

**Table CE3.1 Annual household site end-use consumption in the U.S.—totals and averages, 2015**

	Number of housing units (million)	Total site energy consumption <sup>1</sup> (trillion Btu)						Average site energy consumption <sup>1</sup> (million Btu per household using the end use)					
		Total U.S. <sup>2</sup>	Space heating <sup>3</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>4</sup>	Total	Space heating <sup>3</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>4</sup>
<b>All homes</b>	118.2	9,114	3,945	1,745	731	303	2,390	77.1	35.3	14.8	7.1	2.6	20.2
<b>Census region and division</b>													
Northeast	21.0	1,984	1,104	353	61	49	417	94.4	53.4	16.9	3.4	2.3	19.9
New England	5.6	547	324	93	9	12	109	97.3	59.0	16.5	2.3	2.2	19.4
Middle Atlantic	15.4	1,436	780	260	51	36	308	93.4	51.4	17.0	3.8	2.4	20.1
Midwest	26.4	2,486	1,378	419	97	68	524	94.3	52.7	15.9	4.0	2.6	19.9
East North Central	18.1	1,755	999	294	62	46	354	97.0	55.4	16.3	3.7	2.6	19.6
West North Central	8.3	731	379	125	35	22	169	88.3	46.8	15.1	4.6	2.7	20.4
South	44.4	3,064	949	562	479	117	957	68.9	22.7	12.7	11.3	2.7	21.5
South Atlantic	23.5	1,584	497	294	238	61	494	67.5	23.2	12.5	10.7	2.6	21.1
East South Central	7.2	498	168	96	61	18	156	69.2	23.6	13.3	9.0	2.5	21.7
West South Central	13.8	981	284	173	179	38	307	71.3	21.6	12.5	13.7	2.8	22.3
West	26.4	1,581	514	411	95	69	492	59.9	22.1	15.6	5.1	2.6	18.6
Mountain	8.5	631	251	138	50	23	170	74.1	30.6	16.2	7.5	2.7	20.0
Mountain North	4.2	357	172	80	9	12	85	84.0	40.5	18.7	3.0	2.8	19.9
Mountain South	4.3	274	79	58	41	11	85	64.3	19.9	13.7	11.3	2.6	20.0
Pacific	17.9	949	263	273	45	46	322	53.1	17.5	15.3	3.8	2.6	18.0
<b>Census urban/rural classification<sup>5</sup></b>													
Urban	94.7	7,181	3,119	1,399	588	235	1,840	75.8	34.8	14.8	7.1	2.5	19.4
Urbanized area	82.2	6,239	2,686	1,221	523	204	1,605	75.9	34.8	14.9	7.3	2.5	19.5
Urban cluster	12.5	942	434	178	64	31	235	75.2	35.2	14.2	5.9	2.5	18.8
Rural	23.5	1,933	826	347	143	67	550	82.4	37.2	14.8	7.2	2.9	23.4

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<b>All homes</b>	118.2	9,114	3,945	1,745	731	303	2,390	77.1	35.3	14.8	7.1	2.6	20.2
<b>Metropolitan or micropolitan statistical area</b>													
In metropolitan statistical area	98.5	7,577	3,243	1,466	622	253	1,995	76.9	35.0	14.9	7.2	2.6	20.2
In micropolitan statistical area	12.3	950	437	172	63	32	248	77.2	36.1	14.0	5.7	2.6	20.1
Not in metropolitan or micropolitan statistical area	7.4	586	265	108	47	19	147	79.7	37.7	14.7	8.0	2.6	20.0
<b>Climate region<sup>6</sup></b>													
Very cold/Cold	42.5	4,004	2,224	702	109	106	864	94.2	53.1	16.5	3.0	2.5	20.3
Mixed-humid	33.5	2,705	1,183	505	219	85	713	80.7	35.7	15.1	6.9	2.6	21.3
Mixed-dry/Hot-dry	12.7	660	137	184	75	33	231	51.8	12.9	14.5	7.4	2.6	18.1
Hot-humid	22.8	1,363	273	247	323	60	459	59.7	13.7	10.9	15.1	2.7	20.1
Marine	6.7	382	127	108	5	18	124	57.3	20.7	16.2	1.5	2.7	18.6
<b>Housing unit type</b>													
Single-family detached	73.9	6,991	3,201	1,185	586	221	1,798	94.6	44.9	16.1	8.9	3.0	24.3
Single-family attached	7.0	491	228	95	33	16	119	70.0	34.1	13.5	5.4	2.3	17.0
Apartments in buildings with 2–4 units	9.4	503	197	136	25	17	129	53.5	22.2	14.5	3.3	1.8	13.7
Apartments in buildings with 5 or more units	21.1	724	183	234	51	35	220	34.2	9.7	11.1	2.9	1.7	10.4
Mobile homes	6.8	406	136	96	36	14	124	59.8	22.1	14.1	6.2	2.2	18.3

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		Total U.S. <sup>2</sup>	Space heating <sup>3</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>4</sup>	Total	Space heating <sup>3</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>4</sup>
<b>All homes</b>	118.2	9,114	3,945	1,745	731	303	2,390	77.1	35.3	14.8	7.1	2.6	20.2
<b>Ownership of housing unit</b>													
Owned	74.5	6,825	3,111	1,153	566	221	1,774	91.6	43.7	15.5	8.5	3.0	23.8
Single-family	66.2	6,347	2,945	1,047	525	202	1,627	95.9	46.0	15.8	8.9	3.1	24.6
Apartments	3.3	175	61	40	12	8	53	52.4	22.3	12.1	4.3	2.3	15.9
Mobile homes	5.0	304	105	66	28	11	93	61.1	23.5	13.2	6.4	2.2	18.8
Rented <sup>7</sup>	43.7	2,289	834	592	165	82	616	52.4	20.6	13.6	4.6	1.9	14.1
Single-family	14.7	1,135	485	233	93	35	289	77.4	34.9	15.9	7.6	2.4	19.7
Apartments	27.2	1,052	319	329	64	44	296	38.7	12.8	12.1	2.8	1.6	10.9
Mobile homes	1.8	103	31	30	8	3	30	56.3	18.4	16.6	5.4	1.9	16.7
<b>Year of construction</b>													
Before 1950	20.8	1,842	1,001	328	92	45	376	88.7	49.5	15.8	5.4	2.2	18.1
1950 to 1959	12.6	1,067	540	189	76	30	231	84.4	44.7	14.9	7.1	2.4	18.3
1960 to 1969	12.8	961	439	175	83	31	232	75.0	37.2	13.7	7.8	2.5	18.1
1970 to 1979	18.3	1,290	549	254	108	45	333	70.3	31.9	13.9	6.8	2.5	18.2
1980 to 1989	16.0	1,053	370	215	102	41	325	65.7	25.0	13.4	7.3	2.6	20.3
1990 to 1999	16.8	1,317	503	264	119	49	383	78.3	31.7	15.7	7.9	2.9	22.8
2000 to 2009	17.0	1,328	456	264	127	51	430	78.2	28.3	15.6	8.0	3.0	25.3
2010 to 2015	3.8	257	88	57	23	9	79	67.0	24.1	14.9	6.6	2.4	20.7

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		Total U.S. <sup>2</sup>	Space heating <sup>3</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>4</sup>	Total	Space heating <sup>3</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>4</sup>
<b>All homes</b>	118.2	9,114	3,945	1,745	731	303	2,390	77.1	35.3	14.8	7.1	2.6	20.2
<b>Total square footage<sup>8</sup></b>													
Fewer than 1,000	26.6	1,072	334	314	72	45	307	40.3	13.9	11.8	3.4	1.7	11.5
1,000 to 1,499	26.1	1,542	535	363	141	58	446	59.0	22.0	13.9	6.2	2.2	17.1
1,500 to 1,999	17.5	1,359	569	253	135	49	353	77.8	34.6	14.5	8.7	2.8	20.2
2,000 to 2,499	14.1	1,268	582	224	101	41	320	89.8	42.5	15.9	8.1	2.9	22.7
2,500 to 2,999	10.8	1,111	560	175	81	32	262	102.9	53.1	16.3	8.4	3.0	24.3
3,000 or greater	23.1	2,762	1,365	417	200	78	702	119.6	60.4	18.1	9.5	3.4	30.4
<b>Number of household members</b>													
1 member	28.7	1,591	815	213	127	61	376	55.3	29.9	7.4	5.3	2.1	13.1
2 members	42.7	3,229	1,460	531	277	114	848	75.6	36.2	12.5	7.3	2.7	19.9
3 members	19.4	1,643	691	344	127	52	428	84.6	37.7	17.7	7.5	2.7	22.1
4 members	15.5	1,472	552	352	114	44	410	94.9	37.4	22.7	8.4	2.8	26.4
5 members	7.2	698	258	173	56	20	191	97.1	38.1	24.1	8.8	2.8	26.6
6 or more members	4.6	481	169	133	30	13	136	103.8	39.1	28.7	7.7	2.8	29.4
<b>2015 annual household income</b>													
Less than \$20,000	22.9	1,303	542	291	98	44	328	57.0	25.2	12.7	5.3	2.0	14.3
\$20,000 to \$39,999	27.3	1,882	835	371	145	64	467	68.9	32.8	13.6	6.3	2.4	17.1
\$40,000 to \$59,999	18.4	1,354	576	263	121	46	349	73.6	33.1	14.3	7.3	2.5	19.0
\$60,000 to \$79,999	15.2	1,218	536	229	94	41	319	80.0	37.4	15.1	6.9	2.7	21.0
\$80,000 to \$99,999	9.7	827	363	154	68	29	214	85.4	39.1	15.9	7.8	3.0	22.1
\$100,000 to \$119,999	8.1	733	322	135	58	24	194	90.4	41.1	16.7	7.9	3.0	23.9
\$120,000 to \$139,999	5.4	552	250	96	46	17	144	101.7	47.7	17.8	9.3	3.1	26.5
\$140,000 or more	11.2	1,244	522	207	101	39	375	111.2	49.0	18.6	9.7	3.5	33.5

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<b>All homes</b>	118.2	9,114	3,945	1,745	731	303	2,390	77.1	35.3	14.8	7.1	2.6	20.2
<b>Payment method for energy bills</b>													
All paid by household	105.8	8,540	3,729	1,579	697	282	2,252	80.7	37.3	14.9	7.5	2.7	21.3
Some paid by household, some included in rent or condo fee	6.1	283	114	83	14	10	61	46.4	19.6	13.7	2.7	1.7	10.1
All included in rent or condo fee	5.5	241	84	70	16	9	62	44.0	16.3	12.9	3.6	1.7	11.3
Some other method	0.9	50	18	13	3	1	14	58.4	22.5	15.2	4.9	1.8	16.3
<b>Main heating fuel</b>													
Natural gas	57.7	5,517	2,738	993	352	155	1,279	95.7	47.5	17.2	6.9	2.7	22.2
Electricity	40.9	2,096	556	461	277	98	704	51.2	13.6	11.3	7.5	2.4	17.2
Fuel oil/kerosene	5.8	645	400	95	20	13	117	111.2	69.0	16.4	4.1	2.3	20.1
Propane	5.0	468	219	75	28	15	131	93.4	43.8	15.0	6.4	3.0	26.2

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<sup>1</sup>Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded. Electricity consumption from on-site solar photovoltaic generation (i.e., solar panels) is included.

<sup>2</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>3</sup>Includes main (primary) and secondary space heating.

<sup>4</sup>Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the Series 5 tables.

<sup>5</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>6</sup>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).

<sup>7</sup>Rented includes households that occupy their primary housing units without paying rent.

<sup>8</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 for some housing units was calculated based on measurements taken by the interviewer. For households responding without the presence of an interviewer, square footage was imputed based on characteristics of the housing unit. See 2015 RECS Square Footage Methodology for full details about data collection and processing.

Q = Data withheld because either the Relative Standard Error (RSE) was greater than 50% or fewer than 10 cases responded.

N = No cases responded.

Notes: Because of rounding, data may not sum to totals. See RECS Terminology for definition of terms used in these tables.

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Forms EIA-457A, C, D, E, F, G of the 2015 Residential Energy Consumption Survey.