



GEO-NEWS

August 2022

Innovative Energy Award

IN APRIL, INNOVATIVE ENERGY SYSTEMS WAS AWARDED THE 2021 SILVER DEALER AWARD FROM K&E DISTRIBUTING INC. INNOVATIVE ENERGY WAS ONE OF THE TOP INSTALLERS OF HEAT PUMPS IN 2021. THIS IS AN EXCITING AWARD FOR INNOVATIVE ENERGY AND CONFIDENT IT WILL NOT BE THE LAST!



Jerry Waltman, owner, and son, Jackson Waltman enjoying a round at Luck Municipal Golf Course.

Geothermal Quick Facts

According to the Environmental Protection Agency (EPA), a geothermal heat pump is the most environmentally clean, energy efficient, and cost-effective heating/cooling system out there. (1)



Around 85% of all residential housing in Iceland is heated using geothermal energy. Along with heating, close to 100% of all electricity produced in Iceland is from renewable sources, 27% coming from geothermal energy plants. (2)

St. Patrick's Cathedral in New York is heated and cooled with a geothermal heat pump system. This system saves over 90,000 kilograms of carbon dioxide emissions every year with its renewable heating system! (3)

Current geothermal residential installations equal 14 million barrels of crude oil saved every year.

Geothermal heat pump's ground loops only need to be placed 10 feet below the surface. At that depth the ground temperature is 50-55°F.

While common conventional furnaces generally last around 15-20 years, a geothermal heat pump has a relative life of 20-25 years while the ground loops last 50-100 years. (4)

There are multiple types of geothermal heat pumps including open and closed loop systems, horizontal and vertical drilling for the ground loops, water-to-water, and water-to-air systems. The variety of systems allow geothermal systems to be installed in almost any residential home.

Sources

(3) Dandelion Energy. "8 Mind-Blowing Facts about Geothermal Heating and Cooling | Dandelion Energy." *Dandelion Energy*, 17 Feb. 2021, dandelionenergy.com/8-mind-blowing-facts-about-geothermal-heating-and-cooling.

(4) Dandelion Energy. "Geothermal Heat Pump Faqs." *Dandelion Energy*, 23 July 2020, dandelionenergy.com/geothermal-heat-pump-frequently-asking-questions.

(2) "Energy." *Go to Frontpage*, www.government.is/topics/business-and-industry/energy/.

(1) "U.S. Energy Information Administration - EIA - Independent Statistics and Analysis." *Geothermal Heat Pumps - U.S. Energy Information Administration (EIA)*, <https://www.eia.gov/energyexplained/geothermal/geothermal-heat-pumps.php>.



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What's in the final bipartisan infrastructure bill for clean energy?

President Biden just signed the Inflation Reduction Act, a massive bill that represents the biggest investment in climate action in US history. It puts nearly \$400 billion toward promoting domestic production of clean energy technology and generally retrofitting America to survive climate change. If all goes to plan, the act would slash US emissions by 40 percent by the year 2030.

The bill is packed with tax credits and rebates to incentivize Americans to buy electric vehicles, install heat pumps and solar panels.

A notable exception to the Inflation Reduction Act's \$1,200 annual limit on tax credits is with heat pumps, which you can get \$2,000 for. These appliances are supremely powerful tools in fighting climate change: Instead of burning gas like a traditional furnace, they use electricity to extract heat from outdoor air and pump it inside, or extract heat from indoor air and pump it outside. "It's a really efficient way of moving heat from one place to another," says Lowell Ungar, director of federal policy at the [American Council for an Energy-Efficient Economy](#). "It's a reversible air conditioner, basically, for when you need to cool the home."

The Inflation Reduction Act will both prepare American homes for this future and accelerate the market for decarbonization technologies, Rinaldi says. "This isn't something that we have seen every day, where your average homeowner gets to make a choice that can help save the planet," she says. "And I think that's why it's particularly special."

(Rewired by Matt Simon, August 16, 2022)

CUSTOMER TESTIMONIAL

"Jerry and the team from Innovative Energy did an outstanding job with our geothermal install! We have had our unit since 2016 and all of our annual service work has been provided by Jerry. We were impressed after the initial meeting! They came to our home and thoroughly explained how geothermal works and what we could expect. From there they took measurements of all the rooms in our home and examined all of our current ductwork. We had a follow-up meeting in which they provided us with a detailed analysis of all the information they collected and provided us with GREAT recommendations and estimates on units that would fit our needs. On top of it all, they were able to calculate in the right size unit to accommodate current needs as well as our future addition to our home so we didn't have a bunch of rework to do. We can't say enough about the quality service we have been provided by Jerry and the team!"
- Dionne L., Lindstrom, MN (12/2021)



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Eco-Friendly products that can have a positive impact on the Environment

As a consumer, we can choose to help the environment every day and it is easier than you think. Choosing to use environmentally-friendly products can conserve the resources that are used to manufacture the items and can also help keep large amounts of trash out of landfills. Here are some eco-friendly products that can help make a positive difference on the environment. Many of these items are reusable ones, which helps keep ordinarily single-use products out of landfills and also can save you money over time.

- **Natural Cleaning Products** - When it comes to cleaning your house, you may be tempted to reach for that antibacterial spray. However, many household cleaners contain a lot of harmful chemicals that can endanger not only the environment but also your family if accidentally ingested or otherwise misused. Natural cleaners and eco-friendly kitchen products such as baking soda and white vinegar can be just as effective but much more friendly for the environment as well as around your home and in your area's water supply.
- **LED Light Bulbs** - Consider how many light bulbs you have in your house between the ceiling lights, bathroom and vanity lighting, lamps, and appliances. A lot of these light bulbs need frequent replacing, which is expensive up front, and they also often require higher amounts of energy than some of the newer bulbs on the market. LED light bulbs are a great way to save money and energy. These eco-friendly light bulbs save a ton of energy compared to their incandescent and fluorescent siblings, and they're becoming mainstream to the point that it's hard to even find the other bulbs. Enjoy a bright, clean light that's also friendly toward the environment because each bulb lasts years longer than the alternatives, keeping more of them out of landfills.
- **Reusable Shopping Bags** - Plastic shopping bags are a huge problem when it comes to plastic waste pollution. They can take hundreds of years to break down in a landfill, and many don't even make it to the landfill but instead end up causing havoc on marine wildlife and other animals. The bags are notoriously difficult to recycle and can jam recycling equipment at most recycling centers. When they are used, the best way to ensure they are recycled properly is to drop them off at a store or recycling center that will get them to a recycling center that can handle them. However, the best thing to do is to avoid the problem altogether! An easy way to do this is to purchase and then bring your own reusable grocery bags to the store to carry home your groceries.

Photos

