

Ask Your Utility to Help You Upgrade Your Heating and Cooling System to a Geothermal Heat Pump (GHP) System and get:

- Lower Utility Bills
- Increased Comfort
- Reduced Maintenance
- Quieter Equipment
- Smaller Carbon Footprint

Who can participate?

Oklahomans who receive electric service from the 37 members of the Oklahoma Municipal Power Authority (OMPA) can participate in the Oklahoma Comfort Program (OCP) and replace their tired old gas furnaces and air conditioners with the most modern, efficient and comfortable GHP systems.

Customers who are designing new buildings can enjoy the program, too. OMPA, working in partnership with the Geothermal Resources Council, ClimateMaster, Inc. and the Oklahoma Department of Commerce, offers the Program, which can provide up to \$1,800 per ton of new or retrofit GHP equipment installed in homes for systems up to 5.5 tons. Commercial buildings and/or larger systems may qualify with special approval.

How much will I save?

According to the US Department of Energy, homes and offices can save 30-50% of their heating and cooling bills with GHP. Energy savings largely depend

on two factors: (1) the efficiency of the existing heating and cooling equipment, weather stripping, and insulation in the building and (2) the needs and habits of the people occupying the building. For more details on the benefits of GHPs, go to <http://www.eere.energy.gov> and click on homes and then geothermal.

ClimateMaster offers an energy calculator on their website for estimating energy savings: <http://residential.climate-master.com/savings-calculator>.

Customers can review a case history of Hope Crossing homes that compares the energy use in twenty-four homes, half using conventional heating and cooling, and half using GHP systems. The energy savings in GHP homes averaged 51% less than the homes heated and cooled conventionally.

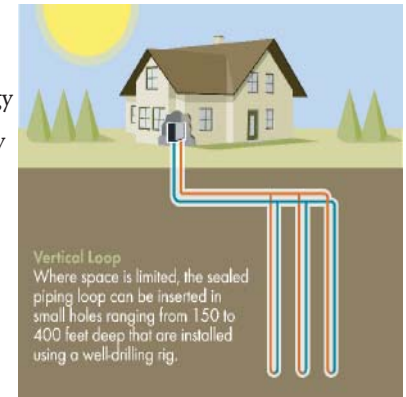
How much does GHP cost?

A good rule of thumb is around \$5,000 per ton for retrofit applications. In new construction, the ground heat exchanger (or "loop") will add about \$1,500 per ton over conventional equipment costs. In most cases, each ton of GHP can serve 500 to 800 square feet of the building. The Program rebate and Federal tax credits can drive down the cost to the customer. Also, ask your city if they offer additional WISE rebates.

What is GHP?

GHP systems mainly rely on moving the Earth's natural thermal energy, a renewable resource, to heat or cool a home or commercial building. The only additional energy GHP systems require is the small

amount of electricity they employ to concentrate what Mother Nature provides and then to circulate high-quality heating and cooling throughout the building. For every unit of electric energy they use, they move 3 to 4 units of heat energy—that's why they are so efficient.



In the winter, GHP systems collect the Earth's natural heat through a series of pipes, called a loop, installed below the surface of the ground. The GHP system uses this to heat the home. In the summer, GHP systems reverse the process. They push the heat from the home into the earth through the loop.

People using GHP systems give them high rankings because of their ability to provide comfort, even on the coldest winter nights and hottest summer days, and because of their extraordinarily low operating costs. Also, GHP systems can provide inexpensive hot water, to supplement the conventional domestic water heater during some of the year.

Geothermal heating and cooling is cost effective because it uses energy so efficiently. This makes it very environmentally friendly too. For these reasons, the Environmental Protection Agency and the Department of Energy help promote it.



What is involved in GHP installation?

The customer agrees to have an energy audit and survey of the site to see if a GHP can be installed. If the system can be installed, the customer agrees to use approved contractors to install the system and submit the required paperwork. The customer also agrees to have small, portable equipment enter the property. The contractor trenches and drills several six inch holes 200-250 feet down into the ground and installs the loop. In the meantime, GHP equipment is installed to replace the gas furnace and air conditioner. The installation and checking of all equipment, including the loop, generally takes 2-5 days.

How do I get started?

If you receive electric service from any OMPA member city, you may be eligible to participate in the Oklahoma Comfort Program. Contact your locally owned electric utility to get more information and to sign up for an energy audit.

**Not All Systems Will Qualify-
Certain Restrictions Apply.**

For full guidelines on the OCP go to *www.ompacom.com/programs/oklahoma-comfort/*.

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For general information on heat pumps visit

EPA Energy Star
www.energystar.gov
U.S. Department of Energy
www.eere.energy.gov
OMPA
www.ompacom.com
ClimateMaster
www.climatemaster.com

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