



PREMANT-Project Upper Bavaria, Germany, 2025

BRUGG
Pipes
Pioneers in Infrastructure



Project

A modern district heating network is currently being built in a municipality in Upper Bavaria to supply around 160 households with renewable energy. The energy comes from a biomass plant with a thermal output of 20 megawatts, which is operated with regionally produced wood chips. The project thus serves as a practical example of the use of climate-friendly, renewable raw materials for heat generation. Once all construction phases are complete, the planned pipeline network will be around seven kilometers long. Implementation will take place in stages, with completion scheduled for the end of 2026.

This modular structure allows the network to be flexibly adapted to growing demand and local conditions.

BRUGG Pipes was commissioned by HTI Gienger KG to supply the pipe systems for 2025. Around 2.7 kilometers of PREMANT pipes with dimensions ranging from DN 25 to DN 150 were used. In addition to the delivery, BRUGG Pipes also took care of the re-insulation of the pipes directly on site. Professional re-insulation plays an important role in the energy efficiency of this network.

It reduces heat loss at connection points, improves thermal performance, and ensures consistently high system performance - a decisive contribution to the sustainable and economical use of district heating. The heating water fed into the system is softened and degassed by means of suitable water treatment and adjusted in terms of its chemical composition to prevent deposits and corrosion in the pipe system.

This increases the operational reliability and service life of the entire system and complies with current recommendations, such as those formulated in VDI Guideline 2035 or AGFW Worksheet FW 510.

The implementation of the project poses various challenges. In addition to varying soil conditions and limited construction space, existing infrastructure must also be taken into account. Logistical requirements, such as material delivery and storage, must also be considered. Close coordination between all parties involved, forward-looking planning, and quality assurance are therefore essential for the success of the project. Issues such as environmental protection requirements, communication with residents, and ensuring the flow of traffic also play an important role in the day-to-day running of the project.

The expansion of this district heating network will make a significant contribution to the regional energy transition. The project demonstrates how municipal heat supply can be implemented efficiently and sustainably with the help of renewable energy sources, modern technology, and cooperative collaboration between specialized providers. It therefore not only serves to ensure local supply security, but can also be seen as a model for further municipal energy projects in German-speaking countries.

