

Invitation to the Webinar on “Digitalization for optimizing integrated district heating systems”

Digital technologies are believed to make the whole energy system smarter, more efficient, and reliable and to boost the efficiency and the integration of more renewables into the system. In the future, digital applications might enable district energy systems to fully optimise their plant and network operation while empowering the end consumer. Further on, digital technologies are a key enabler for sector coupling and hybridisation of the energy system. On the other hand, challenges need to be tackled, such as data security and privacy as well as questions about data ownership.

Aim of the Webinar is

- to discuss the role of digitalisation within a future CO₂ free and integrated energy system,
- to present activities, challenges and solutions from the industry perspective,
- to get an impression of current commercial solutions,

The webinar is directed towards:

- District heating network operators and energy suppliers
- Digitalization solution providers (soft- and hardware, consultancies)
- R&D institutes and universities
- Policy makers, energy authorities and associations

Date: Wednesday, 9th September 2020, from 10:00 to 17.00 (separated in three blocks)

Attendees may attend free of charge; a link for the online participation will be send out after registration

Registration is required by 7th September 2020 (end of working day) via this [LINK](#).

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This Webinar is held in the framework of two international cooperation programs: the IEA DHC Annex TS3 „Hybrid Energy Networks“ and the IEA DHC Annex TS4 “Digitalisation of District Heating and Cooling“. More information at <https://www.iea-dhc.org/the-research/annexes/2018-2024-annex-ts4/> and <http://www.iea-dhc.org/the-research/annexes/2017-2020-annex-ts3-draft.html>

Agenda

Block I – policy framework and the big picture of digitalisation of energy infrastructures

9:30 *Testing of technical connections*

10:00 **Introduction into the Webinar** (*Ralf-Roman Schmidt, AIT*)

National R&D perspectives for the digitalisation of the energy sector (*Carsten Magaß, Project Management Juelich*)

The role of digitalisation for future energy systems (*Kathleen Gaffney, IEA Paris*)

The European framework (*Alessandro Provaggi, DHC+/ Euroheat and Power*)

Interactive session and Q&A to all presenters

11:00 *End of Block I*

Block II – Digitalization of district heating systems

12:00 *Testing of technical connections*

12:30 **Introduction into the IEA DHC Annex TS4 project** (*Dietrich Schmidt, Fraunhofer IEE*)

The era net call on digitalization (*Michael Hübner, Austrian ministry BMK*)

The utility perspective on digitalisation of district heating (*Bernd Rüger & Karina Nold, Stadtwerke München*)

Digitalisation solutions for heat infrastructures (*Martin Brüssau, SAMSON*)

Business opportunities from digitalisation (*Steen Schelle Jensen, KAMSTRUP*)

Interactive session and Q&A to all presenters

14:00 *End of Block II*

Block III – Hybrid energy systems

15:00 *Testing of technical connections*

15:30 **Introduction into the IEA DHC Annex TS3 project** (*Ralf-Roman Schmidt, AIT*)

Technologies for Hybridisation (*Oddgeir Gudmundsson, Danfoss*)

GIS-based automated design of DH networks (*Joseph Jebamalai, Comsof*)

Sector coupling between hydrogen and district heating (*Hans Böhm, El Linz*)

Interactive session and Q&A to all presenters

17:00 *End of Block III*