

Understanding Your Home Energy Use



Knowing how much energy you're using and how much it costs is the first step in reducing wasted energy and lowering your monthly bill. Inside is information on the electricity use of common household appliances, electronics and heating systems to help you find ways to cut energy waste at home.

**Clark
Public
Utilities** 



User's Guide to Electricity

Appliance	Approximate Wattage	Estimated Use	Average Operating Cost Per Month in \$	
			kwh	cost @ .0816
Air Conditioning				
Window A/C	750	6	135	11.02
Portable/Room A/C	1000	6	180	14.69
Portable fan	50	6	9	0.73
Ceiling fan	75	6	14	1.10
Bathroom				
Hair dryer	1200	0.1	4	0.29
Heat Lamp	250	1	8	0.61
Electronics				
>50" LED TV	160	6	29	2.35
40" - 49" LED TV	130	6	23	1.91
> 50" LCD TV	215	6	36	2.94
40" - 49" LCD TV	150	6	39	3.16
DVR / Cable Box	20	24	14	1.18
DVD player	30	3	3	0.22
Gaming System	100	3	9	0.73
Desktop Computer	300	6	54	4.41
Laptop Computer	75	6	14	1.10
Monitor - 24" LED	20	6	4	0.29
Laser printer	400	0.25	3	0.24
Freezer				
Freezer (Upright), 20 cu. Ft. (older unit)	550	continuous	65	5.30
EnergyStar® Freezer (Upright), 20 cu. Ft.	350	continuous	40	3.26
Heating				
Portable space heater / Wall heater	1500	8	360	29.38
6' Baseboard heater	1500	8	360	29.38
Electric Blanket	175	8	42	3.43
Hot Tub				
Electric heater (1500 W)	1500	5	225	18.36
Electric heater (3500 W)	3500	5	525	42.84
Kitchen				
Oven	3000	1	90	7.34
Cooktop: Large Element	2000	0.5	30	2.45
Cooktop: Small Element	1500	0.5	23	1.84
Microwave oven	1100	0.5	17	1.35
Coffee maker	1200	0.5	18	1.47
Dishwasher: normal cycle (not including hot water)	1200	1	36	2.94
Toaster oven	1150	0.5	17	1.41
Crockpot	300	1	9	0.73
Laundry				
Clothes dryer	4500	0.67	90	7.38
Clothes washer (includes hot water)	500	0.5	75	6.12
Iron	1200	0.25	9	0.73
Lighting				
60 watt Incandescent light bulb	60	6	11	0.88
15 watt CFL light bulb (60 watt equivalent)	15	6	3	0.22
9 watt LED light bulb (60 watt equivalent)	10	6	2	0.15
32 watt fluorescent 4' tube	32	6	6	0.47
16 watt LED 4' tube	16	6	3	0.24
Misc. Items				
Vacuum cleaner	750	0.1	2	0.18
Air Cleaner	50	24	36	2.94
Medical Equipment - Oxygen Concentrator	460	24	331	27.03
Medical Equipment - Sleep Apnea Machine	200	8	48	3.92
Water Pump (1 HP)	750	2	54	4.41
Refrigerator				
Refrigerator (Bottom Freezer), 21 cu. Ft. (older unit)	600	continuous	70	5.71
Energy Star Refrigerator (Bottom Freezer), 21 cu. Ft.	400	continuous	50	4.08
Water Heating				
Electric water heater 50 gallon	4500	3.5	473	38.56
Heat Pump Water Heater 50 Gallon Energy Factor 3.0	4500/900	3.5	284	23.13

*These appliances are controlled by a thermostat and are not "on" continuously.
All costs are based on the current Clark Public Utilities residential rate of 8.16 cents per kilowatt-hour and rounded to the nearest cent.



EnergyStar® appliances will use less energy than standard machines and may be eligible for rebates.

Figuring your energy costs...

Clark Public Utilities' electricity costs 8.16¢ per kilowatt-hour for residential customers. Knowing that, it's easy to figure out the cost of running an appliance or electronic device. Just find the wattage of the tool or appliance (*usually on the side or bottom*), and then use this formula:

Appliance wattage multiplied by hours the appliance is on, then divided by 1000,
then multiplied by \$.0816.

$$\text{Example: } \frac{1500 \text{ watts} \times 8 \text{ (hrs)}}{1000 \text{ watts}} = 12 \text{ (kwh)} \times \$0.0816 = 98¢$$

Don't forget that some products, such as irons, water heaters and electric space heaters are controlled with a thermostat and cycle on and off during operation. Other appliances, such as computers, may show the amperage of the device instead of watts. To convert to watts, multiply amps by volts. The voltage of household outlets is 120 volts.

About home heating...

The amount of electricity you use in your home is related to family size and living habits. Appliance wattages and operating costs in this brochure are averages only.

Electric heat costs vary widely, depending on the size of home, amount of insulation, temperatures, family size and lifestyle. About half of the annual electric bill for an electrically heated home is usually for heat.

A heat pump can reduce your heating costs by 25 percent to 50 percent (depending on the factors listed above). A heat pump also gives you the added comfort of air conditioning in the summer. Individual room heating systems such as baseboards, wall heaters and ceiling cable heat can operate less expensively than a central forced-air system if rooms not in use are closed off and thermostat settings are lowered.

Weatherizing your home can help to reduce the cost of heating and cooling. For tips on how to reduce energy waste and lower your bill, call us at 360-992-3355 or email us at ecod@clarkpud.com. Information is also available at www.clarkpublicutilities.com.



THINKING ABOUT MAKING A CHANGE?

When it comes time to replace appliances or upgrade heating systems, call us first! Financing and rebates may be available when switching to more energy efficient options. Our energy counselors are here to answer questions and help you get started.

Call the energy counselor of the day during business hours Monday-Friday at 360-992-3355 or email ecod@clarkpud.com for tips and advice.



**Clark
Public
Utilities**

HOW TO REACH US

**For regular business:
360-992-3000**

**Toll free:
1-800-562-1736**

**Call or visit our website
to report outages:
360-992-8000**

**Website:
clarkpublicutilities.com**

Find us online!



Remember! Some electronics continue to use energy even when they're off! Unplug chargers (phone, laptop, etc.) when not in use, and try a smart strip to cut off power to things like the TV and DVD player at the source when they're not on. Many newer appliances and entertainment devices have standby modes and use energy even when off. Finding ways to cut out the energy waste will help lower your bill!