

# LowTEMP Newsletter, October 2019

## Low Temperature District Heating for the Baltic Sea Region



### Successful LowTEMP Conference “The Future of Thermal Grids” Knowledge Exchange about District Heating in Malmö

Baltic Sea Region countries discussed the future of low temperature district heating in the frame of the LowTEMP Conference in Malmö on the 24<sup>th</sup> of September 2019. Efficient district heating systems are an important component to achieve sustainable energy supply and thus contribute to reduced energy waste and CO<sub>2</sub> emissions. District heating companies, suppliers, municipalities and the academic sector exchanged about similar challenges when developing 4<sup>th</sup> generation district heating. The Conference was organised by the Swedish network [Sustainable Business Hub](#) and the Swedish energy supplier [Kraftringen](#) supported by the Interreg Baltic Sea Region project [LowTEMP](#).

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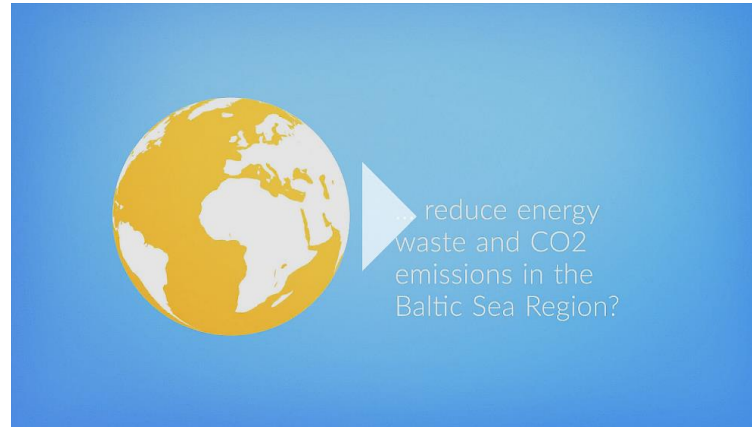


*Photo credits: Baiba Šelkovska, Vidzeme Planning Region*

## Watch LowTEMP now! Project video informs about LTDH and partner activities

How can we reduce energy waste and CO<sub>2</sub> emissions in the BSR? Watch the video and learn about the aims and activities around the LowTEMP project! Project partners inform about a [District Heating Knowledge Platform](#), the advantages of LTDH, [pilot measures](#), environmental effects, business models and much more.

[Watch the video...](#)



## LTDH implementation strategy has been developed in Gulbene Municipality (Latvia)

Latvian experts have developed a low temperature district heating system implementation strategy for Gulbene Municipality in order to improve district heating systems in Gulbene Municipality and to achieve maximum energy efficiency. It will be used for the future planning of heat supply and decision-making with regard to heat supply in the Gulbene district.

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### Pilot: Low temperature centralised heat supply system of Gulbene Municipality (Latvia)

In the pilot implemented during the LowTEMP project, a low temperature heating system has been installed in three municipal buildings in Gulbene. The system consists of a more efficient boiler house (biomass) and newly constructed heat pipes. In order to meter and analyse the heating data, a remote data reader system has been installed. The environmental impact of this pilot is significant as the new, energy-efficient boiler house now allows to reduce CO<sub>2</sub>-pollution and to generate heat energy that is 40% cheaper.

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*Photo credits: Sandis Kalniņš, Gulbene Municipality*

### Pilot: Data collection and analysis of heat supply, loss and consumption: Examination of 145 social / public objects in Petrozavodsk (Russia)

In the pilot implemented within the LowTEMP project, 145 social and public objects, such as a kindergarden building (photo), were surveyed to reveal their structural condition, energy efficiency potential and heat consumption during the past five years. The subsequent development of an energy management plan for the pilot objects provides the basis for the transition to more energy-efficient solutions as one step forward to low temperature heat supply in municipal buildings and facilities.

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*Photo credits: ANO EEC*

## Industrial waste heat project in Germany moves forward

The foundation stone for the enercity energy centre on the district heating route between the copper company Aurubis and the residential and commercial area HafenCity was laid on 26<sup>th</sup> of August 2019. The heating network is fed by industrial waste heat - such systems are an important element of the so-called "Wärmewende" and go along with the transformation to low temperature district heating networks of the 4<sup>th</sup> generation. By supplying buildings in the districts HafenCity, Veddel and Rothenburgsort that are adjacent to the heat pipe, annual emissions of more than 10,000 tons CO<sub>2</sub> can be avoided.

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Photo credits: BUE Hamburg, Roland Schneider

## Innovative solutions for heat generation at the 9<sup>th</sup> Pomeranian Energy Picnic in Gdynia

The LowTEMP Lead Partner IMP PAN and project partner OPEC informed about energy efficiency measures, especially low temperature district heating systems, in the frame of the annual Pomeranian Picnic in June this year. It was dedicated to energy efficiency and renewable energy sources. The honorary patronage took Dariusz Drelich, Governor of Pomerania Voivodship, National Fund for Environmental Protection and Water Management, Ministry of Energy and Ministry of Environment.

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## LowTEMP at the Cluster Renewable Energy Hamburg “Heating Forum”

The Cluster Renewable Energy Hamburg is a business network for the Hamburg metropolitan region and has been offering networking and information opportunities for interested stakeholders since 2010. Heating is one of the core pillars of the cluster’s work. The LowTEMP project partner ZEBAU GmbH located in Hamburg, took part with an introductory lecture on the topic of LowTEMP district heating networks and on the project itself.

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*Photo credits: ZEBAU GmbH*

## Upcoming events

### Thermal energy systems of the future – hot trends and cool solutions for cities”, 17.-18. October 2019, Brussels, Belgium

This two-day conference will bring together politicians, industry representatives and research institutions from across Europe to connect and exchange ideas on how urban thermal energy systems are developing and how these integrated heating and cooling solutions of the future will allow smart cities to satisfy the energy needs of its citizens and businesses in a sustainable way.

[Visit the website...](#)

[More upcoming events...](#)

The LowTEMP project is supported by the [European Union](#) (European Regional Development Fund & European Neighbourhood Instrument) in the frame of the [Interreg Baltic Sea Region Programme 2014-2020](#).

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**atene KOM GmbH**  
Contact person: Magdalena Jähler  
E-mail: [m.jaehler@atekom.eu](mailto:m.jaehler@atekom.eu)  
Phone: +49 341 989 717 18  
[www.atekom.eu](http://www.atekom.eu)

**Thermopolis Oy**  
Contact person: Pauli Sneck  
E-mail: [pauli.sneck@thermopolis.fi](mailto:pauli.sneck@thermopolis.fi)  
Phone: +358 444 384 200  
[www.thermopolis.fi](http://www.thermopolis.fi)