



Clark Electric Cooperative

Your Touchstone Energy® Partner 

DUEL FUEL

For more information on programs and products contact us.

Clark Electric Cooperative
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Electric Heating....

the safe, affordable & efficient

Choice!

Why would you choose to heat a home with electricity?

Heating with electricity can be expensive, right? The truth is, if you manage electric heat using Clark Electric's residential electric rate it may be expensive to heat your home. However, utilizing your cooperative's load management programs, electric heat is very competitive with other fuel sources. With today's high fuel prices electricity is an affordable way to heat your whole home or areas that are hard to keep warm. Affordable electric heat provides a clean, safe and consistent heat.

How does load management work?

Load management programs are designed to save you and the cooperative money, not to be an inconvenience to you. Keep that in mind, there are two ways load management will make heating your home competitive with other fossil fuels.

- **Dual Fuel:** On the coldest days of the winter, when demand for electricity is high, Clark Electric's power supplier, Dairyland Power Cooperative, sends a signal to your electric heating system to automatically switch to a qualifying back up heating source.
- **Heat Storage:** If your electric heating system is able to store heat (i.e. an electric heating system that utilizes electric thermal storage technology) your system will "charge" during off-peak hours when electrical demand is low and will store the heat so it is available when the thermostat calls for heat.

Electric Heating Questions...

What can be controlled?

Clark Electric will control water heaters, electric heating systems, and air conditioners.

- Water Heaters** = Up to 4 to 6 hours in a 10 hour period; water heater size determines amount of control time. A \$4.00/month credit will be applied to the monthly electric bill for control opportunity.
- Dual Fuel Systems** = Baseboard electric heat, plenum heaters, and heat pumps, can be controlled up to 12 hours in a 24 hour period. Must have an appropriate backup heating system.
- ETS Systems** = On for 10 hours in a 24 hour period daily. The on period is used to recharge the storage system. Systems will charge for 7.5 hours over night and 2.5 hours in the afternoon. Most of these systems will charge 24 hours on weekends and holidays.
- Air Conditioners** = A cycling control strategy is used, 15 minutes on 15 minutes off during the summer months only. The fan will stay on during cycling control, (this strategy also includes ground source and air-to-air heat pumps) summer months only. An \$8.00/month credit will be applied to the June, July and August electric bills for control opportunity for those members not on the dual fuel rate strategy.

When am I controlled?

Control of electric heating and air conditioning occurs because the system demand is too high. This normally occurs between 5 – 9 pm, or as it gets extremely cold or hot, demand tends to climb so control may be necessary at other times.

Why do I need a backup system?

An automatic fossil fuel backup system is needed to ensure that your house is protected during extended control periods in extreme cold temperatures. An automatic backup ensures that if you are not home during the control period the backup system will work. An ETS system is considered an automatic system because of its stored heat capacity.

Types of Electric Heating...

- **Baseboard Heater:** An easy and inexpensive way to add heat to “cool spots”. Baseboard electric heat is easy and inexpensive to install. It allows for individual thermostats to be used for individual rooms which can help reduce energy costs.
- **Electric Thermal Storage – ETS:** Does not need a backup heat source. Offers several types of heating from individual rooms to whole house heating. Centrally ducted systems allow for the addition of central air conditioning and radiant floor heating applications.
- **Plenum Heater:** An electric plenum heater provides whole house electric heating with the ability to utilize your existing fossil fuel furnace to take advantage of Clark Electric’s “Dual Fuel” heating rate.
- **Electric Boiler:** Electric boilers along with radiant tubing systems have become one of the most popular heating systems for residential and commercial applications. Electric Boilers can be zoned to provide whole house heating or supplemental heating.
- **Electric Heat Pumps:** A heat pump is an electric device that captures the heat that occurs naturally in the air or in the ground. Heat pumps offer an energy-efficient alternative to standard furnaces and air conditioners.
 - **Air-Source Heat Pumps:** An air-source heat pump transfers heat between your house and the outside air. When properly installed it can deliver 1-1/2 to 3 times more heat energy than the electric energy it consumes.
 - **Ground-Source Heat Pump – Geothermal:** A geothermal heat pump is the highest efficiency heating and cooling system available because it uses a renewable energy sources.

Contact us for information on Electric Heating Rates

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