

# The future of geothermal heating

green therma

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## About

Established in February 2023, Green Therma is dedicated to revolutionizing the utilization of the Earth's heat through proprietary technology and our unique Heat4Ever solution.

*Our mission is to provide affordable and reliable deep earth heating to everyone over a long time, with a minimal environmental footprint and virtually zero emissions. Real Green Energy.*

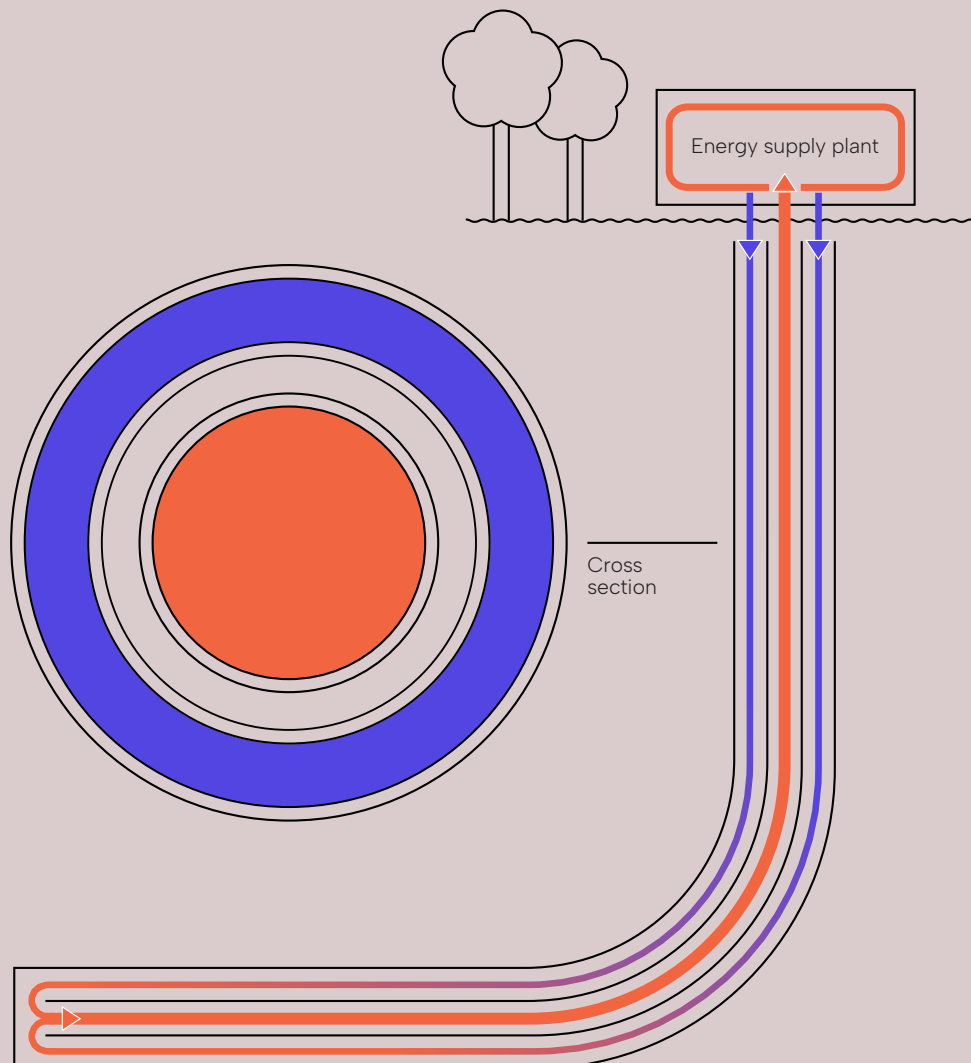
Employing a single, deep, and horizontally drilled wellbore, we effectively harness Earth's thermal energy to power district heating within a closed loop system. We use the patented DualVac technology, which optimizes energy production in a secure, emission-free, and environmentally friendly solution designed to endure for decades, which is why we have named our solution Heat4Ever.

## Patented technology

The Dual Vacuum pipe technology (DualVac) was developed and patented by the Norwegian oil service company, Reelwell, established in 2004 with a mission to revolutionize drilling techniques.

Their innovative pipe-in-pipe technology has been widely recognized in the oil and gas industry for its potential to enhance drilling efficiency and reduce environmental impact.

Green Therma has innovatively applied the patented DualVac technology to create a closed pipe-in-pipe system, allowing water to circulate through standard oil-type tubing pipes. This breakthrough ensures efficient heat generation from depths of 3-4 km, with the potential to heat 1,500 homes per well.

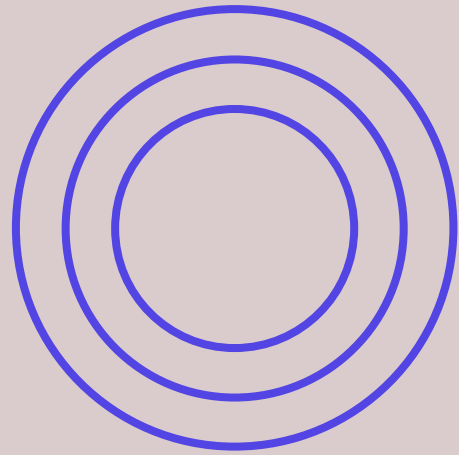


## DualVac

Green Therma's single-well deep earth heating solution using DualVac technology is simple, safe, and reliable when compared to current 2-well geothermal heating solutions.

The DualVac technology enables the transfer of heated fluids from the toe of the well to the surface, with a minimum of heat loss.

The uniquely designed vacuum solution insulates the heat in the inner pipe.

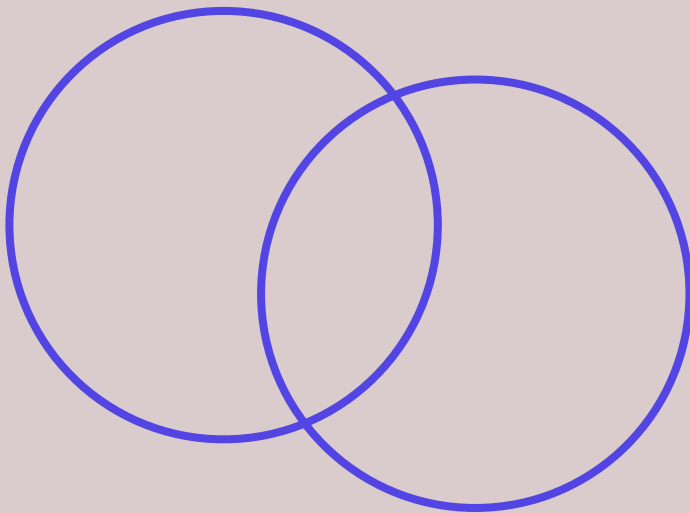


## The Heat4Ever solution

Green Therma is a technology and service company that delivers world-class executed deep earth heating projects to utility companies and private enterprises providing low-risk, reliable, and sustainable energy.

Green Therma plans, drills, and completes horizontal deep-earth heating wells with the patented DualVac technology.

We drill deep horizontal closed-loop geothermal wells at a 2-4 km depth with a 2-6 km horizontal section to generate 1-3 MW of energy. Depending on the energy needed, it can be a single well or a group of single wells. Each well will be completed with the Dual Vacuum pipe technology (DualVac) and connected to the local district heating network. The Heat4Ever solution can also be used for industrial heating applications.



## How we deliver

Green Therma is the point of contact towards the customer and leads the project through integrated project management. We orchestrate the delivery through a network of partners and rely on long term strategic relationships with industry leaders. In close alliance with our partners, we present an unique solution, embodying our commitment to comprehensive project success and client satisfaction.

- **Manufacturing of pipes**
- **Pre-assembly**
- **Drilling rig**
- **Well and completion services**
- **Circulation pumps**
- **Heat exchanger**

# Benefits for society

## Reliable & long lasting

- A reliable baseload solution providing security of supply
- Independent of fuel availability and prices
- Geological formations at this depth are good heat reservoirs for many decades or even centuries

## Low emissions

- Heat production with virtually no CO2 emissions
- Emissions limited to electricity consumption for surface pumps, that can be powered by green electricity

## Cost effective

- Only 1 wellbore required to produce and inject
- Low maintenance of the closed loop system with equipment at surface only

## Low risk

- Geological requirements limited to temperature and heat conductivity investigated prior to drilling
- Pollution risk eliminated due to closed loop
- Overall project risk manageable due to use of proven method and technology for drilling

## Environmentally friendly

- Closed loop with no risk of subsurface pollution
- No transportation of fuel
- No fracking required, therefore no seismic risk

## Low impact on surroundings

- Limited space requirements at surface allowing for urban sites
- Virtually no noise emissions as circulation pump is only source

## Green Therma management

Green Therma is founded by industry leaders with extensive backgrounds in both the oil and gas industry as well as the utility sector. The management team brings forth a diverse range of competencies, including expertise in geology, technology development, drilling and well completion, comprehensive utility sector experience, proficient execution of turnkey large-scale energy projects, and adept operation and maintenance of energy facilities.

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