

Understanding Electricity Usage & Costs

Understanding how you use electricity in your home is the first step in making smarter, more informed decisions regarding your energy consumption. This fact sheet can help you learn what it costs to run some common electrical devices and where you might have opportunities to save money.

By using the formula below, you can calculate a device's kilowatt-hour (kWh) usage and approximate cost. Wattage can usually be found on the bottom or back of the device. If it is not, you can multiply the amperage, which is required to be listed on the device, by the voltage, which is typically 120. Larger appliances, such as clothes dryers, use 240 volts.

$$\frac{\text{Appliance wattage} \times \text{hours in use}}{1,000} \times 14.12\text{cents} = \text{Average cost} \quad (0.1412)$$



Here are a few common household electronic devices. The costs shown on this sample fact sheet are based on an average total price of 14.12 cents per kWh. The costs for electricity in your home may vary depending on usage patterns, actual electric rate, the wattage of appliances and the amount of time they are in use.

For a better understanding of your usage and how you can help reduce your electricity consumption, visit www.energysavenj.com and click on the Home Energy Analyzer.

Important Notes: These estimates are based on average size and use of each device. Operating costs may vary considerably due to the type, size, frequency and duration of use, as well as differences in family living habits. Older products often use far more energy than new, energy-efficient models.

The wattages listed on this chart came from several sources, including the U.S. Department of Energy's website: www.energy.gov.

The price per kWh is subject to change.

Electronic Devices

Kitchen

Device	Approximate Wattage	Avg. Hrs. Used/Mo.	Avg. kWh Used/Mo.	Average Cost/Mo.
Coffee maker	1,050	5	5.3	\$0.75
Dishwasher	1,800	13.75	24.8	\$3.50
Microwave oven	925	15	13.9	\$1.96
Refrigerator (16 cubic feet)	725	288	208.8	\$29.48

Laundry

Device	Approximate Wattage	Avg. Hrs. Used/Mo.	Avg. kWh Used/Mo.	Average Cost/Mo.
Clothes dryer	3,400	14.75	50.2	\$7.09
Clothes washer	425	18	7.7	\$1.09
Iron	1,400	5	7	\$0.99

Lighting

Device	Approximate Wattage	Avg. Hrs. Used/Mo.	Avg. kWh Used/Mo.	Average Cost/Mo.
Compact fluorescent bulb (CFL)	25	30	0.8	\$0.11
LED light bulb (equivalent to 100w incandescent)	13	30	0.4	\$0.06
Incandescent bulb	100	30	3	\$0.42

Heating & Cooling

Device	Approximate Wattage	Avg. Hrs. Used/Mo.	Avg. kWh Used/Mo.	Average Cost/Mo.
Whole-house fan	495	360	178.2	\$25.16
Ceiling fan	120	360	43.2	\$6.10
Dehumidifier	785	360	282.6	\$39.90
Furnace fan	750	720	540	\$76.25
Portable space heater	1,125	77.75	87.5	\$12.36
Water heater, 40 gal.	5,000	75	375	\$52.95
Window fan	150	360	54	\$7.62

Home Electronics

Device	Approximate Wattage	Avg. Hrs. Used/Mo.	Avg. kWh Used/Mo.	Average Cost/Mo.
Desktop computer	120	60	7.2	\$1.02
Monitor	150	60	9	\$1.27
Laptop	50	60	3	\$0.42
Television, standard 28"	120	180	21.6	\$3.05
Television, LCD 32"	160	180	28.8	\$4.07
Television, plasma 42"	270	180	48.6	\$6.86

Gaming Systems

Device	Approximate Wattage	Avg. Hrs. Used/Mo.	Avg. kWh Used/Mo.	Average Cost/Mo.
PS4™	137	30	4.1	\$0.58
Wii U™	34	30	1	\$0.14
Xbox One™	112	30	3.4	\$0.48

Miscellaneous

Device	Approximate Wattage	Avg. Hrs. Used/Mo.	Avg. kWh Used/Mo.	Average Cost/Mo.
Clock radio	10	720	7.2	\$1.02
Electric blanket (double)	100	90	9	\$1.27
Vacuum cleaner	1,220	2	2.4	\$0.34
Well pump	675	14	9.5	\$1.34

Jersey Central
Power & Light

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