

Celsius Talk: Heat-pumping the future of district energy

Welcome to one of the CELSIUS webinars!

Heat pumps are becoming an increasingly popular and efficient solution to raise the share of residual heat sources in district energy systems. In an attempt to help Celsius members better understand this developing technology, this Celsius Talk brought together experts from the International Energy Agency's (IEA) Heat Pumping Technologies programme Annex 47 to explore the main drivers and barriers related to the deployment of heat pumps in district energy systems.

The recording

The presentations

IEA Annex 47 Heat Pumps in district heating and cooling systems

Svend Vinther Pedersen, Senior specialist at the Danish Technological Institute

[Presentation](#)  / [Short cut to the video recording](#)

Barriers and Opportunities for Large-Scale Heat Pumps in District Heating and Cooling Networks

Roman Geyer, Research Engineer in Eclectic Energy Systems at the Austrian Institute of Technology

[Presentation](#)  / [Short cut to the video recording](#)

Heat pumps in district heating systems

Markus Lindahl, Project Manager for RISE

[Presentation](#)  / [Short cut to the video recording](#)

Read more

Technical Toolbox

- [Supply-side technologies for LTDH](#)
- [Waste energy recovery](#)
- [Thermal energy storage](#)
- [Methods of Thermal Energy Storage](#)
- [Strategies for decreasing peak loads and energy use](#)

Socio-Economic Toolbox

- [Identified legal/policy barriers](#)

Demonstrators

- [Heat pumps using waste water in Gothenburg, Sweden](#)
- [Waste heat recovery from sewage water in Cologne](#)
- [Capture of waste heat and extension of the seed network in Islington](#)

Recordings

- [CELSIUS Workshop: Electric Heat pumps for District Heating in Copenhagen](#)
- [CELSIUS Talk: Two CELSIUS Demonstrators - Genoa and Cologne](#)

External links

- <https://www.iea.org>
- <https://heatpumpingtechnologies.org/>
- <https://heatpumpingtechnologies.org/annex47/>