

Calculating Average Cost

The average cost per kilowatt-hour (kwh) is based on the monthly charge of 0.0967. 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 0.0967 and you arrive at 0.01934 or \$0.19, 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	\$0.19	_____
Coffee Maker	12	\$1.16	_____
Crock Pot, Deep Fryer	3	\$0.29	_____
Dishwasher w/drying cycle	35	\$3.38	_____
Dishwasher w/out drying cycle	20	\$1.93	_____
Electric Mixer	1	\$0.10	_____
Freezer			
• chest-type, frost free	160	\$15.47	_____
• chest-type, manual defrost	110	\$10.64	_____
• upright, frost free	210	\$20.31	_____
• upright, manual defrost	155	\$14.99	_____
Microwave Oven	20	\$1.93	_____
Range w/manual clean	95	\$9.19	_____
Range w/self clean	100	\$9.67	_____
Refrigerator - Energy Star, 25 cubic foot, side-by-side	132	\$12.76	_____
Refrigerator - Pre-1993, 25 cubic foot, side-by-side	202	\$19.53	_____

Refrigerator/Freezer			
• 1 door, manual defrost	54	\$5.22	_____
• 2 door, frost free	150	\$14.51	_____
• 2 door, manual defrost	98	\$9.48	_____
Roaster	5	\$0.48	_____
Toaster	3	\$0.29	_____
Toaster Oven, Broiler	18	\$1.74	_____
Trash Compactor	4	\$0.39	_____
Waffle Iron	2	\$0.19	_____
Waste Disposal	3	\$0.29	_____

Home Entertainment	Est. Monthly kwh Use	Av. Cost per Month	Actual
Blue Ray/DVD Player/VCR	5	\$0.48	_____
Gaming Console	11	\$1.06	_____
Television			
• 27-inch tube	14	\$1.35	_____
• 37-inch tube	18	\$1.74	_____
• DLP, 4 hours a day	42	\$4.06	_____
• LCD, 4 hours a day	26	\$2.51	_____
• Plasma, 4 hours a day	61	\$5.90	_____
• 42-inch LED	7	\$0.68	_____

Home Office	Est. Monthly kwh Use	Av. Cost per Month	Actual
All-in One Print, Fax, Scan	15	\$1.45	_____
PC Desktop w/monitor	30	\$2.90	_____
Fax Machine - Ink Jet	2	\$0.19	_____
Fax Machine - Laser	11	\$1.06	_____
Printer - Ink Jet	1	\$0.10	_____
Printer - Laser	8	\$0.77	_____
Scanner	8	\$0.77	_____
Laptop	5	\$0.48	_____

Laundry	Est. Monthly kwh Use	Av. Cost per Month	Actual
Clothes Dryer - 5 loads a week/@ 50 minutes a load	100	\$9.67	_____

Clothes Washer - 5 loads a week/@ 50 minutes a load	7	\$0.68	_____
Iron	5	\$0.48	_____
Vacuum Cleaner	3	\$0.29	_____
Heating and Air Conditioning	Est. Monthly kwh Use	Av. Cost per Month	Actual
Air Cleaner	18	\$1.74	_____
Air Conditioner			
• central, 8 hrs/day - 1.5 ton	540	\$52.22	_____
• central, 8 hrs/day - 2 ton	720	\$69.62	_____
• central, 8 hrs/day - 2.5 ton	900	\$87.03	_____
• central, 8 hrs/day - 3 ton	1,080	\$104.44	_____
• central, 8 hrs/day - 4 ton	1,440	\$139.25	_____
• central, 8 hrs/day - 5 ton	1,800	\$174.06	_____
• room, 8 hrs/day - 10,000 btu/h	320	\$30.94	_____
• room, 8 hrs/day - 12,000 btu/h	380	\$36.75	_____
• room, 8 hrs/day - 14,000 btu/h	450	\$43.52	_____
• room, 8 hrs/day - 16,000 btu/h	510	\$49.32	_____
• room, 8 hrs/day - 18,000 btu/h	575	\$55.60	_____
• room, 8 hrs/day - 6,000 btu/h	190	\$18.37	_____
Electric Blanket	24	\$2.32	_____
Electric Heating			
• central furnace, 3 hrs/day - 10,250 watts	925	\$89.45	_____
• central furnace, 3 hrs/day - 15,350 watts	1,380	\$133.45	_____
Electric Heating			
• central furnace, 3 hrs/day - 20,490 watts	1,845	\$178.41	_____
• central furnace, 3 hrs/day - 25,670 watts	2310	\$223.38	_____
• room, baseboard, 4 hrs/day	120	\$11.60	_____


Your Kilowatt-Hours



Estimating your electric bill



**Adams Electric
Cooperative, Inc.**

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and home energy efficiencies,
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- 1,000 watts			_____
• room, baseboard, 4 hrs/day 180	\$17.41		_____
- 1,500 watts			_____
• room, baseboard, 4 hrs/day 240	\$23.21		_____
- 2,000 watts			_____
• room, baseboard, 4 hrs/day 60	\$5.80		_____
- 500 watts			_____
• portable space heater - 120	\$11.60		_____
1,000 watts			_____
• portable space heater - 180	\$17.41		_____
1,500 watts			_____
Electric Thermal Storage Units			
(*special rates may apply)			
• 4.5 kilowatts 700	\$67.69		_____
• 6.0 kilowatts 933	\$90.22		_____
Fans			
• Attic 24	\$2.32		_____
• Ceiling 18	\$1.74		_____
• Furnace, 1/3 hp 30	\$2.90		_____
• Window, 20 inch 18	\$1.74		_____
Geothermal Heat Pump			
• 2-ton cooling 357	\$34.52		_____
• 2-ton heating 770	\$74.46		_____
• 3-ton cooling 404	\$39.07		_____
• 3-ton heating 1,106	\$106.95		_____
Heat Pump			
• 2-ton cool, 3 hrs/day 290	\$28.04		_____
• 2-ton heat, 8 hrs/day 770	\$74.46		_____
• 3-ton cool, 3 hrs/day 430	\$41.58		_____
• 3-ton heat, 8 hrs/day 1,150	\$111.21		_____
• 4-ton cool, 3 hrs/day 575	\$55.60		_____
• 4-ton heat, 8 hrs/day 1,535	\$148.43		_____
• 5-ton cool, 3 hrs/day 720	\$69.62		_____
• 5-ton heat, 8 hrs/day 1,920	\$185.66		_____
Humidifier 14	\$1.35		_____
Dehumidifier 274	\$26.50		_____

Health and Beauty	Est. Monthly kwh Use	Av. Cost per Month	Actual
Curling Iron	1	\$0.10	_____
Electric Razor	1	\$0.10	_____
Electric Toothbrush	1	\$0.10	_____
Hair Dryer	11	\$1.06	_____
Water Bed	100	\$9.67	_____

Water Heating/Water Supply	Est. Monthly kwh Use	Av. Cost per Month	Actual
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Electric Water Heater (av. 15 gallons pp/p day)	Est. Monthly kwh Use	Av. Cost per Month	Actual
• 1 person	117	\$11.31	_____
• 2 people	202	\$19.53	_____
• 3 people	287	\$27.75	_____
• 4 people	374	\$36.17	_____
• 5 people	456	\$44.10	_____
• 6 people	541	\$52.31	_____
Heat Pump Water Heater	46	\$4.45	_____
Hot Tub/Spa	450	\$43.52	_____
Sump Pump	66	\$6.38	_____
Swimming Pool w/circulating pump & filter system	540	\$52.22	_____
Water Pump			
• deep (over 50-foot) 60	60	\$5.80	_____
• shallow (less than 50-foot) 30	30	\$2.90	_____

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 \$0.0967 to arrive at 2.552 or \$2.55, as the average cost to operate the TV for one month.

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