

**The Energy to Thrive**

# ENERGY USAGE GUIDE



**CORE**

**ELECTRIC COOPERATIVE**



[www.CORE.coop](http://www.CORE.coop)

Consult the table below for common household appliances and devices, amount of power required to operate each (wattage), typical number of hours used per month, power required (kW), typical kilowatt-hours (kWh) used per month and monthly cost to operate based on CORE's current residential rate. To calculate the approximate monthly cost to power any other device, use this formula:

$$\text{Cost} = \frac{\text{Wattage} \times \text{Hours Used}}{1,000} \times \text{Rate}$$

**Note:** Volts × Amperage = Wattage; 1 horse power motor = 746 watts

Item	Wattage	Average Hours Used	kW	Average kWh	Cost @ \$0.1128 per kWh
<b>Kitchen Appliances</b>					
Coffee Maker	800	15	0.8	12	\$1.35
Dishwasher	1800	30	1.8	54	\$6.09
Freezer	250	100	0.25	25	\$2.82
Microwave	1400	7	1.4	10	\$1.13
Oven	5000	7	5	35	\$3.95
Refrigerator	750	100	0.75	75	\$8.46
Stove-top burner (small)	1000	7	1	7	\$0.79
Stove-top burner (large)	3000	7	3	21	\$2.37
Toaster	1200	3	1.2	4	\$0.45
<b>Comfort Conditioning</b>					
Air Conditioner	1000	180	1	180	\$20.30
Ceiling Fan	50	150	0.05	8	\$0.90
Central A/C (2.5 tons)	3500	180	3.5	630	\$71.06
Furnace, Electric	18000	120	18	2160	\$243.65
Furnace Fan	300	720	0.3	216	\$24.36
Humidifier (house steam)	3520	360	3.52	1267	\$142.92
Oxygen Concentrator	310	720	0.31	223	\$25.15
Radiant Floor Heat (10x20)	3000	180	3	540	\$60.91
Space Heater	1500	180	1.5	270	\$30.46
<b>Around the House</b>					
Clothes Dryer	5000	25	5	125	\$14.10
Electric Blanket	250	30	0.25	8	\$0.90
Engine Block Heater	1000	360	1	360	\$40.61
Gutter Heater/Roof De-Icer	1000	720	1	720	\$81.22
Hair Dryer	1600	4	1.6	6	\$0.68
Heat Lamp	250	360	0.25	90	\$10.15
Heat Tape	200	360	0.2	72	\$8.12
Heated Driveway (20x40)	28000	16	28	448	\$50.53
Hot Tub	5500	60	5.5	330	\$37.22
Light Bulb (LED)	9	150	0.01	1	\$0.11
Light Bulb (Incandescent)	60	150	0.06	9	\$1.02
Radon Fan	50	720	0.05	36	\$4.06
Stock Tank Heater	1500	720	1.5	1080	\$121.82
Washing Machine	500	25	0.5	13	\$1.47
Water Heater	4500	90	4.5	405	\$45.68
Well Pump (2 hp)	1492	30	1.49	45	\$5.08
<b>Electronics</b>					
Computer (Desktop)	200	240	0.2	48	\$5.41
Computer (Laptop)	60	240	0.06	14	\$1.58
Video Game Console	250	90	0.25	23	\$2.59
TV (32" LED)	60	150	0.06	9	\$1.02
TV (55" LED)	150	150	0.15	23	\$2.59
TV (Plasma)	250	150	0.25	38	\$4.29
<b>Electric Vehicles</b>					
EV Level 1 Charger	6000	14	6	84	\$9.48
EV Level 2 Charger	11000	7	11	77	\$8.69