



## Appliance Energy Use

### Key Points

- This energy use estimate for a typical family of four is based on averages for common household appliances, and is not intended to represent the newer, highest efficiency Energy Star appliances.
- Electric energy use (in kilowatt hours - kWh) and natural gas energy use (in units of 100 cubic feet of gas - ccf) are listed.
- The numbers provided below are simplified estimates for a family of four, and may not correlate with your own energy use because of differences in equipment; age, efficiency, operating conditions, lifestyle variances, etc.

Common Household Appliances Average Energy Use (family of four)		
General	Water Heater (elec) - 4500w, 19 amps at 240v	375 kWh/month
	Water Heater (gas)	18 ccf/month
	Lighting	60 kWh/month
Space Conditioning	Air Conditioner, 1 ton (window) 12 SEER - 1000w, 9 amps	240 kWh/month (8 hr/day)
	Air Conditioner, 3 tons (central) 12 SEER - 3000w, 13 amps at 240v	720 kWh/month (8 hr/day)
	Heat Pump, 3000w, 13 amps at 240v for heating, and up to 25 amps for backup heating. Same as AC in cooling mode	see <a href="#">HVAC calculator</a>
	Electric resistance heating, varies by size, e.g., 42 amps for 10 kW heater at 240v	1800 kWh/month (6 hr/day)
	Furnace Blower (1/2 hp motor) - 440w, 4 amps	105 kWh/month (8 hr/day)
	Heater (portable) - 1500w, 12.5 amps	1.5 kWh per hr of use
	Whole House Attic Fan (30") - 1000w, 8.5 amps	96 kWh/month (8 hr/day)
	Ceiling Fan (lights off) - 70w, 1 amp	9 kWh/month (4 hr/day)
	Portable Box Fan (20") - 180w, 1.5 amps	22 kWh/month (4 hr/day)
	Humidifier (winter) - 175w, 1.5 amps	42 kWh/month (8 hr/day)
	Dehumidifier (summer, 25 pint capacity) - 300w, 3.0 amps	108 kWh/month (12 hr/day)
Kitchen	Refrigerator/Freezer (22 cu.ft. frost free, 2006) - 350w, 3 amps	60 kWh/month
	Refrigerator/Freezer (22 cu.ft. frost free, 1990) - 550w, 5 amps	110 kWh/month
	Cooktop (elec) - 1500w, 6 amps for small and 2500w, 10.5 amps for large burners, all at 240v	34 kWh/month (40 min/day)
	Cooktop (gas)	1.5 ccf/month (40 min/day)
	Oven (electric) - 3500w, 14.5 amps at 240v	52 kWh/month (30 min/day)
	Oven (gas)	2.1 ccf/month (30 min/day)
	Microwave - 1500w, 8.5 amps	11 kWh/month (15 min/day)
	Disposer (3/4hp) - 650w, 5.5 amps	2 kWh/month (5 min/day)
	Dishwasher - ranges from 400w, 6 amps to 1200w, 10 amps (with electric boost heater)	15 kWh/month (1hr every other day)
	Freezer - 350w, 3 amps	50 kWh/month
	Coffee Maker (auto drip) - 300w, 2.5 amps	9 kWh/month (1hr/day)
	Bread Maker - 650w, 5.5 amps	0.8 kWh/loaf
	Toaster Oven - 1500w, 12.5 amps	6 kWh/month (15 min/day)
	Toaster - 1100w, 9 amps	2 kWh/month (5 min/day)
Laundry	Top Load Clothes Washer (elec water heat) - 1200w, 10 amps	75 kWh/month
	Top Load Clothes Washer (gas water heat) - 650w, 5.5 amps	10 kWh/month + 2.5 ccf/month

	Front Load Clothes Washer (elec water heat) - 1200w, 10 amps	30 kWh/month
	Front Load Clothes Washer (gas water heat) - 650w, 5.5 amps	6 kWh/month + 1.0 ccf/month
	Clothes Dryer (elec) - 5000w, 21 amps at 240v	80 kWh/month
	Clothes Dryer (gas)	4 kWh/month + 3.2 ccf/month
Entertainment	27" Color TV - 200w, 2amps	36 kWh/month (6 hr/day)
	42" Plasma Flat Screen TV - 400w, 3.5 amps	72 kWh/month (6 hr/day)
	42" LCD Flat Screen TV - 220w, 2 amps	40 kWh/month (6 hr/day)
	Stereo - 300w, 2.5 amps	18 kWh/month (2 hr/day)
	DVD Player - 30w, 0.5 amps up to 140w, 1.2 amps with surround sound speakers	2 kWh/month (2 hr/day)
	Portable Radio - 25w, 0.5 amps	2 kWh/month (3 hr/day)
	Gaming PlayStation II - 50w, 0.5 amps	2 kWh/month (1 hr/day)
	Clock - 3w, 0.1 amps	2 kWh/month (24 hr/day)
Office	Computer (desktop) - 150w, 1.5 amps	18 kWh/month (4 hr/day)
	17" Monitor (LCD) - 35w, 0.5 amps	4 kWh/month (4 hr/day)
	17" Monitor (CRT) - 75w, 1 amp	9 kWh/month (4 hr/day)
	Laser Jet Printer - 350w, 3 amps	35 kWh/month
	Ink Jet Printer - 50w, 0.5 amps	5 kWh/month
Personal Care	Electric Blanket - 125w, 1 amp	30 kWh/month (8 hrs/night)
	Water Bed Heater - 400w, 3.5 amps	80 kWh/month
	Blow Dryer - 1200w, 10 amps	9 kWh/month (15 min/day)
	Curling Iron - 650w, 5.5 amps	3 kWh/month (10 min/day)
	Iron - 1400w, 12 amps	7 kWh/month (10 min/day)
Other	Vacuum Cleaner - 740w, 6.5 amps	11 kWh/month (30 min/day)
	Circular Saw (7 ¼", 2.5 hp) - 2200w, 19 amps	2.2 kWh per hr of use
	Motor (1hp) - 900w, 7.5 amps	0.9 kWh per hr of use

---

Duke Energy Business Services Newsline has been prepared solely for the purpose of providing helpful information to users of this service. The information has been compiled by Tech Resources, a contractor to Duke Energy, however, no representation is made as to the completeness or accuracy of the information contained therein. In particular, some information may be incomplete, may contain errors or may be out of date. In addition, neither Tech Resources nor Duke Energy endorses any product or service mentioned therein.