



*Delivering sustainable lithium*

**GeoCubed is a joint venture project between Cornish Lithium Limited and Geothermal Engineering Limited (GEL) based in United Downs, looking to extract Lithium from groundwater.**

GeoCubed are in the process of designing and building a pilot plant to demonstrate the potential for lithium extraction from Cornish geothermal water. Lithium is a key component of lithium-ion batteries used in electric vehicles and can potentially be produced in Cornwall with a net zero carbon footprint. Domestic production of this critical metal is vital for the UK to deliver its zero carbon and clean growth ambitions.

2021 was a busy year for GeoCubed, with the team expanding and the project pilot plant advancing towards its commissioning date of March 2022.

Earlier this year in July GeoCubed worked to obtain a large scale deep geothermal water sample, during the flow test GEL performed on their wells. GeoCubed managed to capture and store 140 cubic metres of deep geothermal water at the Cornish Lithium site in United Downs. This will be processed using the Direct Lithium Extraction (DLE) technology to determine the effectiveness of extracting lithium from the geothermal water.

In July GeoCubed awarded a contract to GeoLith, a technology company, to provide the DLE technology at the heart of the pilot plant. The GeoLith module underwent testing in France before it was received in Darlington in mid-December, for integration into the rest of the system.

GeoCubed have awarded a contract to Ross-shire Engineering to produce the rest of the Pilot Plant (including filters, heaters, pumps, etc.), and provide support for the integration of this innovative new technology. Their support will be invaluable in designing and integrating the DLE technology, provided by GeoLith, into an operational plant.

The £4.0 million Pilot Plant is being supported by the Cornwall and Isles of Scilly Local Enterprise Partnership ("LEP") with £2.9 million from the UK Government's Getting Building Fund.

For more information please visit <https://geocubed.co.uk/> or email [info@geocubed.co.uk](mailto:info@geocubed.co.uk)



The two tanks containing the deep geothermal water from GEL's well.



The GeoLith DLE skid undergoing testing

