

Data release date: June 2023

Revised data release date: March 2024

**Table CE4.11 Annual household end-use expenditures by fuel in the United States—totals, 2020**

	Number of housing units	Total energy expenditures <sup>a</sup> (million)	Total energy expenditures <sup>a</sup> (billion dollars)																	
			Electricity					Natural gas					Propane					Fuel oil or kerosene		
Total U.S. <sup>b</sup>	Total	Total Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>	Total	Total Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Total Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Total Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>		
All homes	123.53	232.76	170.47	19.46	19.54	32.77	14.27	84.42	47.21	30.45	13.24	3.53	8.12	5.36	1.60	1.17	6.95	5.51	0.95	0.48
<b>Census region and division</b>																				
Northeast	21.92	49.60	29.43	2.93	2.80	4.77	2.88	16.05	12.40	8.00	3.36	1.04	2.02	1.25	0.38	0.38	5.75	4.48	0.86	0.42
New England	5.88	14.92	8.69	0.81	0.83	1.16	0.86	5.04	2.65	1.81	0.71	0.13	0.77	0.43	0.16	0.18	2.82	2.26	0.39	0.17
Middle Atlantic	16.04	34.68	20.74	2.13	1.97	3.61	2.02	11.02	9.76	6.19	2.66	0.91	1.25	0.82	0.22	0.21	2.93	2.22	0.47	0.25
Midwest	27.04	51.18	34.97	4.45	3.42	5.11	3.10	18.90	13.06	10.18	2.44	0.44	2.69	2.22	0.30	0.17	0.46	0.41	Q	Q
East North Central	18.55	35.51	23.81	2.88	2.25	3.37	2.16	13.15	9.48	7.42	1.72	0.35	1.84	1.52	0.21	0.12	0.38	0.33	Q	Q
West North Central	8.50	15.66	11.17	1.57	1.17	1.73	0.93	5.76	3.57	2.76	0.72	0.09	0.85	0.70	0.09	0.05	0.08	0.08	Q	N
South	46.84	86.14	72.50	9.37	10.22	16.84	4.83	31.24	10.99	6.89	3.15	0.95	2.10	1.19	0.51	0.40	0.56	0.48	0.04	0.04
South Atlantic	24.84	45.96	38.65	4.83	5.97	8.57	2.63	16.65	5.64	3.66	1.50	0.48	1.16	0.67	0.26	0.23	0.51	0.45	0.03	Q
East South Central	7.38	13.89	11.67	2.04	1.77	2.23	0.74	4.89	1.73	1.21	0.41	0.11	0.45	0.29	0.07	0.08	0.05	0.03	N	Q
West South Central	14.62	26.30	22.18	2.50	2.47	6.04	1.47	9.70	3.62	2.02	1.24	0.36	0.49	0.23	0.17	0.09	Q	N	Q	N
West	27.72	45.84	33.57	2.71	3.11	6.06	3.46	18.23	10.76	5.37	4.29	1.10	1.32	0.69	0.41	0.22	0.18	0.15	0.03	Q
Mountain	9.22	15.24	11.42	0.89	0.98	2.82	0.95	5.77	3.30	2.03	1.00	0.26	0.51	0.32	0.14	0.05	Q	Q	Q	Q
Mountain North	4.62	6.80	4.55	0.49	0.40	0.58	0.44	2.65	1.97	1.38	0.51	0.08	0.27	0.21	0.04	Q	Q	Q	Q	Q
Mountain South	4.60	8.43	6.86	0.40	0.58	2.24	0.51	3.12	1.33	0.66	0.49	0.18	0.24	0.11	0.10	0.03	Q	Q	Q	N
Pacific	18.51	30.60	22.16	1.83	2.13	3.23	2.51	12.46	7.47	3.34	3.29	0.84	0.81	0.37	0.27	0.18	0.16	0.14	0.02	Q
<b>Census urban/rural classification<sup>e</sup></b>																				
Urban	100.44	180.76	131.38	12.86	13.64	26.96	11.47	66.45	43.18	27.60	12.39	3.19	1.98	1.03	0.53	0.43	4.21	3.23	0.68	0.30
Urbanized area	89.24	161.24	116.88	10.62	11.81	24.54	10.34	59.56	39.11	24.66	11.43	3.02	1.53	0.77	0.39	0.37	3.72	2.80	0.64	0.29
Urban cluster	11.20	19.52	14.51	2.24	1.84	2.42	1.12	6.89	4.08	2.94	0.96	0.18	0.45	0.26	0.13	0.06	0.49	0.43	0.05	Q
Rural	23.09	51.99	39.09	6.60	5.90	5.81	2.80	17.97	4.03	2.85	0.85	0.33	6.14	4.33	1.07	0.74	2.74	2.28	0.27	0.19
<b>Climate region<sup>f</sup></b>																				
Very cold and Cold	42.50	82.82	53.52	6.46	5.28	6.99	4.93	29.85	19.98	14.98	4.16	0.83	4.48	3.36	0.67	0.45	4.84	3.96	0.58	0.30
Mixed-humid	36.79	73.72	53.91	7.65	7.07	10.20	4.12	24.88	15.56	10.23	4.09	1.24	2.20	1.42	0.43	0.35	2.05	1.51	0.35	0.19
Mixed-dry and Hot-dry	15.06	26.07	19.74	0.85	1.22	5.03	2.07	10.57	5.75	2.37	2.57	0.81	0.58	0.27	0.19	0.12	Q	Q	Q	N
Hot-humid	22.31	39.57	35.73	3.34	4.79	10.12	2.39	15.09	3.21	1.48	1.29	0.44	0.62	0.21	0.23	0.18	Q	N	Q	N
Marine	6.87	10.57	7.57	1.16	1.18	0.44	0.75	4.04	2.72	1.39	1.12	0.20	0.25	0.10	0.08	Q	Q	Q	Q	N
<b>Housing unit type</b>																				
Single-family detached	77.07	169.90	121.97	12.95	11.66	24.42	10.05	62.90	35.06	24.00	8.66	2.39	7.03	4.74	1.31	0.98	5.84	4.84	0.67	0.33
Single-family attached	7.45	12.32	8.82	1.04	0.94	1.63	0.82	4.39	3.19	2.09	0.94	0.16	0.13	0.06	0.05	0.03	0.18	0.15	0.02	Q
Apartments in buildings with 2–4 units	9.34	13.14	9.25	1.17	1.34	1.64	0.86	4.24	3.51	1.95	1.20	0.36	0.08	0.02	0.05	0.01	0.30	0.16	0.09	Q
Apartments in buildings with 5 or more units	22.84	25.28	20.16	2.48	3.54	3.33	1.92	8.90	4.58	1.84	2.20	0.55	0.14	0.04	0.06	0.04	0.40	0.16	0.16	0.08

**Table CE4.11 Annual household end-use expenditures by fuel in the United States—totals, 2020**

**Table CE4.11 Annual household end-use expenditures by fuel in the United States—totals, 2020**

	Number of housing units	Total energy expenditures <sup>a</sup> (million) (billion dollars)	Electricity								Natural gas						Propane			Fuel oil or kerosene					
	Total U.S. <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>		
All homes	123.53	232.76	170.47	19.46	19.54	32.77	14.27	84.42	47.21	30.45	13.24	3.53	8.12	5.36	1.60	1.17	6.95	5.51	0.95	0.48					
Less than \$5,000	4.48	6.77	5.32	0.80	0.90	0.86	0.39	2.38	1.15	0.67	0.40	0.08	0.19	0.12	0.05	0.03	0.11	0.08	Q	Q					
\$5,000 to \$9,999	4.01	5.53	4.23	0.56	0.78	0.72	0.33	1.85	0.98	0.58	0.32	0.07	0.14	0.09	0.02	0.02	0.17	0.13	Q	Q					
\$10,000 to \$19,999	10.25	14.98	11.16	1.75	1.53	2.01	0.94	4.93	2.81	1.76	0.89	0.16	0.63	0.46	0.10	0.06	0.38	0.31	0.05	Q					
\$20,000 to \$39,999	24.07	38.84	29.11	3.87	4.04	5.42	2.40	13.38	7.27	4.75	2.08	0.43	1.37	1.01	0.22	0.14	1.09	0.91	0.12	0.06					
\$40,000 to \$59,999	19.61	33.80	25.19	2.98	3.27	4.85	2.14	11.96	6.66	4.47	1.79	0.39	1.13	0.78	0.22	0.13	0.82	0.66	0.12	0.04					
\$60,000 to \$99,999	27.71	53.34	38.92	4.31	4.38	7.43	3.32	19.47	10.75	7.01	3.05	0.69	1.89	1.27	0.41	0.22	1.78	1.44	0.20	0.14					
\$100,000 to \$149,999	16.54	35.51	25.67	2.67	2.38	5.09	2.19	13.34	7.54	4.87	2.10	0.57	1.24	0.81	0.28	0.15	1.06	0.74	0.19	0.13					
\$150,000 or more	16.86	43.98	30.86	2.52	2.26	6.39	2.57	17.12	10.05	6.33	2.59	1.13	1.52	0.81	0.30	0.42	1.55	1.25	0.23	0.06					
<b>Payment method for energy bills</b>																									
All paid by household	112.70	218.40	160.62	18.25	18.29	31.05	13.25	79.77	43.55	28.69	11.78	3.08	7.86	5.24	1.50	1.12	6.38	5.23	0.74	0.40					
Some paid by household, some included in rent or condo fee	6.32	8.73	5.63	0.60	0.58	1.02	0.62	2.81	2.42	1.11	0.97	0.35	0.19	0.10	0.07	0.02	0.48	0.22	0.18	0.08					
All included in rent or condo fee	4.34	5.36	4.07	0.59	0.66	0.68	0.38	1.75	1.15	0.59	0.47	0.09	0.07	Q	Q	0.02	0.07	0.05	0.03	Q					
Some other method	0.16	0.26	0.15	0.01	Q	0.02	0.02	0.08	0.09	Q	0.02	*	Q	N	Q	Q	Q	Q	Q	Q					
<b>Main heating fuel</b>																									
Natural gas	62.71	122.40	77.94	2.26	3.69	16.95	7.91	47.13	44.23	30.23	11.31	2.70	0.09	0.02	0.03	0.05	0.13	Q	0.07	Q					
Electricity	42.57	70.13	66.99	16.41	11.59	11.45	4.11	23.44	1.99	0.19	1.24	0.56	1.06	0.25	0.43	0.37	0.09	0.02	0.03	0.03					
Fuel oil or kerosene	4.93	14.51	7.39	0.29	0.98	1.05	0.68	4.39	0.26	0.01	0.13	0.12	0.32	0.05	0.08	0.19	6.55	5.39	0.80	0.35					
Propane	5.21	13.94	7.74	0.30	1.38	1.06	0.67	4.33	0.02	Q	Q	0.01	6.18	4.96	0.84	0.38	Q	Q	N	N					
Wood	2.25	3.77	3.16	0.19	0.72	0.31	0.26	1.67	0.07	0.01	0.04	0.01	0.39	0.08	0.17	0.14	0.16	0.08	0.04	0.04	0.04				
Some other fuel <sup>i</sup>	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	N	N	Q	Q	N	N	Q	Q	Q	Q	N	Q	N	Q	
Does not use heating equipment	5.79	7.94	7.19	N	1.17	1.95	0.62	3.45	0.64	N	0.51	0.14	0.08	N	0.05	0.04	Q	N	Q	Q					

**Table CE4.11 Annual household end-use expenditures by fuel in the United States—totals, 2020**

	Number of housing units	Total energy expenditures <sup>a</sup> (million) (billion dollars)	Electricity						Natural gas						Propane			Fuel oil or kerosene				
			Total	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>		
			Total U.S. <sup>b</sup>	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total		
All homes			123.53	232.76	170.47	19.46	19.54	32.77	14.27	84.42	47.21	30.45	13.24	3.53	8.12	5.36	1.60	1.17	6.95	5.51	0.95	0.48

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.

<sup>a</sup> Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded.

<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 CES 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.

\* = Estimate is less than 0.005 and rounds to zero.

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**Relative standard errors (RSEs) for Table CE4.11 Annual household end-use expenditures by fuel in the United States—totals, 2020**

RSEs for number of housing units	RSEs for total energy expenditures <sup>a</sup>																			
	Electricity									Natural gas						Propane				
	Total U.S. <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	
All homes	0.00	0.35	0.39	1.40	1.11	0.66	0.36	0.53	0.89	0.95	1.10	3.00	3.62	4.34	5.05	6.50	3.55	3.54	5.46	12.84
<b>Census region and division</b>																				
Northeast	0.00	0.88	1.09	4.37	2.95	1.92	0.98	1.32	1.86	1.84	3.09	6.18	7.64	9.66	8.73	10.61	4.20	4.22	5.94	14.51
New England	0.00	1.25	1.60	6.13	5.37	2.75	1.67	1.81	3.58	4.01	4.28	9.93	8.84	11.52	10.48	15.20	3.88	4.11	5.91	14.71
Middle Atlantic	0.00	1.26	1.49	6.08	3.74	2.38	1.27	1.90	2.38	2.30	3.88	6.99	10.05	12.40	11.79	15.53	6.94	7.04	9.96	22.07
Midwest	0.00	0.75	0.90	4.30	3.16	1.55	0.96	1.17	1.62	1.71	2.06	5.24	6.56	7.12	9.35	14.39	19.79	20.84	44.12	50.33
East North Central	0.00	1.00	1.19	5.99	4.31	1.87	1.13	1.59	1.92	2.04	2.50	6.34	8.44	8.94	13.05	18.42	22.51	24.20	44.69	50.33
West North Central	0.00	0.94	1.18	5.34	4.99	2.19	1.36	1.53	2.40	2.49	3.06	9.95	7.61	8.38	9.93	19.55	34.06	34.19	15.91	0.00
South	0.00	0.59	0.66	1.86	1.55	1.03	0.68	0.86	1.69	2.12	2.36	6.87	5.29	7.43	8.94	9.13	13.93	14.46	27.85	35.71
South Atlantic	0.00	0.89	0.95	2.52	1.85	1.58	0.92	1.23	2.73	3.06	3.54	9.24	8.35	10.20	13.98	12.22	15.21	15.06	29.24	50.35
East South Central	0.00	1.11	1.25	3.22	3.03	1.89	1.72	1.83	4.25	4.65	5.55	14.87	12.01	14.08	18.83	23.78	32.86	35.26	0.00	51.12
West South Central	0.00	1.04	1.20	3.68	3.19	1.86	1.48	1.54	2.96	3.60	3.59	10.13	11.70	13.50	13.71	20.05	79.06	0.00	79.06	0.00
West	0.00	0.86	0.99	3.49	2.96	1.97	0.88	1.17	1.46	1.87	1.71	6.60	9.49	11.39	10.26	23.80	12.48	13.08	27.58	70.01
Mountain	0.00	1.12	1.38	5.56	4.28	2.42	1.26	1.67	1.59	2.16	2.04	9.39	12.37	14.61	14.10	25.89	41.96	49.14	66.30	16.66
Mountain North	0.00	1.53	1.90	6.86	6.68	3.66	1.85	2.06	2.02	2.42	2.50	17.11	19.04	19.87	21.82	56.38	42.22	50.49	72.52	16.66
Mountain South	0.00	1.65	1.85	6.84	5.57	2.63	1.55	2.44	2.88	4.11	3.48	10.84	18.54	25.01	18.29	29.74	20.25	20.25	0.00	0.00
Pacific	0.00	1.13	1.42	4.41	3.78	3.40	1.21	1.63	2.09	2.91	2.17	7.89	13.53	17.41	13.53	28.13	13.26	13.83	30.72	75.16
<b>Census urban/rural classification<sup>e</sup></b>																				
Urban	0.28	0.53	0.54	1.94	1.49	0.85	0.54	0.69	1.00	1.04	1.20	3.25	7.65	10.53	8.59	10.91	4.14	4.04	6.66	18.09
Urbanized area	0.42	0.61	0.64	2.13	1.71	0.93	0.66	0.80	1.07	1.11	1.34	3.32	9.23	12.37	10.43	11.43	4.67	4.64	7.08	18.51
Urban cluster	2.74	2.99	2.98	5.20	4.01	3.71	3.22	3.28	4.37	4.73	4.91	11.72	13.51	17.18	18.73	23.58	13.88	14.08	16.74	47.22
Rural	1.23	1.37	1.36	2.92	2.15	2.04	1.71	1.67	3.78	3.86	4.75	13.36	4.01	4.51	5.92	8.57	5.44	6.09	6.43	13.05
<b>Climate region<sup>f</sup></b>																				
Very cold and Cold	0.54	0.69	0.87	3.31	2.44	1.30	0.85	1.04	1.42	1.47	1.54	6.07	4.91	5.51	5.83	9.48	3.40	3.62	5.43	12.22
Mixed-humid	0.77	1.12	1.04	1.89	1.86	1.40	1.31	1.31	2.07	2.12	2.86	5.90	7.54	9.47	9.14	10.57	8.41	8.86	10.98	25.83
Mixed-dry and Hot-dry	1.23	1.70	1.77	6.62	5.80	2.19	1.86	1.99	2.28	3.40	2.05	8.17	14.58	19.25	16.30	31.47	20.25	20.25	20.25	0.00
Hot-humid	0.69	1.35	1.42	3.36	2.30	1.66	1.38	1.78	3.47	4.40	4.31	10.22	9.61	15.87	11.44	16.74	79.06	0.00	79.06	0.00
Marine	2.39	2.81	3.00	5.82	5.25	6.30	3.79	3.62	4.10	4.81	4.57	10.03	25.23	28.03	21.99	51.66	39.60	44.23	20.14	0.00
<b>Housing unit type</b>																				
Single-family detached	0.00	0.42	0.47	1.58	1.60	0.71	0.52	0.62	0.88	0.97	1.20	4.07	4.20	4.91	5.47	7.53	3.77	3.81	5.47	12.89
Single-family attached	0.00	1.35	1.52	4.88	5.13	2.78	1.68	1.87	2.55	2.78	3.62	5.84	22.60	26.87	25.86	39.25	19.10	20.29	24.41	55.22
Apartments in buildings with 2–4 units	0.00	1.72	1.87	6.56	4.73	3.94	2.08	2.51	3.48	4.58	4.23	15.20	20.53	34.39	26.25	43.74	21.26	20.08	25.09	61.58
Apartments in buildings with 5 or more units	0.00	1.24	1.41	3.94	2.82	2.02	1.07	1.60	4.29	4.97	4.34	8.78	19.88	21.85	23.61	35.80	17.84	18.19	20.45	31.30

**Relative standard errors (RSEs) for Table CE4.11 Annual household end-use expenditures by fuel in the United States—totals, 2020**

Relative standard errors (RSEs) for Table CE4.11 Annual household end-use expenditures by fuel in the United States—totals, 2020

RSEs for number of housing units	RSEs for total energy expenditures <sup>a</sup>																				
	Electricity						Natural gas						Propane				Fuel oil or kerosene				
	Total U.S. <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>		
All homes	0.00	0.35	0.39	1.40	1.11	0.66	0.36	0.53	0.89	0.95	1.10	3.00	3.62	4.34	5.05	6.50	3.55	3.54	5.46	12.84	
Less than \$5,000	4.63	5.23	5.20	9.24	7.89	6.47	5.47	6.15	8.24	10.44	8.59	19.37	23.43	31.04	27.12	37.03	28.81	31.85	48.80	73.05	
\$5,000 to \$9,999	5.53	5.74	5.84	8.47	8.38	8.29	5.71	6.15	10.61	11.01	12.99	19.65	17.44	22.83	28.85	36.44	24.50	25.38	42.81	59.64	
\$10,000 to \$19,999	3.21	3.25	3.43	6.00	4.81	4.77	3.70	3.60	5.34	6.39	5.48	18.28	12.58	15.20	18.91	25.86	14.18	16.09	24.42	45.64	
\$20,000 to \$39,999	1.98	2.04	2.04	3.60	3.06	2.62	2.35	2.30	3.18	3.37	4.14	8.17	8.63	9.57	12.63	14.63	9.97	9.93	14.88	38.47	
\$40,000 to \$59,999	1.83	1.95	2.14	4.34	3.58	2.72	2.06	2.28	3.03	3.11	3.38	9.51	8.76	10.34	11.17	15.11	11.33	12.13	17.44	37.71	
\$60,000 to \$99,999	1.58	1.60	1.68	3.71	3.18	2.31	1.66	1.56	2.63	2.68	2.98	9.28	7.02	8.66	9.31	12.59	7.31	7.43	8.67	21.66	
\$100,000 to \$149,999	1.83	2.12	2.33	5.24	3.97	3.05	2.14	2.42	3.09	2.96	4.15	7.61	9.89	11.13	13.42	16.97	9.95	9.02	14.87	30.53	
\$150,000 or more	1.93	2.17	2.33	4.80	4.06	2.70	2.36	2.48	2.74	2.93	3.33	7.35	9.48	12.59	10.81	12.78	7.60	7.87	11.02	23.85	
<b>Payment method for energy bills</b>																					
All paid by household	0.27	0.40	0.43	1.44	1.19	0.67	0.45	0.58	0.88	0.94	1.07	3.37	3.65	4.39	5.00	6.75	3.57	3.60	5.56	13.12	
Some paid by household, some included in rent or condo fee	3.90	4.38	4.35	11.24	9.96	5.27	3.90	4.76	7.91	7.72	9.18	12.78	22.36	34.83	21.73	40.09	15.72	17.52	17.09	31.95	
All included in rent or condo fee	4.78	5.45	5.69	8.13	8.09	6.84	5.57	5.64	9.84	10.01	12.29	16.49	37.09	51.02	51.82	48.28	26.42	26.04	39.78	16.95	
Some other method	25.04	29.01	26.71	42.11	41.86	39.14	28.89	26.72	46.46	53.00	35.89	39.38	69.57	0.00	68.39	75.68	42.22	43.02	23.61	18.23	
<b>Main heating fuel</b>																					
Natural gas	0.77	0.89	0.95	4.10	3.01	1.31	0.94	0.99	0.98	0.95	1.23	3.87	21.37	33.92	38.77	30.70	25.77	50.68	25.58	40.60	
Electricity	0.92	1.11	1.10	1.61	1.46	1.42	1.15	1.48	4.71	13.82	5.55	7.88	5.50	12.12	9.95	8.99	25.58	30.69	30.60	41.65	
Fuel oil or kerosene	3.50	3.26	3.32	10.81	6.76	5.38	3.72	3.47	14.77	45.51	20.12	23.72	11.13	23.73	21.64	14.55	3.69	3.62	5.94	15.41	
Propane	3.76	4.22	4.22	13.14	6.01	5.08	4.17	4.49	35.76	14.19	56.65	44.09	4.56	4.71	5.84	12.03	61.43	61.43	0.00	0.00	
Wood	4.88	6.04	6.12	11.24	6.62	9.22	6.80	6.62	24.89	37.97	36.68	32.91	13.49	22.78	15.75	24.42	21.47	25.39	27.68	33.22	
Some other fuel <sup>i</sup>	35.67	35.97	34.88	14.58	36.19	54.38	38.03	37.24	16.20	0.00	0.00	16.20	64.80	0.00	0.00	64.80	84.02	62.70	0.00	14.82	
Does not use heating equipment	4.41	4.58	4.68	0.00	5.99	5.78	4.20	5.08	8.89	0.00	9.44	21.58	27.32	0.00	30.31	47.21	53.25	0.00	54.55	28.73	

**Relative standard errors (RSEs) for Table CE4.11 Annual household end-use expenditures by fuel in the United States—totals, 2020**

RSEs for number of housing units	RSEs for total energy expenditures <sup>a</sup>																			
	Electricity						Natural gas						Propane				Fuel oil or kerosene			
	Total U.S. <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	
All homes	0.00	0.35	0.39	1.40	1.11	0.66	0.36	0.53	0.89	0.95	1.10	3.00	3.62	4.34	5.05	6.50	3.55	3.54	5.46	12.84

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.

<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 CES 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.