



## Geothermal Rebate Program Agreement July 1, 2017 – June 30, 2018

It is in the joint interest of North Western Electric Cooperative (NVEC) and its 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 NVEC by increasing the efficiency of your heating systems, as well as the efficiency of NVEC's electric distribution operation.

Geothermal heating and cooling systems installed in the electric member's homes or businesses can provide more efficient use of electricity and lower overall heating costs while permitting NVEC to make more efficient use of its electric facilities.

NVEC 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 member's requirements is to use a qualified geothermal HVAC contractor for the system that will be installed.** This and other requirements are stated below.

### Contractor Requirements

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 and 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.

<u>Efficiency Requirements</u>	<u>EER</u>	<u>COP</u>
Closed loop water-to-air	17.1	3.6
Open loop water-to-air	21.1	4.1

NOTE: See [www.energystar.gov](http://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 UL (Underwriters Laboratories) or other nationally recognized testing organizations in accordance with UL standards.
- Inspected and approved by the governmental agency responsible for residential or commercial/industrial HVAC.
- The system must include properly-sized duct work according to the structure's load calculations.
- The system shall be wired according to NWECC's requirements concerning new meters and possible future installation of radio switches for direct load management efforts and in compliance with 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 IGSHPA (International Ground Source Heat Pump Association).
- Contractor shall provide to the NWECC members, as part of the sales/installation agreement:
  - Owner's manual and instruction for equipment operation
  - Installation instructions and warranties.
  - An offer for a maintenance/service contract.
  - A sketch of the loop layout location in reference to existing buildings.
- The system must be the primary HVAC source for the entire structure.

## Contractor or Consumer Submission Requirements

The Participating contractor or consumer shall be required to submit to NWECC:

- A completed Geothermal Rebate Request form.
- A Manual J Load Calculation form showing name of member and address where equipment will be installed.
- Both forms must be submitted **PRIOR TO** installation of the equipment in the home or business.

## Member Eligibility

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

- The building must be a residential, commercial or industrial structure which uses electricity from NWECC.
- The rebate is to be paid to the Cooperative member who owns the structure.
- A maximum of two rebates (\$600 each) may be paid per residential consumer-member home.
- A maximum of \$2000 (or 50 percent of installed project cost, whichever is lower) may be paid for non-residential member facility with multiple geothermal units installed.

## Rebate Request

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

- Once the geothermal equipment is fully operational, it is the member's responsibility to notify North Western Electric **within 30 days** to arrange the appointment for the required system verification visit.
- A representative of NWECC must visit the home or business to verify the installation and equipment.

## Rebate/Credit

- The rebate check will be paid by the Cooperative following the completion of the verification appointment. The check will be mailed to the Cooperative member who has ownership of the residence or commercial/industrial structure.

## 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.



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## Geothermal Rebate Request

Please Print

Member/Customer Name: \_\_\_\_\_

Address (where equipment will be installed): \_\_\_\_\_

Phone: \_\_\_\_\_ Member Type:  Residential  Commercial  Industrial

**Return completed Geothermal Rebate Request form along with a copy of the Manual J form to the NWEC office **PRIOR TO** installation of the equipment in the structure.**

**Contractor Information:**

Contractor Name: \_\_\_\_\_

Contractor Representative: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**Equipment Information:**

Manufacturer: \_\_\_\_\_ Size (in tons): \_\_\_\_\_

Model #: \_\_\_\_\_ EER: \_\_\_\_\_ COP: \_\_\_\_\_

Heating Backup:  Oil  Natural Gas  Propane  Electric  Other

Water Heating Option:  Supplemental  On-Demand  Not Applicable

Loop Type:  Horizontal  Vertical  Pond  Open Well  Pump & Dump

Closed or Open Loop:  Closed Loop  Open Loop

Type of System that was Replaced:  Geothermal  Heat Pump  Dual Fuel  Propane

Add-on System to Existing Structure  Natural Gas  Oil  Other Electric  New Structure

Contractor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Member Signature: \_\_\_\_\_ Date: \_\_\_\_\_

For office use only:

Date Received: \_\_\_\_\_ Date Verified: \_\_\_\_\_

Buckeye AC Load Control Switch Installed?  Yes  No  Existing AC Switch #: \_\_\_\_\_

Approved – Forwarded to Accounting  Not Approved – Reason: \_\_\_\_\_

Approved Amount: \$ \_\_\_\_\_

NWEC Employee Signature: \_\_\_\_\_ Date: \_\_\_\_\_