

BiNe 2+



Bidirektionale Einbindung von
Gebäuden mit Wärmeerzeugern in
Wärmenetze

Bidirectional Integration of Buildings
with Heat Producers into Heat Grids



Agenda

13:30 Opening & Introduction

Christoph Rosenberger, *Österreichischer Biomasse-Verband*

Daniel Reiterer, *AEE NÖ-Wien, Österreich*

13:45 Bidirectional integration of decentralized heat-producers into grids, using the example „Fernwärme Großschönau“

Andreas Leitner, *Universität für Bodenkultur Wien, Österreich*

14:15 Control concepts for the development of bi-directional heating networks - from thermal management to hydraulic control of decentralized heat producers

Klaus Lichtenegger, *Bioenergy 2020+ GmbH, Österreich*

Daniel Muschick, *Bioenergy 2020+ GmbH, Österreich*

14:45 Discussion of possible future scenarios

15:00 Coffee & Get-Together

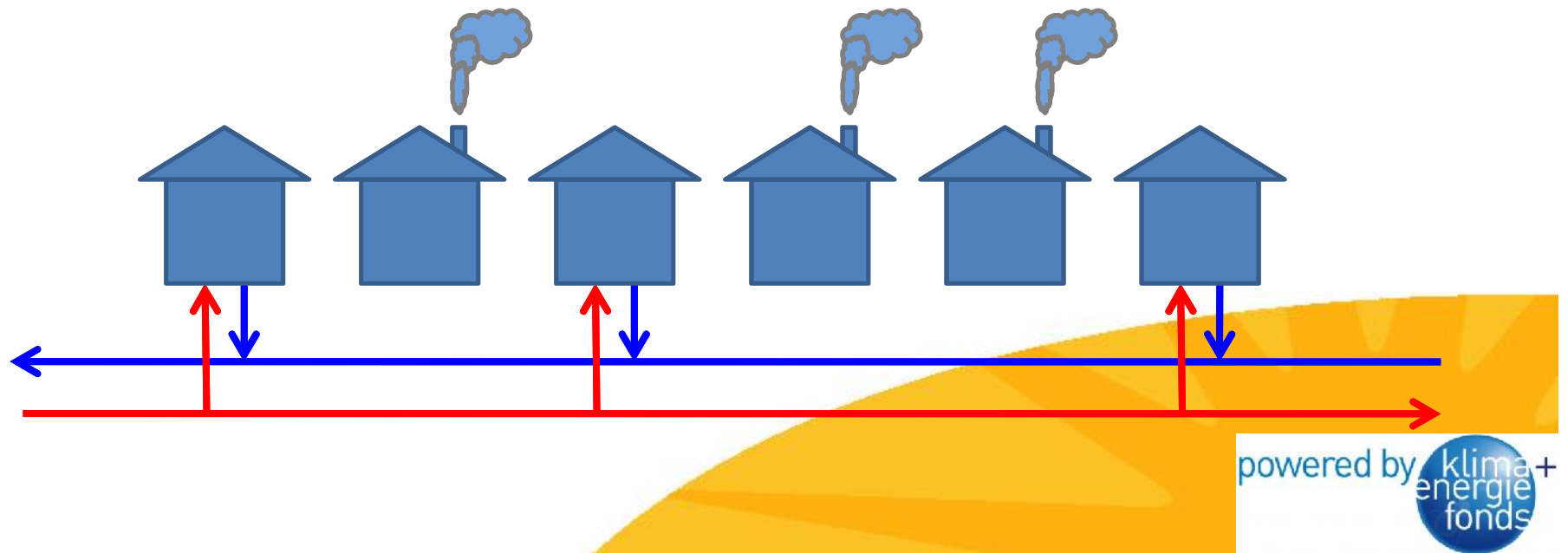
Partners

- AEE NÖ-Wien
- Bioenergy 2020+
- BOKU Wien – Institut für Verfahrens- und Energietechnik
- Büro für Erneuerbare Energie Ing. Riebenbauer
- HDG Bavaria GmbH
- Ochsner Wärmepumpen GmbH
- Österreichischer Biomasseverband
- Pink Speichertechnik GmbH
- Rvb Regelungs-Verteilerbau GmbH
- S.O.L.I.D. Gesellschaft für Solarinstallation und Design GmbH
- Sonnenplatz Großschönau
- Tbes GmbH



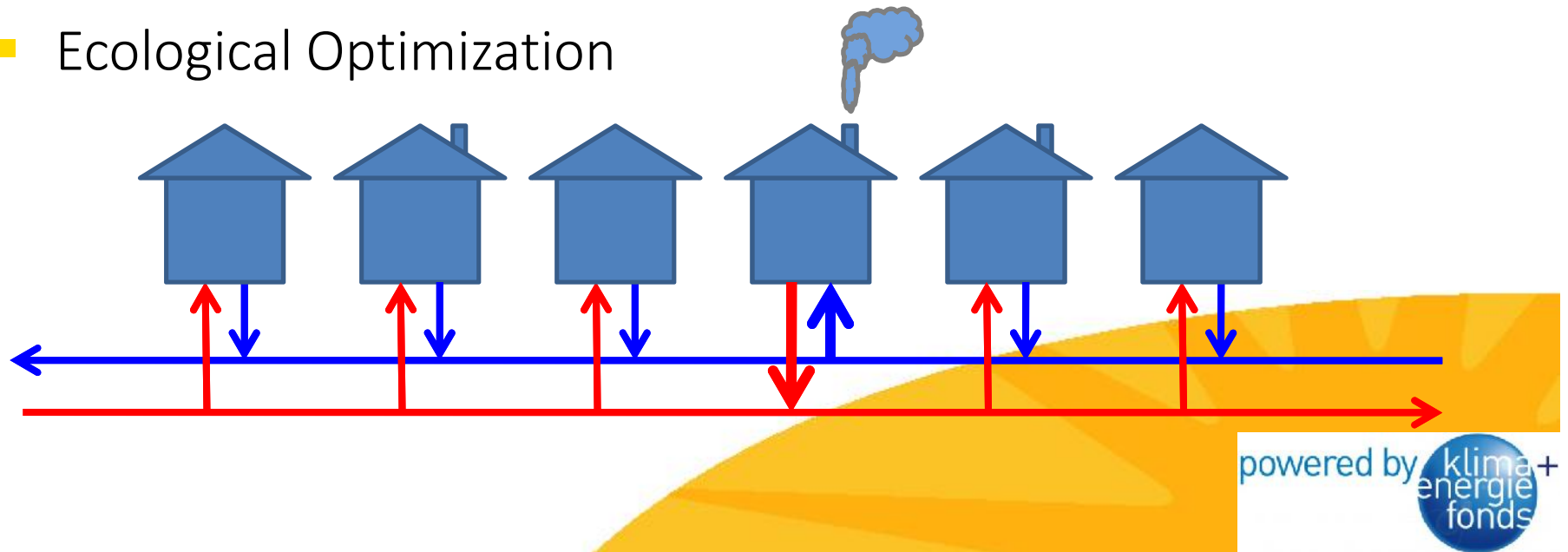
Motivation

- Parallel structures (Heat networks and local heat production)
- Overcapacities
- Solar Integration and overproduction
- Part load of boilers
- Invite more participants

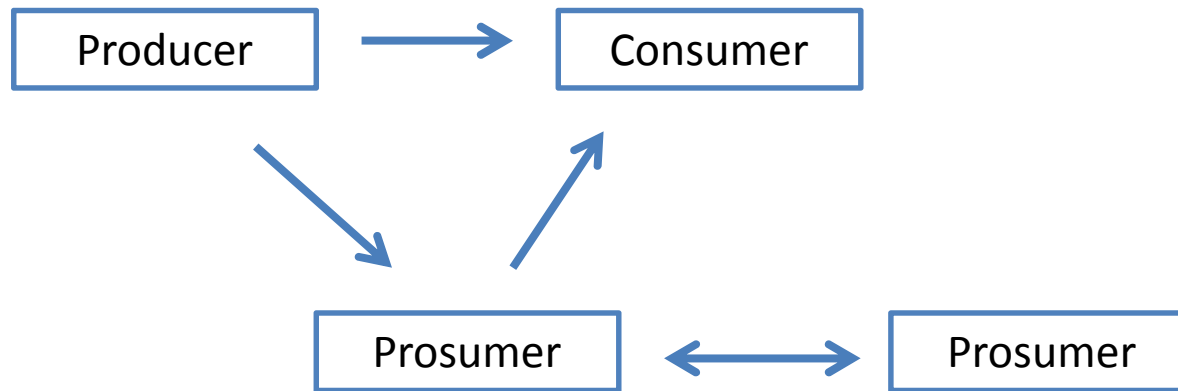


Target

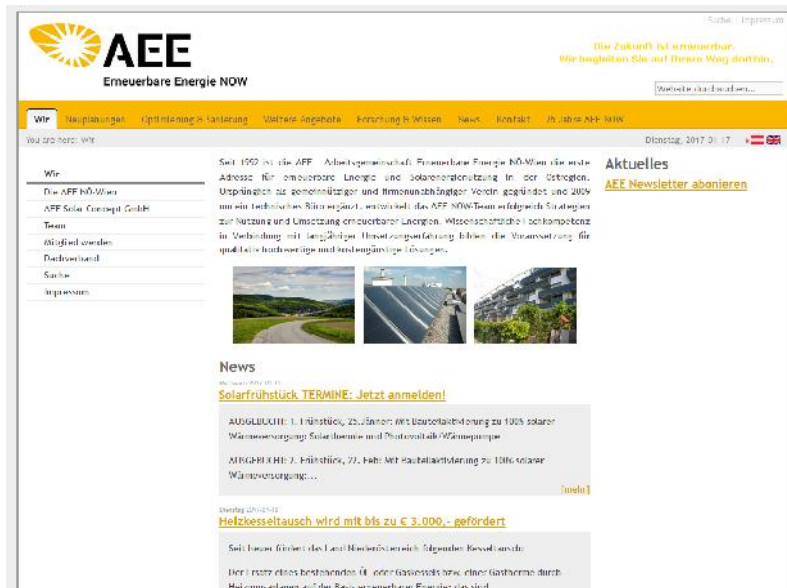
- Intelligent integration of buildings with heat producers into heat grids
- Increasing the efficiency of the whole system
- Economic Optimization – Development of Business Models
- Ecological Optimization



Prosumer – what?



Prosumer - example

The screenshot shows the AEE website homepage. At the top, there is a navigation bar with the AEE logo and the text 'Erneuerbare Energie NOW'. Below the navigation bar, there is a main content area with a 'Wir' section on the left and a 'Aktuelles' section on the right. The 'Aktuelles' section features a news item titled 'Solarfrühstück TERMINE: Jetzt anmelden!' with a sub-headline 'AUSGEBUCHT: 1.1. Hinstich, 22. Januar: Mit Solarfrühstück zu 100% solarer Wärmeversorgung Solarbäume und Photovoltaik-Wärmepumpe'. There are also images of solar panels and wind turbines.



The screenshot shows the AEE Facebook page. The page header includes the AEE logo and the text 'AEE Arbeitsgemeinschaft ERNEUERBARE ENERGIE NÖ-Wien'. The main content area features a large image of a solar farm with wind turbines in the background. Below the image, there is a post with the text 'Neue Beitragsoptionen: Nutzer neue Wege, sich mit denen Kunden zu verbinden, und gerade so noch bessere Ergebnisse'. There are also several buttons and icons for user interaction, such as 'Beitrag hinzufügen', 'Schreibe etwas', and 'Diese Woche'.

Prosumer – why?

- (Much) more complex
- Security?
- Basics must be developed

- More efficient
- More cost efficient
- More resilient
- More involving (for people)
- More environmentally friendly

Prosumer – how?

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