

Stublach Gas Storage Project, Cheshire, UK

Brine and Water Infrastructure

Customer: GDF Storage Ltd

Services Provided

- Front End Engineering Design (FEED)
- Process and detailed engineering
- Procurement
- Construction management
- Construction (Design & Management) principal contractor
- Commissioning

Benefits to Customer

- Continuity of personnel from FEED project
- Gas processing experience
- Collaborative approach
- Single point of responsibility from FEED to Engineering, Procurement and Construction management (EPCm)



Background

Stublach Gas Storage Project will accept natural gas from the National Transmission System (NTS) during periods of low demand, to be stored in specifically engineered salt cavities on the Stublach site. During periods of high demand, natural gas may be withdrawn from the storage cavities at a high rate, conditioned and exported to the NTS via pipelines.

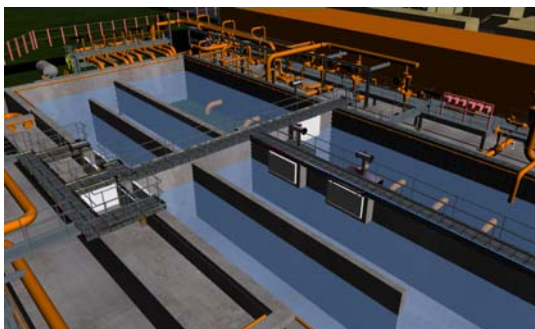
The scope of this contract is to provide all the services necessary to carry out all detailed engineering and design, procure (for and on behalf of) all necessary works and manage the procurement, construction and commissioning of the Phase 1 - Brine and Water Infrastructure. The construction site is located in the heart of the Cheshire countryside, bounded by several working farms and small residential villages.



Project Description

The Phase 1 Brine and Water Infrastructure will include:

- 10 wellheads together with ancillary equipment and associated infrastructure of 26km pipelines
- New underground water pipelines, brine pipelines and other services, connected to the INEOS infrastructure
- A solution mining compound (including pumphouse, deaeration tanks, degassing equipment, control equipment, electrical supply equipment and nitrogen storage and distribution equipment)
- An electrical compound (including all electrical supply equipment, control equipment and load shedding equipment)
- An ecological survey made during the project scoping phase identified that the site has 97 ponds within the planning boundary and of these, 7 were identified as being inhabited by Great Crested Newts requiring significant mitigation measures to be installed.



Awards

RoSPA Silver Award 2008