Calculating Average Cost

The average cost per kilowatt-hour (kwh) is based on the monthly charge of 0.14. This figure is based on the average use of a residential consumer receiving service from Adams Electric. The estimated monthly kwh usage for each appliance is multiplied by the per kwh charge to arrive at the average cost per month to operate each appliance. For example, it is estimated that a blender uses two kwh per month. Multiply two by 0.14 and you arrive at 0.28 or $0.28, the average cost to operate a blender for one month. Note: Average costs may be lower if a member is on an incentive rate plan offered by the co-op.

Using the Chart

The chart below has two uses:

1. Estimate how much electricity an appliance or electrical tool in your home may use each month, and
2. Estimate the amount of your electric bill each month based on the estimated electrical usage of the appliances in your home.

The figures are only estimates based on average use. Electrical equipment varies in actual wattage. Consumption differs with individual use and care of each appliance.

The monthly usage listed below is in kilowatt-hours (kwh), a measure of electricity use. It is the amount of electrical energy needed to operate a 100-watt light bulb for 10 hours.

Kitchen	Est. Monthly kwh Use	Av. Cost per Month	Actual
Blender, Food Processor	2	0.28	____
Coffee Maker	12	1.68	____
Crock Pot, Deep Fryer	3	0.42	____
Dishwasher w/drying cycle	35	4.9	____
Dishwasher w/out drying cycle	20	2.8	____
Electric Mixer	1	0.14	____
Freezer			
• chest-type, frost free	160	22.4	____
• chest-type, manual defrost	110	15.4	____
• upright, frost free	210	29.4	____
• upright, manual defrost	155	21.7	____
Microwave Oven	20	2.8	____
Range w/manual clean	95	13.3	____
Range w/self clean	100	14	____
Refrigerator - Energy Star, 25 cubic foot, side-by-side	132	18.48	____
Refrigerator - Pre-1993, 25 cubic foot, side-by-side	202	28.28	____
Refrigerator/Freezer			
• 1 door, manual defrost	54	7.56	____
• 2 door, frost free	150	21	____
• 2 door, manual defrost	98	13.72	____
Roaster	5	0.70	____
Toaster	3	0.42	____
Toaster Oven, Broiler	18	2.52	____
Waste Disposal	3	0.42	____

Home Entertainment	Est. Monthly kwh Use	Av. Cost per Month	Actual
Blue Ray/DVD Player/VCR	5	$0.70	____
Gaming Console	11	$1.54	____
Television			____
• 27-inch tube	14	$1.96	____
• 37-inch tube	18	$2.52	____
• DLP, 4 hours a day	42	$5.88	____
• LCD, 4 hours a day	26	$3.64	____
• Plasma, 4 hours a day	61	$8.54	____
• 42-inch LED	7	$0.98	____

Home Office	Est. Monthly kwh Use	Av. Cost per Month	Actual
All-in One Print, Fax, Scan	15	$2.10	____
PC Desktop w/monitor	30	$4.20	____
Printer - Ink Jet	1	$0.14	____
Printer - Laser	8	$1.12	____
Scanner	8	$1.12	____
Laptop	5	$0.70	____

Laundry	Est. Monthly kwh Use	Av. Cost per Month	Actual
Clothes Dryer - 5 loads a week/@ 50 minutes a load	100	$14.00	____
			____
Clothes Washer - 5 loads a week/@ 50 minutes a load	7	$0.98	____
Iron	5	$0.70	____
Vacuum Cleaner	3	$0.42	____

Heating and Air Conditioning	Est. Monthly kwh Use	Av. Cost per Month	Actual
Air Cleaner	18	$2.52	____
Air Conditioner			
• central, 8 hrs/day - 1.5 ton	540	$75.60	____
• central, 8 hrs/day - 2 ton	720	$100.80	____
• central, 8 hrs/day - 2.5 ton	900	$126.00	____
• central, 8 hrs/day - 3 ton	1,080	$151.20	____
• central, 8 hrs/day - 4 ton	1,440	$201.60	____
• central, 8 hrs/day - 5 ton	1,800	$252.00	____
• room, 8 hrs/day - 10,000 btu/h	320	$44.80	____
• room, 8 hrs/day - 12,000 btu/h	380	$53.20	____
• room, 8 hrs/day - 14,000 btu/h	450	$63.00	____
• room, 8 hrs/day - 16,000 btu/h	510	$71.40	____
• room, 8 hrs/day - 18,000 btu/h	575	$80.50	____
• room, 8 hrs/day - 6,000 btu/h	190	$26.60	____
Electric Blanket	24	$3.36	____
Electric Heating			
• central furnace, 3 hrs/day - 10,250 watts	925	$129.50	____
• central furnace, 3 hrs/day - 15,350 watts	1,380	$193.20	____
Electric Heating			
• central furnace, 3 hrs/day - 20,490 watts	1,845	$258.30	____
• central furnace, 3 hrs/day - 25,670 watts	2310	$323.40	____
• room, baseboard, 4 hrs/day - 1,000 watts	120	$16.80	____
• room, baseboard, 4 hrs/day - 1,500 watts	180	$25.20	____
• room, baseboard, 4 hrs/day - 2,000 watts	240	$33.60	____

• room, baseboard, 4 hrs/day - 500 watts	60	$8.40	____
• portable space heater - 1,000 watts	120	$16.80	____
• portable space heater - 1,500 watts	180	$25.20	____
Electric Thermal Storage Units (*special rates may apply)			
• 4.5 kilowatts	700	$98.00	____
• 6.0 kilowatts	933	$130.62	____
Fans			
• Attic	24	$3.36	____
• Ceiling	18	$2.52	____
• Furnace, 1/3 hp	30	$4.20	____
• Window, 20 inch	18	$2.52	____
Geothermal Heat Pump			
• 2-ton cooling	357	$49.98	____
• 2-ton heating	770	$107.80	____
• 3-ton cooling	404	$56.56	____
• 3-ton heating	1,106	$154.84	____
Heat Pump			
• 2-ton cool, 3 hrs/day	290	$40.60	____
• 2-ton heat, 8 hrs/day	770	$107.80	____
• 3-ton cool, 3 hrs/day	430	$60.20	____
• 3-ton heat, 8 hrs/day	1,150	$161.00	____
• 4-ton cool, 3 hrs/day	575	$80.50	____
• 4-ton heat, 8 hrs/day	1,535	$214.90	____
• 5-ton cool, 3 hrs/day	720	$100.80	____
• 5-ton heat, 8 hrs/day	1,920	$268.80	____
Humidifier	14	$7.00	____
Dehumidifier	274	$39.20	____

Health and Beauty	Est. Monthly kwh Use	Av. Cost per Month	
Curling Iron	1	$0.14	____
Electric Razor	1	$0.14	____
Electric Toothbrush	1	$0.14	____
Hair Dryer	11	$1.54	____
Water Bed	100	$14.00	____

Water Heating/Water Supply	Est. Monthly kwh Use	Av. Cost per Month	Actual
Electric Water Heater (av. 15 gallons pp/p day)			
• 1 person	117	$16.38	____
• 2 people	202	$28.28	____
• 3 people	287	$40.18	____
• 4 people	374	$52.36	____
• 5 people	456	$63.84	____
• 6 people	541	$75.74	____
Heat Pump Water Heater	46	$6.44	____
Hot Tub/Spa	450	$63.00	____
Sump Pump	66	$9.24	____
Swimming Pool w/circulating pump & filter system	540	$75.60	____
Water Pump			
• deep (over 50-foot)	60	$8.40	____
• shallow (less than 50-foot)	30	$4.20	____

Calculate Your Own Appliance Costs

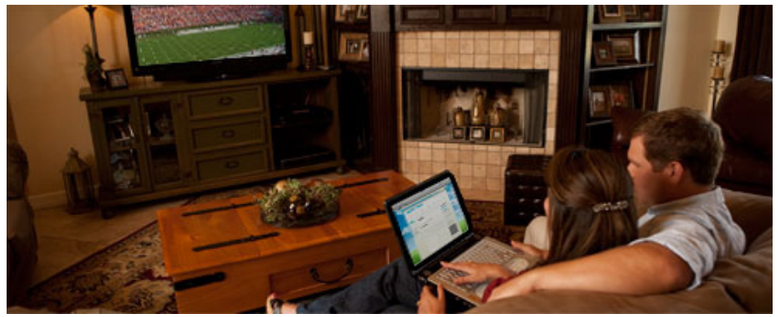
If an appliance you own does not appear on this list, calculate its usage to determine its cost of operation.

Find the wattage of the appliance (usually on the serial plate). If wattage is not listed, look for the amperage and voltage ratings. Multiply amperage (amps) times voltage (volts) to get the wattage (watts).

Then, multiply the wattage by the number of hours per month you use the appliance. Take that number and divide by 1,000. For example, a television that is used eight hours a day has 240 hours of use during the average 30-day month. If the wattage of the TV is 110, multiply 240 hours times 110 watts to arrive at an average monthly usage of 26,400 watts. Divide this number by 1,000 and you arrive at 26.4 kwh use per month. Multiply 26.4 by the kwh cost of $0.14 to arrive at 3.696 or $3.70, as the average cost to operate the TV for one month.

01/2026

Your Kilowatt-Hours



Estimating your electric bill

Adams Electric Cooperative, Inc.

A Touchstone Energy® Cooperative

For more information about appliance costs, lighting, and home energy efficiencies, visit *adamsec.coop*