

CARRAK CONSULTING LTD.

CORNWALL MINE WATER GEOHERMAL DATA

CIRCULAR ECONOMY & ENVIRONMENTAL GROWTH

INTRODUCTION

Carrak Consulting Ltd provides a range of geo-environmental services to land and mineral developers. They seek to adopt SMART solutions to the responsible management of natural resources and provide consultancy experience on projects in the UK and overseas.

Water in abandoned mines can be used as a source of geothermal heat. Old coal mines already provide district heating schemes in Britain and former mining areas often experience high unemployment and fuel poverty. As a result there is a social imperative as well as a spatial synergy between old mine workings and low-cost heat demand. Tevi identified an opportunity to support Carrak Consulting with funding research that will determine the potential of mine water as a source of geothermal energy in Cornwall. It was identified that this research project would require an initial feasibility assessment of 350 mine shafts across the county.



GRANT AWARDED

£5,990.40

Used to purchase
Research and data
provision (Supplied by
Cornwall Consultants Ltd).

IMPACT SUMMARY

Tevi's funding of this project will locate and characterise potential geothermal mine water resources, which will then be mapped to areas of fuel poverty and heat demand. In so doing, it will help contribute to Target Outcome 3 of Cornwall Council's Environmental Growth Strategy (EGS). Furthermore, it will improve knowledge of Cornwall's environmental assets (groundwater stored in mines) and allow the generation of maps to identify other related opportunities, helping to meet EGS Target Outcome 4.

The project will also provide a tool to help policy makers; regulators; and developers identify opportunities for alternative low carbon heat resource. In so doing it meets EGS Target Outcome 8c and could contribute towards Cornwall's 2030 carbon neutral ambitions.

BUSINESS ASSISTANCE

"Geothermal energy has huge potential for Cornwall and across the rest of the UK. Tevi were able to help shape our project and support us to access funding to conduct important work that supports Cornwall's ambitions to become carbon neutral".

*Kathy Hicks
(Director)*

