

Data release date: June 2023

**CE3.6.ST Annual household site end-use expenditures in United States homes by state—totals and averages, 2020**

	Number of housing units (million)	Total energy expenditures <sup>a</sup> (billion dollars)											Average energy expenditures <sup>a</sup> (dollars 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	Other <sup>d</sup>				
<b>All homes</b>	123.53	232.76	60.78	26%	35.33	15%	32.77	14%	14.27	6%	89.61	38%	1,884	519	287	299	116	725
Alabama	1.90	3.96	0.89	23%	0.65	16%	0.71	18%	0.23	6%	1.48	37%	2,082	479	340	401	119	779
Alaska	0.26	0.78	0.31	40%	0.12	16%	*	*	0.04	6%	0.29	38%	3,018	1,254	486	55	173	1,143
Arizona	2.68	5.34	0.56	10%	0.74	14%	1.66	31%	0.32	6%	2.07	39%	1,994	230	278	658	118	772
Arkansas	1.14	2.20	0.62	28%	0.35	16%	0.35	16%	0.11	5%	0.77	35%	1,926	564	306	332	95	672
California	13.18	21.83	3.11	14%	3.84	18%	2.77	13%	1.96	9%	10.15	46%	1,656	270	292	290	149	770
Colorado	2.26	3.03	0.91	30%	0.39	13%	0.26	9%	0.21	7%	1.26	42%	1,342	406	175	142	95	557
Connecticut	1.38	3.88	1.33	34%	0.53	14%	0.33	9%	0.22	6%	1.47	38%	2,808	963	385	267	164	1,061
Delaware	0.38	0.73	0.22	31%	0.13	17%	0.08	11%	0.04	5%	0.26	36%	1,910	593	330	221	98	681
District of Columbia	0.32	0.38	0.10	26%	0.07	19%	0.05	14%	0.02	6%	0.13	35%	1,197	320	229	176	73	417
Florida	8.06	13.34	1.08	8%	2.19	16%	3.80	28%	0.84	6%	5.44	41%	1,654	186	272	492	104	675
Georgia	3.88	8.46	1.96	23%	1.43	17%	1.44	17%	0.46	5%	3.17	37%	2,180	512	369	390	121	817
Hawaii	0.47	0.98	*	*	0.23	23%	0.17	18%	0.11	11%	0.47	48%	2,058	99	569	638	225	986
Idaho	0.66	1.00	0.31	31%	0.18	18%	0.07	7%	0.06	6%	0.39	39%	1,520	476	268	133	89	587
Illinois	4.90	8.43	2.93	35%	0.93	11%	0.92	11%	0.53	6%	3.12	37%	1,720	606	190	195	109	636
Indiana	2.60	5.49	1.82	33%	0.75	14%	0.59	11%	0.32	6%	2.01	37%	2,111	705	291	240	123	773
Iowa	1.28	2.38	0.76	32%	0.25	11%	0.24	10%	0.15	6%	0.97	41%	1,854	598	197	191	121	756
Kansas	1.13	2.24	0.60	27%	0.27	12%	0.36	16%	0.14	6%	0.86	38%	1,984	536	244	344	122	762
Kentucky	1.74	3.21	0.97	30%	0.50	16%	0.43	13%	0.17	5%	1.15	36%	1,848	570	289	258	96	661
Louisiana	1.73	2.94	0.40	14%	0.48	16%	0.72	25%	0.16	5%	1.18	40%	1,704	244	275	452	91	685
Maine	0.56	1.30	0.52	40%	0.19	14%	0.05	4%	0.06	5%	0.48	37%	2,304	948	342	126	116	853
Maryland	2.28	4.39	1.41	32%	0.69	16%	0.50	11%	0.24	6%	1.55	35%	1,924	630	304	239	107	680
Massachusetts	2.71	6.66	2.32	35%	0.91	14%	0.59	9%	0.39	6%	2.45	37%	2,453	859	337	249	145	902
Michigan	3.92	8.59	2.79	32%	0.88	10%	0.75	9%	0.56	6%	3.61	42%	2,192	717	225	221	143	922
Minnesota	2.23	4.09	1.44	35%	0.54	13%	0.29	7%	0.24	6%	1.58	39%	1,833	647	243	137	108	709
Mississippi	1.08	2.05	0.48	24%	0.32	16%	0.41	20%	0.11	5%	0.72	35%	1,887	446	296	407	103	667

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	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>	123.53	232.76	60.78	26%	35.33	15%	32.77	14%	14.27	6%	89.61	38%	1,884	519	287	299	116	725
Missouri	2.43	4.64	1.51	33%	0.61	13%	0.64	14%	0.26	6%	1.62	35%	1,909	627	250	276	109	666
Montana	0.43	0.65	0.22	34%	0.11	16%	0.03	4%	0.04	6%	0.26	39%	1,511	518	247	99	92	594
Nebraska	0.77	1.21	0.40	33%	0.15	12%	0.13	11%	0.08	6%	0.46	38%	1,586	528	197	180	102	599
Nevada	1.14	1.93	0.32	17%	0.27	14%	0.43	23%	0.12	6%	0.78	40%	1,690	292	241	415	101	683
New Hampshire	0.54	1.36	0.51	37%	0.21	15%	0.08	6%	0.08	6%	0.50	36%	2,530	981	386	183	140	920
New Jersey	3.39	6.90	1.94	28%	0.87	13%	0.92	13%	0.45	7%	2.72	39%	2,034	575	257	282	133	801
New Mexico	0.79	1.17	0.29	25%	0.16	14%	0.15	13%	0.08	7%	0.49	42%	1,492	380	202	226	103	629
New York	7.52	17.44	5.62	32%	2.93	17%	1.75	10%	1.02	6%	6.11	35%	2,319	761	392	266	137	813
North Carolina	4.01	6.95	1.82	26%	1.24	18%	1.03	15%	0.39	6%	2.46	35%	1,731	464	311	283	99	614
North Dakota	0.32	0.52	0.21	40%	0.08	15%	0.03	5%	0.03	5%	0.18	35%	1,648	665	242	89	90	579
Ohio	4.74	8.75	3.27	37%	1.12	13%	0.80	9%	0.46	5%	3.10	35%	1,847	698	236	181	98	654
Oklahoma	1.49	2.69	0.69	26%	0.38	14%	0.48	18%	0.14	5%	1.00	37%	1,803	485	251	333	95	672
Oregon	1.65	2.72	0.76	28%	0.61	22%	0.16	6%	0.17	6%	1.03	38%	1,642	480	366	123	101	620
Pennsylvania	5.13	10.33	3.79	37%	1.51	15%	0.93	9%	0.55	5%	3.55	34%	2,015	743	296	201	108	692
Rhode Island	0.42	1.10	0.40	36%	0.15	13%	0.09	8%	0.07	6%	0.39	36%	2,617	953	348	244	162	943
South Carolina	1.97	3.78	0.78	21%	0.66	17%	0.71	19%	0.21	6%	1.41	37%	1,918	405	333	381	109	716
South Dakota	0.35	0.59	0.19	32%	0.09	14%	0.05	9%	0.04	6%	0.23	39%	1,709	567	245	159	103	665
Tennessee	2.66	4.67	1.23	26%	0.79	17%	0.68	15%	0.24	5%	1.74	37%	1,759	466	297	275	91	653
Texas	10.26	18.46	3.04	16%	2.68	15%	4.48	24%	1.06	6%	7.20	39%	1,800	310	262	460	104	702
Utah	1.04	1.71	0.48	28%	0.23	13%	0.20	12%	0.11	6%	0.70	41%	1,647	461	221	208	102	673
Vermont	0.26	0.62	0.24	39%	0.10	17%	0.02	4%	0.04	6%	0.22	35%	2,407	953	400	135	139	850
Virginia	3.24	6.56	1.72	26%	1.13	17%	0.84	13%	0.35	5%	2.52	38%	2,023	537	349	272	109	778
Washington	2.94	4.29	1.48	34%	0.91	21%	0.13	3%	0.24	6%	1.53	36%	1,461	518	310	87	81	522
West Virginia	0.70	1.38	0.51	37%	0.23	17%	0.13	9%	0.06	5%	0.44	32%	1,976	748	333	204	93	629
Wisconsin	2.39	4.25	1.33	31%	0.51	12%	0.32	7%	0.29	7%	1.80	42%	1,779	567	216	143	123	752
Wyoming	0.23	0.41	0.17	41%	0.05	13%	0.02	5%	0.02	6%	0.14	35%	1,802	748	238	126	105	629

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		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>	123.53	232.76	60.78	26%	35.33	15%	32.77	14%	14.27	6%	89.61	38%	1,884	519	287	299	116	725

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.

<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 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.

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**Relative standard errors (RSEs) for CE3.6.ST Annual household site end-use expenditures in United States homes by state—totals and averages, 2020**

	RSEs for number of housing units	RSEs for total energy expenditures <sup>a</sup>											RSEs for average energy expenditures <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	0.35	0.51	0.42	0.63	0.58	0.66	0.52	0.36	0.36	0.51	0.29	0.35	0.53	0.62	0.62
Alabama	0.00	3.10	5.13	3.64	4.27	3.78	4.59	3.55	3.75	3.45	3.95	1.97	3.10	5.04	4.27	4.58	3.73	3.95
Alaska	0.00	3.05	4.03	2.42	5.05	3.96	27.81	27.69	3.27	3.18	3.82	2.34	3.05	3.80	4.90	19.58	3.26	3.82
Arizona	0.00	2.17	4.15	4.32	3.20	3.16	2.96	1.92	2.26	2.14	3.49	1.99	2.17	4.12	3.16	2.93	2.26	3.49
Arkansas	0.00	3.54	4.82	3.39	4.59	4.74	5.42	4.00	3.24	4.05	5.52	3.03	3.54	4.91	4.59	5.01	3.17	5.52
California	0.00	1.58	3.04	2.54	1.83	1.88	3.98	3.24	1.57	1.62	2.02	0.96	1.58	3.24	1.85	3.33	1.60	2.02
Colorado	0.00	2.74	3.72	2.74	4.91	4.45	6.02	4.71	2.91	3.00	3.51	1.73	2.74	3.75	4.84	5.69	2.91	3.51
Connecticut	0.00	3.41	4.66	2.90	5.83	5.66	5.66	4.14	3.74	3.83	4.58	2.52	3.41	4.66	5.84	5.23	3.69	4.58
Delaware	0.00	3.65	6.41	4.88	5.11	5.06	5.93	5.30	3.79	4.07	5.78	3.67	3.65	6.49	5.11	6.38	3.54	5.78
District of Columbia	0.00	4.31	7.95	4.90	4.14	4.26	6.72	4.87	3.19	3.36	4.96	2.94	4.31	7.91	4.14	5.93	3.20	4.96
Florida	0.00	2.29	6.24	5.34	2.54	2.48	2.79	2.12	2.08	2.30	3.27	1.48	2.29	5.95	2.53	2.78	2.03	3.27
Georgia	0.00	2.57	3.58	2.69	4.12	3.50	4.62	3.15	2.64	2.62	3.00	1.46	2.57	3.49	4.10	4.27	2.60	3.00
Hawaii	0.00	3.99	47.77	46.56	5.44	4.90	9.42	8.10	3.53	4.17	5.51	2.89	3.99	44.87	4.77	7.27	3.61	5.51
Idaho	0.00	3.71	5.83	4.23	6.17	6.20	6.50	5.04	2.74	3.09	5.55	3.32	3.71	5.81	6.17	6.20	2.74	5.55
Illinois	0.00	1.98	3.40	2.15	3.26	3.10	2.96	2.37	2.31	2.27	2.44	1.79	1.98	3.32	3.26	3.10	2.32	2.44
Indiana	0.00	2.23	3.19	2.40	4.79	4.30	3.63	3.23	3.47	2.84	3.09	1.78	2.23	3.20	4.69	3.13	3.45	3.09
Iowa	0.00	2.50	4.18	2.70	6.05	5.50	4.03	3.33	3.42	3.73	3.16	2.30	2.50	4.20	6.04	3.96	3.12	3.16
Kansas	0.00	2.82	3.75	3.24	5.75	6.61	5.58	4.00	4.94	3.87	4.34	2.25	2.82	3.75	5.75	5.41	4.94	4.34
Kentucky	0.00	2.21	3.65	2.37	3.09	3.24	3.15	2.51	2.92	2.60	3.02	1.78	2.21	3.41	3.09	2.83	2.89	3.02
Louisiana	0.00	2.92	4.99	5.18	4.05	4.20	5.13	3.46	3.76	3.26	4.15	2.05	2.92	4.70	4.05	4.63	3.80	4.15
Maine	0.00	3.40	5.11	3.02	3.60	4.53	9.05	8.81	3.16	2.99	5.04	3.16	3.40	5.00	3.63	7.29	3.14	5.04
Maryland	0.00	3.00	4.02	2.59	3.38	3.00	4.43	3.56	2.51	2.69	4.34	2.30	3.00	3.91	3.36	4.47	2.50	4.34
Massachusetts	0.00	1.95	2.97	2.28	2.93	2.62	4.17	3.81	2.73	2.56	2.93	1.77	1.95	2.95	2.99	3.98	2.64	2.93
Michigan	0.00	2.70	3.80	2.48	5.62	5.65	5.81	5.16	3.07	3.12	3.75	2.13	2.70	3.82	5.61	5.70	3.08	3.75
Minnesota	0.00	3.01	4.57	2.90	5.43	4.52	4.42	4.04	3.11	3.04	3.91	2.65	3.01	4.52	5.42	4.41	3.11	3.91
Mississippi	0.00	3.34	6.05	4.98	5.41	4.62	5.15	4.26	4.47	4.93	4.83	2.73	3.34	6.13	5.41	5.44	4.37	4.83

Relative standard errors (RSEs) for CE3.6.ST Annual household site end-use expenditures in United States homes by state—totals and averages, 2020

	RSEs for number of housing units	RSEs for total energy expenditures <sup>a</sup>										RSEs for average energy expenditures <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>					
All homes	0.00	0.35	0.51	0.42	0.63	0.58	0.66	0.52	0.36	0.36	0.51	0.29	0.35	0.53	0.62	0.62	0.35	0.51
Missouri	0.00	2.24	3.29	2.48	4.83	4.45	4.19	3.15	3.05	2.94	3.23	2.21	2.24	3.26	4.83	3.56	3.00	3.23
Montana	0.00	4.71	5.46	3.37	7.73	6.54	9.45	9.60	4.84	4.76	6.70	3.45	4.71	5.47	7.75	7.98	4.84	6.70
Nebraska	0.00	3.98	5.59	3.32	5.22	4.26	6.28	4.20	4.53	3.90	4.58	2.60	3.98	5.46	5.22	5.75	4.48	4.58
Nevada	0.00	3.78	7.04	6.14	4.84	5.74	6.71	4.59	3.92	3.69	5.45	3.14	3.78	6.86	4.84	6.10	3.92	5.45
New Hampshire	0.00	4.03	5.73	3.54	4.61	4.24	9.50	8.04	4.17	4.07	5.64	3.68	4.03	5.26	4.52	7.41	4.17	5.64
New Jersey	0.00	2.87	3.96	2.75	3.43	3.44	3.84	2.87	3.00	2.66	3.98	1.84	2.87	3.95	3.43	3.62	3.00	3.98
New Mexico	0.00	4.40	6.22	5.68	6.48	6.19	7.78	5.44	5.40	5.34	6.63	3.59	4.40	6.28	6.48	7.57	5.25	6.63
New York	0.00	2.21	2.83	2.11	3.77	2.64	3.88	3.15	2.04	2.32	3.10	1.95	2.21	2.89	3.71	3.56	2.03	3.10
North Carolina	0.00	2.10	3.85	2.70	2.56	2.28	3.57	2.85	2.59	2.18	2.57	1.63	2.10	4.01	2.50	3.29	2.41	2.57
North Dakota	0.00	3.47	4.78	2.91	5.53	4.36	6.37	5.34	2.81	2.78	4.42	2.88	3.47	4.68	5.50	5.92	2.86	4.42
Ohio	0.00	2.52	3.76	2.42	4.15	3.76	4.64	4.11	2.84	3.14	3.46	2.20	2.52	3.69	4.15	4.18	2.69	3.46
Oklahoma	0.00	2.90	5.36	4.07	4.55	4.38	4.50	3.32	4.12	3.76	4.08	2.82	2.90	4.99	4.55	4.41	4.12	4.08
Oregon	0.00	2.90	4.81	3.49	3.98	2.98	5.84	4.73	3.24	2.93	3.66	2.34	2.90	4.85	3.98	5.43	3.24	3.66
Pennsylvania	0.00	2.04	3.33	2.27	2.96	2.77	3.47	3.11	2.34	2.28	2.96	2.06	2.04	3.26	2.96	2.90	2.33	2.96
Rhode Island	0.00	4.09	5.04	2.72	4.92	4.51	7.05	5.60	5.55	4.67	5.21	2.47	4.09	4.99	4.93	6.86	5.55	5.21
South Carolina	0.00	2.56	3.56	3.38	3.58	3.11	3.87	2.39	3.32	3.02	3.89	2.19	2.56	3.59	3.58	3.64	3.32	3.89
South Dakota	0.00	3.82	6.41	4.44	6.53	6.09	6.67	6.02	4.68	4.12	4.83	2.88	3.82	6.09	6.53	6.67	4.63	4.83
Tennessee	0.00	2.83	3.24	2.74	2.65	2.90	3.44	3.06	2.90	2.44	5.16	2.84	2.83	3.29	2.65	3.56	2.90	5.16
Texas	0.00	1.29	2.48	2.27	2.09	1.87	2.22	1.65	1.87	1.71	1.84	1.16	1.29	2.43	2.09	2.20	1.84	1.84
Utah	0.00	3.68	5.41	3.94	5.09	5.48	6.25	4.93	4.68	3.97	5.05	2.38	3.68	5.41	5.09	5.62	4.58	5.05
Vermont	0.00	3.28	4.46	2.78	4.26	3.61	7.54	6.96	2.87	2.92	4.44	2.50	3.28	4.13	4.23	5.32	2.87	4.44
Virginia	0.00	2.21	3.85	2.60	3.30	3.35	4.24	3.23	2.20	2.58	3.21	2.29	2.21	3.87	3.30	4.18	2.20	3.21
Washington	0.00	2.52	3.37	2.34	2.86	2.47	7.57	7.29	2.70	2.39	4.00	2.44	2.52	3.23	2.87	5.49	2.70	4.00
West Virginia	0.00	3.82	5.11	2.98	5.94	4.83	8.14	6.78	3.14	4.50	5.15	3.45	3.82	4.90	5.94	7.63	3.15	5.15
Wisconsin	0.00	2.36	4.06	2.89	5.39	4.83	4.09	3.46	2.82	3.10	3.02	2.05	2.36	4.03	5.47	4.00	2.77	3.02
Wyoming	0.00	4.06	6.10	3.73	7.43	6.10	7.82	7.37	3.73	4.40	5.01	3.55	4.06	6.03	7.43	6.74	3.73	5.01

**Relative standard errors (RSEs) for CE3.6.ST Annual household site end-use expenditures in United States homes by state—totals and averages, 2020**

	RSEs for number of housing units	RSEs for total energy expenditures <sup>a</sup>										RSEs for average energy expenditures <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	0.35	0.51	0.42	0.63	0.58	0.66	0.52	0.36	0.36	0.51	0.29	0.35	0.53	0.62	0.62	0.35	0.51

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 CE5 tables.