

ENERGYwise

FOR YOUR BUSINESS



Ground Source Heat Pumps: Use the earth's energy and improve your bottom line.

Ground source heat pumps (GSHPs), also known as geothermal heat pumps are electrically powered systems that tap the stored energy of the greatest solar collector in existence: the earth. These systems use the earth's relatively constant temperature to provide heating, cooling, and hot water for commercial buildings.

How does it work?

A water/anti-freeze solution circulates in underground piping transferring heat to and from the heat pump. Due to the fact that the earth's temperature remains at a relatively constant 50 degrees year round, ground source heat pumps are the most energy efficient heating and cooling systems available (300%-400%), regardless of the outdoor air temperature. In addition, waste heat from the air conditioning cycle can be used to provide free water heating during the summer.

Value For Your Business

- Low operating cost
- No required exposed outdoor equipment
- Level seasonal electric demand
- No on-site combustion if you are not on load management
- Long life expectancy
- Low cost integrated water heating
- Simplicity
- Low maintenance
- No supplemental heat required if you are not on load management
- Low environmental impact

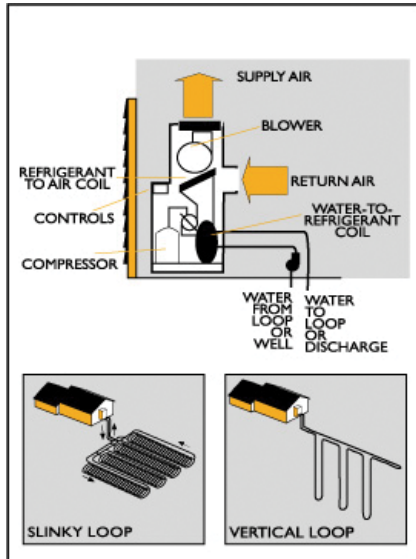
Other Benefits for Your Business

- Simultaneously heat and cool different parts of the same building
- Greater freedoms in building design due to 50-80% less mechanical room space
- No outside equipment to hide, eliminating vandalism and roof top units
- Ground loop typically have 50+ year life expectancy
- Conserve natural resources by providing efficient climate control and thus lowering emissions
- Very energy efficient, with the earth providing the energy required to heat and cool while the heat pump simply moves that energy

Who can participate?

- Any commercial building or business
- GSHP's flexible design requirements lower operating and maintenance costs, and durability making them a smart choice for schools, high-rises, government buildings, apartments, and restaurants—almost any commercial property. Lower operating and maintenance costs, durability, and energy conservation make Ground Source Heat Pumps the smart choice for commercial applications.

Use the earth's energy and improve your bottom line



A water/anti-freeze solution circulates in underground piping transferring heat to and from the heat pump.

Source: International Ground Source Heat Pump Association (IGSHPA)

What you'll receive

- \$400 per ton, per unit rebate
- \$100 per ECM motor

What you need to do

1. As a member of Agralite Electric Cooperative you are responsible for checking with your electric cooperative to verify funding availability and program parameters.

2. Consult with Agralite to find the latest in GSHP technology.
3. Request a GSHP rebate application from Agralite Electric Cooperative
4. Complete the GSHP rebate application and include proof-of-purchase and documentation of efficiency ratings
 - Installation must be complete before funds will be issued.
 - Itemized invoices from equipment vendors must accompany rebate application.
 - Invoices must itemize labor charges, quantity and price of the equipment installed.
 - Invoices must include manufacturer and model numbers for the installed equipment.
 - Agralite Electric Cooperative reserves the right to conduct inspections.
 - Only new and complete ground source heat pump units qualify

Contact us

For any questions, please contact Agralite Electric Cooperative for more information and assistance in getting these rebates and incentives to help improve your bottom line – today!

Success Story:

Indian River Central School District, Indian River, New York

A new 71,500 square foot elementary school building, Indian River Central School decided to install a Ground Source Heat Pump in their new school to help mitigate higher energy costs.

- Annual Energy Savings: \$11,300
- Total Operation and Maintenance savings over 20 year life cycle: \$285,600
- Simple Payback: 12.5 years

Source: New York State Energy Research and Development Authority

