

Data release date: June 2023

**Table CE3.1 Annual household site end-use consumption in the United States—totals and averages, 2020**

	Number of housing units (million)	Total site energy consumption <sup>a</sup> (trillion Btu)						Average site energy consumption <sup>a</sup> (million Btu per household using the end use)					
		Total U.S. <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators
<b>All homes</b>	123.53	9,481	4,026	1,737	866	352	2,501	76.8	34.4	14.1	7.9	2.9	20.2
<b>Census region and division</b>													
Northeast	21.92	1,956	1,030	351	93	55	427	89.2	47.5	16.1	4.8	2.5	19.5
New England	5.88	528	293	91	19	14	110	89.9	50.4	15.7	3.9	2.4	18.8
Middle Atlantic	16.04	1,428	737	260	74	41	316	89.0	46.4	16.2	5.1	2.6	19.7
Midwest	27.04	2,619	1,484	387	131	77	541	96.9	55.4	14.3	5.2	2.9	20.0
East North Central	18.55	1,823	1,054	264	84	52	369	98.3	57.5	14.3	4.9	2.8	19.9
West North Central	8.50	796	430	122	47	25	171	93.7	50.9	14.4	5.9	3.0	20.2
South	46.84	3,116	906	561	497	141	1,011	66.5	20.8	12.0	11.3	3.0	21.6
South Atlantic	24.84	1,584	459	285	248	75	517	63.8	20.6	11.5	10.6	3.0	20.8
East South Central	7.38	523	184	91	66	22	160	70.9	25.3	12.3	9.6	3.0	21.7
West South Central	14.62	1,009	263	186	183	44	334	69.0	18.8	12.7	13.2	3.0	22.8
West	27.72	1,790	605	438	145	79	522	64.6	24.1	15.9	7.0	2.9	18.8
Mountain	9.22	727	284	140	80	28	196	78.9	32.0	15.3	10.0	3.0	21.3
Mountain North	4.62	413	208	80	18	13	93	89.5	45.6	17.5	4.8	2.9	20.1
Mountain South	4.60	314	75	60	62	14	103	68.3	17.6	13.0	14.6	3.1	22.5
Pacific	18.51	1,063	322	298	65	52	326	57.4	19.8	16.2	5.2	2.8	17.6
<b>Census urban/rural classification<sup>e</sup></b>													
Urban	100.44	7,510	3,165	1,425	703	277	1,939	74.8	33.4	14.2	7.9	2.8	19.3
Urbanized area	89.24	6,649	2,757	1,275	635	247	1,734	74.5	32.9	14.3	8.0	2.8	19.4
Urban cluster	11.20	861	408	150	68	30	205	76.9	37.4	13.5	7.0	2.7	18.3
Rural	23.09	1,971	860	311	163	75	561	85.4	38.4	13.5	7.9	3.2	24.3

**Table CE3.1 Annual household site end-use consumption in the United States—totals and averages, 2020**

	Number of housing units (million)	Total site energy consumption <sup>a</sup> (trillion Btu)						Average site energy consumption <sup>a</sup> (million Btu per household using the end use)					
		Total U.S. <sup>b</sup>	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>
<b>All homes</b>	123.53	9,481	4,026	1,737	866	352	2,501	76.8	34.4	14.1	7.9	2.9	20.2
<b>Climate region<sup>f</sup></b>													
Very cold and Cold	42.50	4,044	2,271	643	168	116	846	95.2	54.0	15.2	4.5	2.7	19.9
Mixed-humid	36.79	2,830	1,181	516	270	104	760	76.9	32.6	14.1	7.8	2.8	20.7
Mixed-dry and Hot-dry	15.06	887	205	223	119	45	296	58.9	15.4	14.9	9.2	3.0	19.6
Hot-humid	22.31	1,306	219	237	299	69	482	58.6	11.5	10.7	14.2	3.1	21.6
Marine	6.87	413	150	117	11	18	117	60.2	23.3	17.0	3.1	2.6	17.0
<b>Housing unit type</b>													
Single-family detached	77.07	7,293	3,275	1,191	660	256	1,910	94.6	44.0	15.5	9.5	3.3	24.8
Single-family attached	7.45	500	220	103	40	19	118	67.1	31.5	13.9	6.1	2.6	15.8
Apartments in buildings with 2–4 units	9.34	500	197	127	37	18	120	53.5	22.6	13.6	4.9	1.9	12.9
Apartments in buildings with 5 or more units	22.84	769	187	230	78	42	232	33.7	9.1	10.1	4.0	1.9	10.2
Mobile homes	6.83	419	146	86	50	17	121	61.3	22.4	12.5	8.2	2.5	17.6
<b>Ownership of housing unit</b>													
Owned	82.92	7,501	3,348	1,243	675	270	1,965	90.5	41.9	15.0	8.9	3.3	23.7
Single-family	73.22	6,950	3,148	1,125	617	246	1,814	94.9	44.4	15.4	9.2	3.4	24.8
Apartments	4.32	218	84	51	19	10	54	50.6	22.0	11.9	4.9	2.3	12.6
Mobile homes	5.38	333	116	68	39	14	96	61.8	22.5	12.6	8.2	2.6	17.9
Rented <sup>g</sup>	40.61	1,980	677	494	191	82	536	48.8	18.2	12.2	5.6	2.0	13.2
Single-family	11.30	843	347	170	84	29	214	74.6	32.9	15.1	8.9	2.5	18.9
Apartments	27.86	1,051	300	306	97	50	298	37.7	11.8	11.0	4.2	1.8	10.7
Mobile homes	1.45	86	30	18	11	3	24	59.5	22.2	12.4	8.3	2.1	16.9

**Table CE3.1 Annual household site end-use consumption in the United States—totals and averages, 2020**

	Number of housing units (million)	Total site energy consumption <sup>a</sup> (trillion Btu)						Average site energy consumption <sup>a</sup> (million Btu per household using the end use)					
		Total U.S. <sup>b</sup>	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>
<b>All homes</b>	123.53	9,481	4,026	1,737	866	352	2,501	76.8	34.4	14.1	7.9	2.9	20.2
<b>Year of construction</b>													
Before 1950	20.26	1,836	1,001	294	113	52	376	90.6	50.9	14.6	6.7	2.6	18.6
1950 to 1959	12.48	1,058	530	179	85	34	231	84.8	44.0	14.3	7.7	2.7	18.5
1960 to 1969	12.76	980	442	178	84	35	241	76.8	36.4	13.9	7.5	2.8	18.9
1970 to 1979	18.34	1,306	547	243	130	50	336	71.2	32.0	13.3	8.1	2.7	18.3
1980 to 1989	16.30	1,086	401	207	120	45	312	66.6	26.4	12.7	8.3	2.8	19.2
1990 to 1999	17.16	1,336	494	257	133	55	396	77.8	30.4	15.1	8.5	3.2	23.1
2000 to 2009	16.16	1,236	414	249	133	52	388	76.5	27.4	15.5	8.9	3.2	24.0
2010 to 2015	5.53	360	108	74	39	17	122	65.1	20.8	13.4	7.5	3.0	22.2
2016 to 2020	4.56	284	88	57	29	12	97	62.3	20.2	12.5	6.9	2.7	21.4
<b>Total square footage<sup>h</sup></b>													
Less than 1,000	30.01	1,265	398	334	115	58	359	42.1	14.5	11.2	4.6	2.0	12.0
1,000 to 1,499	28.08	1,733	671	366	171	70	456	61.7	25.5	13.1	7.0	2.5	16.2
1,500 to 1,999	22.22	1,778	765	323	170	67	453	80.0	36.1	14.6	8.6	3.0	20.4
2,000 to 2,499	15.62	1,430	650	232	132	50	366	91.5	43.1	14.9	9.3	3.2	23.4
2,500 to 2,999	10.31	1,072	501	168	94	37	273	104.0	49.5	16.3	9.8	3.6	26.5
3,000 or more	17.29	2,203	1,040	315	184	70	594	127.4	61.2	18.2	11.3	4.1	34.3

**Table CE3.1 Annual household site end-use consumption in the United States—totals and averages, 2020**

	Number of housing units (million)	Total site energy consumption <sup>a</sup> (trillion Btu)						Average site energy consumption <sup>a</sup> (million Btu per household using the end use)					
		Total U.S. <sup>b</sup>	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>
<b>All homes</b>	123.53	9,481	4,026	1,737	866	352	2,501	76.8	34.4	14.1	7.9	2.9	20.2
<b>Number of household members</b>													
1 member	33.59	1,845	883	294	162	76	430	54.9	27.9	8.8	5.6	2.3	12.8
2 members	45.31	3,554	1,577	589	320	135	933	78.4	36.4	13.0	7.8	3.0	20.6
3 members	18.27	1,581	632	308	145	55	441	86.6	36.2	17.0	9.0	3.0	24.1
4 members	15.56	1,443	554	310	135	50	395	92.8	37.6	20.0	9.7	3.2	25.4
5 members	6.44	611	219	134	63	21	174	94.9	36.4	20.9	10.8	3.3	27.1
6 or more members	4.37	446	161	102	42	15	128	102.2	40.7	23.6	10.8	3.4	29.2
<b>2020 annual household income</b>													
Less than \$5,000	4.48	253	96	59	22	9	67	56.5	23.4	13.2	6.5	2.1	14.9
\$5,000 to \$9,999	4.01	208	80	47	19	8	53	51.9	22.2	11.7	6.0	2.1	13.3
\$10,000 to \$19,999	10.25	588	251	118	53	23	142	57.4	26.1	11.6	6.2	2.3	13.9
\$20,000 to \$39,999	24.07	1,568	668	303	147	60	390	65.1	29.5	12.6	7.0	2.5	16.2
\$40,000 to \$59,999	19.61	1,372	586	255	131	53	347	70.0	31.7	13.0	7.5	2.7	17.7
\$60,000 to \$99,999	27.71	2,178	938	395	196	82	566	78.6	35.4	14.3	7.9	3.0	20.4
\$100,000 to \$149,999	16.54	1,462	622	258	134	54	394	88.4	39.1	15.7	8.7	3.3	23.8
\$150,000 or more	16.86	1,852	784	301	164	62	541	109.8	48.4	17.9	10.5	3.7	32.1
<b>Payment method for energy bills</b>													
All paid by household	112.70	8,982	3,841	1,604	830	331	2,376	79.7	35.9	14.3	8.3	3.0	21.1
Some paid by household, some included in rent or condo fee	4.34	183	65	48	15	8	46	42.2	16.1	11.1	4.4	2.0	10.7
All included in rent or condo fee	0.72	28	10	8	3	1	6	39.1	14.7	11.2	4.3	1.9	8.8
Some other method	5.77	288	110	77	19	11	72	49.9	20.5	13.4	3.8	1.9	12.5

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		Total U.S. <sup>b</sup>	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>
<b>All homes</b>	123.53	9,481	4,026	1,737	866	352	2,501	76.8	34.4	14.1	7.9	2.9	20.2
<b>Main heating fuel</b>													
Natural gas	62.71	5,996	2,928	1,055	429	188	1,397	95.6	46.7	16.8	7.6	3.0	22.3
Electricity	42.57	2,081	498	432	327	113	711	48.9	11.7	10.2	8.6	2.7	16.7
Fuel oil or kerosene	4.93	547	319	77	21	13	117	110.8	64.6	15.6	4.9	2.7	23.8
Propane	5.21	512	265	76	28	17	127	98.2	50.8	14.6	6.0	3.2	24.4
Wood	2.25	115	16	32	8	7	53	50.9	9.3	14.7	5.1	3.0	23.4
Some other fuel <sup>i</sup>	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Does not use heating equipment	5.79	229	N	65	54	15	95	39.5	N	11.6	12.1	2.6	16.4

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		Total U.S. <sup>b</sup>	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>
<b>All homes</b>	123.53	9,481	4,026	1,737	866	352	2,501	76.8	34.4	14.1	7.9	2.9	20.2

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Forms EIA-457A, D, E, F, G of the *2020 Residential Energy Consumption Survey*  
 Notes: Because of rounding, data may not sum to totals. See RECS Terminology for definition of terms used in these tables.

Btu = British thermal units

<sup>a</sup> Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded. Electricity consumption from on-site solar photovoltaic generation (that is, solar panels) is included.

<sup>b</sup> *Total U.S.* includes all primary occupied housing units in the 50 states and the District of Columbia. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

<sup>c</sup> Includes main (primary) and secondary space heating.

<sup>d</sup> Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the *CE5* tables.

<sup>e</sup> Housing units are classified using criteria created by the U.S. Census Bureau based on 2010 Census data. Urbanized areas are densely settled groupings of blocks or tracts with 50,000 or more people. Urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

<sup>f</sup> The Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE), created these climate regions. We combined climate regions for this publication. The Subarctic region is included with data for *Very-cold and Cold*.

<sup>g</sup> *Rented* includes households that occupy their primary housing units without paying rent.

<sup>h</sup> *Total square footage* includes all basements, finished or conditioned (heated or cooled) areas of attics, and conditioned garage space that is attached to the home. Unconditioned and unfinished areas in attics and attached garages are excluded. The square footage of the home is based on respondent reports. Previous RECS cycles calculated square footage based on interviewer measurements. For households that did not report an exact square footage estimate, the square footage of the home was imputed based on a reported square footage range and/or characteristics of the home. See *2020 RECS Square Footage Methodology* for full details about data collection and processing.

<sup>i</sup> *Some other fuel* includes coal and district steam.

Q = Data withheld because either the relative standard error (RSE) was greater than 50% or fewer than 10 households in reporting sample.

N = No households in reporting sample.

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**Relative standard errors (RSEs) for Table CE3.1 Annual household site end-use consumption in the United States—totals and averages, 2020**

	RSEs for number of housing units	RSEs for total site energy consumption <sup>a</sup>						RSEs for average site energy consumption <sup>a</sup>						
		Total U.S. <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>
<b>All homes</b>	0.00	0.40	0.63	0.40	0.66	0.34	0.60	0.40	0.62	0.41	0.67	0.33	0.60	
<b>Census region and division</b>														
Northeast	0.00	0.78	1.09	1.07	1.67	0.78	2.08	0.78	1.12	1.06	1.47	0.80	2.08	
New England	0.00	1.34	1.86	1.82	2.65	1.33	2.45	1.34	1.89	1.84	2.53	1.27	2.45	
Middle Atlantic	0.00	1.07	1.40	1.42	2.03	0.98	2.87	1.07	1.44	1.43	1.80	1.01	2.87	
Midwest	0.00	0.90	1.16	1.23	1.50	0.83	1.21	0.90	1.12	1.23	1.42	0.84	1.21	
East North Central	0.00	1.13	1.50	1.48	1.81	0.99	1.60	1.13	1.46	1.48	1.67	1.00	1.60	
West North Central	0.00	1.29	1.67	1.50	2.17	1.33	1.88	1.29	1.62	1.50	2.02	1.28	1.88	
South	0.00	0.65	1.26	0.92	1.05	0.66	0.92	0.65	1.34	0.93	1.08	0.66	0.92	
South Atlantic	0.00	1.02	1.77	1.29	1.65	0.95	1.39	1.02	1.95	1.30	1.61	0.93	1.39	
East South Central	0.00	1.54	2.67	1.84	1.93	1.78	2.49	1.54	2.65	1.84	2.02	1.72	2.49	
West South Central	0.00	1.22	2.26	1.47	1.72	1.49	2.03	1.22	2.28	1.47	1.67	1.45	2.03	
West	0.00	0.74	1.25	1.02	1.62	0.76	1.40	0.74	1.36	1.02	1.31	0.76	1.40	
Mountain	0.00	1.03	1.62	1.29	2.28	1.14	2.00	1.03	1.72	1.28	1.93	1.12	2.00	
Mountain North	0.00	1.40	1.89	1.96	3.27	1.76	2.73	1.40	1.85	1.93	2.93	1.74	2.73	
Mountain South	0.00	1.70	3.35	1.95	2.49	1.46	3.18	1.70	3.59	1.92	2.21	1.45	3.18	
Pacific	0.00	1.09	2.03	1.37	2.77	1.12	1.85	1.09	2.14	1.40	2.29	1.13	1.85	
<b>Census urban/rural classification<sup>e</sup></b>														
Urban	0.28	0.60	0.86	0.57	0.83	0.53	0.81	0.48	0.79	0.48	0.76	0.40	0.69	
Urbanized area	0.42	0.69	0.96	0.68	0.94	0.69	0.96	0.49	0.84	0.54	0.84	0.44	0.75	
Urban cluster	2.74	3.19	3.89	3.00	3.64	3.11	3.22	1.53	2.54	1.45	2.47	1.26	1.54	
Rural	1.23	1.49	1.82	1.59	2.00	1.68	2.00	0.94	1.42	1.04	1.36	0.98	1.68	

**Relative standard errors (RSEs) for Table CE3.1 Annual household site end-use consumption in the United States—totals and averages, 2020**

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		Total U.S. <sup>b</sup>	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>
<b>All homes</b>	0.00	0.40	0.63	0.40	0.66	0.34	0.60	0.40	0.62	0.41	0.67	0.33	0.60
<b>Climate region<sup>f</sup></b>													
Very cold and Cold	0.54	0.77	0.91	0.83	1.22	0.83	1.25	0.62	0.76	0.69	1.03	0.66	1.18
Mixed-humid	0.77	1.17	1.67	1.07	1.35	1.22	1.42	0.78	1.36	0.88	1.04	0.78	1.12
Mixed-dry and Hot-dry	1.23	1.57	3.12	1.65	1.75	1.60	2.45	1.24	2.92	1.55	1.67	1.22	2.15
Hot-humid	0.69	1.36	2.29	1.52	1.69	1.42	1.95	1.07	1.87	1.26	1.55	1.05	1.81
Marine	2.39	2.62	3.26	2.82	5.16	2.96	3.44	2.16	2.98	2.47	4.69	1.79	2.77
<b>Housing unit type</b>													
Single-family detached	0.00	0.45	0.68	0.50	0.68	0.47	0.69	0.45	0.67	0.50	0.76	0.47	0.69
Single-family attached	0.00	1.67	2.54	2.14	2.70	1.45	1.48	1.67	2.56	2.14	2.74	1.42	1.48
Apartments in buildings with 2–4 units	0.00	2.20	3.62	2.09	4.08	1.81	4.68	2.20	3.73	2.14	3.82	1.76	4.68
Apartments in buildings with 5 or more units	0.00	1.22	2.76	1.53	2.24	1.02	1.60	1.22	2.76	1.53	2.02	0.98	1.60
Mobile homes	0.00	1.58	2.92	2.19	2.92	2.03	2.65	1.58	2.93	2.24	2.65	1.98	2.65



**Relative standard errors (RSEs) for Table CE3.1 Annual household site end-use consumption in the United States—totals and averages, 2020**

	RSEs for number of housing units	RSEs for total site energy consumption <sup>a</sup>						RSEs for average site energy consumption <sup>a</sup>					
		Total U.S. <sup>b</sup>	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>
<b>All homes</b>	0.00	0.40	0.63	0.40	0.66	0.34	0.60	0.40	0.62	0.41	0.67	0.33	0.60
<b>Ownership of housing unit</b>													
Owned	0.42	0.59	0.78	0.63	0.92	0.62	0.80	0.49	0.73	0.49	0.85	0.49	0.76
Single-family	0.36	0.57	0.76	0.59	0.88	0.63	0.81	0.52	0.76	0.52	0.85	0.51	0.77
Apartments	4.13	6.67	8.77	5.99	6.83	4.85	10.57	4.49	6.77	3.57	5.04	2.36	9.14
Mobile homes	2.05	2.71	3.96	3.26	4.26	3.01	3.89	1.71	3.43	2.62	3.53	1.97	2.93
Rented <sup>e</sup>	0.86	1.51	2.43	1.34	2.05	1.27	1.67	0.98	1.94	0.97	1.50	0.80	1.36
Single-family	2.35	2.88	3.78	2.80	4.04	2.78	3.21	1.37	2.71	1.44	2.48	1.60	1.82
Apartments	0.64	1.34	2.54	1.54	2.07	1.18	1.84	1.16	2.47	1.32	1.85	0.92	1.73
Mobile homes	7.62	7.67	10.57	8.94	9.35	7.90	8.20	4.35	8.86	5.36	6.02	3.76	5.28
<b>Year of construction</b>													
Before 1950	0.00	1.35	1.90	1.35	1.94	1.07	2.16	1.35	1.90	1.40	1.94	1.08	2.16
1950 to 1959	0.00	1.48	2.19	1.78	2.41	1.34	2.03	1.48	2.16	1.76	2.30	1.30	2.03
1960 to 1969	0.00	1.56	2.57	1.39	3.35	1.61	2.00	1.56	2.48	1.39	3.14	1.55	2.00
1970 to 1979	0.00	1.34	2.00	1.44	2.11	1.16	1.81	1.34	1.90	1.45	2.09	1.14	1.81
1980 to 1989	0.00	1.34	2.15	1.48	2.04	1.34	2.00	1.34	2.19	1.49	2.01	1.34	2.00
1990 to 1999	0.00	1.32	1.73	1.33	2.34	1.13	1.89	1.32	1.89	1.34	2.26	1.13	1.89
2000 to 2009	0.00	1.40	2.12	1.44	2.07	1.28	2.18	1.40	2.18	1.42	2.02	1.24	2.18
2010 to 2015	2.84	4.04	4.86	3.69	4.77	3.59	5.23	2.66	3.74	2.40	3.31	1.92	4.03
2016 to 2020	3.44	4.72	5.67	4.51	5.16	3.94	6.19	2.96	4.05	3.07	4.01	1.91	4.79

**Relative standard errors (RSEs) for Table CE3.1 Annual household site end-use consumption in the United States—totals and averages, 2020**

	RSEs for number of housing units	RSEs for total site energy consumption <sup>a</sup>						RSEs for average site energy consumption <sup>a</sup>						
		Total U.S. <sup>b</sup>	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	
		<b>All homes</b>	0.00	0.40	0.63	0.40	0.66	0.34	0.60	0.40	0.62	0.41	0.67	0.33
<b>Total square footage<sup>h</sup></b>														
Less than 1,000	1.20	1.65	2.44	1.72	2.38	1.60	2.14	1.03	2.22	1.11	1.82	0.94	1.61	
1,000 to 1,499	1.54	1.89	2.48	1.99	2.40	1.88	1.87	0.89	1.58	1.03	1.76	1.00	1.21	
1,500 to 1,999	1.59	1.68	2.03	1.99	2.43	1.84	2.02	0.78	1.47	1.21	1.84	0.99	1.24	
2,000 to 2,499	2.32	2.44	2.70	2.78	3.21	2.49	2.55	0.82	1.44	1.38	2.20	0.99	1.31	
2,500 to 2,999	2.55	2.61	3.06	2.81	3.42	2.76	3.03	1.08	2.03	1.39	2.33	1.23	1.90	
3,000 or more	1.93	2.07	2.24	2.17	2.66	2.29	2.62	1.09	1.47	1.27	1.67	1.07	1.83	
<b>Number of household members</b>														
1 member	1.25	1.66	2.20	1.66	2.02	1.45	1.94	1.05	1.67	0.94	1.52	0.84	1.50	
2 members	1.15	1.27	1.51	1.28	1.74	1.39	1.55	0.85	1.36	0.66	1.23	0.66	1.23	
3 members	1.87	1.80	2.40	2.27	2.53	2.00	2.13	1.28	2.17	1.26	1.91	1.30	1.75	
4 members	2.08	2.31	2.97	2.65	3.04	2.34	2.35	1.29	2.38	1.29	2.12	1.07	1.53	
5 members	4.12	4.26	5.19	4.17	5.73	4.67	4.58	2.10	3.46	2.29	3.95	2.11	2.43	
6 or more members	4.58	4.85	6.56	5.28	5.94	4.90	5.28	2.31	4.91	2.40	3.70	2.83	3.62	
<b>2020 annual household income</b>														
Less than \$5,000	4.63	5.74	8.22	5.47	6.84	4.91	6.34	3.65	6.72	3.33	4.65	2.28	4.61	
\$5,000 to \$9,999	5.53	6.15	8.10	6.66	8.47	5.88	6.47	3.16	6.43	3.54	5.84	3.23	3.73	
\$10,000 to \$19,999	3.21	3.46	4.25	3.77	4.87	3.75	3.65	1.91	2.97	2.35	3.26	1.61	2.87	
\$20,000 to \$39,999	1.98	2.16	2.47	2.51	2.65	2.19	2.52	1.30	1.97	1.22	1.93	1.01	1.68	
\$40,000 to \$59,999	1.83	2.07	2.53	2.19	2.89	2.00	2.65	1.44	2.27	1.45	2.43	1.09	1.91	
\$60,000 to \$99,999	1.58	1.67	2.30	1.41	2.41	1.68	1.85	0.92	1.70	0.95	1.71	0.69	1.26	
\$100,000 to \$149,999	1.83	1.91	2.11	2.23	3.10	1.87	2.36	1.19	1.78	1.52	2.18	0.90	1.43	
\$150,000 or more	1.93	2.23	2.59	2.46	2.73	2.26	2.82	1.28	1.91	1.44	1.86	1.12	1.97	

**Relative standard errors (RSEs) for Table CE3.1 Annual household site end-use consumption in the United States—totals and averages, 2020**

	RSEs for number of housing units	RSEs for total site energy consumption <sup>a</sup>						RSEs for average site energy consumption <sup>a</sup>					
		Total U.S. <sup>b</sup>	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>
		<b>All homes</b>	0.00	0.40	0.63	0.40	0.66	0.34	0.60	0.40	0.62	0.41	0.67
<b>Payment method for energy bills</b>													
All paid by household	0.27	0.46	0.65	0.46	0.70	0.42	0.65	0.46	0.66	0.44	0.72	0.35	0.64
Some paid by household, some included in rent or condo fee	4.78	5.40	7.65	5.66	6.58	5.53	5.62	3.00	6.25	2.79	3.82	1.92	3.73
All included in rent or condo fee	12.26	14.20	17.95	15.38	17.25	12.60	12.98	8.30	13.08	9.64	13.72	4.34	5.77
Some other method	4.08	5.12	6.80	5.02	6.25	4.21	6.09	3.16	5.47	2.95	3.98	2.15	4.32
<b>Main heating fuel</b>													
Natural gas	0.77	0.87	1.00	0.90	1.28	0.94	1.16	0.54	0.84	0.52	0.94	0.53	0.85
Electricity	0.92	1.17	1.68	1.21	1.45	1.14	1.55	0.83	1.43	1.01	1.33	0.79	1.19
Fuel oil or kerosene	3.50	3.32	3.47	3.89	5.17	3.70	4.27	1.57	2.29	2.31	3.16	1.80	2.70
Propane	3.76	4.33	4.81	4.33	5.33	4.30	4.91	1.70	2.60	1.94	3.60	1.97	2.73
Wood	4.88	5.67	10.00	6.97	7.68	5.89	6.22	2.37	7.65	4.08	5.63	2.90	3.78
Some other fuel <sup>l</sup>	35.67	38.88	61.05	37.53	48.49	39.28	43.63	24.00	46.17	24.06	29.96	22.13	33.60
Does not use heating equipment	4.41	5.09	0.00	5.82	6.21	4.61	5.55	2.37	0.00	3.31	4.44	1.99	3.30

**Relative standard errors (RSEs) for Table CE3.1 Annual household site end-use consumption in the United States—totals and averages, 2020**

	RSEs for number of housing units	RSEs for total site energy consumption <sup>a</sup>						RSEs for average site energy consumption <sup>a</sup>					
		Total U.S. <sup>b</sup>	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>
<b>All homes</b>	0.00	0.40	0.63	0.40	0.66	0.34	0.60	0.40	0.62	0.41	0.67	0.33	0.60

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Forms EIA-457A, D, E, F, G of the *2020 Residential Energy Consumption Survey*  
 Notes: See RECS Terminology for definition of terms used in these tables.

<sup>a</sup> Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded. Electricity consumption from on-site solar photovoltaic generation (that is, solar panels) is included.

<sup>b</sup> *Total U.S.* includes all primary occupied housing units in the 50 states and the District of Columbia. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

<sup>c</sup> Includes main (primary) and secondary space heating.

<sup>d</sup> Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the *CE5* tables.

<sup>e</sup> Housing units are classified using criteria created by the U.S. Census Bureau based on 2010 Census data. Urbanized areas are densely settled groupings of blocks or tracts with 50,000 or more people. Urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

<sup>f</sup> The Building America program, sponsored by the U.S. Department of Energy’s Office of Energy Efficiency and Renewable Energy (EERE), created these climate regions. We combined climate regions for this publication. The Subarctic region is included with data for *Very-cold and Cold*.

<sup>g</sup> *Rented* includes households that occupy their primary housing units without paying rent.

<sup>h</sup> *Total square footage* includes all basements, finished or conditioned (heated or cooled) areas of attics, and conditioned garage space that is attached to the home. Unconditioned and unfinished areas in attics and attached garages are excluded. The square footage of the home is based on respondent reports. Previous RECS cycles calculated square footage based on interviewer measurements. For households that did not report an exact square footage estimate, the square footage of the home was imputed based on a reported square footage range and/or characteristics of the home. See *2020 RECS Square Footage Methodology* for full details about data collection and processing.

<sup>i</sup> *Some other fuel* includes coal and district steam.