



## Lithium

### What is lithium?

Lithium is the lightest metal, third on the periodic table. In Cornwall it occurs naturally in abundance in some of the igneous rocks, like granite, within the mica minerals. Lithium can also be found dissolved within the geothermal waters in Cornwall, where over many years lithium has naturally leached out of the granite and into these waters.

### Why is lithium important for the Green Energy Transition?

Lithium is a valuable element for the green energy transition and the move away from fossil fuels. As lithium is the lightest metal, and highly conductive, it is an important component of batteries. Lithium-ion batteries are used in technologies like phones, laptops, and pacemakers. These batteries are increasingly needed for electric vehicles as the UK moves away from combustion engine vehicles. Lithium is also important for the grid storage of renewable energy, and often solar panels are accompanied with a lithium-ion battery so the energy can be stored and used when the sun isn't strong enough.

Lithium has many other uses and is also used in pharmaceuticals, ceramics, and some grease lubricants.

## Cornish Lithium

Cornish Lithium is an innovative mineral exploration and development company exploring for lithium found in hard rock and geothermal waters in Cornwall. The team has grown to over 70 employees and various other positions are available on our website.

Cornish Lithium has completed previous boreholes to a maximum depth of 2,000m around United Downs and Twelveheads and is exploring other projects and technologies to extract lithium in an environmentally responsible manner directly from these waters in Cornwall. Keep an eye on our website and the local press for updates about our work.



Lithium micas are displayed as shiny seams or flecks in granite

## Lithium in Geothermal Water Projects



The drill rig used at Twelveheads is now at Blackwater

### Twelveheads

Cornish Lithium has successfully completed its recent drill program at Twelveheads, with a depth of c.2,000m reached. The site is undergoing reinstatement to specifications agreed by the landowner and council. The results of the exploration project are now being analysed by the team.

### Blackwater

Cornish Lithium has started a new six month exploration project near Blackwater, which will provide data that will be used to gain better understanding of the geology of lithium in geothermal waters across Cornwall. This site will have a similar set up to Twelveheads, and will target the naturally permeable geological structures where lithium rich geothermal waters may be flowing at around 2,000m depth. Further information about this site is available on our website, where you can find out more details about the project.

Scan the QR code to visit our website and find out more about our work:

