

# Project Fact Sheet

**Project Title**      **Development of a catalogue of measures for the optimization and restructuring of district heating networks including the evaluation of transferability, ecology and economy**

**Keywords**            Optimization, existing district heating networks, biomass, -gas, district heating house station, central operation strategy

## Project Details

<b>Project Start</b>	November 2019	<b>Duration</b>	3 years
<b>Funding Authority</b>	BMW i	<b>Project ID</b>	03EN3005A
<b>Project Management</b>	PTJ		
<b>Sponsor Program</b>	7. Energieforschungsprogramm		
<b>Project Budget</b>	646.546 € (Subproject THI)		
<b>Contact Person</b>	Prof. Dr.-Ing. Tobias Schrag (Project Leader) Mathias Ehrenwirth		
<b>Project Partners</b>	Enerpipe GmbH		

## Description

The research project deals with the development of a catalogue of measures for optimization and retrofitting of existing local heating networks in rural areas to ensure their economic operation in the future. In order to increase the efficiency of the heating networks, the energy-related upgrade aims primarily at decreasing the network flow temperatures and measures to increase the temperature range between inlet and outlet. Based on two heating grids, a package of measures is to be developed in which the economic expenditure and the potential savings of the respective measure are evaluated. The catalogue of measures provides an important contribution to the project-specific planning of retrofitting work for existing local heating grids. In addition, an innovative operating strategy, the retrofitting of already installed house stations (HAST) as well as the integration of existing renewable sources into the HAST will be investigated.