4TU.Energy

Building energy Responsive Integration of supply and Demand engaGEment (BRIDGE)

Energy Information Interaction Club

Presenter: Tingting Zhu (UT)

Team member: Dujuan Yang (TU/e)| Aleksandra Lekic(TU Delft)

TU Delft Delft University of Technology

TU/e Eindhoven University of Technology

UNIVERSITY OF TWENTE.

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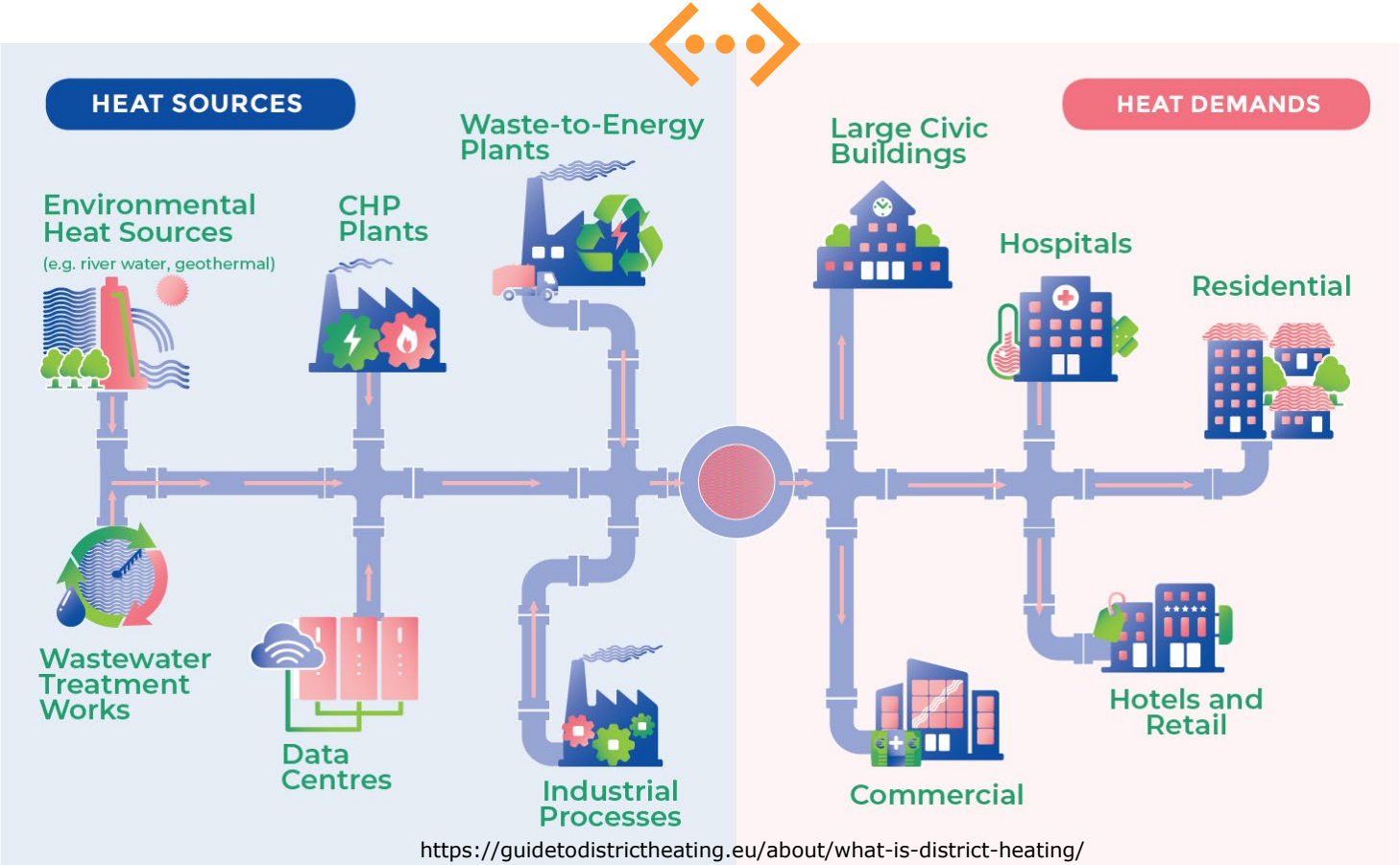
Building Energy Transition: Integrating Supply, Demand



https://guidetodistrictheating.eu/about/what-is-district-heating/

Research Focus –Responsive Integrating of Building Energy Supply and Demand

- Supply and demand

- Key aspects
sources, storage, distribution, consumption, demand response, efficiency, grid.

- Multidisciplinary approach
energy engineers, environmental, data analyse, and technology experts and researchers

Joint Research Team & Funding Application

Dr. Tingting Zhu – Focus on supply side
(multiple energy sources in district heating/cooling networks)
Dr. Dujuan Yang – Digitalization of the built environment
(building modeling, dynamic consumption patterns)
Dr. Aleksandra Lekic – Smart and flexible energy system control

UT
Heat transfer and thermodynamics
Advanced heating and cooling

AC–X
Built Environment
Building sustainable urban energy

TU Delft
Electrical sustainable energy
Intelligent electrical power grids

Need for a Comprehensive Research Team

- Energy conversion
- Energy storage
- Data-driven based control
- Environmental impact
- Economic analysis

Goal: A complete research storyline for **building energy system integration research**

Future Collaboration & Impact

- Strengthening connections :**4TU researchers** and industrial partners
- Future **joint projects & funding applications**
- Advancing sustainable and efficient building energy solutions

Event in Preparation

EVENT COUNTDOWN

154	10	02	04
days	hours	minute	seconds

Stay tuned!

Welcome to join us in contributing to the **Energy Transition in Building-BRIDGE** community!

Acknowledgements





Thank you for your attention!

TU Delft Delft University of Technology
TU/e EINDHOVEN UNIVERSITY OF TECHNOLOGY
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