

Tax Credits:

Federal Tax Credits – Under the new American Recovery and Reinvestment Act of 2009, homeowners are able to claim up to 30% of the installed cost in tax credits effective January 1, 2009 through December 31, 2016 (no maximum amount). Website info: www.energystar.gov

State Tax Credits:

Montana offers up to a \$1,500 state tax credit for the installation of a ground source heat pump in your principle residence. www.dsireusa.org

Did you know...

A standard 200-amp electrical service will have more than enough capacity to power a geothermal heat pump.

Utility Rebates:

Various utility companies offer rebates for ground source systems. Call your local utility company for details.

Overall, because of the technical knowledge and equipment needed to properly install the piping, GS system installations are not a do-it-yourself project. Ground

Source Heating LLC is IGSHPA certified as well as PTCS certified. We are professionally trained to properly engineer your system for the correct size and heat/cool output. We recommend the best Energy Star qualified equipment for your building and

we install the ground source heat pumps and seal ducts to standards way above code.

Did you know...

GS systems represent huge savings on utility bills of up to **30% to 70%** in the heating mode and up to **20% to 50%** in the cooling mode compared to conventional systems.

GROUND SOURCE HEATING & COOLING

GREEN ENERGY & HIGHEST EFFICIENCY OF ANY SYSTEM

- ▶ Heating, Cooling & Hot Water
- ▶ Open Loop & Closed Loop Systems
- ▶ No Outdoor Equipment
- ▶ Residential, Commercial, New Construction or Existing
- ▶ Performance/Duct Sealing Testing



CERTIFIED GEOTHERMAL SPECIALIST

Call (406) 830-3077

www.groundsorce-heating.com

e-mail: gsheating@montana.com

IGSHPA Cert. #17452-0408 / PTCS Cert. #2686



PTCS CERTIFIED
PERFORMANCE TESTED
COMFORT SYSTEMS



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GREEN ENERGY & HIGHEST EFFICIENCY OF ANY SYSTEM



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About Ground Source Heating LLC

Ground Source Heating LLC is certified by the International Ground Source Heat Pump Association (IGSHPA) www.igshpa.okstate.edu and is also a Performance Tested Comfort Systems (PTCS) certified technician; www.ptcsnw.com.

Did you know...

There are federal and state tax credits and some utility company rebates when you install a new Energy Star approved ground source system by a certified installer.

We are professionally trained to properly engineer your ground source (GS) system for the

correct size with optimum heat/cool output. We install and certify ground source heat pumps, duct sealing and duct testing.

Ground Source Heating LLC recommends and installs the best Energy Star qualified equipment for your building. Along with the benefits of quality installation, our certifications also give you access to financial benefits such as utility incentive programs and federal and state tax credits.

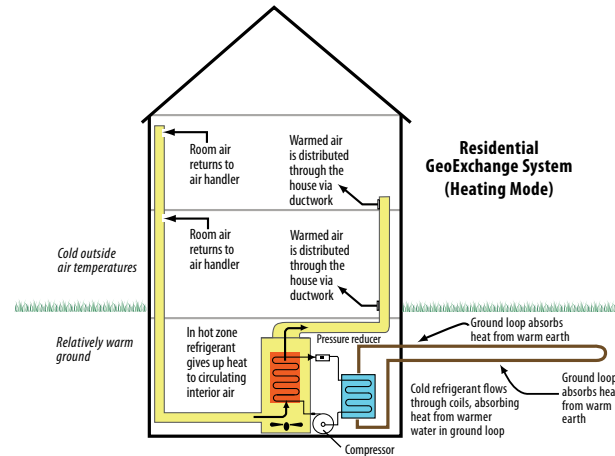
With our GS system, you'll experience greater indoor comfort, much lower energy bills, and a system that provides heating, cooling and hot water for many trouble-free years to come.

Ground Source Heating LLC uses **ENERGY STAR** approved geothermal heat pumps which means that the product meets strict energy efficiency guidelines set by the U.S. Environmental Protection Agency & the Department of Energy. **ENERGY STAR** qualified geothermal heat pumps use about 30% less energy than a standard heat pump.

What is ground source or geothermal heating & cooling?

Ground source heating & cooling, technically known as geothermal exchange, is the process of using the earth's constant temperature several feet below the earth's surface to heat and cool a structure.

How does ground source heating and cooling work?



All ground source systems use a device called a geothermal heat pump. Geothermal heat pumps are extremely efficient at heating and cooling due to the fact that it moves heat from one place to another as opposed to

creating heat. A geothermal heat pump system consists of indoor heat pump equipment, a ground loop and a flow center to connect the indoor and outdoor equipment. The ground loop, which is invisible after installation, allows the exchange of heat between the earth and the heat pump.

The types of ground loops include open loop or closed loop and these loops can be installed three different ways: horizontally, vertically or in a pond/lake. It is crucial that an experienced professional who understands local conditions helps you determine what type of system is best for you.



The Department of Energy (DOE) and the Environmental Protection Agency (EPA) have both endorsed ground source heat pump systems as among the most energy efficient & environmentally friendly heating, cooling & water heating systems available*.

*Source: International Ground Source Heat Pump Assoc. (IGSHPA)

Benefits of a ground source system:

Energy Efficient: Very low energy use! They use approximately 50% less electricity than conventional heating or cooling systems.



Free or Reduced-Cost Hot Water: Unlike any other heating and cooling system, it can provide free hot water. When the system is running, a device called a “desuperheater” transfers excess heat from the heat pump’s compressor to the hot water tank. This can save you up to 50% of water heating costs!

Design Features: It can be installed in both new and retrofit situations. All of the visible equipment is kept indoors and requires less space than that needed by conventional HVAC systems. Usually the existing ductwork in your building is adequate or can be updated to accommodate the ground source system.

Durability:

Because these systems have relatively few moving parts, and because those parts are sheltered inside a building, they are durable and highly reliable.

Did you know...

GS systems eliminates the possibility of carbon monoxide poisoning inside a building—another environmental plus—because the system moves natural heat rather than burning a fossil fuel like oil, natural gas or propane to create heat.

Environmentally Friendly:

These systems generate no on site emissions and have the lowest emissions among all heating and cooling technologies. The EPA recognizes them as the cleanest and most efficient heating and cooling systems available today.



Safety: There are no odors or dangerous fumes. Since they use no fossil fuels there is no risk of oil or gas fires.