

N.V. Nederlandse Gasunie



Client

N.V. Nederlandse Gasunie

Construction time

08/2015 - 08/2015

Order value net

135,000 €

Contractor

FRIEDRICH VORWERK SE & Co. KG

Own work

Manufacture and delivery of heat exchanger and heating system, manufacture of the provisoric overfeeds

Subcontractor services

Non-destructive materials testing

Features

Commissioning of the newly constructed high-pressure natural gas pipeline by transferring natural gas from the existing "DEUDAN" pipeline

Contact

www.friedrich-vorwerk.de

Commissioning Fockbek-Ellund

After the new construction of the natural gas high-pressure pipeline Fockbek-Ellund DN 900 PN 84 over a length of approx. 63.5 km, which was realised under the leadership of FRIEDRICH VORWERK KG (GmbH & Co.), the client also awarded the contract for commissioning to VORWERK. The task was to feed natural gas from the parallel "DEUDAN" pipeline with an operating pressure of approx. 60 bar into the newly constructed pipeline.

For this purpose, an approx. 4 km long nitrogen buffer was first pressed between two pigs into the newly constructed natural gas pipeline. The nitrogen was delivered in liquefied form to the Fockbek station and pressed into the pipeline by means of an evaporator and compressor. After the nitrogen cushion had been built up, gassing of the new pipeline began. For this purpose, the nitrogen cushion trapped between the pigs was moved towards Ellund by means of preheating and pressure reduction. After reaching the pig trap in Ellund, it was released into the atmosphere via blowers provided by VORWERK.

After complete gassing with natural gas, the pressure was then also increased to approx. 55 bar via the heat exchanger provided and the heat generation plant.

All provisional measures were then dismantled and the new natural gas pipeline was put into regular operation.