

Reference Data Sheet

Replacement of District Heating Line 60

Project owner

Energieversorgung Halle Netz GmbH

Construction period

01/2024 - 02/2026

Net contract value

6.3 Mio. €

Contractor

Joint venture between FRIEDRICH VORWERK SE & Co. KG, Halle (Saale) branch, and Grötz Bauunternehmung GmbH

In-house Services

Civil Engineering
Pipeline Construction
Bridge Construction
Electrical Systems

Subcontractor Services

Water Management
Pontoon System
Non-Destructive Material Testing
Retrofit Insulation

Special details

Working in various protected areas

The replacement construction of District Heating Line 60 was carried out by the bidding consortium, consisting of FRIEDRICH VORWERK SE & Co. KG and Grötz Bauunternehmung GmbH, from January 2024 to February 2026. The work on this main supply line in the district heating network of the city of Halle (Saale) included, among other things, a crossing over the Ruder Canal and several connections.

Line 60 was constructed in 1967 between the Saale River and the Ruder Canal as an underground cable with suspension supports. However, due to its location in the Saale floodplain, the line has been flooded on several occasions (most recently in 2013). Due to the damage caused by the flooding and the threat to supply reliability in the event of another flood, Energieversorgung Halle Netz GmbH commissioned the consortium to lay a new line.

The existing DN800 pipeline with sheet metal insulation was replaced with a new plastic-coated pipe (KMR) with a design pressure of 25 bar in sizes DN600/900. This pipe is additionally equipped with a dual leak detection system.

Furthermore, as part of this project, a bridge was constructed to cross the Ruder Canal with a span of 72 m. The two pipes, each with a nominal diameter of DN 600, were pulled into this bridge using five hoists.

One particular challenge was that the work was carried out in various protected areas (e.g., a flood protection zone).