

**Earth heat exchangers  
for large scale ground-  
source geothermal heat  
pump projects ...**

**... on time**

**... on budget**

**... all geologic  
conditions**

## **What We Offer**

- Full spectrum of design and installation services for large-scale GHP Earth Heat Exchangers (EHXs)
- Vertical borehole drilling to 500 feet depth in all geologic formations - even in unstable soil conditions
- No-leak installation guarantee
- Grouting of loops with either bentonite or cementitious grouts
- Headering and manifolding the ground loop system to vault or mechanical room
- Other services

**Thermal Conductivity Testing**

**Design Team Support**

**LEED Point Analysis**

**Life Cycle Cost Studies**

## **Why EnLink?**

- Over 100 years aggregate experience in GHP sales, design, installation
- Since 1999, 29 projects completed, experience in most regions of the U.S.
- Superior drilling technology “fit-to-purpose” with predictably high rates of penetration in all geologic conditions
- Proven methods: Coiled-Tubing Unit, U-bends, and grouting techniques for “slim-hole” loop insertion and completion
- Competitive pricing, guaranteed quality
- Professional management, project development, on-site operating/supervisory staff



**EnLink Geoenergy Services, Inc.**

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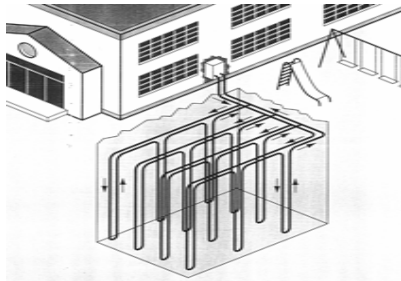
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**Proven Technologies . . .**  
**Proven Materials . . .**  
**Proven Experience . . .**  
**Better EHXs in all Formations**

One of the biggest challenges to an economic and successful large-scale GHP project for commercial and institutional buildings is associated with the component of the GHP system that's buried underground — the Earth Heat Exchanger (EHX).

For almost a decade, EnLink has been tackling these challenges. We've developed drilling, loop insertion and grouting technologies and materials that enable us to design and install superior large-scale EHXs involving less installation time and labor cost than competitors, while consistently achieving better heat exchange with the ground.



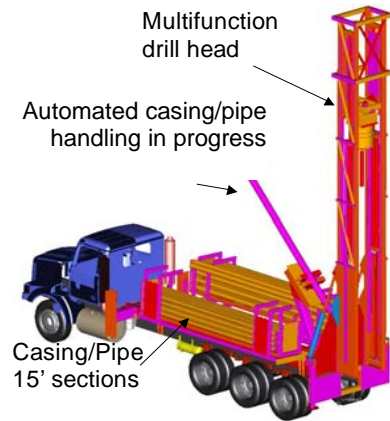
**The EnLink System**

EnLink employs a suite of technologies and materials - the EnLink System - optimized for the special challenges of large-scale EHX installation involving dozens or even hundreds of boreholes up to 500 feet deep.

**Drilling Technology**

EnLink developed the EnLink Drill to ensure predictably rapid rates of penetration and hole stabilization in all geologic conditions.

The EnLink Drill employs an innovative integration of components, including a multifunction drill head, automated rod/pipe handling and casing methods. The components have been individually demonstrated over many years in challenging applications. With our proprietary design, the Drill operator simply selects the correct features and tools for the soil conditions that are encountered and consistently achieves rapid penetration.



The EnLink Drill provides assurance that predicted drilling rates can be achieved in a wide variety of geologic conditions - mitigating common project delays and price adjustments as difficulties are encountered. We complete large-scale EHX projects where other drillers cannot perform.

**CTU Loop Insertion Technology**

Using EnLink's Coiled Tubing Unit (CTU) rig, we insert ground loops to total hole depth more quickly and with less labor than conventional manual approaches.

Once the CTU rig's hollow insertion rod has pushed the loop to the bottom of the hole, grout is pumped through the rod

as it is retracted, enabling a consistent "bottom-up" filling of the space between the loop and the earth, producing consistently more efficient EHX heat transfer.

**Grout Mixing Technology**

EnLink is familiar with a wide variety of grout compositions. Through extensive experience, we have developed the key skill of ensuring grout consistency at all times - thick enough to form good contact between the loop and the ground, but thin enough not to plug the pumping equipment.

Using a mixer uniquely well-suited for large-scale GHP projects, EnLink batch-mixes large quantities of various grout recipes on-site, ensuring high grout quality.



**Installation Crews**

To use our advanced ground loop installation equipment - EnLink Drill rigs, CTU insertion rigs, grout mixers - EnLink employs its own installation crews. Our staff has extensive experience in all types of formations: mud, clay, sand, rock, gravel, cobbles, and all variations thereof.

In cases where using the EnLink Drill is not essential for rapid and cost-effective completion, we continue to work with our preferred contracted drillers, providing the high-quality and timely EHXs that our customers have come to expect.

**Guaranteed Quality, Competitive Prices**

As a reflection of our strong conviction in our installation approach, EnLink stands firmly behind its EHX projects. In using the EnLink System for ground loop installation, we offer a one-year, no-leak guarantee. For EHXs that we design, an optional system performance warranty is offered.

Because of the EnLink System, we offer competitive, firm pricing on installation services for large-scale EHX projects in any geologic condition.

**Superior EHXs for Large-Scale GHP Projects**

At EnLink, we are committed to a successful GHP marketplace. This means that customers get the highest quality GHP system at an attractive price, and that both customers and providers financially benefit from the choice of implementing a GHP instead of a conventional HVAC system.

We at EnLink make the installation of large-scale EHXs as straightforward and economical as the installation of the in-building components of a GHP system. Our success in large part is measured by how well we help you install EHXs at your GHP projects — especially at sites with challenging geologic conditions.

So, if you need to install a large-scale EHX, particularly where overburden or unconsolidated formations prevail, no problem: Call us today!



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**Project Examples**

- *Merchant Marine Academy (NY)*
- *Lubbock Christian University (TX)*
- *El Paso Chamber of Commerce (TX)*
- *Canutillo Schools (TX)*
- *Gadsden Schools (NM)*
- *Montrose County Health (CO)*
- *Pickens County Schools (SC)*
- *Clarksville Schools (TN)*
- *Kentucky Fried Chicken (AL)*

References available upon request.

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