6	7.0	8.2
Annual consumption (hundred cubic feet)									
1,000 or less	43.8	28.8	13.6	39.0	21.0	17.3	15.7	18.0	14.6
1,001 to 5,000	16.9	13.7	20.8	17.9	12.4	19.1	23.1	10.9	12.8
5,001 to 10,000	39.0	19.5	19.8	44.0	20.9	14.7	18.8	9.4	8.7
10,001 to 25,000	28.9	17.4	13.1	15.8	17.2	11.2	20.8	7.4	4.8
25,001 to 50,000	24.1	15.2	15.9	19.2	19.2	16.2	19.6	12.3	6.4
50,001 to 100,000	44.5	15.2	15.3	28.2	14.7	14.6	24.0	7.2	8.9
Over 100,000	30.5	10.2	11.4	24.1	13.6	13.3	21.1	7.4	7.1

Data source: U.S. Energy Information Administration, Forms EIA-871A and C of the 2018 Commercial Buildings Energy Consumption Survey

Note: RSE is a measure of the reliability or precision of a survey statistic. Variability occurs in survey statistics because the different samples that could be drawn would each produce different values for the survey statistics. Estimation of Standard Errors and What is a Relative Standard Error (RSE)? contain more information on how RSEs are estimated and used. Both references can be accessed from https://www.eia.gov/consumption/commercial/survey-background-technical-information.php.

<sup>&</sup>lt;sup>a</sup>Climate zones are based on ASHRAE Standard 169-2021; see https://www.eia.gov/consumption/commercial/maps.php#defined.

<sup>&</sup>lt;sup>b</sup>Other sources includes wood, coal, solar, and all other energy sources.