



**Central European
Biomass Conference**
18th to 20th January 2017
Graz, Austria

Workshop: BINE

Title: BINE – Bi-directional integration of buildings with heat

Date: 20th January 2017, Room 11a, 01:30 – 03:00pm

Place: Trade Fair Graz, Austria



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Bi-directional integration of buildings with heat

Heat grids are an excellent possibility to integrate renewable energy into general heat supply, which reduces CO₂ emissions and other forms of environmental impact. At the moment, however, many locally available heat sources are not used. In order to provide heat for a settlement or a district in a sustainable and environmentally friendly way, all locally available sources of renewable heat (solar thermal, biomass, waste heat) should be used. This is possible by bi-directional integration into the local heat grid.

The possibilities and prerequisites, in particular requirements for a bi-directional transfer station and possibilities for the integration of heat pumps are studied using simulations and validation on a test heat grid. An advanced control strategy for bi-directional integration will be developed.

A business model which is profitable for all participants shall guarantee the willingness to participate.

The project consortium is looking forward to your participation!



University of Natural Resources
and Life Sciences, Vienna
Department of Material Sciences
and Process Engineering



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Programme

Chairman: Christoph Rosenberger, *Austrian Biomass Association*

01:30 pm **Opening**

- Christoph Rosenberger, *Austrian Biomass Association*
- Daniel Reiterer, *AEE NÖ-Wien, Austria*

01:45 pm **Potentials and limitations of use for the bi-directional integration of decentralized heat generators within regional heating networks, using the example of the implementation of district heating in Großschönau**

Andreas Leitner, *University of Natural Resources and Life Sciences Vienna, Austria*

02:15 pm **Technical control concepts for the development of bi-directional heating networks – from overall thermal management to the hydraulic control of decentralized heat generators**

Klaus Lichtenegger, *Bioenergy2020+ GmbH, Austria*

Daniel Muschick, *Bioenergy2020+ GmbH, Austria*

02:45 pm **Development and discussion of possible future scenarios**

03:00 pm **Coffee & Get-together**



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Conference details

Date Friday 20th January 2017, 01:30 – 03:00 pm

Registration We kindly ask for registration under
www.cebc.at/en/registration/

Intrance fee ■ 3rd Conference day
20th January 2017..... 250,-

Prices incl. conference proceedings, lunch, coffee breaks, excl. excursions & side events
Discounts für students and groups from 10 people on request

Questions +43 1 533 07 97-0, office@biomasseverband.at

Location Messecongress Graz, Messeplatz 1, 8010 Graz

Conference programme: www.cebc.at/en/programme/program-overview



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