

Data release date: June 2023

CE4.16.EL.ST Annual household end-use electricity expenditures in the United States by state—averages, 2020

	Number of housing units (million)	Average energy expenditures ^a (dollars per household using the end use)					
		Total U.S. ^b	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators
All homes	123.53	1,380	300	339	299	116	683
Alabama	1.90	1,784	364	367	401	119	744
Alaska	0.26	1,628	476	633	55	173	1,112
Arizona	2.68	1,737	169	308	658	118	725
Arkansas	1.14	1,518	412	356	332	95	647
California	13.18	1,166	108	322	290	149	701
Colorado	2.26	897	195	282	142	95	545
Connecticut	1.38	1,749	440	459	267	164	989
Delaware	0.38	1,349	339	374	221	98	624
District of Columbia	0.32	833	153	233	176	73	376
Florida	8.06	1,582	177	266	492	104	652
Georgia	3.88	1,706	286	414	390	121	779
Hawaii	0.47	1,911	111	543	638	225	953
Idaho	0.66	1,106	343	375	133	89	568
Illinois	4.90	1,093	293	262	195	109	608
Indiana	2.60	1,546	539	423	240	123	744
Iowa	1.28	1,324	387	334	191	121	740
Kansas	1.13	1,439	348	369	344	122	741
Kentucky	1.74	1,492	459	334	258	96	640
Louisiana	1.73	1,480	199	299	452	91	642
Maine	0.56	1,173	229	369	126	116	754
Maryland	2.28	1,416	391	343	239	107	640
Massachusetts	2.71	1,458	358	422	249	145	822
Michigan	3.92	1,464	341	424	221	143	889
Minnesota	2.23	1,224	363	398	137	108	689
Mississippi	1.08	1,552	330	309	407	103	633
Missouri	2.43	1,405	393	332	276	109	651
Montana	0.43	1,065	400	326	99	92	567
Nebraska	0.77	1,148	385	265	180	102	584
Nevada	1.14	1,227	147	252	415	101	619
New Hampshire	0.54	1,312	197	408	183	140	817

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All homes	123.53	1,380	300	339	299	116	683
New Jersey	3.39	1,324	238	354	282	133	736
New Mexico	0.79	1,035	207	274	226	103	604
New York	7.52	1,270	256	369	266	137	695
North Carolina	4.01	1,432	325	331	283	99	594
North Dakota	0.32	1,211	500	320	89	90	571
Ohio	4.74	1,214	392	336	181	98	634
Oklahoma	1.49	1,418	418	292	333	95	643
Oregon	1.65	1,322	402	428	123	101	605
Pennsylvania	5.13	1,307	412	375	201	108	642
Rhode Island	0.42	1,482	271	433	244	162	892
South Carolina	1.97	1,681	342	360	381	109	682
South Dakota	0.35	1,275	457	352	159	103	656
Tennessee	2.66	1,506	396	331	275	91	630
Texas	10.26	1,538	251	302	460	104	672
Utah	1.04	1,041	180	286	208	102	635
Vermont	0.26	1,252	261	484	135	139	773
Virginia	3.24	1,578	330	387	272	109	739
Washington	2.94	1,117	415	329	87	81	502
West Virginia	0.70	1,567	633	396	204	93	615
Wisconsin	2.39	1,233	299	358	143	123	729
Wyoming	0.23	1,133	496	357	126	105	615

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 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.

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Relative standard errors (RSEs) for CE4.16.EL.ST Annual household end-use electricity expenditures in the United States by state—averages, 2020

	RSEs for number of housing units	RSEs for average electricity expenditures ^a					
	Total U.S. ^b	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d
All homes	0.00	0.39	1.35	0.89	0.62	0.35	0.53
Alabama	0.00	3.23	6.75	5.34	4.58	3.73	3.91
Alaska	0.00	3.21	8.25	9.78	19.58	3.26	3.93
Arizona	0.00	2.51	8.08	4.99	2.93	2.26	3.59
Arkansas	0.00	3.67	6.36	5.82	5.01	3.17	5.72
California	0.00	1.94	7.92	6.48	3.33	1.60	1.98
Colorado	0.00	3.10	11.31	11.22	5.69	2.91	3.55
Connecticut	0.00	3.71	12.41	10.92	5.23	3.69	4.28
Delaware	0.00	4.26	12.65	6.72	6.38	3.54	5.28
District of Columbia	0.00	4.10	9.83	6.61	5.93	3.20	5.03
Florida	0.00	2.21	6.21	2.89	2.78	2.03	3.15
Georgia	0.00	2.82	6.47	5.32	4.27	2.60	2.92
Hawaii	0.00	4.25	45.54	5.76	7.27	3.61	5.62
Idaho	0.00	3.82	9.96	8.36	6.20	2.74	5.18
Illinois	0.00	2.45	9.58	5.95	3.10	2.32	2.52
Indiana	0.00	2.44	6.79	5.87	3.13	3.45	3.01
Iowa	0.00	2.90	10.80	9.05	3.96	3.12	3.11
Kansas	0.00	3.14	13.79	9.80	5.41	4.94	4.42
Kentucky	0.00	2.32	5.68	3.68	2.83	2.89	2.94
Louisiana	0.00	2.78	5.84	5.68	4.63	3.80	3.89
Maine	0.00	3.44	11.98	7.74	7.29	3.14	4.84
Maryland	0.00	3.26	7.20	4.47	4.47	2.50	4.22
Massachusetts	0.00	2.50	9.15	6.37	3.98	2.64	2.99
Michigan	0.00	3.01	14.39	9.15	5.70	3.08	3.78
Minnesota	0.00	3.50	13.31	6.99	4.41	3.11	3.79
Mississippi	0.00	3.43	9.26	5.74	5.44	4.37	4.56
Missouri	0.00	2.66	8.15	6.97	3.56	3.00	3.24
Montana	0.00	5.33	11.48	12.48	7.98	4.84	5.99
Nebraska	0.00	5.19	12.59	9.01	5.75	4.48	4.58
Nevada	0.00	4.15	14.31	10.80	6.10	3.92	4.66
New Hampshire	0.00	4.48	15.69	7.22	7.41	4.17	5.11

Relative standard errors (RSEs) for CE4.16.EL.ST Annual household end-use electricity expenditures in the United States by state—averages, 2020

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	Total U.S. ^b	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d
All homes	0.00	0.39	1.35	0.89	0.62	0.35	0.53
New Jersey	0.00	2.95	10.47	7.39	3.62	3.00	3.60
New Mexico	0.00	5.48	17.50	11.69	7.57	5.25	6.68
New York	0.00	2.15	7.89	5.15	3.56	2.03	2.80
North Carolina	0.00	2.12	5.12	3.28	3.29	2.41	2.60
North Dakota	0.00	3.54	8.19	6.49	5.92	2.86	4.54
Ohio	0.00	2.99	10.03	7.26	4.18	2.69	3.42
Oklahoma	0.00	3.55	9.94	8.49	4.41	4.12	4.05
Oregon	0.00	3.03	7.19	5.06	5.43	3.24	3.73
Pennsylvania	0.00	2.81	9.69	4.55	2.90	2.33	2.94
Rhode Island	0.00	4.60	19.21	11.56	6.86	5.55	5.26
South Carolina	0.00	2.81	5.04	4.06	3.64	3.32	3.92
South Dakota	0.00	4.03	13.08	8.69	6.67	4.63	4.73
Tennessee	0.00	2.75	4.13	3.07	3.56	2.90	4.83
Texas	0.00	1.51	4.67	2.97	2.20	1.84	1.81
Utah	0.00	4.25	16.55	18.56	5.62	4.58	4.62
Vermont	0.00	4.14	15.25	7.82	5.32	2.87	4.33
Virginia	0.00	2.20	6.21	4.35	4.18	2.20	3.13
Washington	0.00	2.81	5.84	4.14	5.49	2.70	4.10
West Virginia	0.00	4.38	7.77	6.04	7.63	3.15	5.11
Wisconsin	0.00	2.76	14.04	7.27	4.00	2.77	3.04
Wyoming	0.00	4.70	12.65	14.38	6.74	3.73	5.07

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

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

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