

Geothermal Engineering Ltd

Deep Geothermal Projects in the UK

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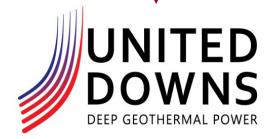
Clean Energy for a Healthy Planet

Who are GEL?





Project Management & Operation



Owner, Developer and Operator



Deep Geothermal Single Well Systems



United Downs



Overview

Aim: To produce power and heat from the hot granite beneath Cornwall

The first geothermal power plant in the UK, due to be installed in 2023/24

c. £50 million funded by ERDF, Cornwall Council & Private Investors



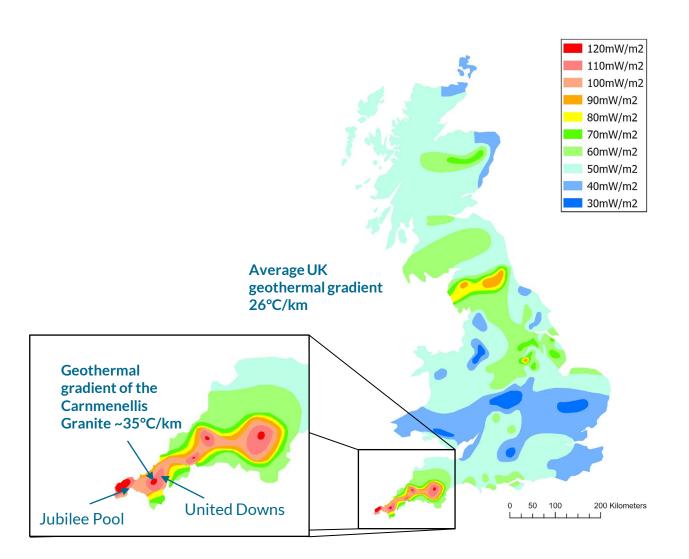


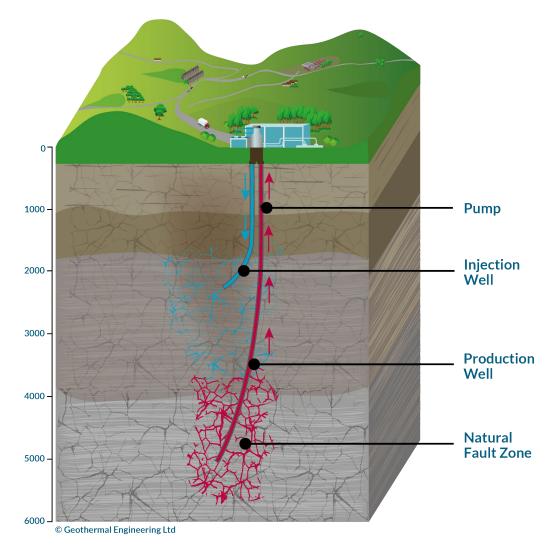


Key demonstration of the UK's geothermal potential for both heat and power



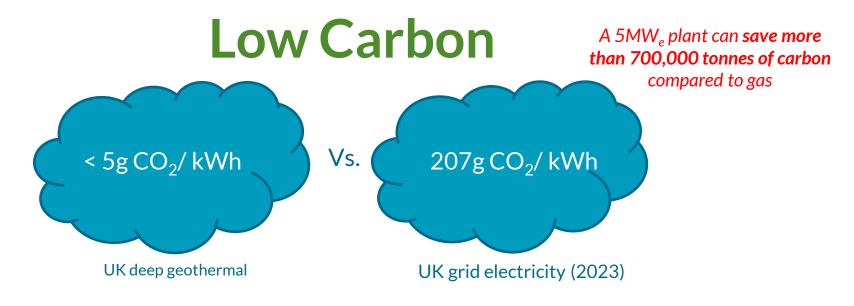
What are we doing?







Why are we doing it?









Secure Energy Supply



Project Status

Drilling



Testing



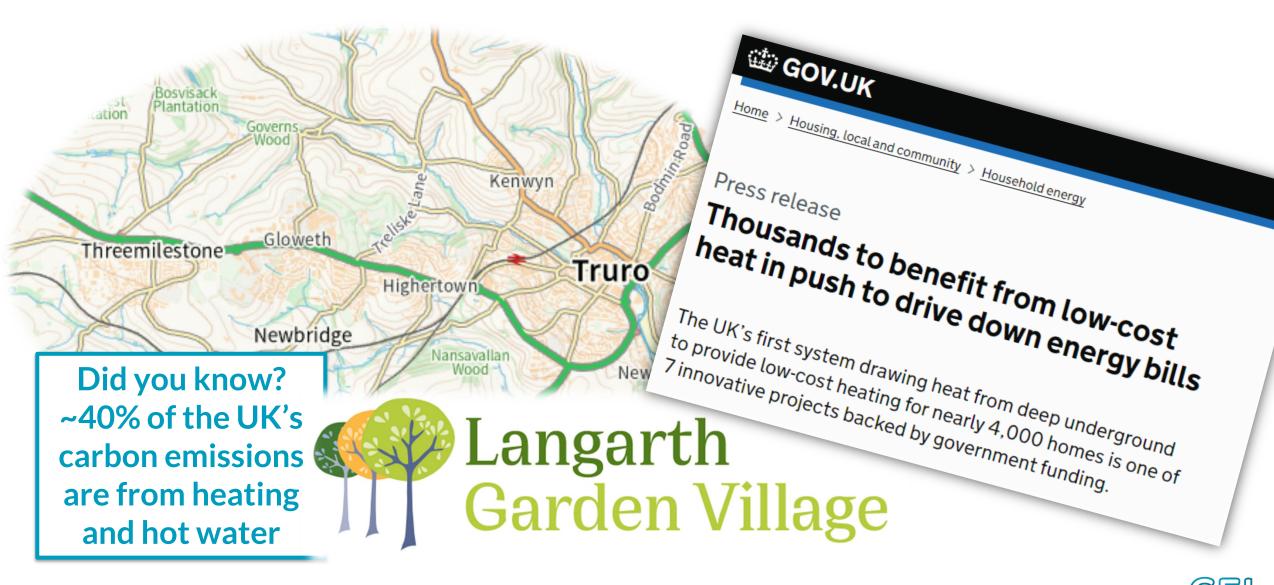
Awaiting Power Plant Delivery in October 2023



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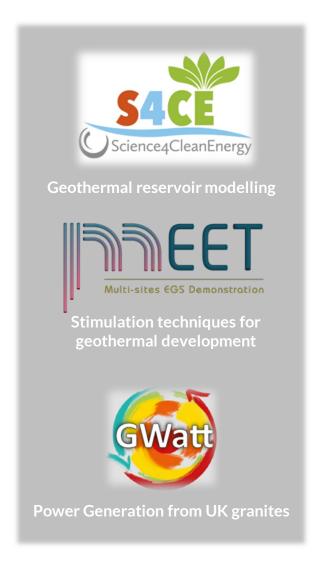


Deep Geothermal Heat Network





Research Projects





Optimising Deep Geothermal Drilling using AI and Machine Learning





Furthering understanding and development of extracting critical raw materials from geothermal fluid



Increasing uptake of geothermal district heating and cooling networks across Europe.

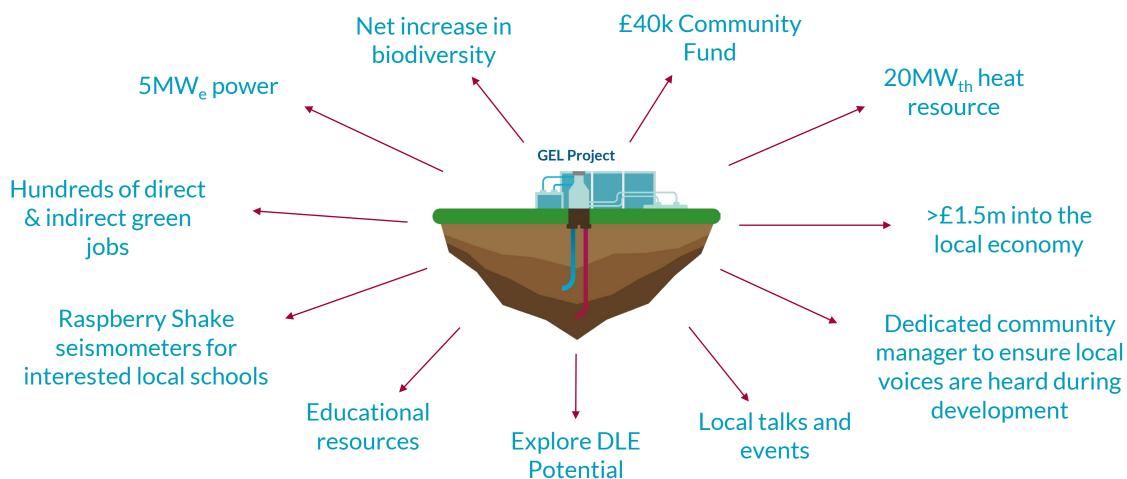


Future Developments



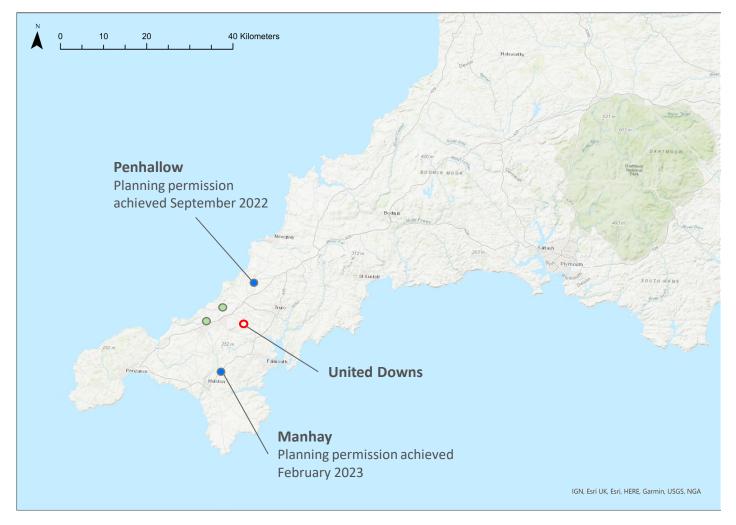
Development Aims

Low-carbon, 24/7 power, heat and lithium





Site Selection



Within drilling distance of a target reservoir

Rig accessibility (major A road)

Access to a grid connection

Away from environmentally sensitive areas

Level working area

Minimal impact on local road network

Relatively low population density

Fresh water supply

Knowledge of subsurface workings

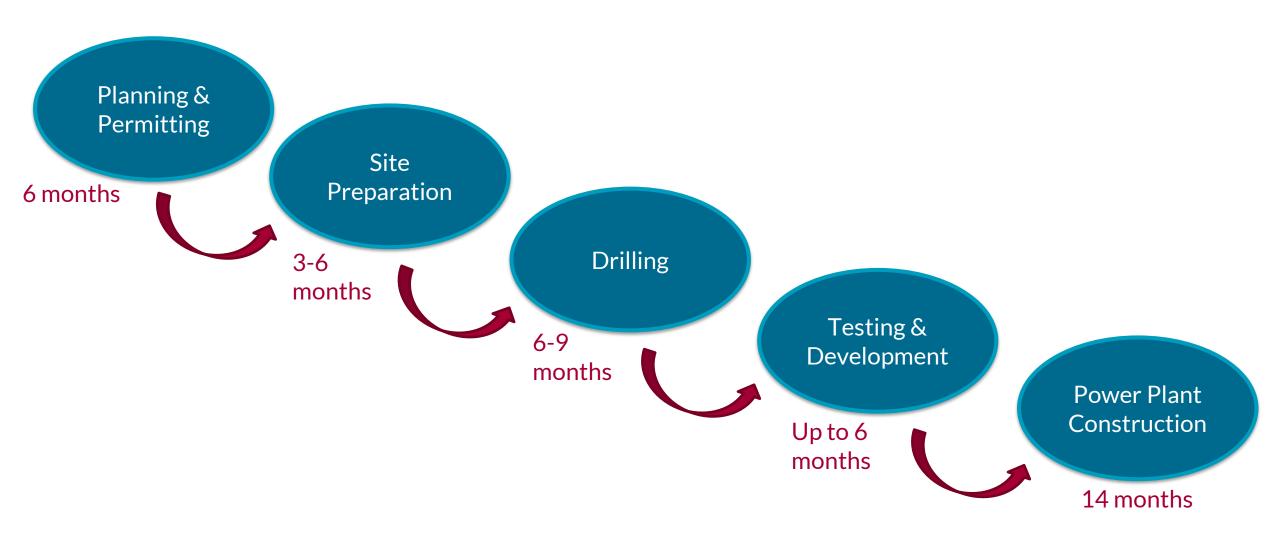
Proximity to potential heat receptors or scope for developing industries with high heat demand

No existing development plans with conflicts of interest

Landowners who are passionate about acting against climate change



Development Programme



The exact duration of each phase will depend on a number of factors, including the results of surveys during planning and preparation, the geology encountered at depth, and the availability of key equipment.



Support Required at All Levels

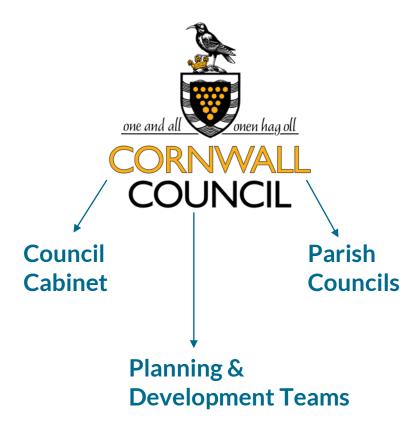




Department for Energy Security & Net Zero



Ministry of Housing, Communities & Local Government













Any questions?

For more information, you can also follow us on social media:







