

A guide to electric consumption in the home.



Have you wondered how much it costs to use your hair dryer or TV? Here is a means by which you can estimate the electrical usage and cost to run all of your household appliances. The average monthly kilowatt-hour (kwh) figures shown on this chart are based on **normal** usage of the appliance. Your electrical consumption may be higher or lower depending how you or others in your home use the various appliances. You may need to adjust your consumption figures accordingly.

To calculate the usage and cost of operating an appliance not listed, do the following:

- Find the wattage of the appliance (usually on serial plate). If wattage is not listed, look for the amp and volt ratings on the plate.
- Multiply amps by volts to get the wattage.
- Multiply the wattage by the hours you use the appliance each month.
- Divide by 1,000. This will give you the kwhs used each month.
- Multiply the kwhs used by the energy rate listed below to find the monthly cost of the appliance.

Costs are based on an average of Blue Grass Energy's residential rate: \$0.0875 per kilowatt hour

Write in the average cost for each appliance you use every month. Adjust for differences in usage.

Appliance	Avg. Watts	Hours/Mo	kwh/Mo	Cost/Month	
KITCHEN:					
Barbecue Grill	1350	6	8.1	\$0.71	
Blender	390	3	1.2	\$0.11	
Broiler	1440	6	8.6	\$0.75	
Carving Knife	90	11	1	\$0.09	
Coffee Maker	900	10	9	\$0.79	
Deep Fat Fryer	1450	5	7.3	\$0.64	
Dishwasher	1200	25	30	\$2.63	
Energy to heat water for dishwasher			115	\$10.06	
Fry Pan	1200	13	15.6	\$1.37	
Grill (sandwich)	1160	3	3.5	\$0.31	
Hot Plate	660	6	4	\$0.35	
Microwave	1450	15	21.8	\$1.91	
Mixer	125	8	1	\$0.09	
Range	12500		100	\$8.75	
Range (self-cleaning, each use)	2260		5	\$0.44	
Roaster	1330	13	17.3	\$1.51	
Slow Cooker	200	24	4.8	\$0.42	
Toaster	1150	3	3.5	\$0.31	
Trash Compactor	1100	1	1.1	\$0.10	
Waffle Iron	1120	2	2.2	\$0.19	
Garbage Disposal	450	7	3.2	\$0.28	
Subtotal of page 1					

Appliance	Avg Watts	Hrs/Mo	kwh/Mo	Cost/Mo	Your Cost
FOOD PRESERVATION:					
Refrigerator-Freezer (Frost Free)					
14 cu.ft			160	\$14.00	
18 cu.ft			189	\$16.54	
21 cu.ft			197	\$17.24	
Refrigerator-Freezer (Manual Defrost)					
14 cu.ft.			87	\$7.61	
18 cu.ft.			114	\$9.98	
20 cu.ft.			120	\$10.50	
Freezer (Frost Free)					
12 cu.ft.			165	\$14.44	
15 cu.ft.			180	\$15.75	
20 cu.ft.			240	\$21.00	
Freezer (Manual Defrost)					
12 cu.ft.			96	\$8.40	
15 cu.ft.			120	\$10.50	
20 cu.ft.			160	\$14.00	

HOME ENTERTAINMENT:

Radio	70	100	7	\$0.61	
Stereo	150	70	10.5	\$0.92	
Television - Color					
19-inch standard	200	185	37	\$3.24	
25-inch standard	250	185	46.2	\$4.04	
Plasma TV	300	185	55.5	\$4.86	
Note: Instant-on TV's consume 75% of total wattage when not in use					
Personal Computer (6 hrs/day 5 days/wk)	80	120	9.6	\$0.84	
Color Monitor	75	120	9	\$0.79	
Laser Printer	400	120	48	\$4.20	
Modem	20	120	2.4	\$0.21	
Laptop	45	120	5.4	\$0.47	
20 gal. Aquarium			50	\$4.38	

WATER HEATING, LAUNDRY AND CLEANING:

Water Heating (consumption based on number of people in household for personal use only.
You must also add in hot water use for clothes washing and dishwashing.)

# of People	Gallons/mo				
1	450	4500	202	\$17.68	
2	900	4500	287	\$25.11	
3	1350	4500	374	\$32.73	
4	1800	4500	450	\$39.38	
5	2250	4500	548	\$47.95	
6	2700	4500	650	\$56.88	
Clothes Dryer (5 loads/week)		5000	20	100	\$8.75
Clothes Washer (5 loads/week)		500	20	10	\$0.88
Energy to heat water for washer (5 loads/week)				135	\$11.81
Iron		1000	12	12	\$1.05
Sewing Machine		75	15	1.1	\$0.10
Vacuum Cleaner		630	6	3.8	\$0.33

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Appliance	Avg. Watts	Hrs/Mo	kwh/Mo	Cost/Mo	Your Cost
HEATING AND COOLING:					
Electric Heating (8 hours/day operating)					
Individual Baseboard Heaters					
4-foot Baseboard	1000	240	240	\$21.00	
6-foot Baseboard	1500	240	360	\$31.50	
8-foot Baseboard	2000	240	480	\$42.00	
10-foot Baseboard	2500	240	600	\$52.50	
Central Furnace & Blower					
10 KW	12,500	240	3000	\$262.50	
15 KW	15,350	240	3684	\$322.35	
20 KW	20,490	240	4918	\$430.33	
25 KW	25,670	240	6160	\$539.00	
Portable Space Heaters					
1000 Watts	1000	240	240	\$21.00	
1500 Watts	1500	240	360	\$31.50	
Air Source Heat Pumps					
Heating (12 hours/day operating)					
2 Ton		360			
3 Ton		360	1160	\$101.50	
4 Ton		360	1720	\$150.50	
5 Ton		360	2300	\$201.25	
5 Ton		360	2880	\$252.00	
Cooling (8 hours/day operating)					
2 Ton		240	770	\$67.38	
3 Ton		240	1150	\$100.63	
4 Ton		240	1535	\$134.31	
5 Ton		240	1920	\$168.00	
Air Conditioner (window type, 8 hours/day operating)					
6000 btu/hr		240	190	\$16.63	
10,000 btu/hr		240	320	\$28.00	
12,000 btu/hr		240	380	\$33.25	
14,000 btu/hr		240	450	\$39.38	
16,000 btu/hr		240	510	\$44.63	
18,000 btu/hr		240	575	\$50.31	
Air Conditioner (central, 8 hours/day operating)					
1.5 Tons		240	540	\$47.25	
2 Ton		240	720	\$63.00	
2.5 Ton		240	900	\$78.75	
3 Ton		240	1080	\$94.50	
4 Ton		240	1440	\$126.00	
Air Cleaner					
Humidifier	120	120	14.4	\$1.26	
Dehumidifier	260	120	31.2	\$2.73	
Fans					
Attic			24	\$2.10	
Ceiling			20	\$1.75	
Window 20-inch			18	\$1.58	
Furnace 1/3 hp			30	\$2.63	
Water Bed Heater	400		120	\$10.50	
Electric Blanket			24	\$2.10	



Appliance	Avg. Watts	Hrs/Mo	kwh/Mo	Cost/Mo	Your Cost
HEALTH AND BEAUTY:					
Blow Dryer	1500	\$0.131	per hour of operation		
Curling Iron	400	\$0.035	per hour of operation		
Heat Lamp	250	\$0.022	per hour of operation		
Heat Pad	65	\$0.006	per hour of operation		
Shaver	15	\$0.001	per hour of operation		
Sun Lamp	280	\$0.025	per hour of operation		
Vaporizer	250	\$0.022	per hour of operation		

LIGHTING: (Adjust dollar amount for the number of fixtures in home)

Indoor (based on fixture being on 2 hrs/day)					
1-60 watt bulb fixture			4	\$0.35	
3-60 watt bulb fixture			11	\$0.96	
1-100 watt bulb fixture			6	\$0.53	
2-40 watt fluorescent bulb fixture			5	\$0.44	
Outdoor (based on fixture being on 8 hours/day)					
60 watt pole light			14	\$1.23	
75 watt flood lamp			36	\$3.15	
200 watt mercury vapor			65	\$5.69	
120 watt mercury vapor			40	\$3.50	
100 watt HP sodium			37	\$3.24	
75 watt HP sodium			27	\$2.36	

MISCELLANEOUS:

Water Pump					
1/3 hp	250	40	10	\$0.88	
1 hp	750	40	30	\$2.63	
1.5 hp	1120	40	44.8	\$3.92	
Pool Pump					
1 hp (pool pump - 12 hrs/day)	750	360	270	\$23.63	
1 hp (pool pump - 24 hrs/day)	750	720	540	\$47.25	
Garage Door Opener	800		9	\$0.79	
Head Bolt Heaters (8 hrs/day)					
500 watt	500	240	120	\$10.50	
800 watt	800	240	192	\$16.80	
1500 watt	1500	240	360	\$31.50	
Heat Tape	8 watts/ft.	720	5.8/ft.	\$.24/ft.	

LIST OTHER APPLIANCES HERE:

_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____





We hope this exercise helps you to better understand where your electricity dollar goes. As you can see by reviewing your list, the three biggest users of electricity are your heating and cooling equipment, hot water needs and refrigeration equipment. Call your energy advisor today at 888-546-4243 to find out how you may be able to reduce your usage in these areas.