

What is the monthly cost to operate your home appliances?



The basic measure of electricity is the kilowatt-hour (kWh).

Your monthly electric bill contains the number of kilowatt-hours you have used with the addition of system charges and applicable taxes. The following information contains rough estimates of the cost of operating an appliance each month based on the wattage of the appliance, the estimated hours of use per month, and the cost per kWh for electricity. To find your own rough estimate for the cost of operating one of your appliances you can use the formula below. To figure out the wattage of the appliance either use $Volts \times Amps = Watts$, check a listing online, or see the appliances guide.

The current Potomac Edison residential rate, effective June 1, 2022, is: **\$ 0.06753/kWh**

$$\begin{aligned} & (\text{Watts} \times \text{Hours of Use}) / 1000 = \text{kWh} \\ & \text{kWh} \times 0.06588 = \text{Monthly Operating Cost} \end{aligned}$$

| <u>Heating & Lighting</u> | <u>Avg. Wattage</u> | <u>Est. Hours/Month</u> | <u>kWh/Month</u> | <u>Cost/Month</u> |
|--|---------------------|-------------------------|------------------|-------------------|
| Air Conditioner | 3000 | 270 | 810 | \$ 54.7 |
| Air Conditioner-Window Unit | 1100 | 270 | 297 | \$ 20.06 |
| Air HEPA Filter | 250 | 720 | 180 | \$ 12.16 |
| Ambient Fireplace w/Heat on HIGH | 1500 | 120 | 180 | \$ 12.15 |
| Ambient Fireplace w/Heat on LOW | 750 | 120 | 90 | \$ 6.07 |
| Baseboard Heater 4ft | 1000 | 360 | 360 | \$ 24.3 |
| Baseboard Heater 6ft | 1500 | 360 | 540 | \$ 36.47 |
| Block Heater | 1000 | 240 | 240 | \$ 16.21 |
| Cadet Wall Heater | 1000 | 360 | 360 | \$ 24.31 |
| Ceiling Fan | 65 | 120 | 7.8 | \$ 0.52 |
| Fluorescent Light Fixture | 96 | 240 | 23 | \$ 1.55 |
| Light Bulb: 100W Incandescent | 100 | 240 | 24 | \$ 1.62 |
| Light Bulb: 60W Incandescent | 60 | 240 | 14 | \$ 0.94 |
| Light Bulb: CFL 13W (60W equivalent) | 13 | 240 | 3 | \$ 0.2 |
| Light Bulb: CFL 26 W (100W equivalent) | 26 | 240 | 6 | \$ 0.41 |
| Light Bulb: LED 9W (60W equivalent) | 9 | 240 | 2 | \$ 0.14 |
| Portable Space Heater (including oil filled) | 1000 | 360 | 360 | \$ 24.31 |

The information above is based on the average usage of a family of four. All the factors above can vary. The wattage listed on the tables is an average. The wattage will vary depending on the size, model, and condition of the appliance as well as any special features and the condition of your home's wiring.

The estimated kWh consumption will differ based on the size of the home, insulation levels, and individual use habits. If you have any questions regarding home energy usage or energy efficiency visit

<https://mygreenmontgomery.org/contact-us/>.



Around the Kitchen

| | <u>Avg. Wattage</u> | <u>Est. Hours/Month</u> | <u>kWh/Month</u> | <u>Cost/Month</u> |
|--------------------------------------|--------------------------------|------------------------------------|-------------------------|--------------------------|
| Air Fryer | 1500 | 5 | 7.5 | \$ 0.51 |
| Coffee Maker | 1500 | 15 | 23 | \$ 1.55 |
| Dishwasher | 1400 | 30 | 42 | \$ 2.84 |
| Freezer-Upright | 1000 | 200 | 200 | \$ 13.51 |
| Microwave | 1500 | 10 | 15 | \$ 1.01 |
| Mini-Fridge | 58 | 200 | 116 | \$ 7.83 |
| Oven | 3000 | 12 | 36 | \$ 2.43 |
| Refrigerator [Energy Star Certified] | 500 | 110 | 55 | \$ 3.71 |
| Refrigerator [Pre-1993] | 800 | 215 | 172 | \$ 11.62 |
| Rice Cooker | 500 | 5 | 2.5 | \$ 0.17 |
| Toaster | 1300 | 5 | 6.5 | \$ 0.44 |

Electronics

| | <u>Avg. Wattage</u> | <u>Est. Hours/Month</u> | <u>kWh/Month</u> | <u>Cost/Month</u> |
|---|--------------------------------|------------------------------------|-------------------------|--------------------------|
| Computer + Flat Panel Monitor + Printer | 400 | 720 | 288 | \$ 19.45 |
| Digital Video Recorder | 150 | 180 | 27 | \$ 1.82 |
| Laptop (Plugged in) | 60 | 360 | 22 | \$ 1.49 |
| Nintendo Switch | 18 | 100 | 1.8 | \$ 0.12 |
| PlayStation 4 | 89 | 180 | 4 | \$ 0.27 |
| PlayStation 5 | 180 | 180 | 32.4 | \$ 2.19 |
| Surround Sound System | 500 | 180 | 90 | \$ 6.08 |
| Television (LCD or LED) | 105 | 180 | 19 | \$ 1.28 |
| Television (Plasma) | 300 | 180 | 54 | \$ 3.65 |
| XBOX 360 | 185 | 180 | 33 | \$ 2.23 |
| XBOX Series X | 200 | 180 | 36 | \$ 2.43 |

Other Items

| | <u>Avg. Wattage</u> | <u>Est. Hours/Month</u> | <u>kWh/Month</u> | <u>Cost/Month</u> |
|--|--------------------------------|------------------------------------|-------------------------|--------------------------|
| Clothes Dryer | 4800 | 20 | 96 | \$ 6.48 |
| Clothes Washer | 640 | 20 | 13 | \$ 0.88 |
| Clothes Washer [Energy Star Certified] | 300 | 20 | 6 | \$ 0.41 |
| Dehumidifier | 260 | 200 | 52 | \$ 3.51 |
| Electric Blanket | 200 | 120 | 24 | \$ 1.62 |
| Hair Dryer | 1600 | 8 | 13 | \$ 0.88 |
| Hot Tub | 4500 | 80 | 360 | \$ 24.31 |
| Water Heater | 4500 | 110 | 495 | \$ 33.42 |
| WIFI Router | 6 | 720 | 4.32 | \$ 0.29 |