



Choices to help you save

A helpful guide for Wattsmart® energy options



WATTSMART®
ENERGY SAVINGS

**ROCKY MOUNTAIN
POWER.**
POWERING YOUR GREATNESS

Table of contents

Making informed choices.....	1
What is a kilowatt?	2
Understanding energy bills	3
Home electric use chart	4
Wattsmart ways to save	5
Energy-saving opportunities for your needs	10



When it comes to energy for your home, you want flexible choices that work for you today – and tomorrow. We are committed to providing solutions that help you manage your energy bills and reduce your environmental impact.

This guide is designed to help you identify ways to save energy and money. When you reduce energy use, you are helping keep electricity prices among the lowest in the nation.

Making informed choices

The first step in the wise use of electricity is understanding your energy use and habits.

Residential energy use

Approximate average monthly kilowatt-hour* use:

Electric heat	2,200*
Electric heat pump	1,460*
Baseboard/zonal/wall/portable heat	1,400*
Central air conditioning	1,000*
Electric water heater (3 people)	465**
Other heat (space, block, etc)	180
Furnace fan	102
Lighting	60
Computer/printer	45
Refrigerator-freezer	44
Freezer	43
Clothes dryer	37
ENERGY STAR® refrigerator-freezer	35
ENERGY STAR® freezer	35
Electric range/oven	23
Flat-panel television	21
Game system	20
Dishwasher	18***
Cable TV set-top box	17
Clothes washer	13***
Microwave	11
Coffee maker	10

Energy use can vary greatly depending on the age or design of the appliance, the age of your home, and the number of occupants. In general, new homes and newer appliances will use less energy.

*Based on a 1,500-square-foot home for a six-month period. Homes can differ in usage, and figures may be higher than those indicated.
**Based on a family of three. Add 100 kilowatt-hours for each additional person.
***Heating water for appliance use is included in the water heater estimate but not in the dishwasher or clothes washer estimates.

What is a kilowatt?

Electric power is measured in watts, like gasoline is measured in gallons. A kilowatt-hour (kWh) is 1,000 watts of electricity used for one hour. For example, over a 10-hour period, a 100-watt light bulb uses one thousand watt-hours or 1 kilowatt-hour of electricity.

$(100 \text{ watts} \times 10 \text{ hours} = 1,000 \text{ watt-hours} = 1 \text{ kWh})$

The average home in the United States uses approximately 886 kWh of electricity per month or 10,632 kWh per year.

If you know the wattage of an item, you can calculate the cost to run it using the following formula:

watts ÷ 1,000 x hours used x cost per kWh* = cost to run

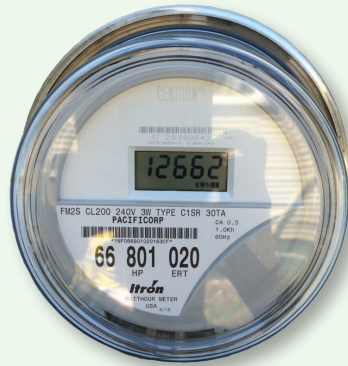
Example: A 1,500-watt space heater used for 8 hours $1,500 \div 1,000 \times 8 \times .11$ (11¢) = \$1.32

At this rate of use per day, the heater would cost \$39.60 over a month ($\$1.32 \times 30 \text{ days}$)

*Find the cost per kWh on your billing statement.

You can also roughly calculate your cost per kWh by dividing the dollar amount of your most recent electric bill by the number of kWh on the bill. For example, a bill of \$145 based on usage of 1,300 kWh means you are paying an average cost per kWh of 11¢ ($145 \div 1,300 = .11$).

Visit RockyMountainPower.net/EnergyUse for a calculator you can use for your home.



Understanding energy bills

What affects your electric bill?

Changes in the weather, your lifestyle and conditions in your home all play a part in determining your electric bill each month. Here are some common reasons your bill may be different from one month to the next or what may cause it to be higher than it could be:

WEATHER CONDITIONS

- Above-average summer heat
- Below-average winter cold

CHANGES AT HOME

- New family member or house guest
- Installing additional appliances
- A change in your work schedule or habits

HEATING EQUIPMENT

- Central heating with an electric furnace or heat pump
- Zonal heating with plug-in space heaters, built-in wall heaters, in-floor heating, baseboard heaters or ceiling cable heat
- Outdoor heating with heat lamps, water trough heaters or engine block heaters; also can include heat tape on roofs, under driveways or walkways, around water pipes or in well houses

COOLING EQUIPMENT

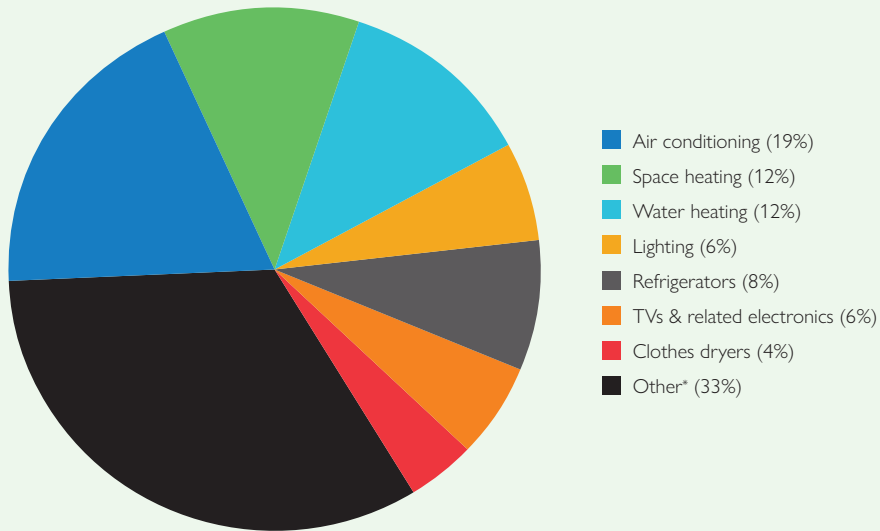
- Central air conditioning
- Window and portable air conditioners



OTHER ENERGY USERS

- Electric water heaters
- Swimming pools, hot tubs or spas
- Irrigation pumps
- Malfunctioning equipment, such as your water heater, heat pump or air conditioner, that need to be repaired or replaced
- Extra refrigerators or freezers

Home electric use



Source: U.S. Energy Information Administration

*Can include ceiling fans, air handlers, separate freezers, cooking, dehumidifiers, microwaves, pool pumps, humidifiers, dishwashers, clothes washers, hot tub heaters, electric vehicle charging and hot tub pumps.

Wattsmart ways to save

Heating and cooling

Keep your heating and cooling systems in peak condition with professional maintenance in the spring (for cooling) and fall (for heating). Consult your system's manufacturer for recommended upkeep.

HEATING

- Keep the thermostat at 68°. Turn it down by 5°-10° at night or when away from home for more than three hours. Use a smart or programmable thermostat to adjust the temperature automatically.

For heat pumps: Keep the thermostat at 68° to avoid unnecessarily engaging the system's emergency heating, which can increase your bill. Refer to the manufacturer's recommended settings.

- Seal and insulate ductwork.
- Clean or replace furnace filters once a month during use.
- Close fireplace chimney dampers when the fire is completely out to stop drafts.
- Window treatments (drapes, blinds, etc.) can add an extra layer of insulation during cold weather. Open them on sunny days to let in the sun's heat.
- Don't block registers, baseboards, radiators or cold air returns. Air must circulate through and around them for maximum efficiency; materials too close to heat sources can be fire hazards.
- If you are installing a new heating system or smart thermostat, check for available rebates at **Wattsmart.com**.



COOLING

- Keep the thermostat at 78° when you're home.
- Clean or replace air conditioning filters once a month during use.
- Don't allow furniture or drapes to block indoor airflow. Outdoors, prune shrubs to allow at least 18-24" clearance on all sides of air conditioning units for proper airflow.
- Reduce daytime use of heat-emitting appliances like ovens, dishwashers and dryers.
- Keep lamps, TVs or other heat-emitting sources away from your thermostat.
- Use portable and ceiling fans to keep cool. Turn them off when you leave the room.
- Run exhaust fans when you shower or cook.
- Keep windows covered to block the sun's rays. Use insulated curtains, drapes or plastic UV protection on a window's interior.
- Consider landscaping with leafy shade trees. Plant them on the southeast and southwest sides of your home.
- If shopping for cooling equipment, check for available rebates at Wattsmart.com.



WATER HEATING

- Fix leaky faucets. A dripping faucet can waste 6 to 10 gallons of water a day.
- Install energy-efficient shower heads and faucet aerators to reduce water use.
- Take a shower instead of a bath.
- Set the water heater temperature at 120°. Consult the owner's manual for your specific model. **Caution: Turn the power off at the circuit breaker before changing the temperature!**
- Insulate water pipes to help keep cold water pipes from freezing and hot water pipes hot.



In the kitchen

REFRIGERATORS AND FREEZERS

- Set the refrigerator temperature between 37° and 40° and the freezer at 0° for top efficiency and food safety.
- Keep refrigerator coils clean and unobstructed.
- Clean door gaskets with warm water or a detergent that leaves no residue.
- Keep your refrigerator or freezer full, but do not block the unit's interior air vents.
- Cover all liquids stored in the refrigerator to avoid moisture making the motor work longer.
- Consolidate items into as few refrigerators/freezers as possible; unplug those not in use.
- Look for the ENERGY STAR® label when replacing appliances and equipment.

DISHWASHERS

- Only run your dishwasher when it is filled to capacity but not overloaded.
- Choose the shortest wash cycle that will still clean your dishes, and use an air-dry option, if available.

COOKING APPLIANCES

- Use a microwave, toaster oven or slow cooker instead of the oven.



Lighting

- Turn off lights every time you leave a room.
- Use energy-efficient LED bulbs to save on lighting costs.
- Use task lighting so that other lights in the room can be turned off or dimmed.
- For lighting at night and/or for safety reasons, consider photocells (daylight sensors) and motion sensors. Use timers for lights to come on during a set time.

In the laundry room

CLOTHES DRYER

- Hang clothes outside when possible.
- Run separate loads for fast- and slow-drying clothes.
- Clean the lint filter after every load.
- Clean out the vent at least once a year.

CLOTHES WASHER

- Wash with warm or cold water. Rinse with cold water.
- Run full loads. Reduce the water level setting for smaller loads.

Computers and electronics

Save energy and money by turning off electronics when not needed. Plug computers, printers, TVs and cell phone chargers into a power strip and turn the power strip off when your electronics are not in use. Use an advanced power strip to automatically sense when your electronics are idle and cut off the power flow to them.

Pools and spas

- Check the manufacturer's recommendations to determine how often to run the pump. They may vary by season and geographic region.
- Use a timer to control the pump's cycling.
- Keep pool filters and intake grates clear of debris.
- Lower the pool heater temperature 1° to 4° to save energy.
- Cover your pool to keep heat in and debris out.
- Consider upgrading to an energy-efficient variable speed pool pump to save money.

While away on vacation

- During the winter, lower your thermostat to 50° to 60°. In the summer, turn your thermostat up to 80° to 85°.
- Turn off your water heater at the circuit breaker panel if you'll be gone more than three days.
- Unplug electrical equipment such as TVs, DVD players and computers.



Energy-saving opportunities for your needs

You have a variety of options to save money and care for the environment..

Save on energy upgrades

Earn cash rebates and discounts on qualifying energy-efficient heating and cooling equipment, or other products and services for your home. Find details at [Wattsmart.com](https://www.wattsmart.com).

Use energy wisely

Utah customers with central air conditioning can enroll in our Cool Keeper program to use energy more effectively during the summer and earn bill credits.

Positively impact the environment

You can support clean energy in your community and help bring new renewable energy facilities to the region when you enroll in our Blue Sky® program. Learn more at RockyMountainPower.net/BlueSky.

Explore solar options

If you're interested in using solar energy to power your home, we have options and expertise to help.

- In Utah, you may be able to join 3,000 customers who get energy from a local solar plant. Space is limited.
- If you have on-site solar generation, you can earn incentives for allowing us to manage your battery as part of our smart grid.

To learn more, visit RockyMountainPower.net/Solar.

Drive electric and save

There are good things ahead for electric transportation in our region. We've teamed up with businesses and communities to help expand the network of EV charging stations.

Find programs and resources at RockyMountainPower.net/EV.





Wattsmart.com