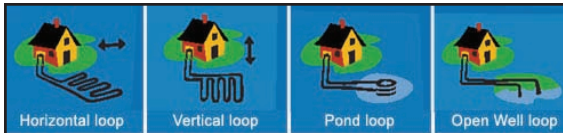


Vertical Loop: Best when space is limited or bedrock is present. Drilling equipment used to bore holes for pipe.

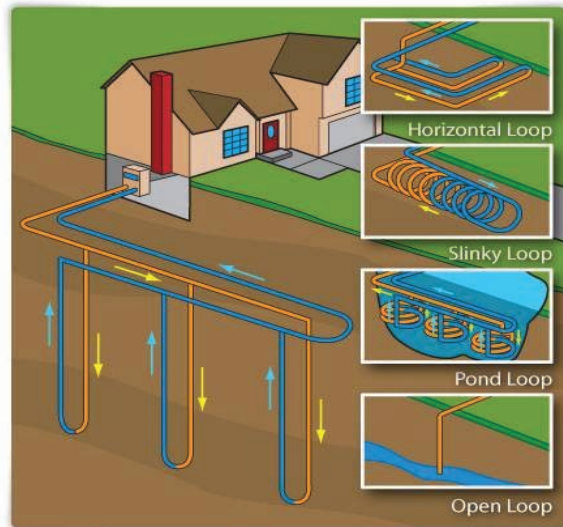
Horizontal Loop: When there is adequate space for trenches & loops and soil conditions are ideal. Usually placed at a minimum of 6 feet deep.

Pond Loop: When pond is at least 1 acre with adequate depth.

Open Loop: Fresh water from a well or pond is pumped into & then back out of unit. Water quality & quantity is important.



All The Energy You Need, Right In Your Back Yard



Why Geothermal??

- GREENEST SYSTEM AVAILABLE
- COMFORT
- RELIABILITY
- LONG-TERM SAVINGS
- ENERGY EFFICIENCY
- PROVIDES HOT WATER
- SAFEST
- INCREASES HOME VALUE
- RENEWABLE ENERGY SOURCE

According to the EPA "a geothermal system is the most energy efficient, environmentally clean & cost effective space conditioning system available."



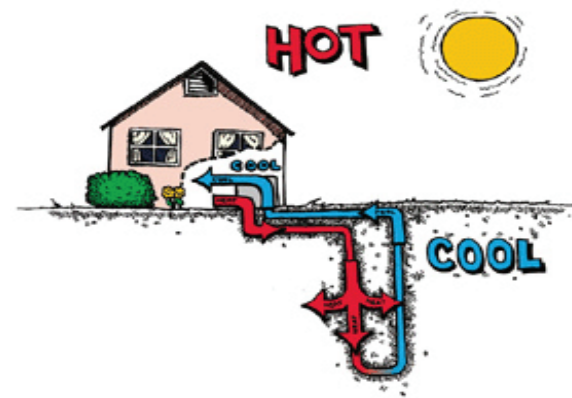
Phone 607-432-8080

Fax 607-263-2492



Why not take advantage of the heat beneath your feet and save up to 70% on your home energy needs?

A geothermal system, also known as a ground source heat pump, utilizes the earth as a renewable source for home heating and cooling. This type of clean, environmentally friendly system can pay for itself in as little as 5-7 years!



Phone 607-432-8080

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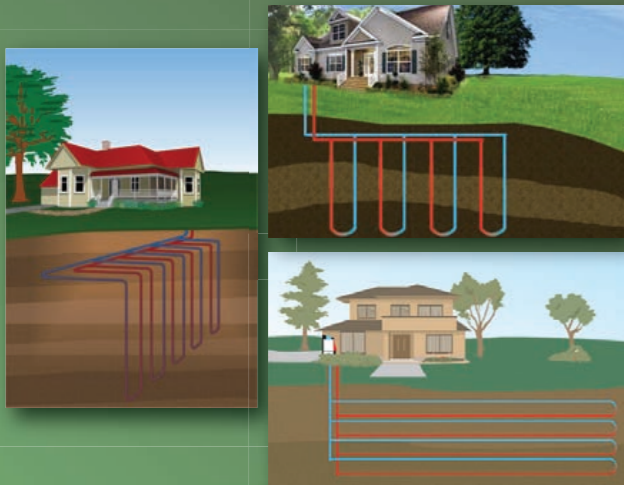
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Geothermal Energy of Oneonta Inc. believes in providing customers with a comfortable, clean, reliable, environmentally friendly source of home energy.

We offer complete system installation and all loop types. Our experienced and trained staff will walk you through all the steps of selecting the appropriate system for your energy needs.



Main components of a geothermal system:

- Heat pump
- Earth loops of pipe
- Biodegradable antifreeze solution
- Flow center

How Does a Geothermal System Work?

Throughout the year, outdoor temperatures fluctuate with the changing seasons. However, underground temperatures do not. In fact, about four to six feet below the earth's surface, temperatures remain relatively constant year-round. A geothermal system, which consists of an indoor unit and a buried earth loop, capitalizes on these constant temperatures. In the winter, fluid circulating through the system's earth loop absorbs stored heat and carries it indoors. The indoor unit compresses heat to a higher temperature and transfers it into the distribution system. In the summer, the system reverses, pulling heat from the building, carrying it through the earth loop and depositing it in the cooler earth.



Geothermal Loop Fields

A geothermal system utilizes the energy from the sun, which is stored in the earth, to heat and cool homes and buildings. Typically, electric power is used only to operate the unit's fan, compressor and pump. So, unlike conventional systems, geothermal systems do not burn fossil fuel to generate heat--they simply transfer heat to and from the earth.

What makes a geothermal system different from conventional systems?

How efficient is a geothermal system?

A geothermal system is more than three times as efficient as the most efficient conventional system. Because geothermal systems do not burn combustible fuel to make heat, they provide three to four units of energy for every one unit used to power the system.



Inserting loop in bore hole on a commercial job.

What does geothermal mean to the environment?

Because geothermal systems work with nature, not against it, they minimize the threats of acid rain, air pollution and the greenhouse effect. An environmentally friendly fluid is used in the closed, continuous loop.

Do geothermal systems require much maintenance?

No. In fact, geothermal systems are practically maintenance free. When installed properly, the buried loop will last for generations. And the other half of the operation--the unit's fan, compressor and pump--is housed indoors, protected from the harsh weather conditions. Usually, periodic checks and filter changes are the only required maintenance.

P.O. Box 519 Oneonta, NY 13820
 Phone 607-432-8080 • Fax 607-263-2492
www.h2ogeo.net

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