

Geothermal Contractor Agreement
introducing union rural electric geothermal rebate

geo info pac



ALL GEOTHERMAL INSTALLATIONS MUST BE
INSPECTED AND APPROVED.
REBATE CALENDAR YEAR RUNS JULY - JUNE.





introducing our program

geothermal rebate

URE NOW OFFERS A GEOTHERMAL REBATE program in which electric members will be eligible for up to \$800 in rebates for installing a qualified geothermal system. A geothermal system is a very efficient way to reduce energy consumption while still heating and cooling your home.

Why would you choose a Geothermal System?

Efficiencies! A geothermal system uses the fairly constant 52 degree temperature of the earth to heat and cool your home, so it operates at maximum efficiency because the system is not working as hard during extreme temperatures. This super high efficiency can equal energy savings of up to 70 percent for heating and 50 percent for cooling.

What about water heating?

Unlike any other heating and cooling system, a geothermal heat pump can preheat your hot water. this means sometimes you will use little or no additional energy to heat water. a device called a "desuperheater" transfers excess heat from the pump to the water heater. In the summer, hot water is provided with no additional energy usage and in the winter, water heating costs are cut roughly in half. Your HVAC contractor can tell you if this process will work with your water heater.

How does this system work?

Geothermal systems heat and cool your home in an even fashion. They are clean, safe and quiet. The geothermal systems are all electric so there are no flames, flues, or fumes. Any home with a central duct system is a candidate for a geothermal system. There are a variety of ways to install an earth loop, even small loops for confined areas. The piping is underground or underwater, so there is little maintenance required. Occasional cleaning of the heat exchanger coils and changing the air filters are about all that's necessary to keep the system in good running order.

How do I get the rebate money?

Contact URE member services prior to the installation of your geothermal system to receive a Geo-Info packet to review. There are two forms that must be completed and returned - the Appliance Rebate form and the Member Agreement form. URE member services representatives will gladly assist you with these forms. URE requires a geothermal system site inspection. After all requirements have been met, your rebate application will be processed and a \$800 rebate check will be issued to you. Maximum \$1,600 two rebates. Limit 2 units per residential member.

From whom may I purchase the geothermal?

An increasing number of heating and cooling dealers sell and install geothermal systems. We suggest you contact a Geothermal HVAC contractor from our list. A good rule of thumb is to meet with the HVAC contractors then obtain three estimates to determine your best deal. Be sure to ask for references! URE members are encouraged to read our booklet called, "Questions to ask when replacing your HVAC." You may download a copy from our energy advice webpage: <http://ure.com/residential/energy-advisor>.

More questions?

Call Member Services at 800.642.1826



introducing geothermal rebate

geo information

The new installation of a Geothermal heating and cooling system in a residential home which uses electricity from Union Rural Electric (URE) qualifies for a geothermal rebate from URE. The system may serve either a new or existing residence.

The purpose of the requirements which follow is to aid URE in inspecting and verifying the geothermal heating and cooling system's eligibility for a rebate from URE.

A. SPECIFIC REQUIREMENTS

1. Qualified Equipment and Installation

- a. Equipment shall be rated by ARI (Air-Conditioning & Refrigeration Institute) test standards and certified by ARI or CSA (Canadian Standards Association) or other nationally recognized testing organizations.
- b. Equipment installed shall be in compliance with ENERGY STAR® requirements for both EER and COP minimums *at the time of installation*. This will ensure systems will meet requirements for Federal tax credits for geothermal system installation.

REQUIREMENTS EFFECTIVE JANUARY 1, 2012	EER	COP
Closed loop water-to-air	17.1	3.6
Open loop water-to-air	21.1	4.1

NOTE: See www.energystar.gov for minimums for water to water or DGX system qualifications.

- c. The complete system, including any necessary supplemental devices, shall be listed by Underwriters Laboratories or other nationally recognized testing organizations in accordance with U.L. standards.
- d. The installer should be a contractor registered with URE.
- e. The system must include properly-sized duct work per home's load calculation. Member/Contractor must have all local agency permits/inspections performed.
- f. The Geothermal Member Agreement must be signed by the member.
- g. The system shall be wired according to the Cooperative's requirements and in compliance with the National Electric Code and local or Ohio Electric Code requirements.
- h. Open loops shall be installed in accordance with manufacturer's specifications and recommendations and shall meet applicable Federal, State or local county agency standards. Open loop installations shall also

have documented water quality and quantity tests conducted by the installer, distributor or manufacturer evidencing the suitability and availability of water required for the application.

- i. Closed loops shall be installed in accordance with manufacturer's specifications and recommendations and shall meet applicable Federal, State or local agency standards.
- j. Direct Expansion loops shall be installed in accordance with manufacturer's specifications and recommendations shall meet applicable Federal, State or local agency standards.
- k. Ground loops should be installed by professionals who follow procedures established by the International Ground Source Heat Pump Association (IGSHA).

2. The HVAC contractor shall provide to the member, as part of the sales-installation agreement:

- a. Owner's manual and instruction for equipment operation.
- b. Installation instructions and warranties.
- c. An offer for a maintenance/service contract.
- d. Contractor shall also provide a sketch of the loop layout location in reference to existing buildings.

3. The participating HVAC contractor or member shall be required to submit to the participating Cooperative:

- a. A completed application for reimbursement.
- b. Copies of equipment and duct sizing calculations.
- c. Proof of passing local governmental HVAC inspection.

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A. ELIGIBILITY FOR REBATE

1. The building must be a residential structure which uses electricity from URE.
2. Rebate is to be paid to the URE member who owns the building.

B. CONDITIONS OF REBATE

The Cooperative shall inspect the installation before issuing the rebate.

C. REBATE

A rebate of \$800 will be paid to the member on the basis of one rebate for each unit installed. Maximum \$1,600 for two rebates per residential member.

D. MISCELLANEOUS

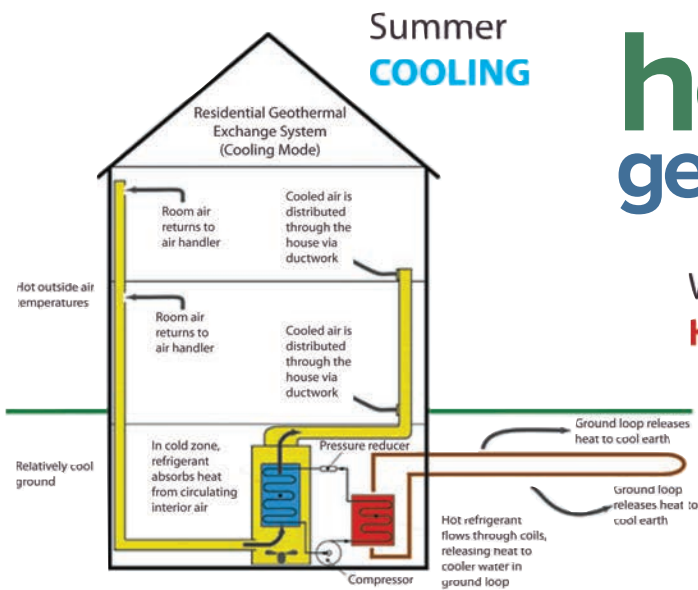
Thermal Envelope - Advising a consumer of the benefits to be gained from improving the thermal envelope of a structure house prior to the installation of qualified equipment is an essential part of the Geothermal Heating Program.

E. ANNUAL PROGRAM REVIEW

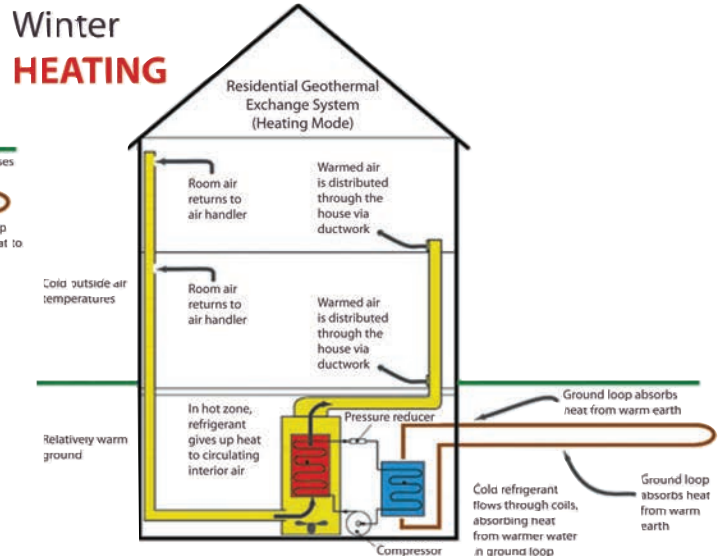
URE will annually review this program for continuation as applicable.

F. SOFT START CAPACITOR

URE recommends that all geothermal systems have a soft start capacitor on their compressor systems. Failure to have this option may cause lights to flicker or other electrical issues that are beyond our control when the compressor starts up.



how does geothermal work?



Revised 04/2016

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Geothermal Contractor Agreement

geo agreement

It is in the joint interest of Union Rural Electric Cooperative (Cooperative) and its electric members to reduce the demand for electricity and promote the use of high efficiency appliances. The Geothermal Program is designed to aid all the electric members of the Cooperative by increasing the efficiency of your heating systems, as well as the efficiency of your Cooperative's electric distribution operation.

Geothermal Heating and Cooling systems installed in the electric members homes can provide more efficient use of electricity and lower overall heating costs while permitting the Cooperative to make more efficient use of its electric facilities.

The Cooperative will offer a geothermal system rebate to encourage energy efficiency for approved geothermal heating and cooling systems. In order to qualify for a Geothermal rebate the member must agree to adhere to specific program requirements. One of the members' requirements is to use a qualified geothermal HVAC contractor for the system that will be installed. This and other requirements are stated on a Geothermal Agreement signed between the Cooperative and member.

I. Additionally, the Cooperative has several requirements for the HVAC contractor performing the work for the member in order for the member to qualify:

- Equipment shall be rated by ARI (Air-Conditioning & Refrigeration Institute) test standards and certified by ARI or CSA (Canadian Standards Association) or other nationally recognized testing organizations.
- Equipment installed shall be in compliance with ENERGY STAR® requirements for both EER and COP minimums at the time of installation. This will ensure systems will meet requirements for Federal tax credits for geothermal system installation.
 - Requirements effective January 1, 2012 EER COP
 - Closed loop water-to-air 17.1 3.6
 - Open loop water-to-air 21.1 4.1
 - NOTE: See www.energystar.gov for minimums for water-to-water or DGX system qualifications.
- The complete system, including any necessary supplemental devices, shall be listed by Underwriters Laboratories or other nationally recognized testing organizations in accordance with U.L. standards.
- Inspected and approved by the governmental agency responsible for residential HVAC.
- The system must include properly-sized duct work according to the home's load calculations.
- The system shall be wired according to the Cooperative's requirements concerning new meters and possible future installation of radio switches for direct load management efforts and in compliance with the National Electric Code and local or Ohio Electric Code requirements.
- Open loops shall be installed in accordance with manufacturer's specifications and recommendations and shall meet applicable Federal, State or local agency standards. Open loop installations shall also have documented water quality and quantity tests conducted by the installer, distributor or manufacturer evidencing the suitability and availability of water required for the application.

➤ Closed loops shall be installed in accordance with manufacturer's specifications and recommendations and shall meet applicable Federal, State or local agency standards.

➤ Direct Expansion loops shall be installed in accordance with manufacturer's specifications and recommendations and shall meet applicable Federal, State or local agency standards.

➤ Ground loops should be installed by professionals who follow procedures established by the International Ground Source Heat Pump Association (IGSHPA).

➤ Contractor shall provide to URE members, as part of the sales-installation agreement:

- a. Owner's manual and instruction for equipment operation.
- b. Installation instructions and warranties.
- c. An offer for a maintenance/service contract.
- d. A sketch of the loop layout location in reference to existing buildings.

II. The participating contractor or consumer shall be required to submit to the participating Cooperative:

➤ A completed application for reimbursement.

➤ Upon request by Cooperative, copies of equipment and duct sizing calculations.

III. In order for the member to be eligible for the geothermal rebate program:

➤ Their building must be a residential structure which uses electricity from the Cooperative.

➤ The rebate is to be paid to the Cooperative member who owns the residential structure.

IV. In order for the rebate request to be processed for actual payment:

➤ The geothermal unit must be fully operational.

V. Rebate/Credit

➤ The rebate check for \$800 will be paid by the Cooperative for each HVAC unit installed for the member. Maximum two rebates per residential member. The check will be given to the Cooperative member who has ownership of the residence.

VI. Program Review

➤ The Cooperative will annually review this program to determine its continuance for another 12 month period. All contractors will be notified of any changes in the program should they occur.

Revised 04/2016

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Geothermal Contractor Participation

To be registered on the www.ure.com website as an active geothermal contractor we will need the following information. **Please return this information to: services@ure.com**

please print

Contractor Name:

Contractor Representative/Signature:

Mailing Address:

City, State, Zip:

Phone Number:

E-Mail Address:

Website Address:

HVAC Products or Brands installed:

HVAC Geothermal Certifications: _____

International Ground Source Heat Pump Association accreditation: ____ Y OR ____ N

URE will list your company and contact information on our website (www.ure.com) URE will not be using this information to make recommendations to our members as to which contractor to use for their geothermal system.