

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.



Appliance	Approximate Wattage	Estimated Use	Average Operating Cost Per Month in \$	
			kwh	cost @ .0816
KITCHEN				
Blender	385	5 min/day	1	\$0.08
Breadmaker	430	16 hours/month	7	.57
Can opener	125	2 min/day	<1	.02
Coffeemaker – 10-cup automatic drip type	850 – 1500	twice a day, with warmer on 4 hours/day	16–32	1.31–2.61
Dishwasher – total washing, drying and water heating	2000	daily	45	3.67
Washing	200	daily	6	.49
Drying	1000	daily	26	2.12
Water heating	800	daily	13	1.06
EnergyStar® Freezer – 17 cubic ft. frost-free*	460	continuous	53	4.33
Freezer – 17 cubic ft. frost-free* (old model)	440	continuous	102	8.32
Garbage disposal	445	5 min/day	1	.08
Microwave oven	1500	30 min/day	23	1.88
Mixer	125	2½ hours/month	<1	.03
Oven – conventional	3500	30 hours/month	105	8.57
Oven – self-cleaning feature only		one cleaning per month (3 hours)	4	.33
Range – average large element	2100	30 min/day	32	2.61
Range – average small element	1600	30 min/day	24	1.96
EnergyStar® Refrigerator-freezer – 25 cubic ft.*	838	continuous	57	4.65
Refrigerator-freezer – 25 cubic ft., side by side, (old model)*	1270	continuous	86	7.02
Toaster – 2 to 4 slice	700 – 1500	3 min/day	2	.16
Toaster oven	1150	15 min/day	9	.74
Waffle iron	800	3 hours/month	3	.25

Appliance	Approximate Wattage	Estimated Use	Average Operating Cost Per Month in \$	
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BATHROOM				
Bathtub with jets – does not include hot water	75	20 hours/month	1.5	\$0.12
Hair dryer	1200	15 min/day	9	.74
Heat lamp – bathroom ceiling fixture	250	30 min/day	4	.33
Hot rollers	375	30 min/every other day	3	.25
Shaver	10	10 min/day	<1	.02

Appliance	Approximate Wattage	Estimated Use	Average Operating Cost Per Month in \$	
			kwh	cost @ .0816
LAUNDRY ROOM				
Clothes dryer	4800	30 loads/month	91	\$7.42
Iron	1200	8 hours/month	10	.82
Washing machine – includes hot water	640	30 loads/month	91	7.42

Appliance	Approximate Wattage	Estimated Use	Average Operating Cost Per Month in \$	
			kwh	cost @ .0816
HOUSEHOLD ITEMS				
Air cleaner	20	10 hours/day	6	\$0.49
Air compressor – 1 horsepower	1000	5 hours/month	5	.41
Air conditioner*	1100	5 hours/day	165	13.47
Alarm system	6	continuous	4	.33
Ceiling fan	60	6 hours/day	11	.90
Clock	2	continuous	1.6	.13
Computer – including monitor	40	continuous	29	2.36
DVD/VCR player	25	3 hours/day	2	.16
Electric air cleaner – on furnace	50	continuous	36	2.93
Electric blanket*	175	8 hours/day	42	3.43
Fax machine	100	20 hours/month	2	.16
Hot tub – fiberglass, 300 gallons, 102° F*	varies	3 to 4 times/week	321–855	26.20–69.77
Hot tub circulation pump	1000	4 hours/day	120	9.80
Ink jet printer	25	8 hours/month	<1	.02
Laser printer	1000	8 hours/month	8	.65
Lawn mower – electric	1200	6 hours/month	7	.57
Lighting – 100-watt incandescent	100	6 hours/day	18	1.47
Lighting – 40-watt fluorescent tube, 4 ft.	40	6 hours/day	7	.57
Lighting – 23-watt compact fluorescent	23	6 hours/day	4	.34
Lighting – fluorescent torchiere	55	4 hours/day	7	.57
Lighting – halogen torchiere	300	4 hours/day	36	2.93
Radio	10	1 hour/day	<1	.02
Satellite dish	12	continuous	9	.74
Space heater	1500	8 hours/day	360	29.38
Stereo/CD player	50	4 hours/day	6	.49
TV – 19 inch	105	6 hours/day	19	1.55
TV – 25 inch	125	6 hours/day	23	1.88
TV – big screen, plasma, LCD	300	6 hours/day	54	4.41
Vacuum cleaner	960	30 min/week	5	.41
Water bed – king-size, at 95° F in 65 degree room	400	12 hours/day	144	11.75
Water heater*	4500	continuous	476	38.84
Water pump	1000	1 hour/day	30	2.44

*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.

$$\text{Example: } \frac{1500 \text{ watts} \times 8 \text{ (hrs)}}{1000 \text{ watts}} = 12 \text{ (kwh)} \times \$.0816 = 98\text{¢}$$

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 115 volts.

About home heating...

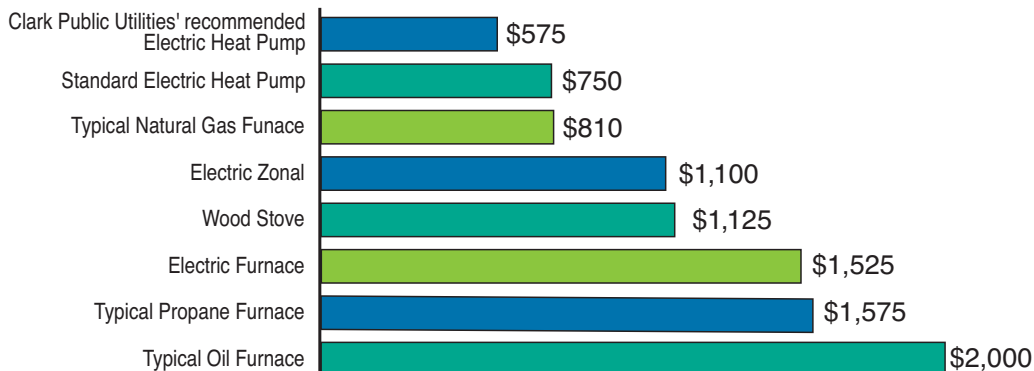
The amount of electricity you use in your home is related to family size and living habits. Appliance wattages and operating costs in this brochure are averages only.

Electric heat costs vary widely, depending on the size of home, amount of insulation, temperatures, family size and lifestyle. More than 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.

Approximate Typical Annual Heating Costs for an 1,800 sq. ft. home in Clark County



Annual heating costs were calculated in November 2014 and are based on these general assumptions: Electricity, 8.16 cents per kilowatt-hour; natural gas, 1.01057 per therm; oil, \$3.50 per gallon; propane, \$2.50 per gallon; and wood, \$250 per cord.

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!

THINKING ABOUT MAKING A CHANGE?

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



HOW TO REACH US

For regular business:
360-992-3000

From La Center and Amboy:
1-800-562-1736

To report power outages:
360-992-8000

Website:
clarkpublicutilities.com

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