



geo • ther • mal

adj. having to do with the heat of the Earth's interior



Every 55 days,
the Earth
**absorbs
and stores**
as much energy as
all the known oil
and gas reserves
in the world.

Cool in the Summer, Warm in the Winter

Thanks to the Earth

Gather around the water cooler, the playground, or the job site, and the conversation will turn to energy—more specifically to energy costs. As recent history has shown, the price of heating and cooling with fossil fuels can spike without warning, sending ripple effects throughout your family’s budget. Factor in the cost to the environment from the drilling and burning of fossil fuels, to humans breathing toxic fumes, and the true cost of our energy consumption becomes strikingly clear.

For all these reasons, more and more homeowners and business owners are seeking energy alternatives—and turning to cost-efficient, abundant, and clean geothermal energy. By using the nearly constant temperature of the ground below ten feet in depth, a geothermal system can provide heating, cooling, and hot water for homes and commercial buildings—*at a significant cost savings over fossil fuels.*

Going Green Can Save You Money: *A typical New England home needs over 1 million BTU’s a day during the winter to keep your family comfortable. Fossil fuels such as fuel oil or propane cost \$25.00 – \$35.00 a day to generate the heat required at current oil prices. A closed-loop geothermal system can produce the same heat for about \$12.00 a day and that cost is unaffected by oil price spikes.*

American EcoThermal Can Help

At American EcoThermal, we’re proud to be local pioneers of renewable energy—and we want to share our passion with you.

Based in the beautiful seacoast region of Maine and New Hampshire, American EcoThermal is the only area provider that offers a complete geothermal package—from the initial heating and cooling load calculations to drilling and installation of the system. Our turnkey service eliminates the need to coordinate multiple subcontractors, saving you time and money.

American EcoThermal’s geothermal systems can be economically installed in both new and existing structures, such as residential homes, schools, municipal buildings, and commercial buildings.

We are members of the International Ground Source Heat Pump Association (IGSHPA), a nonprofit organization working to advance geothermal technology and education. In addition, our team holds Universal EPA Certification.



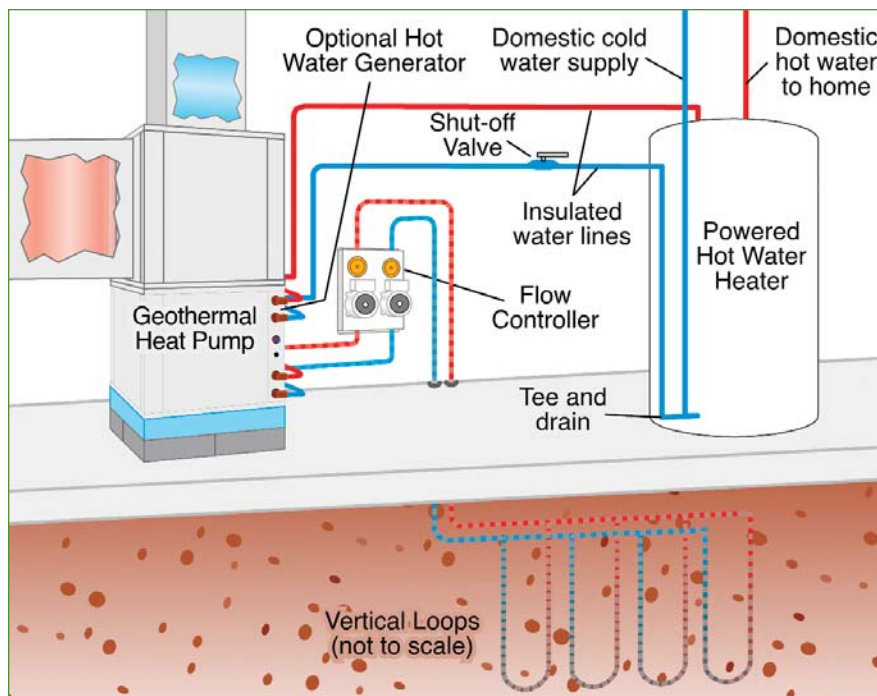
About Geothermal Energy

At American EcoThermal, we specialize in closed-loop vertical geothermal systems.

A closed-loop system circulates water through a continuous buried pipe and into a device called a heat pump which is typically located in the home's basement. This device is capable of providing all the home's heating, cooling and hot water needs.

We will only install closed-loop systems because they:

- Are the most environmentally responsible of all the geothermal systems available,
- Do not displace aquifers by taking water out of the Earth,
- Do not discharge used water into the environment,
- Offer the lowest maintenance costs,
- Have the longest life spans of all the geothermal systems, and
- Are not affected by changing well-water temperatures.



The Benefits of Geothermal Energy

Geothermal systems that utilize ground source heat pumps were originally designed as cooling systems in the Southern United States. However, in the last 30 years, geothermal heating has proven to be cost-effective and highly efficient in the Northeast. For the reasons listed below, geothermal systems are used widely across the United States and extensively in Europe.

- Most environmentally responsible source of heating and cooling
- Single system for both heating and cooling
- Lowest operating cost once installed
- Reduces our dependency on fossil fuels
- Requires little to no annual maintenance
- Has a longer lifespan than conventional gas or oil burners
- Improves indoor air quality
- Provides consistent, comfortable air temperatures throughout a building
- Creates no air pollution
- Eliminates the danger of combustion and carbon monoxide poisoning in the home



Geothermal heat pump systems are the most energy-efficient, environmentally clean, and cost-effective space conditioning systems available.

— The Environmental Protection Agency (EPA)

American EcoThermal's Geothermal Systems Qualify for Renewable Energy Federal Tax Credits



As part of the *American Recovery and Reinvestment Act of 2009*, homeowners and business owners can receive significant tax credits in return for their investment in a geothermal system. For example, an American EcoThermal system would qualify you for a 30% tax credit based on the installation cost of a residential geothermal system or a 10% tax credit for a commercial system, when installed by December 31, 2016. Please consult your tax advisor for specifics on your situation.

American EcoThermal's Community Involvement



We believe that by reducing our carbon footprint today, we are helping to provide a future that our children and grandchildren can look forward to. A future that provides the health benefits of cleaner air while helping to achieve energy independence.

We bring our passion for renewable energy to the classrooms of local schools and open our doors for lively discussions at our in-house meeting space. Here, we host seminars to educate community members, Realtors, subcontractors, and builders about closed-loop technology and the physics of geothermal systems. We have a closed-loop system installed at our offices in Portsmouth so people can see it working first-hand. In addition, we're always happy to speak with municipal energy committees.

Outside the office, we are actively involved in volunteer work throughout the seacoast of Maine and New Hampshire.

All aspects of our business are geared toward achieving our company's overarching mission: *to ensure that the comfort of our customers today is not at the expense of the air they—or future generations—breathe tomorrow.*



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Want to Know More?

If you're interested in learning more about how a geothermal system can reduce your carbon footprint while saving you money, contact us!

