NBB Netzgesellschaft Berlin-Brandenburg mbH & Co. KG

Client
NBB Netzgesellschaft Berlin-Brandenburg mbH & Co. KG

Construction time
03/2019 - 09/2020

Order value net
21,000,000 €

Contractor
FRIEDRICH VORWERK SE & Co. KG

Own work
GU, civil engineering & pipeline construction, plant construction, apparatus engineering, Outdoor facilities

Subcontractor services
Demolition, EMSR, Structural engineering, Concrete construction, Steel construction

Features
Parallel construction of a temporary unit with measurement, preheating incl. heating gas rail for operation until the completion of the new plant

Contact
www.friedrich-vorwerk.de

Replacement of the Buckow transfer station

NBB Netzgesellschaft Berlin-Brandenburg mbH & Co. KG (NBB) operates the Buckow natural gas transfer station (ÜST) in Berlin, in the Neukölln district of Buckow. The ÜST Buckow serves the reliable public gas supply of Berlin as well as ensuring the supply of selected CHP plants and the natural gas storage facility Berlin.

The station is supplied with natural gas via a high-pressure gas pipeline (DN 600, PN 67.5) from the upstream supplier ONTRAS_VNG Gastransport GmbH and feeds this natural gas up to an outlet pressure of 39 bar into the Berlin natural gas transport pipeline (ETL; DN 600). The Buckow transmission station was built in 1984 / 1985.

A condition assessment was carried out as part of the expert opinion issued by TÜV Rheinland on 13 May 2015. The result of the condition analysis revealed considerable risks and weak points for the continued operation of the transmission system and the safe supply of natural gas to the DP 40 network. For capacity and hydraulic reasons, it is not possible to dispense with the Buckow substation for the natural gas supply of Berlin.

The scope of the contract is the planning, delivery and construction of the functional plant in accordance with the currently valid standards and regulations, in particular the DVGW regulations. This includes the construction of a temporary plant, as operation must be maintained for a certain period of time during the new replacement construction. Quality and quantity measurement, preheating of the gas and pressure reduction to the gas pressure of the ETL take place in the station.