

# Saltfleetby Gas Storage Project, UK

## Underground Gas Storage Facility

Customer: WINGAS GmbH

### Services Provided

- Front End Engineering Design

### Benefits to Customer

- Wealth of experience in UK gas handling projects
- Collaborative approach
- FEED capability
- Input to planning and regulatory requirements



### Background

Saltfleetby gas field has been identified by WINGAS, as part of its strategy of continuing exploitation of the field, as being suitable for the creation of an underground gas storage facility as a long term asset. The company is presently seeking approval for this project with the relevant authorities.

Saltfleetby, the largest onshore natural gas field in the UK, is located almost a mile and a half below the surface of the South Humber Basin. Currently, the gas is processed at the nearby gas terminal at Theddlethorpe. On completion of the facility, gas will be injected from the NTS (national transmission system) during periods of low demand and withdrawn, treated and returned to the NTS during high demand.

### Project Description

- Front End Engineering Design services included: electrical or gas turbine driven compressors, hydrocarbon and water dewpointing units, condensate handling process facilities and storage tanks, formation water storage tanks, flare system, metering station, buildings, gas export pipeline and interconnecting pipeline.
- Modifications to two existing wellheads to increase the number of wellheads at each site to four.
- A new 10km, 20 inch pipeline to connect the new compression / treatment facility to the NTS grid.
- For the production cycle the gas is to be injected with methanol and corrosion inhibitor at the wellhead sites and the gas pressure let down prior to transfer to the new compression /treatment facility. Here condensate and water are to be removed and stored on site before disposal.
- Gas compression to be carried out in 2 x 50% two stage compressors that accommodate either gas turbine drivers or electric drivers. After compression the heavy components of the gas are to be removed by passing the gas through adsorber beds to achieve the nationalgrid dewpoint specification prior to final metering and return to the NTS.