

## 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 Pepco residential rate, effective June 1, 2021, is: **\$ 0.0757/kWh**

$$\begin{aligned} & (\text{Watts} \times \text{Hours of Use}) / 1000 = \text{kWh} \\ & \text{kWh} \times 0.0757 = \text{Monthly Operating Cost} \end{aligned}$$

<u>Heating &amp; Lighting</u>	<u>Avg. Wattage</u>	<u>Est. Hours/Month</u>	<u>kWh/Month</u>	<u>Cost/Month</u>
Air Conditioner	3000	270	810	\$ 61.32
Air Conditioner-Window Unit	1100	270	297	\$ 22.48
Air HEPA Filter	250	720	180	\$ 13.63
Ambient Fireplace w/Heat on HIGH	1500	120	180	\$ 13.63
Ambient Fireplace w/Heat on LOW	750	120	90	\$ 6.81
Baseboard Heater 4ft	1000	360	360	\$ 27.25
Baseboard Heater 6ft	1500	360	540	\$ 40.88
Block Heater	1000	240	240	\$ 18.17
Cadet Wall Heater	1000	360	360	\$ 27.25
Ceiling Fan	65	120	7.8	\$ 0.59
Fluorescent Light Fixture	96	240	23	\$ 1.74
Light Bulb: 100W Incandescent	100	240	24	\$ 1.82
Light Bulb: 60W Incandescent	60	240	14	\$ 1.06
Light Bulb: CFL 13W (60W equivalent)	13	240	3	\$ 0.23
Light Bulb: CFL 26 W (100W equivalent)	26	240	6	\$ 0.45
Light Bulb: LED 9W (60W equivalent)	9	240	2	\$ 0.15
Portable Space Heater (including oil filled)	1000	360	360	\$ 27.25

The information above is based on the average usage of a family of four, all factors can vary. The wattage listed on the tables is an average, it may 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 also differ based on the size of the home, its insulation levels, and individual use habits. If you have any questions regarding home energy usage or energy efficiency visit

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



<u>Around the Kitchen</u>	<u>Avg.</u> <u>Wattage</u>	<u>Est.</u> <u>Hours/Month</u>	<u>kWh/Month</u>	<u>Cost/Month</u>
Air Fryer	1500	5	7.5	\$ 0.57
Coffee Maker	1500	15	23	\$ 1.74
Dishwasher	1400	30	42	\$ 3.18
Freezer-Upright	1000	200	200	\$ 15.14
Microwave	1500	10	15	\$ 1.14
Mini-Fridge	58	200	116	\$ 8.78
Oven	3000	12	36	\$ 2.73
Refrigerator [Energy Star Certified]	500	110	55	\$ 4.16
Refrigerator [Pre-1993]	800	215	172	\$ 13.02
Rice Cooker	500	5	2.5	\$ 0.19
Toaster	1300	5	6.5	\$ 0.49

<u>Electronics Around the Home</u>	<u>Avg.</u> <u>Wattage</u>	<u>Est.</u> <u>Hours/Month</u>	<u>kWh/Month</u>	<u>Cost/Month</u>
Computer + Flat Panel Monitor + Printer	400	720	288	\$ 21.80
Digital Video Recorder	150	180	27	\$ 2.04
Laptop (Plugged in)	60	360	22	\$ 1.67
Nintendo Switch	18	100	1.8	\$ 0.14
PlayStation 4	89	180	4	\$ 0.30
PlayStation 5	180	180	32.4	\$ 2.45
Surround Sound System	500	180	90	\$ 6.81
Television (LCD or LED)	105	180	19	\$ 1.44
Television (Plasma)	300	180	54	\$ 4.09
XBOX 360	185	180	33	\$ 2.50
XBOX Series X	200	180	36	\$ 2.73

<u>Other Items</u>	<u>Avg.</u> <u>Wattage</u>	<u>Est.</u> <u>Hours/Month</u>	<u>kWh/Month</u>	<u>Cost/Month</u>
Clothes Dryer	4800	20	96	\$ 7.27
Clothes Washer	640	20	13	\$ 0.98
Clothes Washer [Energy Star Certified]	300	20	6	\$ 0.45
Dehumidifier	260	200	52	\$ 3.94
Electric Blanket	200	120	24	\$ 1.81
Hair Dryer	1600	8	13	\$ 0.98
Hot Tub	4500	80	360	\$ 27.25
Water Heater	4500	110	495	\$ 37.47
WIFI Router	6	720	4.32	\$ 0.33