

Understanding Your Home Energy Use



Knowing how much energy is being used 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** 

Appliance	Approximate Wattage	Estimated Use Hours Per Day	KWh Use Per Month	Approximate Per Month Cost @ 0.0879
Air Conditioning				
Window A/C	750	6	135	\$11.87
Portable/Room A/C	1000	6	180	\$15.80
Portable Fan	50	6	9	\$0.79
Ceiling Fan	75	6	14	\$1.23
Bathroom				
Hair Dryer	1200	0.1	4	\$0.35
Heat Lamp	250	1	8	\$0.70
Electronics				
>50" LED TV	160	6	29	\$2.55
> 50" LCD TV	215	6	36	\$3.16
DVR / Cable Box	20	24	14	\$1.23
DVD Player	30	3	3	\$0.26
Gaming System	150	3	13.5	\$1.19
Desktop Computer	300	6	54	\$4.75
Laptop Computer	75	6	14	\$1.23
Electric Vehicle				
EV Charger	(Based on 10,000 miles driven annually)		275	\$24.17
Freezer				
Freezer (Upright), 20 cu. ft. (older unit)	550	continuous	65	\$5.71
Energy Star® Freezer (Upright), 20 cu. ft.	350	continuous	40	\$3.52
Heating*				
Portable Space Heater / Wall Heater	1500	8	360	\$31.65
6' Baseboard heater	1500	8	360	\$31.65
Electric Blanket	175	8	42	\$3.69
Heated Floors (10X10 room)	1200	8	288	\$25.32
Hot Tub				
Electric Heater (1500 W)	1500	5	225	\$19.78
Electric Heater (3500 W)	3500	5	525	\$46.15
Swim Spa				
Electric Heater (4500 W)	4500	8	1080	\$94.93
Electric Heater (5500 W)	5500	8	1320	\$116.03
Kitchen				
Oven	3000	1	90	\$7.91
Cooktop	2000	0.5	30	\$2.64
Microwave Oven	1100	0.5	17	\$1.49
Dishwasher: normal cycle (not including hot water)	1200	1	36	\$3.16
Laundry				
Clothes dryer	4500	0.67	90	\$7.91
Clothes Washer (includes hot water)	500	0.5	75	\$6.59
Lighting				
60 Watt Incandescent Light Bulb	60	6	11	\$0.97
15 Watt CFL Light Bulb (60 watt equivalent)	15	6	3	\$0.26
9 Watt LED Light Bulb (60 watt equivalent)	10	6	2	\$0.18
32 Watt Fluorescent 4' Tube	32	6	6	\$0.53
Misc. Items				
Vacuum Cleaner	750	0.1	2	\$0.18
Air Cleaner	50	24	36	\$3.16
Medical Equipment - Oxygen Concentrator	460	24	331	\$29.10
Medical Equipment - Sleep Apnea Machine	200	8	48	\$4.22
Water Pump (1 HP)	750	2	54	\$4.75
Refrigerator				
Refrigerator (Bottom Freezer), 21 cu. Ft. (older unit)	600	continuous	70	\$6.15
Energy Star Refrigerator (Bottom Freezer), 21 cu. Ft.	400	continuous	50	\$4.40
Water Heating				
Electric Water Heater 50 Gallon	4500	3.5	473	\$41.58
Heat Pump Water Heater 50 Gallon Energy Factor 3.0	4500/900	3.5	284	\$24.96
Electric Tankless Water Heater (8000 W)***	8000	3.5	840	\$73.84

*These appliances are controlled by a thermostat and are not "on" continuously.

** Electric tankless water heaters can vary in wattage

*** Duration of time using hot water can vary

All costs are based on the current Clark Public Utilities residential rate of 8.79 cents per kilowatt-hour and rounded to the nearest cent.





THINKING ABOUT MAKING A CHANGE?

When it comes time to replace or upgrade heating systems, call us first! 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.



Figuring Your Energy Costs

Clark Public Utilities' electricity costs 8.79¢ 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 \$.0879.

$$\text{Example: } \frac{1500 \text{ watts} \times 8 \text{ (hrs)}}{1000 \text{ watts}} = 12 \text{ (kwh)} \times \$.0879 = \$1.06$$

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 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.



HOW TO REACH US

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

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