

Invitation to the Webinar on “Hybrid Energy Networks” Austria Goes International

The integration of the different energy networks, such as electricity, gas and heating/ cooling is considered as one of the key measures for decarbonizing the energy system. Although district heating and cooling (DHC) networks traditionally have strong links to electricity and gas networks via combined heat and power (CHP) processes, in the last years, a major step forward has been taken towards the complete integration of the all energy domains.

Aim of the Webinar is

- to get an insight into concrete challenges and the latest implementation and R&D projects in Austria and internationally
- to discuss technologies and synergy potentials, tools and methodologies, concrete case studies and framework conditions
- to identify strengths, weaknesses, opportunities and threats of DHC networks within an integrated energy system,

The webinar is directed towards Austrian and international

- Network operators and energy suppliers (DHC, electricity and gas TSO/DSOs)
- Policy makers, energy authorities and associations
- Consultancies and engineering offices
- R&D institutes and universities

Date: Thursday, 23rd April 2020, from 10:00 to 14.30 CET (separated in two blocks)

Attendees may attend free of charge; a link for the online participation will be send out right before the event.

Registration is required by 22st April 2020 (end of working day) via this [LINK](#).

Webinar organization: Ralf-Roman Schmidt, Ralf-Roman.Schmidt@ait.ac.at +43 664 235 19 01

This Webinar is held in the framework of the international cooperation program IEA DHC Annex TS3 „Hybrid Energy Networks“. More information at <http://www.iea-dhc.org/the-research/annexes/2017-2020-annex-ts3-draft.html>

Agenda

Block I

9:30	<i>Testing of technical connections</i>
10:00	Introduction into the Webinar and the international cooperation program IEA DHC Annex TS3 (<i>Ralf-Roman Schmidt, AIT</i>)
	Transformation towards the 4. and 5. generation district heating, trends and examples (<i>Christian Doczekal, Güssing Energy Technologies GmbH</i>)
	Challenges for hybrid energy networks and e.on solutions (<i>Boris Kleemann, E.ON</i>)
	ThermaFLEX: Experiences from an Austrian flagship project on flexible district heating systems (<i>Ingo Leusbrock, AEE Intec</i>)
	Assessment of integrated multi-carrier distribution networks (<i>Edmund Widl AIT</i>)
	EnRSim: a simple tool for designing and assessing renewable production strategies (<i>Nicolas Vasset, CEA</i>)
11:30	<i>End of Block I</i>

Block II

12:30	<i>Testing of technical connections</i>
13:00	A modular energy management system for the optimal operation of cross-sectoral energy systems (<i>Daniel Muschick, BEST</i>)
	Innovative Cogeneration and Trigeration concepts using LiBr absorption machines for heating and cooling (<i>Harald Blazek, Stepsahead</i>)
	Heating and cooling strategies and 2050 scenarios for Austria, results of the Heat Roadmap Europe project (<i>Peter Sorknæs, Aalborg University</i>)
	Decarbonising the austrian space heating sector: a transition scenario for 2050 (<i>Lukas Kranzl, TU Wien</i>)
14:00	An analysis of strengths, weaknesses, opportunities and threats of DHC networks within an integrated energy system (<i>Ralf-Roman Schmidt, AIT</i>)
	online voting and open discussion round
14:30	<i>End of Block II</i>
