



**Under the river and motorway -
PREMANT pipe laying for the
Ennetsee heating network
Switzerland, 2024**

BRUGG
Pipes
Pioneers in Infrastructure



Project

Near the Swiss municipality of Inwil, we laid our high-quality PREMANT pipes under the river and the motorway in order to provide the residents with an optimum supply of thermal energy in future and to drive forward the extensive expansion of the Ennetsee heating network.

Execution

The construction project went through several stages. Together with the civil engineering department and the pipe installer, we expanded the 2.5-kilometre section. The energy for the heat supply comes from the Perlen waste incineration plant. The special feature of the construction site was that there was a section where the PREMANT pipes had to be laid under the A14 motorway and the Reuss. This was made possible using empty pipes, which were laid 350 metres under the motorway and the river using the flush drilling method. Our pipes were then pulled through these empty conduits, giving them optimum protection from external environmental influences.

In this flush drilling process, two of our DN 250 pipe rods with a length of 16 metres were always transported onto a ramp and then gradually pulled into the empty pipes of the starting pit. The biggest challenge on the construction site was not only the time-consuming pulling of the supply and return pipes into the empty pipes, but also the welding and fitting of the sleeves. After the 16-metre pole had almost disappeared into the ground, the next pole was loaded onto the ramp at the same time.

Connecting the two poles together was a challenging job that took over 20 days, especially as only four sleeves with welded seams could be created in one day. However, despite the challenges on site, our fitters successfully mastered these construction sites.





Product advantages

The rigid PREMANT long-distance pipe adapts perfectly to the customer's requirements thanks to its customised special fittings.

Thanks to its design and material properties, this pipe system is ideal for transporting heating water over long distances. The integrated monitoring wires round off the product and provide additional safety.

