

THE PROJECT PARTNERS

- The Szewalski Institute of Fluid Flow Machinery, Polish Academy of Sciences (**Lead Partner**), PL
- Brandenburg University of Technology, DE
- ZEBAU Centre for Energy, Construction, Architecture and Environment GmbH, DE
- Holbaek Municipality, DK
- Gate 21, DK
- Sustainable Business Hub, SE
- Thermopolis Ltd., FI
- District Heating Kurikka, FI
- Tartu Regional Energy Agency, EE
- Riga Technical University, LV
- Vidzeme Planning Region, LV
- Gulbene Municipality, LV
- Klaipeda University, LT
- Public Institution Housing Energy Efficiency Agency, LT
- ANO Energy Efficiency Centre, RU
- District Heating Enterprise Ltd. - OPEC Gdynia, PL
- AGFW-Project-GmbH, DE
- Kalundborg Municipality, DK
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LowTEMP

Low Temperature District Heating for
the Baltic Sea Region





LowTEMP

LowTEMP promotes a more sustainable district heating (DH) supply. The installation of “4th generation” DH networks provides a future-oriented, environmentally-friendly and cost-effective solution.

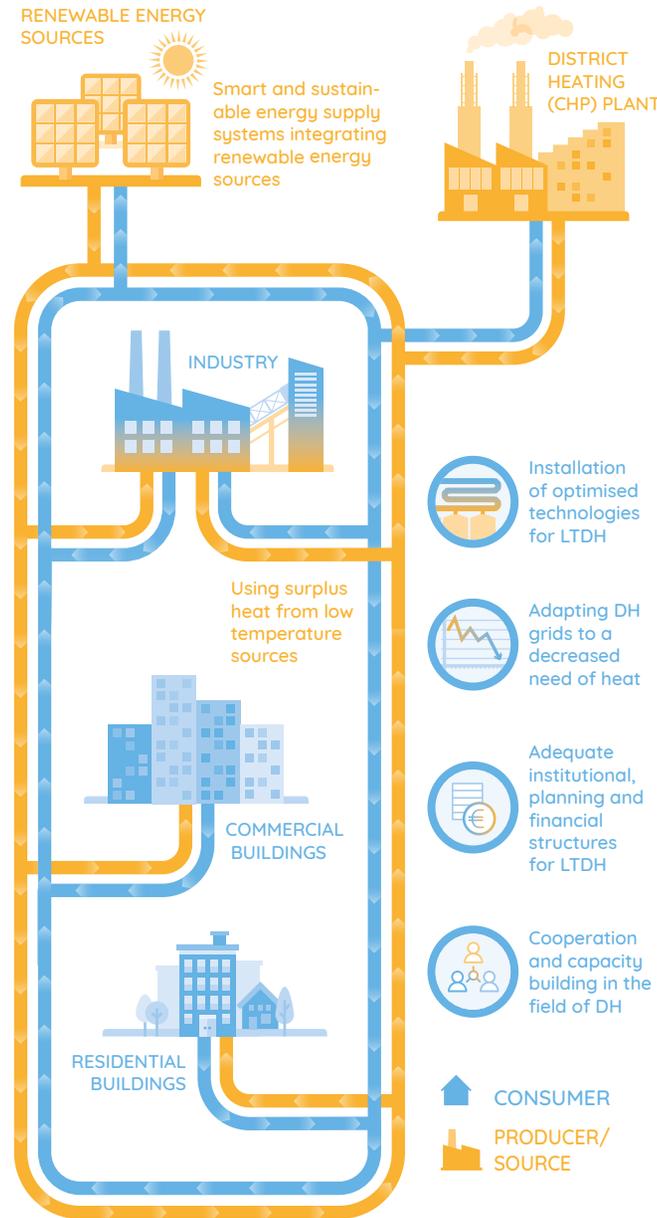
Efficient DH systems are an important component in achieving sustainable energy supply structures and thus contribute to the reduction of energy waste and CO₂ emissions in the Baltic Sea Region (BSR). By lowering the network supply temperature to only the level the consumer requires, a substantial reduction of heat loss is possible.

These low temperature district heating (LTDH) systems can also utilise renewable or untapped surplus heat. Currently, most DH systems do not comply with increased energy efficiency standards in buildings and are often technically outdated. Therefore, they must be upgraded and equipped with advanced system concepts and innovative technologies.

LowTEMP AIMS

Within LowTEMP, 19 project partners and 30 associated partners from 9 BSR countries aim to make DH in their municipalities and regions more efficient. To achieve this objective, the project will raise awareness among the responsible public and private stakeholders regarding the necessity of sustainable energy supply systems. LowTEMP will provide DH stakeholders with know-how and strategic tools on how to plan, finance, install and manage LTDH systems. Furthermore, LTDH solutions will be tested and integrated into DH systems in the partner areas. The successful solutions are to be transferred to other regions in the BSR.

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Smart low temperature district heating (LTDH) systems offer new possibilities for greater energy efficiency by utilising renewable energy and waste heat, especially in buildings with lower energy consumption.

LowTEMP WORK PACKAGES

DISTRICT HEATING KNOWLEDGE PLATFORM

Collection and provision of information and data on DH and LTDH

PILOT ENERGY STRATEGIES

Development of transferable solutions for smart energy supply systems and pilot testing measures

SUSTAINABILITY ASSESSMENT

Evaluation of environmental benefits and economic effects of LTDH

FINANCING SCHEMES AND BUSINESS MODELS FOR LTDH

Examination of possibilities to finance the installation and operation of smart heating grids

CAPACITY BUILDING ON LTDH

Increase knowledge on smart DH systems

