



Electric Appliance

Energy Usage

Cost of Operating Home Appliances

This guide provides the approximate cost of operating various home appliances based on industry average use and current MID rates.

These estimates are for appliances 5 years old or newer.

AVERAGE WATTS	APPLIANCE TYPE	APPROXIMATE ENERGY USE	WINTER COST (October - April)	SUMMER COST (May - September)
Cooling				
3000-6000	Central air conditioner	6 kWh per hour	\$0.90 per hour	\$1.08 per hour
1,000	Air conditioner, room or window - 10,000 btu @10.0 EER	1 kWh per hour	\$0.15 per hour	\$0.18 per hour
400	Evaporative cooler	0.4 kWh per hour	\$0.06 per hour	\$0.07 per hour
350	Whole house fan	0.35 kWh per hour	\$0.05 per hour	\$0.06 per hour
100	Ceiling fan - 52" Energy Star rated will be less.	0.1 kWh per hour	\$0.01 per hour	\$0.02 per hour
250-500	Attic Fan	0.5 kWh per hour	\$0.07 per hour	\$0.09 per hour
35-55	Table or Floor Fan	0.05 kWh per hour	\$0.01 per hour	\$0.01 per hour
Heating				
1,500	Baseboard heater-6 ft @250 W/ft	1.5 kWh per hour	\$0.22 per hour	\$0.27 per hour
1,500	Heater, portable	1.5 kWh per hour	\$0.22 per hour	\$0.27 per hour
5000-10,000	Central heat pump	5 kWh per hour	\$0.75 per hour	\$0.90 per hour
250-750	Forced air fan	0.75 kWh per hour	\$0.11 per hour	\$0.14 per hour
4,500	Electric water heater 52 gallons	15 kWh per day	\$2.25 per day	\$2.71 per day
4500	Electric Heat Pump Water Heater	5 kWh per day	\$0.75 per day	\$0.90 per day
50	Electrostatic Air Cleaner on Furnace	0.05 kWh per hour	\$0.01 per day	\$0.01 per day
Kitchen Appliances				
400	Refrigerator, single door auto defrost	2.8 kWh per day	\$0.42 per day	\$0.51 per day
600	Refrigerator with ice maker; large side by side or bottom freezer	4.2 kWh per day	\$0.63 per day	\$0.76 per day
600	Refrigerator, 1980's era single door	6 kWh per day	\$0.90 per day	\$1.08 per day
450	Freezer, 15 c.f.* auto defrost	3.6 kWh per day	\$0.54 per day	\$0.65 per day
350	Freezer, 15 c.f.* manual defrost	2.8 kWh per day	\$0.42 per day	\$0.51 per day
100	Beverage Cooler or Mini Refrigerator	1 kWh per day	\$0.15 per day	\$0.18 per day
1,200	Dishwasher (mechanical operation)	1 kWh per load	\$0.15 per load	\$0.18 per load
	Dishwasher (electric water heating)	2 kWh per load	\$0.30 per load	\$0.36 per load
1,250	Range, top burner (high setting)	1.25 kWh per hour	\$0.19 per hour	\$0.23 per hour
2,300	Oven (medium setting)	2.3 kWh per hour	\$0.34 per hour	\$0.42 per hour
3,000	Oven, self-cleaning feature	3 kWh per hour	\$0.45 per hour	\$0.54 per hour
1,500	Microwave (ten-minute use)	0.25 kWh per use	\$0.04 per use	\$0.05 per use
1,200	Toaster oven	1.2 kWh per hour	\$0.18 per hour	\$0.22 per hour
1,500	Coffee maker	0.38 kWh per use	\$0.06 per use	\$0.07 per use
1,200	Electric skillet	1.2 kWh per hour	\$0.18 per hour	\$0.22 per hour
1,400	Deep fryer	1.4 kWh per hour	\$0.21 per hour	\$0.25 per hour
1,000	Instant hot water dispenser	1 kWh per hour	\$0.15 per hour	\$0.18 per hour
650	Bread machine	0.65 kWh per hour	\$0.10 per hour	\$0.12 per hour

*c.f. = cubic feet

AVERAGE WATTS	APPLIANCE TYPE	APPROXIMATE ENERGY USE	WINTER COST (October - April)	SUMMER COST (May - September)
	Laundry			
5,000	Clothes dryer - Electric	5 kWh per load	\$0.75 per load	\$0.90 per load
450	Clothes dryer - Gas (turn the drum)	0.45 kWh per load	\$0.07 per load	\$0.08 per load
512	Washing machine, automatic (mechanical operation)	0.256 kWh per load	\$0.04 per load	\$0.05 per load
	Washing machine, automatic (heating water electrically)	6 kWh per load	\$0.90 per load	\$1.08 per load
1,100	Iron	1.1 kWh per hour	\$0.16 per hour	\$0.20 per hour
	General Household			
7	Electric clock	8.64 kWh per month	\$1.29 per month	\$1.56 per month
80	Electric Blanket - twin or per side queen/king	0.8 kWh per night	\$0.12 per night	\$0.14 per night
1,200	Hair dryer	1.2 kWh per hour	\$0.18 per hour	\$0.22 per hour
100	Stereo	0.1 kWh per hour	\$0.01 per hour	\$0.02 per hour
80	TV, LED	0.2 kWh per hour	\$0.03 per hour	\$0.04 per hour
120-450	TV - LCD or Plasma, depending upon the size & age	0.5 kWh per hour	\$0.07 per hour	\$0.09 per hour
35	Cable Box DVR (24/7)	0.84 kWh per day	\$0.13 per day	\$0.15 per day
20	Cable Box not DVR (24/7)	0.48 kWh per day	\$0.07 per day	\$0.09 per day
17	DVD/VCR Player (7 watts standby)	0.07 kWh per day	\$0.01 per day	\$0.01 per day
10	WiFi Router	7.2 kWh per month	\$1.08 per month	\$1.30 per month
22	Wireless Enhancer 24/7	15.8 kWh per month	\$2.37 per month	\$2.86 per month
175	PC Tower w/Monitor (67 watts sleep)	0.175 kWh per hour	\$0.03 per hour	\$0.03 per hour
60	Laptop Computer	0.06 kWh per hour	\$0.01 per hour	\$0.01 per hour
115	Home Copier	0.15 kWh per hour	\$0.02 per hour	\$0.03 per hour
50	Printer Inkjet	0.05 kWh per hour	\$0.01 per hour	\$0.01 per hour
350	Printer Color Laserjet (48 watts ready mode; 15 watts sleep mode)	0.35 kWh per day	\$0.05 per day	\$0.06 per day
60	Fax Machine (3 watts sleep mode)	0.06 kWh per day	\$0.01 per day	\$0.01 per day
2	Cell Phone Charger	1.44 kWh per month	\$0.22 per month	\$0.26 per month
20	Idoc 24/7	0.48 kWh per day	\$0.07 per day	\$0.09 per day
30	Residential Gateway Battery Back Up	22 kWh per month	\$3.30 per month	\$3.98 per month
187	Xbox 360 (158 watts at idle)	0.19 kWh per hour	\$0.03 per hour	\$0.03 per hour
198	Playstation 3 (177 watts at idle)	0.2 kWh per hour	\$0.03 per hour	\$0.04 per hour
18	Wii (14 watts at idle)	0.336 kWh per day	\$0.05 per day	\$0.06 per day
110	PS4	0.11 kWh per hour	\$0.02 per hour	\$0.02 per hour
1134	1-1/2 HP Domestic Well or Pool pump	1.134 kWh per hour	\$0.17 per hour	\$0.21 per hour
567	3/4 Pool pump	0.567 kWh per hour	\$0.08 per hour	\$0.10 per hour
5,500	Spa Heater	5.5 kWh per hour	\$0.82 per hour	\$0.99 per hour
	Spa (average filtering operation)	210 kWh per month	\$31.46 per month	\$37.97 per month
	Lighting			
100	Incandescent Bulb	0.1 kWh per hour	\$0.01 per hour	\$0.02 per hour
27	Compact Fluorescent Bulb or LED	0.027 kWh per hour	\$0.0040 per hour	\$0.0049 per hour
172	4 ft - 4 Lamp Fluorescent Fixture	0.172 kWh per hour	\$0.03 per hour	\$0.03 per hour
100	Dusk to Dawn Light	0.1 kWh per hour	\$0.01 per hour	\$0.02 per hour

How Costs Were Calculated

2016 residential rates:

Winter Rates: \$0.1498 per kWh (Tier 2, over 500 kWh)

Summer Rates: \$0.1808 per kWh (Tier 2, over 500 kWh)

kWh = kilowatthour



For more information contact the
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