

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

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 \$0.1114 to arrive at 2.94 or \$2.94, as the average cost to operate the TV for one month.

Save with U-Shift, U-\$ave

Join the fight to keep co-op rates low and join the U-Shift, U-\$ave program. The program shifts the use of participating electric water heaters, heating and cooling units, and other equipment to off-peak hours when electricity is less expensive. Over 10,000 members have helped save over \$26 million in avoided power purchases. More participants mean more savings. Let's keep bills low for everyone – join us!

Water heater, air conditioning, and separate subpanel programs are available. Learn more at adamsec.coop.



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APPLIANCE	Est. Monthly kWh Use	Av. Cost per Month	Cost of Appliances Used
Heat Pump - 3-ton cooling, 3 hours a day	430	\$47.73	
Heat Pump - 3-ton heating, 8 hours a day	1150	\$127.65	
Heat Pump - 4-ton cooling, 3 hours a day	575	\$63.83	
Heat Pump - 4-ton heating, 8 hours a day	1535	\$170.39	
Heat Pump - 5-ton cooling, 3 hours a day	720	\$79.92	
Heat Pump - 5-ton heating, 8 hours a day	1920	\$213.12	
Humidifier	50	\$5.55	
Dehumidifier	280	\$31.08	
HEALTH AND BEAUTY			
Curling Iron	1	\$0.11	
Electric Razor	1	\$0.11	
Electric Toothbrush	1	\$0.11	
Hair Dryer	11	\$1.21	
Water Bed	100	\$11.00	
WATER HEATING/WATER SUPPLY			
Electric Water Heater - av. 15 gallons hot water pp/p day - 1 person	117	\$12.87	
Electric Water Heater - av. 15 gallons hot water pp/p day - 2 people	202	\$22.22	
Electric Water Heater - av. 15 gallons hot water pp/p day - 3 people	287	\$31.57	
Electric Water Heater - av. 15 gallons hot water pp/p day - 4 people	374	\$41.14	
Electric Water Heater - av. 15 gallons hot water pp/p day - 5 people	456	\$50.16	
Electric Water Heater - av. 15 gallons hot water pp/p day - 6 people	541	\$59.51	
Heat Pump Water Heater	46	\$5.06	
Hot Tub/Spa	450	\$49.50	
Sump Pump	66	\$7.26	
Swimming Pool w/circulating pump and filter system	540	\$59.40	
Water Pump - deep	60	\$6.60	
Water Pump - shallow (50-foot or less)	30	\$3.30	

Items highlighted in the blue are items that you may want to consider placing on a U-Shift, U-\$ave separate subpanel to take advantage of a reduction in energy supply costs. Each individual will need to consider how the items may be affected when turned off for an interruption period.

Calculating Average Cost

The average cost per kilowatt-hour (kWh) is based on the monthly charge of 0.1114. 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 0.1114 and you arrive at 0.22 or \$0.22, the average cost to operate a blender for one month. *Note: Costs are based on an average residential member using 1,250 kWh a month. Costs may be higher or lower depending on your rate class and average energy consumption.*

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.

APPLIANCE	Est. Monthly kWh Use	Av. Cost per Month	Cost of Appliances Used
KITCHEN			
Blender, Food Processor	2	\$0.22	
Coffee Maker	12	\$1.33	
Keurig Coffee Machine	22	\$2.44	
Crock Pot, Deep Fryer	3	\$0.33	
Air Fryer	16	\$1.78	
Ice Machine	2	\$0.22	
Dishwasher w/drying cycle	35	\$3.89	
Dishwasher w/out drying cycle	20	\$2.22	
Electric Mixer	1	\$0.11	
Freezer - chest type, frost free	160	\$17.76	
Freezer - chest type, manual defrost	110	\$12.21	
Freezer - upright, frost free	210	\$23.31	
Freezer - upright, manual defrost	155	\$17.21	
Microwave Oven	20	\$2.22	
Range w/manual clean	95	\$10.55	

APPLIANCE	Est. Monthly kWh Use	Av. Cost per Month	Cost of Appliances Used
Range w/self clean	100	\$11.10	
Refrigerator - Energy Star, 25 cubic foot, side-by-side	132	\$14.65	
Refrigerator - Pre-1993, 25 cubic foot, side-by-side	202	\$22.42	
Refrigerator/Freezer - 1 door, manual defrost	54	\$5.99	
Refrigerator/Freezer - 2 door, frost free	150	\$16.65	
Refrigerator/Freezer - 2 door, manual defrost	98	\$10.88	
Roaster	5	\$0.56	
Toaster	3	\$0.33	
Toaster Oven, Broiler	18	\$2.00	
Waste Disposal	3	\$0.33	
HOME ENTERTAINMENT			
Blue Ray/DVD Player/VCR	5	\$0.55	
Gaming Console	11	\$1.21	
Television - 37-inch tube	18	\$1.98	
Television - LCD, 4 hours a day	26	\$2.86	
Television - 42-inch, LED	7	\$0.77	
HOME OFFICE			
All-in-One - Print, Fax, Scan	15	\$1.65	
Computer - PC Desktop w/monitor	30	\$3.30	
Printer - Ink Jet	1	\$0.11	
Printer - Laser	8	\$0.88	
Scanner	8	\$0.88	
Cell Phone Charger	4	\$0.44	
Computer - Laptop	5	\$0.55	
LAUNDRY			
Clothes Dryer - 5 loads a week/@ 50 minutes a load	100	\$11.10	
Clothes Washer - 5 loads a week/@ 50 minutes a load	7	\$0.78	
Iron	5	\$0.56	
Robot Vacuum Cleaner	22	\$2.44	
Vacuum Cleaner	3	\$0.33	
HEATING AND AIR CONDITIONING			
Air Purifier	18	\$2.00	
Air Conditioner - central, 8 hours a day - 1.5 ton	540	\$59.94	
Air Conditioner - central, 8 hours a day - 2 ton	720	\$79.92	
Air Conditioner - central, 8 hours a day - 2.5 ton	900	\$99.90	
Air Conditioner - central, 8 hours a day - 3 ton	1080	\$119.88	
Air Conditioner - central, 8 hours a day - 4 ton	1440	\$159.84	
Air Conditioner - central, 8 hours a day - 5 ton	1800	\$199.80	

APPLIANCE	Est. Monthly kWh Use	Av. Cost per Month	Cost of Appliances Used
Air Conditioner - room, 8 hours a day, - 10,000 btu/h	320	\$35.52	
Air Conditioner - room, 8 hours a day, - 12,000 btu/h	380	\$42.18	
Air Conditioner - room, 8 hours a day, - 14,000 btu/h	450	\$49.95	
Air Conditioner - room, 8 hours a day, - 16,000 btu/h	510	\$56.61	
Air Conditioner - room, 8 hours a day, - 18,000 btu/h	575	\$63.83	
Air Conditioner - room, 8 hours a day, - 6,000 btu/h	190	\$21.09	
Electric Blanket	24	\$2.66	
Electric Heating - central furnace, 3 hours a day - 10,250 watts	925	\$102.68	
Electric Heating - central furnace, 3 hours a day - 15,350 watts	1380	\$153.18	
Electric Heating - central furnace, 3 hours a day - 20,490 watts	1845	\$204.80	
Electric Heating - central furnace, 3 hours a day - 25,670 watts	2310	\$256.41	
Electric Heating - individual room, baseboard, 4 hours a day - 1,000 watts	120	\$13.32	
Electric Heating - individual room, baseboard, 4 hours a day - 1,500 watts	180	\$19.98	
Electric Heating - individual room, baseboard, 4 hours a day - 2,000 watts	240	\$26.64	
Electric Heating - individual room, baseboard, 4 hours a day - 500 watts	60	\$6.66	
Electric Heating - portable space heater - 1,000 watts	120	\$13.32	
Electric Heating - portable space heater - 1,500 watts	180	\$19.98	
Electric Thermal Storage Units - 4.5 kilowatts (*special rates apply)	700	\$77.70	
Electric Thermal Storage Units - 6.0 kilowatts (*special rates apply)	933	\$103.56	
Fans - Attic	24	\$2.66	
Fans - Ceiling	18	\$2.00	
Fans - Furnace, 1/3 hp	30	\$3.33	
Fans - Window, 20 inch	18	\$2.00	
Geothermal Heat Pump - 2-ton cooling	357	\$39.63	
Geothermal Heat Pump - 2-ton heating	770	\$85.47	
Geothermal Heat Pump - 3-ton cooling	404	\$44.84	
Geothermal Heat Pump - 3-ton heating	1106	\$122.77	
Heat Pump - 2-ton cooling, 3 hours a day	290	\$32.19	
Heat Pump - 2-ton heating, 8 hours a day	770	\$85.47	