

LowTEMP Newsletter, February 2019

Low Temperature District Heating for the Baltic Sea Region



News

LowTEMP on the way to Polish Parliament

On 25 Jan. 2019, Janusz Różalski, CEO of [OPEC Gdynia](#) (third from left) organised a meeting with the Member of Polish Parliament Dr Jan Klawiter (second from left) focusing on efficiency in Polish district heating (DH) grids. The participants including Mieczysław Dzierzgowski (Asst. Prof. WUT), Marcin Gregorowicz (energy adviser WFOS Gdańsk), Joanna Wojtkowska-Paszak (OPEC specialist) and Adam Cenian (Prof. [IMP PAN](#)) discussed the state of art of DH in Poland.

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Turning waste into the eco-power of the future

The Hamburg Waste Management Utility is currently working on the development of a unique resource and energy center ([Zentrum für Ressourcen und Energie, ZRE](#)) in Hamburg-Stellingen. ZRE will have a significant impact on the district heating network with its climate-neutral heat production and will therefore contribute to climate mitigation and resource protection in Hamburg.

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First season with low temperature district heating system – pilot project in Beļava

19 October 2018 was the start for 2018/2019 central heating season in Belava village and also the first pilot trial for new, recently installed low temperature district heating (LTDH) systems. For the two insulated buildings in Belava village, low temperature heating is provided with supply and return temperatures of 55°/ 25°C in the inner heating circle of the buildings. The inhabitants of Gulbene Municipality and local council members have shown great interest in this LTDH pilot project.

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Smart energy systems: Overview of low temperature district heating in Latvia

Vidzeme region has one of the biggest heat losses in the district heating networks in Latvia. This indicates the need to modernise existing district heating systems. Low temperature district heating grids are characterised by low grid losses (by decreasing the supply temperature below 70°C), the use of renewable heat (from solar, geothermal, waste and biomass sources) and integration with cooling network and smart energy systems.

LowTEMP project partner [Riga Technical University \(RTU\)](#), [Gulbene Municipality](#) and [Vidzeme Planning Region](#) are jointly working towards the promotion of future-oriented heating supply with a number initiatives.



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Outside temperatures drop – good occasion to visit German best practice projects in sustainable heating supply

In mid-January, the LowTEMP project organised for the third time a study visit for project partners and interested stakeholders from partner countries. Visits and lectures on exemplary and sustainable district heating supply projects in Berlin and Brandenburg have been on the agenda. The [atene KOM GmbH](#) being responsible of project management as well as communication and finance management in LowTEMP, organised the two-days event together with the partners [Brandenburg University of Technology \(BTU\) Cottbus-Senftenberg](#) and the [Centre for Energy, Construction, Architecture and Environment \(ZEBAU\)](#).

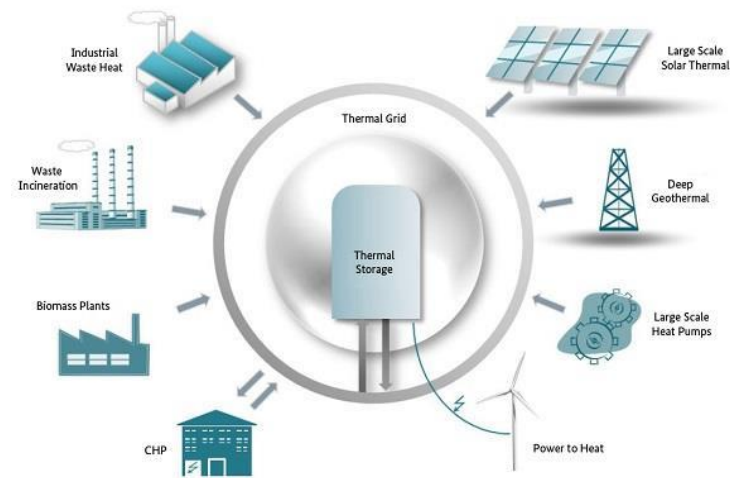
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The city of Hamburg is rebuying and transforming its district heating system



The city of Hamburg has decided to buy its district heating system back from the energy company Vattenfall. After the privatisation of all energy grids at the beginning of the century, a public referendum affected by the discussion about coal-fired power plants, now forced the Senate of Hamburg to implement this transaction. With this change of ownership, the transition of the district heating systems from mainly coal-fired sources to renewable sources might become easier.

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RELaTED: a flexible approach to the deployment and conversion of DH networks to low temperature

LowTEMP's sister project [RELaTED – Renewable Low Temperature District](#) is funded under Horizon 2020. RELaTED deploys a decentralised, Ultra-Low Temperature (ULT) district heating (DH) network concept, which allows for the incorporation of low-grade heat sources with minimal constraints, larger shares of renewable energy sources and distributed heat sources. Like LowTEMP, RELaTED aims to lower the temperature of DH supply in order to reduce heat losses and increase the performance of heat production systems. The RELaTED concept is demonstrated in 4 selected locations: Vinge (DK), Tartu (EE), Belgrade (SR) and Iurreta (ES).



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Upcoming events

IMP PAN Expert Seminar, 17. February 2019, Gdańsk, Poland

- How to use the existing oversized heat infrastructure in the building after thermomodernization in order to increase the energy efficiency and decrease heat costs and emission?
- Presentation by Dr M. Dzierzgowski, Warsaw University of Technology

IMP PAN Expert Seminar, 14. March 2019, Gdańsk, Poland

- Living on Campus: BTB's low temperature district heating system with solar feed-in in Berlin-Adlershof
- Presentation by A. Reinholz, BTB Berlin

LowTEMP Partner Meeting, 20.-22. March 2019, Klaipeda, Lithuania

- Exchange on the already implemented and planned work of the LowTEMP project regarding the expansion of low temperature district heating (LTDH) approached in the Baltic Sea Region, as well as for capacity building in the partnership and the discussion of further planned pilot activities.

Euroheat & Power Congress 2019, 06.-08. May 2019, Nantes, France

- The Congress focuses on topics related to District Energy and provides a unique forum for discussing and enhancing knowledge on major issues of importance for European and Global District Energy sectors, including both technical and business approaches; from new developments in legislation, latest operational experiences, most recent technological developments, and fresh research results.

[Visit the website...](#)

Conference of Environmental and Climate technologies (CONNECT), 15.-17. May 2019, Riga, Latvia

- CONNECT conference is an annual conference held since 2008 and brings together scientists and researchers from different countries. Conference topics are e.g.: Heat and power generation, district heating and cooling, renewable energy sources, energy efficiency.

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EU Sustainable Energy Week 2019, 17.-21. June 2019, Brussels, Belgium

- Biggest event dedicated to renewables and efficient energy use in Europe. It is made up of a 3-day policy conference offering various networking opportunities, an EU Sustainable Energy Awards competition with a public vote for the citizens' award and local events, Energy Days, held across Europe throughout the months of May and June.

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[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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