

2012

Dual Fuel Heating

Dual Fuel Heating is a combination of electric and non-electric or electric and Off Peak Storage Electric space heating. Conventional electric is the primary heating system and the non-electric or Off Peak Electric Storage is the backup system.

With the exception of the Off Peak Storage Electric, the backup heating systems must be capable of heating the whole house during the control period.

Control periods will vary but no more than 12 consecutive hours in a 24 hour period. (Control periods will not exceed 400 hours per heating season.)

There is no prior notice of when the primary electric heating will be controlled. You can look at our Web Site www.kpcoop.com for possible control periods. Click on Great River Energy Link and follow the directions. If you have any questions, please call the Co-op.

Automatic startup is required for all
Back-Up Heating
Systems.



Rate: .062 per KWH September - May
.072 per KWH June - August

Financing: 0%

Terms: 5 years – up to \$5,000 for installation

2012

Ground Source Heat Pump

The GeoSource heat pump utilizes the earth as the medium from which heat is extracted. Water is pumped through a heat exchanger in the heat pump. Heat is extracted. The water is then returned to the ground, either through discharge in a drain field or through a closed earth loop system. Because ground temperatures do not vary as dramatically as outside air temperatures, the heat available for transfer, as well as the unit's operating efficiency remains relatively constant throughout the winter. At depths of 6 feet or more below the ground, the soil maintains a year-round temperature of about 46 degree F – 50 degree F in this region. In the summer, it's cooler than the outside air; and, in the winter it's warmer – making it an ideal energy source.

Although the initial installation cost may be higher, annual operating costs are much lower than all other types of heating



systems. The added savings carry over to summer where cooling costs can be 30% - 50% less than the cost of cooling with an average central air conditioning system.

Ground Source Systems are not interrupted when it's the sole installation in the home.

When put on the Dual Fuel program, it will be controlled according to those strategies.

Rebate: \$200 per ton

Rate: No Special Rate for GSHP only
Dual Fuel Rate applies where backup system is installed

Financing: None



Kandiyohi Power Cooperative

Your Touchstone Energy® Partner

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Energy Management Programs at a Glance

OFF PEAK STORAGE WATER HEATING PROGRAMS:

Off Peak Water Heating: Install an Off Peak Storage Water Heating System and receive a \$13.25 credit each month.

OFF PEAK ELECTRIC THERMAL STORAGE HEATING: (ETS)

Use low off peak rates for your home heating. Off Peak Storage Furnaces, Room Storage Heaters, and Under the Slab Heating Systems qualify.

Rates: .052 per KWH

DUAL FUEL HEATING: (DF)

Install Electric Heating as your primary heating system and an approved back-up heating system.

Rate: .062 per KWH September - May
.072 per KWH June - August

INTERRUPTIBLE AIR CONDITIONING:

Rate: Credit; \$8.25 per month for bill due July, August and September

Energy Star Rebates: **Must be installed by a certified contractor to qualify for rebates.**
14.5 SEER and greater - \$50

AIR SOURCE HEAT PUMP: (ASHP)

Install an air-to-air heat pump and get all of your air conditioning plus over 70% of your heating from the same unit.

Rebate: "Energy Star" rebate varies depending on SEER rating & must be installed by a certified contractor to qualify.

Rate: .062 per KWH September - May
.072 per KWH June – August

GROUND SOURCE HEAT PUMP: (GSHP)

Heat is extracted from the earth by water pumped through a heat exchanger in the heat pump. Annual operation costs are much lower than all other types of heating systems. The added savings carry over to summer where cooling costs can be 30% - 50% less than the cost of cooling with an average central air conditioning system.

Rebate: \$200 per ton

Rate: No Special Rates Apply



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Interruptible Air Conditioning and ASHP

Interruptible Air Conditioning

Central air conditioning or room air conditioners that are on a designated circuit qualify for the credit. The air conditioners are usually controlled during the warmest time of the day. Only the compressor cycles 15 minutes on & 15 minutes off during the control period.

Rate: Credit; \$8.25 per month for bill due July, August and September

Energy Star Rebates: Must be installed by a certified contractor to qualify for rebates. 14.5 SEER and greater - \$50

ASHP (Air Source Heat Pump)

Air source heat pumps are combination cooling and heating systems that provide all of the air conditioning and approximately 70% or more of the heating needs in a typical home in this region. ASHP units should always be sized for the cooling needs of the home.

Only the compressor is controlled.

It is strongly recommended that electric resistance strip heat be installed to provide additional heating at lower temperatures.

Metered Rate:

.062 per KWH September – May

.072 per KWH June - August

Financing: 0%

Terms: 5 years – up to \$5,000 for installation

Rebates: Must be installed by a certified contractor to qualify for rebates.

**≥ 13 SEER - \$330 ≥ 14.5 SEER - \$480
≥ 15 SEER - \$580 ≥ 16 SEER - \$630**

ALL REBATE FORMS ARE ONLY AVAILABLE FROM YOUR CERTIFIED HEATING & COOLING CONTRACTOR

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Off Peak Electric Thermal Storage (ETS)

Off Peak Electric Thermal Storage (ETS) is a program that utilizes some form of heat storage to take advantage of special low Off Peak rates. Storage Space Heating systems are guaranteed at least an 8 hour charge period per day (usually from 11:00 PM to 7:00 AM). During the rest of the day the stored heat is available to heat the space. Off Peak Storage systems can be whole house heating or just one or two rooms.



Typical systems might be:

Central Off Peak Storage Furnaces

Room storage units

Under The Slab Cable Systems, either electric cable, mats or boiler

RATES (ETS): .052 per KWH

FINANCING: 0%

TERMS: 5 years – up to \$5,000 for installation

SAFE, CLEAN, LOW COST ELECTRIC HEAT

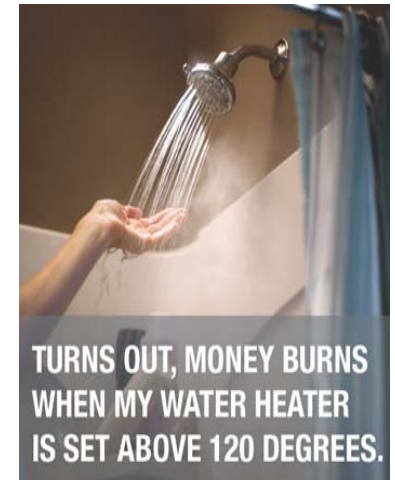
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Water Heating Program

OFF PEAK STORAGE WATER HEATING

***Control Strategy...**guaranteed 8 hours of charge time per day, usually between the hours of 11pm to 7am.

***Capacity ...** minimum 80 gallon water heater with mixing valve for a family of up to 3. A 105 gallon water heater with a mixing valve is recommended for up to 5 people.



***Rate :** Credit: \$13.25/month

***Financing:** 0%

***Terms:** 3 years - \$2,500 max

Contact your plumbing contractor for purchasing your water heater and/or installation charges.