

# Case Study

## Project: Using Geothermal in UK Agriculture and Sustainability

**Project Summary:**  
The use of Geothermal energy to reduce energy costs, increase sustainability and reduce carbon emissions across the UK Agricultural Sector.

### > The Challenge

- > An industry with significant energy usage in the UK at around 25,000 GWh per annum
- > Energy which accounts for 21% of food production including growing, harvesting and raising livestock
- > The need to reduce energy costs and encourage accessible local production
- > The requirement to become more sustainable, less import dependent and reduce carbon emissions.

### > The Solution

- > Using Geothermal to decarbonize the UK agricultural sector
- > Utilising heat extracted from the ground to provide a clean 24/7 baseload energy that can provide a sustainable energy source for heating, cooling and power
- > The use of end-of-life oil and gas wells, repurposed to harvest in place heat with no environmental impact
- > Fast track approvals between NSTA (North Sea Transition Association) and BEIS British Energy Industrial Strategy – supported by the Environment Agency – to allow transition of these wells to become clean energy assets utilised for developing heat networks for the agricultural industry
- > A lucrative business model for UK farmers and landowners with lower energy costs, job creation and a taxable revenue from locally grown produce
- > Reduced carbon emissions through a lower logistical footprint meaning decreased final costs to the customer
- > An energy solution that will enable UK farming to be import independent within ten years.



### Why CeraPhi energy

- > The first and only company in the UK to offer a complete end to end geothermal energy solution from securing finance to full development and build or equity return
- > A pedigree in Geothermal energy with a trusted and respected team recognised for their work and project delivery in this sector
- > A company already underway on pilot projects across the UK to reuse former oil and gas wells for agricultural heat networks
- > A company with a DNA founded on energy transition, advancing thermal energy, transitioning to a world using less petroleum and where Geothermal becomes a recognized source for near zero carbon power, heat and hot water.

**CeraPhi is a founding member of the Geothermal Energy Advancement Association.**

**t:** 0300 5610170  
**e:** info@ceraphi.com  
www.ceraphi.com

