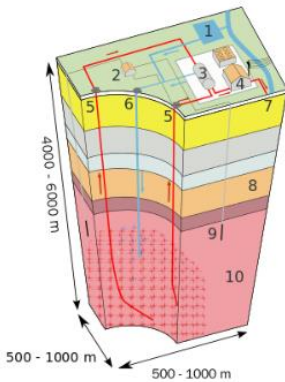




Geothermal - Deep geothermal power from 'hot dry rocks': an option in your area?



Enhanced geothermal system: 1 Reservoir, 2 Pump house, 3 Heat exchanger, 4 Turbine hall, 5 Production well, 6 Injection well, 7 Hot water to district heating, 8 Porous sediments, 9 Observation well, 10 Crystalline bedrock

This is an activity designed by the Earthlearningidea Team. Government 'net-zero' targets will affect many areas across the world as they seek energy from non-fossil fuel sources. This Earthlearningidea explores how energy might be extracted from 'hot dry rocks'.

In this activity students consider the 'hot dry rocks' geothermal potential in the UK through an experimental commercial project in Cornwall and discuss the potential for extracting 'hot dry rocks' geothermal energy locally.

This activity helps students to:

- demonstrate they can interpret a heat flow map;
- explain how energy can be extracted from granite, a 'hot dry rock';
- discuss whether 'hot dry rock' geothermal energy might be exploited in their own country or region.

Resources available from:

https://www.earthlearningidea.com/PDF/385_Net_zero_Hot_dry_rocks.pdf