

What Uses Watts in Your Home

Electricity usage is calculated in kilowatt-hours. A kilowatt-hour is 1,000 watts used for one hour. As an example, a 100-watt light bulb operating for ten hours would use one kilowatt-hour.

How to calculate electric usage cost:

1. Volts x Amps = Watts
2. Watts ÷ 1,000 = Kilowatts (kW)
3. Kilowatts (kW) x Hours of Use = Kilowatt Hours (kWh)
4. Kilowatt Hours (kWh) x .1064 = Cost of Usage
5. +/- fuel charge and environmental charge

Below are some examples of electrical appliances found in most homes. These examples are using a .1064 cents per kWh rate.

Appliance/Equipment	Avg. Usage	Monthly kWh	Cost/Month
<u>Comfort & Health</u>			
Air Conditioner – Window 12,000 BTU (1,400 Watts)	8 hours/day	341	36.28
Electric Blanket (177 Watts)	8 hours/night	43	\$4.58
Dehumidifier (257 Watts)	12 hours/day	94	\$10.00
Fan – Furnace (300 Watts)	7 hours/day	64	\$6.81
Fan – Window (200 Watts)	2 hours/day	12	\$1.28
Fan – Ceiling (125 Watts)	12 hours/day	46	\$4.81
Fan – Attic (1000 Watts)	2 hours/day	61	\$6.49
Heat Pump (Average Rating) (1,800 sq. ft. house) 7.7 HSPF*	daily	Average Annual Cost	\$841.50
Heat Pump (High Efficiency) (1,800 Sq. ft. house) 8.5 HSPF*	daily	Average Annual Cost	\$762.30
Heat Pump (Geothermal) (1,800 sq. ft. house) Equiv. 13.3 HSPF*	daily	Average Annual Cost	\$487.10
Heater – Portable (1500 Watts)	8 hours/day	365	\$38.84
Humidifier (177 Watts)	8 hours/day	43	\$4.58
Water Heater (4500 Watts)	3 hours/day	411	\$43.73
Hair Dryer (1,000 Watts)	15 min./day	7.6	\$0.81
*Heating Season Performance Factor (an efficiency rating) **Based on 4,296 Heating Degree Days. Cooling costs would be approximately 40% of total energy costs.			
<u>Food Prep. & Preservation</u>			
Blender/Food Processor (400 Watts)	1 hour/week	2	\$0.21
Coffee Maker (894 Watts)	one hour/day	27	\$2.87
Dishwasher (1,200 Watts) (excludes hot water costs)	one hour/day	37	\$3.94
Microwave Oven (1,450 Watts)	30 min./day	22	\$2.34
Range (12,200 Watts)	30 min./day	186	\$19.79

Self-Cleaning Cycle	twice/month		12	\$1.28
Freezer 15 Cu. Ft. (341 Watts)	12 hrs./day		124	\$13.19
Refrigerator – 14 Cu. Ft. (440 Watts)	12 hrs./day		161	\$17.13
Refrigerator – 18 Cu. Ft. (manual defrost – deduct 35%)	12 hrs./day		180	\$19.15
<u>Laundry</u>				
Clothes Dryer (4,900 Watts)	6 loads/week		90	\$9.58
Washer (512 Watts) (Excludes water costs)	6 loads/week		9	\$.96
Iron (1,008 Watts)	2 hours/week		8	\$.85
<u>Home Entertainment/Recreation</u>				
42" Plasma TV (320 Watts) (instant-on TVs use some electricity continuously)	35 hours/week		44.8	\$4.77
VCR (125 Watts)	4 hours/day		15	\$1.60
Home Computer (500 Watts) Including Monitor	4 hours/day		61	\$6.49
Hot Tub (5,000 Watts)	2 hrs./day		304	\$32.35
Pool Heater (incl. motor)	avg/daily		670	\$71.29
Pool Pump (1 hp)	continuous		1240	\$131.94
<u>Lighting</u>				
40-Watt Bulb (40 Watts) Equivalent compact fluorescent	4 hours/day 4 hours/day		5 1.375	\$.53 \$.15
60-Watt Bulb (60 Watts) Equivalent compact fluorescent	4 hours/day 4 hours/day		7 1.625	\$.74 \$.17
75-Watt Bulb (75 Watts) Equivalent compact fluorescent	4 hours/day 4 hours/day		9 2.5	\$.96 \$.27
100-Watt Bulb (100 Watts) Equivalent compact fluorescent	4 hours/day 4 hours/day		12 3.25	\$1.28 \$.35
<u>Farm</u>				
Electric Fence Charger	daily		2	\$.21
Heater (tractor engine block) (600Watts)	10 hrs./day		182	\$19.36
Heater (livestock tank)	8 hrs./daily		365	\$39.82
Auto Battery Charger (600Watts)	2 hours		36	\$3.83
Well Pump (750-1000Watts)	avg./10% usage		40	\$4.26

For other tips on saving energy visit the Department of Energy Web site, [Energy Savers – Tips on Saving Energy and Money at Home](#)