

Table CE5.1a Detailed household site electricity end-use consumption, part 1—totals, 2020

	Total site electricity consumption ^a (trillion Btu)											
	Space heating ^b	Air handlers for heating	Air conditioning ^c	Air handlers for cooling	Ceiling fans	Dehumidifiers	Humidifiers	Water heating	Clothes washers	Clothes dryers	Lighting	Electric vehicle charging
All homes	549.6	80.2	866.1	129.6	69.0	69.9	13.8	532.9	24.2	190.6	275.7	10.9
Census region and division												
Northeast	67.2	15.7	92.8	9.6	5.1	20.5	2.7	60.0	3.5	24.3	43.0	1.3
New England	13.8	4.8	19.3	1.6	1.1	4.9	0.7	14.0	1.0	8.2	10.3	0.5
Middle Atlantic	53.4	10.9	73.5	8.0	4.0	15.6	2.0	46.0	2.5	16.1	32.7	0.8
Midwest	125.1	36.2	131.0	20.5	10.9	26.2	5.4	91.0	5.5	39.6	58.8	1.6
East North Central	77.0	25.5	83.6	12.9	7.1	19.6	3.8	58.0	3.6	24.1	38.8	0.8
West North Central	48.1	10.6	47.5	7.6	3.8	6.6	1.6	33.0	1.8	15.5	20.0	Q
South	278.6	16.6	497.3	78.7	43.1	19.7	3.6	301.4	10.3	91.8	116.8	3.3
South Atlantic	138.6	8.1	248.0	40.0	20.8	13.8	2.3	172.1	5.2	46.6	57.2	1.7
East South Central	61.8	3.3	66.4	10.6	6.4	2.9	0.5	52.9	1.8	16.5	18.8	Q
West South Central	78.2	5.1	182.9	28.1	16.0	2.9	0.8	76.4	3.3	28.7	40.8	Q
West	78.6	11.7	144.9	20.8	10.0	3.6	2.1	80.4	5.0	34.9	57.2	4.6
Mountain	26.2	6.2	79.7	11.9	4.8	1.0	1.3	28.1	1.9	16.2	20.7	1.4
Mountain North	15.3	4.8	18.0	2.8	1.6	0.5	0.9	12.4	1.0	8.9	10.7	0.6
Mountain South	10.9	1.4	61.7	9.1	3.2	0.5	0.4	15.7	0.9	7.3	9.9	0.8
Pacific	52.5	5.5	65.3	8.9	5.2	2.6	0.8	52.4	3.1	18.7	36.6	3.2
Census urban/rural classification^d												
Urban	354.6	60.4	702.7	105.6	52.5	50.0	11.0	367.3	18.5	140.5	219.6	8.6
Urbanized area	287.1	51.7	635.1	96.2	46.3	43.8	10.0	315.5	16.2	121.0	196.9	8.2
Urban cluster	67.5	8.7	67.6	9.4	6.2	6.2	1.0	51.8	2.3	19.5	22.7	0.5
Rural	195.0	19.8	163.4	24.0	16.5	19.9	2.8	165.6	5.7	50.1	56.1	2.3
Climate region^e												
Very cold and Cold	174.7	50.3	168.0	23.1	14.3	38.8	7.3	134.6	8.2	61.3	88.2	3.1
Mixed-humid	219.8	20.0	269.5	41.6	22.7	21.3	4.2	197.3	7.4	63.7	88.6	2.8
Mixed-dry and Hot-dry	20.7	3.6	119.0	17.2	7.2	1.4	0.9	28.8	2.7	15.1	29.3	2.4
Hot-humid	99.1	3.8	298.8	46.2	23.7	7.0	1.1	139.7	4.7	41.5	54.3	1.2
Marine	35.2	2.5	10.8	1.5	1.2	1.4	0.3	32.5	1.2	9.0	15.3	1.4

Table CE5.1a Detailed household site electricity end-use consumption, part 1—totals, 2020

Total site electricity consumption^a
(trillion Btu)

	Space heating ^b	Air handlers for heating	Air conditioning ^c	Air handlers for cooling	Ceiling fans	Dehumidifiers	Humidifiers	Water heating	Clothes washers	Clothes dryers	Lighting	Electric vehicle charging
All homes	549.6	80.2	866.1	129.6	69.0	69.9	13.8	532.9	24.2	190.6	275.7	10.9
Housing unit type												
Single-family detached	376.6	70.9	660.3	108.5	54.0	60.7	10.7	326.5	18.3	143.7	200.1	10.4
Single-family attached	27.2	3.7	40.3	5.6	3.0	3.2	0.7	24.5	1.4	9.7	14.9	0.4
Apartments in buildings with 2–4 units	30.2	1.6	37.3	3.5	2.3	1.9	0.6	33.7	0.9	6.4	13.9	N
Apartments in buildings with 5 or more units	60.8	1.9	78.4	8.1	6.0	2.6	1.4	88.8	2.1	17.2	34.2	N
Mobile homes	54.7	2.1	49.7	4.0	3.8	1.5	0.4	59.3	1.6	13.7	12.7	Q
Ownership of housing unit												
Owned	401.2	70.9	674.7	108.3	55.2	62.3	11.3	350.3	19.0	148.5	206.7	10.5
Single-family	347.0	68.3	616.5	103.1	50.9	59.9	10.6	293.3	17.2	133.9	190.0	10.4
Apartments	10.9	0.8	19.1	2.0	1.3	1.2	0.3	12.0	0.5	3.5	6.8	N
Mobile homes	43.3	1.8	39.0	3.2	3.0	1.3	0.3	45.1	1.3	11.0	9.8	Q
Rented ^d	148.4	9.3	191.4	21.3	13.8	7.6	2.6	182.5	5.3	42.1	69.0	Q
Single-family	56.9	6.3	84.0	11.0	6.1	4.0	0.8	57.7	2.5	19.4	24.9	Q
Apartments	80.1	2.7	96.6	9.6	7.0	3.3	1.7	110.6	2.5	20.0	41.2	N
Mobile homes	11.4	0.3	10.7	0.7	0.7	Q	0.1	14.2	0.3	2.7	2.9	Q
Year of construction												
Before 1950	77.8	18.3	113.4	13.4	7.5	16.8	2.4	60.8	3.5	24.4	41.3	1.1
1950 to 1959	42.0	11.7	84.8	11.4	5.2	8.4	1.5	39.7	2.3	16.2	23.8	0.6
1960 to 1969	46.4	9.0	84.5	11.9	5.7	6.5	1.2	42.9	2.2	16.0	26.6	0.7
1970 to 1979	106.7	12.5	129.8	18.1	8.5	9.5	1.8	84.7	3.4	26.4	37.6	1.0
1980 to 1989	89.4	8.2	119.8	18.2	9.4	7.0	1.5	80.9	3.1	25.4	34.8	0.9
1990 to 1999	76.5	9.2	132.8	21.4	12.1	10.3	2.3	87.6	3.9	31.4	42.8	2.1
2000 to 2009	69.2	7.7	132.9	22.8	13.3	7.5	2.1	80.0	3.6	31.1	43.7	2.3
2010 to 2015	24.3	2.2	38.7	7.3	4.2	2.1	0.5	31.7	1.3	11.2	14.7	0.6
2016 to 2020	17.1	1.5	29.5	5.0	3.3	1.9	0.5	24.6	1.0	8.5	10.4	1.6

Table CE5.1a Detailed household site electricity end-use consumption, part 1—totals, 2020

Total site electricity consumption^a
(trillion Btu)

	Space heating ^b	Air handlers for heating	Air conditioning ^c	Air handlers for cooling	Ceiling fans	Dehumidifiers	Humidifiers	Water heating	Clothes washers	Clothes dryers	Lighting	Electric vehicle charging
All homes	549.6	80.2	866.1	129.6	69.0	69.9	13.8	532.9	24.2	190.6	275.7	10.9
Total square footage^b												
Less than 1,000	93.7	4.3	115.2	10.2	8.5	4.2	1.7	119.8	3.3	25.4	45.6	Q
1,000 to 1,499	120.3	10.2	170.8	20.4	14.7	9.0	2.4	136.4	5.3	40.7	52.4	1.3
1,500 to 1,999	102.7	14.7	169.7	23.5	14.6	12.0	2.1	96.4	5.0	38.5	48.6	1.5
2,000 to 2,499	77.1	13.7	131.9	21.2	10.5	12.4	2.0	68.2	3.8	30.2	39.6	1.9
2,500 to 2,999	51.4	11.8	93.9	16.4	7.6	11.0	1.6	40.5	2.6	20.2	28.1	1.3
3,000 or more	104.5	25.4	184.5	37.8	13.0	21.4	4.0	71.5	4.4	35.5	61.4	4.7
Number of household members												
1 member	129.1	16.3	161.9	21.4	12.3	11.8	2.6	83.4	3.8	26.9	49.8	0.7
2 members	209.2	32.7	319.9	49.1	25.9	29.3	5.5	178.4	8.7	67.0	101.2	4.5
3 members	86.9	12.7	144.9	22.1	12.0	11.3	2.4	96.3	4.2	34.2	46.2	2.0
4 members	69.9	10.6	135.2	20.9	10.8	9.8	2.1	99.1	4.2	34.2	44.1	2.4
5 members	32.2	4.8	62.6	9.9	5.2	4.7	0.7	43.6	1.9	16.3	19.8	1.0
6 or more members	22.3	3.2	41.6	6.2	2.9	3.0	0.6	32.0	1.5	12.0	14.5	Q
2020 annual household income												
Less than \$5,000	22.0	1.4	22.4	2.2	1.5	1.3	0.3	24.1	0.6	4.3	8.2	Q
\$5,000 to \$9,999	15.7	1.1	19.1	1.7	1.3	1.1	0.2	20.2	0.5	3.9	6.7	Q
\$10,000 to \$19,999	49.4	4.2	53.0	5.5	3.4	2.8	0.6	41.3	1.3	10.0	16.7	Q
\$20,000 to \$39,999	109.5	13.1	146.7	18.3	11.3	9.5	2.0	111.8	4.2	31.9	42.5	Q
\$40,000 to \$59,999	85.2	12.1	130.6	18.4	10.5	7.9	1.7	89.9	3.8	30.3	38.3	Q
\$60,000 to \$99,999	123.0	19.5	196.3	30.2	17.2	18.8	3.3	119.8	5.9	47.0	62.4	1.9
\$100,000 to \$149,999	75.2	13.2	133.7	22.1	11.2	12.5	2.5	65.4	3.9	30.7	41.9	2.1
\$150,000 or more	69.5	15.5	164.3	31.1	12.5	15.9	3.3	60.3	4.1	32.6	58.9	5.4
Payment method for energy bills												
All paid by household	520.6	78.2	829.6	126.8	67.0	68.4	13.0	504.0	23.4	184.1	258.6	10.8
Some paid by household, some included in rent or condo fee	14.5	0.8	15.4	1.2	0.8	0.3	0.3	15.8	0.4	3.0	7.0	Q
All included in rent or condo fee	2.8	0.1	2.5	0.2	0.1	Q	*	3.8	0.1	0.4	0.9	N
Some other method	11.7	1.2	18.5	1.4	1.1	1.2	0.5	9.2	0.4	3.1	9.3	Q

Table CE5.1a Detailed household site electricity end-use consumption, part 1—totals, 2020

	Total site electricity consumption ^a (trillion Btu)											
	Space heating ^b	Air handlers for heating	Air conditioning ^c	Air handlers for cooling	Ceiling fans	Dehumidifiers	Humidifiers	Water heating	Clothes washers	Clothes dryers	Lighting	Electric vehicle charging
All homes	549.6	80.2	866.1	129.6	69.0	69.9	13.8	532.9	24.2	190.6	275.7	10.9

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.

Btu = British thermal units

^a Electricity consumption from on-site solar photovoltaic generation (that is, solar panels) is included. Small amounts of standby power for devices that some households have but do not use (for example, dishwashers) are not included.

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

^c Includes electricity used by evaporative coolers.

^d 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.

^e 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*.

^f *Rented* includes households that occupy their primary housing units without paying rent.

^g *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.

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 0.05 and rounds to zero.

Table CE5.1a Detailed household site electricity end-use consumption, part 1—totals, 2020

	Total site electricity consumption ^a (billion kWh)											
	Space heating ^b	Air handlers for heating	Air conditioning ^c	Air handlers for cooling	Ceiling fans	Dehumidifiers	Humidifiers	Water heating	Clothes washers	Clothes dryers	Lighting	Electric vehicle charging
All homes	161.1	23.5	253.8	38.0	20.2	20.5	4.0	156.2	7.1	55.9	80.8	3.2
Census region and division												
Northeast	19.7	4.6	27.2	2.8	1.5	6.0	0.8	17.6	1.0	7.1	12.6	0.4
New England	4.0	1.4	5.6	0.5	0.3	1.4	0.2	4.1	0.3	2.4	3.0	0.1
Middle Atlantic	15.7	3.2	21.5	2.3	1.2	4.6	0.6	13.5	0.7	4.7	9.6	0.2
Midwest	36.7	10.6	38.4	6.0	3.2	7.7	1.6	26.7	1.6	11.6	17.2	0.5
East North Central	22.6	7.5	24.5	3.8	2.1	5.7	1.1	17.0	1.1	7.1	11.4	0.2
West North Central	14.1	3.1	13.9	2.2	1.1	1.9	0.5	9.7	0.5	4.5	5.9	Q
South	81.7	4.9	145.7	23.1	12.6	5.8	1.1	88.3	3.0	26.9	34.2	1.0
South Atlantic	40.6	2.4	72.7	11.7	6.1	4.0	0.7	50.4	1.5	13.7	16.8	0.5
East South Central	18.1	1.0	19.5	3.1	1.9	0.9	0.2	15.5	0.5	4.8	5.5	Q
West South Central	22.9	1.5	53.6	8.2	4.7	0.9	0.2	22.4	1.0	8.4	11.9	Q
West	23.1	3.4	42.5	6.1	2.9	1.1	0.6	23.6	1.5	10.2	16.8	1.4
Mountain	7.7	1.8	23.3	3.5	1.4	0.3	0.4	8.2	0.6	4.7	6.1	0.4
Mountain North	4.5	1.4	5.3	0.8	0.5	0.1	0.3	3.6	0.3	2.6	3.1	0.2
Mountain South	3.2	0.4	18.1	2.7	0.9	0.1	0.1	4.6	0.3	2.1	2.9	0.2
Pacific	15.4	1.6	19.1	2.6	1.5	0.8	0.2	15.3	0.9	5.5	10.7	0.9
Census urban/rural classification^d												
Urban	103.9	17.7	206.0	30.9	15.4	14.7	3.2	107.6	5.4	41.2	64.4	2.5
Urbanized area	84.2	15.2	186.1	28.2	13.6	12.8	2.9	92.5	4.7	35.5	57.7	2.4
Urban cluster	19.8	2.6	19.8	2.8	1.8	1.8	0.3	15.2	0.7	5.7	6.7	0.1
Rural	57.1	5.8	47.9	7.0	4.8	5.8	0.8	48.5	1.7	14.7	16.4	0.7
Climate region^e												
Very cold and Cold	51.2	14.7	49.2	6.8	4.2	11.4	2.2	39.5	2.4	18.0	25.8	0.9
Mixed-humid	64.4	5.9	79.0	12.2	6.6	6.2	1.2	57.8	2.2	18.7	26.0	0.8
Mixed-dry and Hot-dry	6.1	1.1	34.9	5.0	2.1	0.4	0.3	8.4	0.8	4.4	8.6	0.7
Hot-humid	29.0	1.1	87.6	13.5	6.9	2.1	0.3	40.9	1.4	12.2	15.9	0.3
Marine	10.3	0.7	3.2	0.4	0.3	0.4	0.1	9.5	0.3	2.6	4.5	0.4

Table CE5.1a Detailed household site electricity end-use consumption, part 1—totals, 2020

Total site electricity consumption^a
(billion kWh)

	Space heating ^b	Air handlers for heating	Air conditioning ^c	Air handlers for cooling	Ceiling fans	Dehumidifiers	Humidifiers	Water heating	Clothes washers	Clothes dryers	Lighting	Electric vehicle charging
All homes	161.1	23.5	253.8	38.0	20.2	20.5	4.0	156.2	7.1	55.9	80.8	3.2
Housing unit type												
Single-family detached	110.4	20.8	193.5	31.8	15.8	17.8	3.1	95.7	5.4	42.1	58.6	3.1
Single-family attached	8.0	1.1	11.8	1.6	0.9	0.9	0.2	7.2	0.4	2.8	4.4	0.1
Apartments in buildings with 2–4 units	8.8	0.5	10.9	1.0	0.7	0.6	0.2	9.9	0.3	1.9	4.1	N
Apartments in buildings with 5 or more units	17.8	0.6	23.0	2.4	1.8	0.8	0.4	26.0	0.6	5.0	10.0	N
Mobile homes	16.0	0.6	14.6	1.2	1.1	0.4	0.1	17.4	0.5	4.0	3.7	Q
Ownership of housing unit												
Owned	117.6	20.8	197.7	31.7	16.2	18.3	3.3	102.7	5.6	43.5	60.6	3.1
Single-family	101.7	20.0	180.7	30.2	14.9	17.5	3.1	86.0	5.0	39.3	55.7	3.0
Apartments	3.2	0.2	5.6	0.6	0.4	0.4	0.1	3.5	0.1	1.0	2.0	N
Mobile homes	12.7	0.5	11.4	0.9	0.9	0.4	0.1	13.2	0.4	3.2	2.9	Q
Rented ^d	43.5	2.7	56.1	6.2	4.0	2.2	0.7	53.5	1.6	12.4	20.2	Q
Single-family	16.7	1.8	24.6	3.2	1.8	1.2	0.2	16.9	0.7	5.7	7.3	Q
Apartments	23.5	0.8	28.3	2.8	2.0	1.0	0.5	32.4	0.7	5.9	12.1	N
Mobile homes	3.3	0.1	3.1	0.2	0.2	Q	*	4.2	0.1	0.8	0.9	Q
Year of construction												
Before 1950	22.8	5.4	33.2	3.9	2.2	4.9	0.7	17.8	1.0	7.1	12.1	0.3
1950 to 1959	12.3	3.4	24.9	3.3	1.5	2.5	0.4	11.6	0.7	4.7	7.0	0.2
1960 to 1969	13.6	2.6	24.8	3.5	1.7	1.9	0.4	12.6	0.6	4.7	7.8	0.2
1970 to 1979	31.3	3.7	38.0	5.3	2.5	2.8	0.5	24.8	1.0	7.7	11.0	0.3
1980 to 1989	26.2	2.4	35.1	5.3	2.7	2.0	0.4	23.7	0.9	7.5	10.2	0.3
1990 to 1999	22.4	2.7	38.9	6.3	3.6	3.0	0.7	25.7	1.1	9.2	12.5	0.6
2000 to 2009	20.3	2.2	38.9	6.7	3.9	2.2	0.6	23.4	1.1	9.1	12.8	0.7
2010 to 2015	7.1	0.7	11.3	2.2	1.2	0.6	0.1	9.3	0.4	3.3	4.3	0.2
2016 to 2020	5.0	0.4	8.6	1.5	1.0	0.6	0.1	7.2	0.3	2.5	3.1	0.5

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(billion kWh)

	Space heating ^b	Air handlers for heating	Air conditioning ^c	Air handlers for cooling	Ceiling fans	Dehumidifiers	Humidifiers	Water heating	Clothes washers	Clothes dryers	Lighting	Electric vehicle charging
All homes	161.1	23.5	253.8	38.0	20.2	20.5	4.0	156.2	7.1	55.9	80.8	3.2
Total square footage^b												
Less than 1,000	27.5	1.3	33.8	3.0	2.5	1.2	0.5	35.1	1.0	7.5	13.4	Q
1,000 to 1,499	35.2	3.0	50.1	6.0	4.3	2.6	0.7	40.0	1.5	11.9	15.4	0.4
1,500 to 1,999	30.1	4.3	49.7	6.9	4.3	3.5	0.6	28.2	1.5	11.3	14.3	0.4
2,000 to 2,499	22.6	4.0	38.7	6.2	3.1	3.6	0.6	20.0	1.1	8.9	11.6	0.6
2,500 to 2,999	15.1	3.5	27.5	4.8	2.2	3.2	0.5	11.9	0.7	5.9	8.2	0.4
3,000 or more	30.6	7.4	54.1	11.1	3.8	6.3	1.2	21.0	1.3	10.4	18.0	1.4
Number of household members												
1 member	37.8	4.8	47.4	6.3	3.6	3.5	0.8	24.4	1.1	7.9	14.6	0.2
2 members	61.3	9.6	93.8	14.4	7.6	8.6	1.6	52.3	2.5	19.6	29.7	1.3
3 members	25.5	3.7	42.5	6.5	3.5	3.3	0.7	28.2	1.2	10.0	13.5	0.6
4 members	20.5	3.1	39.6	6.1	3.2	2.9	0.6	29.0	1.2	10.0	12.9	0.7
5 members	9.4	1.4	18.3	2.9	1.5	1.4	0.2	12.8	0.6	4.8	5.8	0.3
6 or more members	6.5	0.9	12.2	1.8	0.8	0.9	0.2	9.4	0.4	3.5	4.3	Q
2020 annual household income												
Less than \$5,000	6.5	0.4	6.6	0.6	0.5	0.4	0.1	7.1	0.2	1.3	2.4	Q
\$5,000 to \$9,999	4.6	0.3	5.6	0.5	0.4	0.3	0.1	5.9	0.1	1.1	1.9	Q
\$10,000 to \$19,999	14.5	1.2	15.5	1.6	1.0	0.8	0.2	12.1	0.4	2.9	4.9	Q
\$20,000 to \$39,999	32.1	3.9	43.0	5.4	3.3	2.8	0.6	32.8	1.2	9.4	12.5	Q
\$40,000 to \$59,999	25.0	3.6	38.3	5.4	3.1	2.3	0.5	26.4	1.1	8.9	11.2	Q
\$60,000 to \$99,999	36.0	5.7	57.5	8.9	5.0	5.5	1.0	35.1	1.7	13.8	18.3	0.6
\$100,000 to \$149,999	22.1	3.9	39.2	6.5	3.3	3.7	0.7	19.2	1.1	9.0	12.3	0.6
\$150,000 or more	20.4	4.6	48.2	9.1	3.7	4.7	1.0	17.7	1.2	9.6	17.3	1.6
Payment method for energy bills												
All paid by household	152.6	22.9	243.1	37.2	19.6	20.0	3.8	147.7	6.9	54.0	75.8	3.2
Some paid by household, some included in rent or condo fee	4.2	0.2	4.5	0.3	0.2	0.1	0.1	4.6	0.1	0.9	2.0	Q
All included in rent or condo fee	0.8	*	0.7	0.1	*	Q	*	1.1	*	0.1	0.3	N
Some other method	3.4	0.3	5.4	0.4	0.3	0.3	0.2	2.7	0.1	0.9	2.7	Q

Table CE5.1a Detailed household site electricity end-use consumption, part 1—totals, 2020

Total site electricity consumption ^a (billion kWh)												
	Space heating ^b	Air handlers for heating	Air conditioning ^c	Air handlers for cooling	Ceiling fans	Dehumidifiers	Humidifiers	Water heating	Clothes washers	Clothes dryers	Lighting	Electric vehicle charging
All homes	161.1	23.5	253.8	38.0	20.2	20.5	4.0	156.2	7.1	55.9	80.8	3.2

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.

kWh = kilowatthours

^a Electricity consumption from on-site solar photovoltaic generation (that is, solar panels) is included. Small amounts of standby power for devices that some households have but do not use (for example, dishwashers) are not included.

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

^c Includes electricity used by evaporative coolers.

^d 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.

^e 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*.

^f *Rented* includes households that occupy their primary housing units without paying rent.

^g *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.

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 0.05 and rounds to zero.

Relative standard errors (RSEs) for Table CE5.1a Detailed household site electricity end-use consumption, part 1—totals, 2020

RSEs for total site electricity consumption^a

	Space heating ^b	Air handlers for heating	Air conditioning ^c	Air handlers for cooling	Ceiling fans	Dehumidifiers	Humidifiers	Water heating	Clothes washers	Clothes dryers	Lighting	Electric vehicle charging
All homes	1.43	0.93	0.66	0.89	1.04	2.50	2.39	1.17	0.65	0.96	0.89	9.34
Census region and division												
Northeast	5.35	2.11	1.67	3.49	3.11	3.93	5.25	3.14	1.63	2.54	2.33	23.07
New England	6.29	2.94	2.65	4.98	4.56	5.72	7.02	5.10	1.82	2.39	3.32	27.89
Middle Atlantic	6.80	2.98	2.03	4.09	3.75	5.13	6.67	4.05	1.96	3.52	2.92	26.90
Midwest	4.60	1.74	1.50	2.01	2.24	3.94	3.98	3.24	1.62	2.46	2.28	25.12
East North Central	6.48	2.07	1.81	2.45	3.14	4.86	5.21	4.37	2.08	3.35	3.15	33.26
West North Central	5.45	2.40	2.17	2.81	3.54	6.49	5.04	5.11	2.31	3.13	3.17	40.12
South	1.80	1.69	1.05	1.33	1.44	6.32	5.18	1.54	1.31	1.56	1.67	23.44
South Atlantic	2.47	2.69	1.65	1.82	2.41	6.50	5.23	1.82	1.55	1.97	2.50	30.69
East South Central	3.33	3.89	1.93	2.41	3.32	12.92	10.10	2.95	2.46	2.97	3.58	55.70
West South Central	3.72	2.46	1.72	2.60	2.09	18.02	11.28	3.29	2.06	2.70	3.12	41.15
West	3.38	1.79	1.62	2.12	2.52	12.22	6.00	2.68	1.37	2.11	2.10	13.86
Mountain	5.57	2.50	2.28	2.92	2.74	20.55	6.68	4.31	2.00	2.86	2.83	30.39
Mountain North	6.65	2.73	3.27	4.34	4.25	26.52	7.91	6.42	2.50	3.15	3.76	42.64
Mountain South	6.83	5.41	2.49	3.22	3.55	27.91	9.77	5.70	3.10	4.83	5.23	30.89
Pacific	4.39	2.97	2.77	3.43	4.57	14.65	10.49	3.09	1.86	2.82	2.98	15.54
Census urban/rural classification^d												
Urban	2.04	1.19	0.83	1.10	1.33	3.34	2.59	1.54	0.84	1.16	1.17	11.04
Urbanized area	2.17	1.41	0.94	1.25	1.51	3.70	2.72	1.80	0.88	1.32	1.29	11.19
Urban cluster	5.45	4.39	3.64	3.86	3.80	9.40	8.14	3.94	3.04	3.46	4.44	38.77
Rural	2.91	2.80	2.00	2.34	2.52	4.47	5.32	2.25	1.77	1.97	2.55	23.48
Climate region^e												
Very cold and Cold	3.48	1.32	1.22	1.86	2.05	2.99	3.03	2.51	1.21	1.93	1.67	16.28
Mixed-humid	1.91	2.31	1.35	1.61	2.13	5.03	4.14	1.84	1.68	1.86	2.18	25.43
Mixed-dry and Hot-dry	7.33	3.73	1.75	2.50	3.24	19.18	9.43	5.36	2.62	4.40	4.06	20.33
Hot-humid	3.29	2.82	1.69	2.22	2.28	12.82	11.73	2.29	2.05	2.71	2.51	31.48
Marine	5.78	4.64	5.16	7.50	7.91	18.97	18.03	4.19	3.55	4.22	5.21	20.69

Relative standard errors (RSEs) for Table CE5.1a Detailed household site electricity end-use consumption, part 1—totals, 2020

RSEs for total site electricity consumption^a

	Space heating ^b	Air handlers for heating	Air conditioning ^c	Air handlers for cooling	Ceiling fans	Dehumidifiers	Humidifiers	Water heating	Clothes washers	Clothes dryers	Lighting	Electric vehicle charging
All homes	1.43	0.93	0.66	0.89	1.04	2.50	2.39	1.17	0.65	0.96	0.89	9.34
Housing unit type												
Single-family detached	1.60	1.04	0.68	0.96	1.17	2.81	2.31	1.53	0.65	1.00	1.11	9.83
Single-family attached	5.00	3.87	2.70	3.55	4.06	7.98	7.92	5.01	1.82	3.15	3.31	30.49
Apartments in buildings with 2–4 units	6.65	6.32	4.08	6.54	6.49	18.68	13.87	4.97	4.49	5.72	4.71	0.00
Apartments in buildings with 5 or more units	4.16	3.88	2.24	3.25	3.70	18.66	8.74	2.95	3.00	3.73	3.18	0.00
Mobile homes	4.65	4.24	2.92	5.01	5.64	20.68	12.59	3.70	3.83	5.33	4.28	67.63
Ownership of housing unit												
Owned	1.80	1.11	0.92	1.19	1.26	2.32	2.45	1.62	0.89	1.20	1.18	9.69
Single-family	1.76	1.12	0.88	1.19	1.20	2.46	2.44	1.57	0.80	1.17	1.23	9.78
Apartments	14.02	13.00	6.83	10.28	10.77	23.94	19.19	8.25	6.37	7.80	7.48	0.00
Mobile homes	6.01	5.05	4.26	6.17	7.37	24.32	14.32	4.69	5.02	6.08	5.00	76.31
Rented ^f	2.59	3.76	2.05	2.79	2.81	9.56	6.71	2.23	2.11	2.36	2.22	56.75
Single-family	5.89	5.18	4.04	4.50	5.05	13.65	10.23	4.23	3.54	3.68	4.19	58.46
Apartments	3.43	3.35	2.07	3.22	3.27	17.15	8.32	2.77	2.91	3.80	2.49	0.00
Mobile homes	9.81	12.34	9.35	10.88	11.68	40.48	32.49	10.25	9.36	11.70	11.78	20.14
Year of construction												
Before 1950	4.83	2.69	1.94	4.15	3.70	5.86	6.89	3.60	2.29	3.09	2.65	32.37
1950 to 1959	5.00	3.28	2.41	3.86	4.34	7.81	8.39	5.47	2.38	3.41	2.77	25.43
1960 to 1969	5.23	3.73	3.35	4.18	3.37	7.85	5.78	4.10	2.55	3.51	2.83	33.95
1970 to 1979	4.06	3.15	2.11	2.72	3.45	6.23	6.67	2.97	2.04	2.46	2.59	25.71
1980 to 1989	3.74	3.55	2.04	2.69	3.11	7.37	7.72	2.90	1.97	2.55	2.88	33.23
1990 to 1999	3.74	2.51	2.34	3.09	2.80	8.00	5.06	3.17	1.70	2.19	2.29	27.70
2000 to 2009	3.15	2.97	2.07	2.64	2.49	7.72	6.60	2.74	1.98	2.59	2.85	22.82
2010 to 2015	5.46	5.68	4.77	5.28	5.27	12.45	9.42	5.80	4.27	5.25	5.85	33.92
2016 to 2020	6.93	6.68	5.16	5.72	6.48	15.78	11.27	5.46	4.47	5.40	6.93	32.77

Relative standard errors (RSEs) for Table CE5.1a Detailed household site electricity end-use consumption, part 1—totals, 2020

RSEs for total site electricity consumption^a

	Space heating ^b	Air handlers for heating	Air conditioning ^c	Air handlers for cooling	Ceiling fans	Dehumidifiers	Humidifiers	Water heating	Clothes washers	Clothes dryers	Lighting	Electric vehicle charging
All homes	1.43	0.93	0.66	0.89	1.04	2.50	2.39	1.17	0.65	0.96	0.89	9.34
Total square footage^b												
Less than 1,000	2.71	2.90	2.38	3.24	3.91	11.84	8.42	3.09	3.05	3.74	2.96	47.29
1,000 to 1,499	3.65	3.01	2.40	2.89	3.00	7.32	7.62	2.79	2.02	2.26	2.41	27.75
1,500 to 1,999	4.04	2.71	2.43	2.69	2.91	7.40	5.61	3.21	2.31	3.01	2.47	27.86
2,000 to 2,499	3.90	2.77	3.21	3.57	3.15	5.64	6.99	4.32	2.64	3.45	3.36	18.98
2,500 to 2,999	5.60	3.86	3.42	3.85	4.05	6.68	6.93	5.16	3.43	3.79	3.57	21.46
3,000 or more	4.43	3.03	2.66	2.82	3.02	4.59	4.40	3.74	2.15	2.64	2.92	16.24
Number of household members												
1 member	3.16	3.27	2.02	2.68	2.77	6.36	6.37	1.96	1.76	2.17	2.06	28.68
2 members	2.70	2.01	1.74	1.91	1.95	4.32	3.90	1.92	1.25	1.64	1.93	15.04
3 members	3.66	3.55	2.53	2.95	3.86	6.42	5.53	3.73	2.55	3.33	2.81	23.35
4 members	4.02	3.53	3.04	3.44	3.33	8.52	6.32	3.89	2.53	2.97	2.99	20.92
5 members	8.26	6.56	5.73	6.47	6.69	12.49	10.02	6.24	4.60	4.99	5.73	38.92
6 or more members	10.63	7.61	5.94	7.32	7.41	14.12	11.92	6.90	4.97	5.99	6.64	56.60
2020 annual household income												
Less than \$5,000	9.00	10.05	6.84	10.64	9.60	21.25	23.14	7.80	8.37	9.59	7.79	15.90
\$5,000 to \$9,999	8.69	9.50	8.47	10.47	9.49	24.63	20.42	8.38	8.32	10.86	8.53	14.90
\$10,000 to \$19,999	6.40	6.33	4.87	6.02	5.51	18.28	12.42	4.89	4.70	5.18	5.17	73.13
\$20,000 to \$39,999	3.45	3.14	2.65	3.11	3.93	8.87	7.55	2.96	2.35	2.63	3.31	49.37
\$40,000 to \$59,999	4.60	3.26	2.89	3.65	3.67	7.24	6.78	3.65	2.95	3.45	3.07	51.23
\$60,000 to \$99,999	3.83	2.33	2.41	2.74	2.84	5.04	5.26	3.25	2.09	2.43	2.35	23.86
\$100,000 to \$149,999	5.51	3.64	3.10	3.17	3.62	6.37	5.34	4.12	2.57	3.16	2.65	26.71
\$150,000 or more	5.05	3.27	2.73	3.11	3.06	5.77	5.07	4.07	2.29	2.53	3.05	13.59
Payment method for energy bills												
All paid by household	1.48	0.98	0.70	0.91	1.08	2.52	2.41	1.25	0.71	1.04	0.99	9.50
Some paid by household, some included in rent or condo fee	7.99	9.63	6.58	8.62	11.21	25.03	15.62	7.76	7.71	9.03	8.52	19.13
All included in rent or condo fee	18.50	26.29	17.25	27.01	27.76	52.98	40.20	19.68	18.33	22.95	18.34	0.00
Some other method	13.55	8.16	6.25	9.44	10.78	25.14	14.32	10.72	8.28	9.06	6.87	64.42

Relative standard errors (RSEs) for Table CE5.1a Detailed household site electricity end-use consumption, part 1—totals, 2020

RSEs for total site electricity consumption^a

	Space heating ^b	Air handlers for heating	Air conditioning ^c	Air handlers for cooling	Ceiling fans	Dehumidifiers	Humidifiers	Water heating	Clothes washers	Clothes dryers	Lighting	Electric vehicle charging
All homes	1.43	0.93	0.66	0.89	1.04	2.50	2.39	1.17	0.65	0.96	0.89	9.34

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 Electricity consumption from on-site solar photovoltaic generation (that is, solar panels) is included. Small amounts of standby power for devices that some households have but do not use (for example, dishwashers) are not included.

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

^c Includes electricity used by evaporative coolers.

^d 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.

^e 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*.

^f *Rented* includes households that occupy their primary housing units without paying rent.

^g *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.