

CE4.11.EL.ST Annual household end-use electricity expenditures in the United States by state—totals and percentages, 2020

	Number of housing units (million)	Total energy expenditures ^a (billion dollars)										
		Total U.S. ^b	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d				
All homes	123.53	170.47	19.46	11%	19.54	11%	32.77	19%	14.27	8%	84.42	50%
Alabama	1.90	3.39	0.53	16%	0.51	15%	0.71	21%	0.23	7%	1.41	42%
Alaska	0.26	0.42	0.04	9%	0.05	12%	*	*	0.04	11%	0.29	68%
Arizona	2.68	4.65	0.27	6%	0.46	10%	1.66	36%	0.32	7%	1.94	42%
Arkansas	1.14	1.74	0.29	17%	0.24	14%	0.35	20%	0.11	6%	0.74	43%
California	13.18	15.36	0.56	4%	0.84	5%	2.77	18%	1.96	13%	9.24	60%
Colorado	2.26	2.03	0.18	9%	0.14	7%	0.26	13%	0.21	11%	1.23	61%
Connecticut	1.38	2.42	0.26	11%	0.24	10%	0.33	14%	0.22	9%	1.37	57%
Delaware	0.38	0.51	0.08	15%	0.08	16%	0.08	16%	0.04	7%	0.24	46%
District of Columbia	0.32	0.26	0.03	11%	0.04	15%	0.05	20%	0.02	9%	0.12	45%
Florida	8.06	12.75	0.97	8%	1.89	15%	3.80	30%	0.84	7%	5.26	41%
Georgia	3.88	6.62	0.73	11%	0.97	15%	1.44	22%	0.46	7%	3.02	46%
Hawaii	0.47	0.91	*	*	0.17	19%	0.17	19%	0.11	12%	0.45	50%
Idaho	0.66	0.73	0.11	15%	0.12	16%	0.07	10%	0.06	8%	0.37	51%
Illinois	4.90	5.35	0.56	10%	0.37	7%	0.92	17%	0.53	10%	2.98	56%
Indiana	2.60	4.02	0.69	17%	0.49	12%	0.59	15%	0.32	8%	1.93	48%
Iowa	1.28	1.70	0.22	13%	0.14	8%	0.24	14%	0.15	9%	0.95	56%
Kansas	1.13	1.62	0.16	10%	0.13	8%	0.36	22%	0.14	8%	0.83	51%
Kentucky	1.74	2.59	0.51	20%	0.38	15%	0.43	16%	0.17	6%	1.11	43%
Louisiana	1.73	2.56	0.25	10%	0.32	13%	0.72	28%	0.16	6%	1.11	43%
Maine	0.56	0.66	0.05	7%	0.07	11%	0.05	8%	0.06	10%	0.43	64%
Maryland	2.28	3.23	0.58	18%	0.45	14%	0.50	15%	0.24	8%	1.46	45%
Massachusetts	2.71	3.96	0.41	10%	0.34	9%	0.59	15%	0.39	10%	2.23	56%
Michigan	3.92	5.74	0.49	9%	0.45	8%	0.75	13%	0.56	10%	3.48	61%
Minnesota	2.23	2.73	0.33	12%	0.33	12%	0.29	11%	0.24	9%	1.54	56%
Mississippi	1.08	1.68	0.25	15%	0.23	13%	0.41	24%	0.11	7%	0.69	41%
Missouri	2.43	3.41	0.55	16%	0.38	11%	0.64	19%	0.26	8%	1.58	46%
Montana	0.43	0.46	0.09	19%	0.06	13%	0.03	6%	0.04	9%	0.25	53%
Nebraska	0.77	0.88	0.16	18%	0.07	8%	0.13	15%	0.08	9%	0.45	51%
Nevada	1.14	1.40	0.06	5%	0.08	6%	0.43	31%	0.12	8%	0.71	50%
New Hampshire	0.54	0.71	0.03	4%	0.09	12%	0.08	11%	0.08	11%	0.44	62%
New Jersey	3.39	4.49	0.31	7%	0.32	7%	0.92	21%	0.45	10%	2.50	56%
New Mexico	0.79	0.81	0.07	8%	0.04	5%	0.15	18%	0.08	10%	0.48	58%
New York	7.52	9.55	0.76	8%	0.78	8%	1.75	18%	1.02	11%	5.23	55%
North Carolina	4.01	5.75	0.95	17%	1.00	17%	1.03	18%	0.39	7%	2.38	41%
North Dakota	0.32	0.38	0.09	23%	0.06	15%	0.03	7%	0.03	7%	0.18	47%
Ohio	4.74	5.75	0.88	15%	0.60	10%	0.80	14%	0.46	8%	3.01	52%
Oklahoma	1.49	2.12	0.34	16%	0.20	9%	0.48	23%	0.14	7%	0.96	45%
Oregon	1.65	2.19	0.40	18%	0.47	21%	0.16	7%	0.17	8%	1.00	46%
Pennsylvania	5.13	6.70	1.06	16%	0.87	13%	0.93	14%	0.55	8%	3.29	49%
Rhode Island	0.42	0.62	0.04	6%	0.05	8%	0.09	15%	0.07	11%	0.37	60%

CE4.11.EL.ST Annual household end-use electricity expenditures in the United States by state—totals and percentages, 2020

	Number of housing units (million)	Total energy expenditures ^a (billion dollars)										
	Total U.S. ^b	Total	Space heating ^c		Water heating		Air conditioning		Refrigerators		Other ^d	
All homes	123.53	170.47	19.46	11%	19.54	11%	32.77	19%	14.27	8%	84.42	50%
South Carolina	1.97	3.31	0.49	15%	0.56	17%	0.71	22%	0.21	6%	1.34	41%
South Dakota	0.35	0.44	0.07	16%	0.06	13%	0.05	11%	0.04	8%	0.23	51%
Tennessee	2.66	4.00	0.74	19%	0.66	17%	0.68	17%	0.24	6%	1.67	42%
Texas	10.26	15.77	1.62	10%	1.71	11%	4.48	28%	1.06	7%	6.89	44%
Utah	1.04	1.08	0.07	6%	0.05	5%	0.20	18%	0.11	10%	0.66	61%
Vermont	0.26	0.32	0.02	6%	0.05	14%	0.02	7%	0.04	11%	0.20	62%
Virginia	3.24	5.12	0.73	14%	0.80	16%	0.84	16%	0.35	7%	2.40	47%
Washington	2.94	3.28	0.83	25%	0.61	19%	0.13	4%	0.24	7%	1.48	45%
West Virginia	0.70	1.09	0.28	25%	0.20	18%	0.13	12%	0.06	6%	0.43	39%
Wisconsin	2.39	2.95	0.26	9%	0.34	11%	0.32	11%	0.29	10%	1.74	59%
Wyoming	0.23	0.26	0.05	18%	0.03	10%	0.02	8%	0.02	9%	0.14	54%

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. Percentages are calculated on unrounded numbers. See RECS Terminology for the definitions of terms used in these tables. Differences in estimates between states may not be statistically significant.

^a Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded.

^b 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.

^c Includes main (primary) and secondary space heating.

^d Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the CE5 tables.

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.

Data release date: June 2023

Relative standard errors (RSEs) for CE4.11.EL.ST Annual household end-use electricity expenditures in the United States by state—totals and percentages, 2020

	RSEs for number of housing units	RSEs for total site electricity expenditures ^a										
	Total U.S. ^b	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d					
All homes	0.00	0.39	1.40	1.30	1.11	1.13	0.66	0.51	0.36	0.40	0.53	0.30
Alabama	0.00	3.23	7.94	6.62	6.38	5.50	4.59	3.67	3.75	3.65	3.91	2.30
Alaska	0.00	3.21	12.04	11.51	12.67	11.81	27.81	27.84	3.27	3.64	3.93	2.33
Arizona	0.00	2.51	8.44	8.15	6.80	6.11	2.96	1.97	2.26	2.26	3.59	2.17
Arkansas	0.00	3.67	8.00	7.45	7.58	7.05	5.42	4.15	3.24	4.23	5.72	3.51
California	0.00	1.94	8.58	7.87	9.13	8.72	3.98	2.97	1.57	1.65	1.98	1.05
Colorado	0.00	3.10	14.02	13.54	13.76	12.86	6.02	4.60	2.91	3.47	3.55	2.05
Connecticut	0.00	3.71	13.58	12.61	13.89	12.83	5.66	4.07	3.74	4.16	4.28	2.73
Delaware	0.00	4.26	14.28	12.05	10.53	9.54	5.93	5.46	3.79	5.08	5.28	3.88
District of Columbia	0.00	4.10	11.47	9.92	8.90	8.40	6.72	4.83	3.19	3.41	5.03	3.00
Florida	0.00	2.21	6.45	5.68	3.34	3.26	2.79	2.17	2.08	2.27	3.15	1.44
Georgia	0.00	2.82	7.54	6.94	6.91	5.50	4.62	3.12	2.64	2.94	2.92	2.04
Hawaii	0.00	4.25	48.53	47.43	6.78	5.83	9.42	8.05	3.53	4.38	5.62	2.97
Idaho	0.00	3.82	10.52	9.46	10.55	9.91	6.50	5.07	2.74	3.31	5.18	3.43
Illinois	0.00	2.45	11.77	10.47	9.87	9.04	2.96	2.34	2.31	2.48	2.52	1.96
Indiana	0.00	2.44	7.56	6.64	8.30	7.70	3.63	3.55	3.47	3.09	3.01	2.11
Iowa	0.00	2.90	14.04	12.37	12.52	11.50	4.03	3.70	3.42	4.03	3.11	2.91
Kansas	0.00	3.14	14.88	14.25	15.39	15.90	5.58	4.11	4.94	4.55	4.42	2.88
Kentucky	0.00	2.32	5.91	4.72	4.79	4.57	3.15	2.76	2.92	2.73	2.94	1.91
Louisiana	0.00	2.78	6.59	7.49	7.12	6.92	5.13	3.74	3.76	3.25	3.89	1.99
Maine	0.00	3.44	16.10	15.68	11.39	11.38	9.05	8.48	3.16	3.63	4.84	2.74
Maryland	0.00	3.26	8.24	6.62	5.54	5.37	4.43	3.91	2.51	2.97	4.22	2.36
Massachusetts	0.00	2.50	10.23	9.90	8.99	8.03	4.17	3.55	2.73	2.57	2.99	1.74
Michigan	0.00	3.01	16.50	15.46	12.53	12.50	5.81	4.77	3.07	3.36	3.78	2.55
Minnesota	0.00	3.50	15.92	14.25	10.13	8.81	4.42	4.29	3.11	3.50	3.79	3.07
Mississippi	0.00	3.43	10.38	8.86	8.02	7.37	5.15	4.27	4.47	5.28	4.56	3.11
Missouri	0.00	2.66	8.99	7.86	9.57	8.41	4.19	3.84	3.05	3.68	3.24	2.73
Montana	0.00	5.33	13.27	10.60	14.82	12.89	9.45	10.19	4.84	5.79	5.99	4.08
Nebraska	0.00	5.19	13.69	10.13	13.44	11.13	6.28	4.62	4.53	5.10	4.58	3.30
Nevada	0.00	4.15	17.09	16.55	17.07	17.09	6.71	4.06	3.92	3.90	4.66	2.66
New Hampshire	0.00	4.48	22.86	22.11	11.86	10.66	9.50	7.44	4.17	4.44	5.11	2.72
New Jersey	0.00	2.95	11.63	11.30	10.50	9.83	3.84	2.86	3.00	2.71	3.60	1.65
New Mexico	0.00	5.48	17.96	17.69	18.39	18.03	7.78	5.00	5.40	5.76	6.68	2.65
New York	0.00	2.15	8.08	8.03	6.08	6.10	3.88	2.60	2.04	2.18	2.80	1.47
North Carolina	0.00	2.12	5.44	4.46	3.69	3.22	3.57	2.75	2.59	2.22	2.60	1.92
North Dakota	0.00	3.54	8.64	7.48	7.80	6.33	6.37	5.67	2.81	3.20	4.54	3.35
Ohio	0.00	2.99	11.40	9.82	9.00	8.21	4.64	4.09	2.84	3.86	3.42	2.78
Oklahoma	0.00	3.55	12.27	10.52	11.05	9.67	4.50	3.61	4.12	4.16	4.05	3.57
Oregon	0.00	3.03	8.69	7.52	5.96	4.68	5.84	5.10	3.24	3.29	3.73	3.02
Pennsylvania	0.00	2.81	10.69	8.89	5.64	5.18	3.47	3.11	2.34	2.94	2.94	2.39
Rhode Island	0.00	4.60	21.23	19.82	16.54	15.74	7.05	5.92	5.55	5.51	5.26	2.51

Relative standard errors (RSEs) for CE4.11.EL.ST Annual household end-use electricity expenditures in the United States by state—totals and percentages, 2020

	RSEs for number of housing units	RSEs for total site electricity expenditures ^a										
	Total U.S. ^b	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d					
All homes	0.00	0.39	1.40	1.30	1.11	1.13	0.66	0.51	0.36	0.40	0.53	0.30
South Carolina	0.00	2.81	6.02	5.41	4.85	4.24	3.87	2.50	3.32	3.33	3.92	2.34
South Dakota	0.00	4.03	13.79	12.25	11.00	9.96	6.67	6.00	4.68	4.20	4.73	3.40
Tennessee	0.00	2.75	5.08	4.89	4.12	3.80	3.44	3.13	2.90	2.58	4.83	2.87
Texas	0.00	1.51	4.93	4.44	3.87	3.43	2.22	1.69	1.87	1.82	1.81	1.15
Utah	0.00	4.25	20.64	18.86	24.70	24.18	6.25	5.26	4.68	4.18	4.62	2.45
Vermont	0.00	4.14	17.55	16.42	12.55	10.75	7.54	6.73	2.87	3.74	4.33	2.13
Virginia	0.00	2.20	6.53	5.64	5.97	5.81	4.24	3.33	2.20	2.84	3.13	2.31
Washington	0.00	2.81	6.33	5.08	4.43	3.94	7.57	7.38	2.70	3.08	4.10	3.01
West Virginia	0.00	4.38	9.33	6.93	7.87	6.02	8.14	7.02	3.14	5.20	5.11	4.10
Wisconsin	0.00	2.76	17.78	16.65	9.34	8.41	4.09	3.68	2.82	3.36	3.04	2.40
Wyoming	0.00	4.70	14.79	12.78	17.00	15.16	7.82	6.97	3.73	4.72	5.07	4.12

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.

^a Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded.

^b *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.

^c Includes main (primary) and secondary space heating.

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