

Gasunie Deutschland GmbH & Co. KG

Client
Gasunie Deutschland GmbH & Co. KG

Construction time
10/2020 - 09/2022

Order value net
48,000,000 €

Contractor
FRIEDRICH VORWERK SE & Co. KG

Own work
Project management, pipeline construction, welding, crossings in HDD- process.

Subcontractor services
Surface restoration, reclamation, HDD's, cathodic corrosion protection

Features
Intensive soil management due to difficult prior contamination within the plant, contaminated areas incl. water treatment

Contact
www.friedrich-vorwerk.de

ARGE ETL 178 Walle-Wolfsburg

VORWERK, together with the VW Group and the city of Wolfsburg, is laying the foundation for a completely CO2-neutral hydrogen economy for industry. By building a 33 km long H2-ready pipeline with a maximum operating pressure of 84 bar and a nominal diameter of DN 400 between Walle and Wolfsburg, the first step is to enable the short-term switch from the current supply by coal to the considerably lower CO2 natural gas. In a second step, hydrogen is to take over the role of natural gas as the primary energy source and contribute to achieving the ''European climate targets''. European climate targets. About 900 m of pipeline will be will be laid above ground and a total of six valves and pigging stations will be used. Pigging stations will be used.

Pipeline construction including:

- Procurement of materials and distribution of the pipes
- laying and aligning the pipes
- manual and semi-automatic welding
- lowering and joining of sections, golden welds
- PE coating work for approx. 2000 welds
- Glass fibre reinforced coating for HDD boreholes (450 welds)
- Pressure testing and commissioning
- Installation of pipelines in a media tunnel incl. Construction of the inlet and outlet structures in the form of
  reinforced concrete shafts
- Above-ground laying of approx. 900 m incl. in-house manufacture of the reinforced concrete foundations and the steel structure to support the pipeline
- 1 station (prefabrication work)
- cathodic corrosion protection and electrical and installation works at the stations