

PREMANT/INDUCON Project
DE-Euskirchen, 2025

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Pipes

Pioneers in Infrastructure





Project

A new district heating infrastructure has been under construction since March 2025 to supply the town of Euskirchen. The project involves large-diameter plastic-coated pipes and trenchless construction sections, placing high demands on planning, coordination and technical execution.

In close consultation with the energy supplier, the pipeline contractor and the responsible planning office, the client opted for the PREMANT pipe system from BRUGG Pipes. A total of around 4,300 metres of pipes will be laid. Of these, around 2,900 metres will be DN 250/450 and around 1,400 metres will be DN 200/355.

Due to the route of the pipeline, two flush boreholes were drilled, each with 132 metres of PREMANT in DN 250/450. These pipe sections were additionally wrapped with GRP to permanently meet the increased mechanical requirements of trenchless installation. Construction began in March 2025 and is scheduled to be completed by the end of 2026.

Execution

BRUGG Pipes is responsible for the technical planning in advance and provides ongoing support during implementation. A particular focus was placed on developing a concept for the flush drilling using PREMANT DN 250/450 with GRP wrapping. The aim was to develop a permanently resilient solution for the trenchless sections and to ensure long-term operational safety.



The INDUCON welding process is used for socket assembly. This inductive process enables controlled and reproducible welding of the PE shrink sleeves. The flush drilling sections are carried out with two INDUCON welds to ensure a permanently tight connection. The process is a unique selling point and guarantees consistently high weld seam quality, even with large-diameter pipes.

Throughout the entire construction phase, the focus is on precise planning, professional execution and continuous technical support. The combination of the PREMANT pipe system and INDUCON welding technology results in a technically high-quality and long-term secure district heating solution.





Potential for future projects

The implementation of the measure in Euskirchen will sustainably expand the district heating supply at the site. The combination of large-dimensioned PREMANT pipes, trenchless installation and inductively welded sleeves has proven to be a technically and economically convincing solution.

The project illustrates how BRUGG Pipes can implement efficient and long-term secure supply systems even for demanding infrastructure measures through precise planning, high-quality pipe systems and standardised welding processes.



