Keeping our cities sustainably warm

Inspiring the Efficient Renewal of District Heating for the Just Transition

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Scaling up implementation on the ground through strategic policies & planning:

SUPPORTIVE FRAMEWORKS DRIVING DECARBONISATION THROUGH A SWITCH TO RES-DH

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Slobodan Jerotić,
JKP Toplana Šabac
Our goal is to reach 4GDH

Regarding this, several projects were realized

The last is the implementation of Mentor Planner Software which help us to optimize system operation
Decreasing supply temperature in DH grid is not possible sometimes.

Who is responsible for this?

Before renovation

After renovation
DH Company „Toplana-Šabac“ borrowed 2.5 MEUR for the financing of thermal insulation of 40 buildings that have been connected to DH grid.

• Average consumption measured at substations in 2019. amounted 99 kWh/m2 a

• At the national level, it was higher.

DH Company plays ESCO role

Why?

Because our customers are not visible to the financial institutions.
What are the next steps?

Increasing the RES share in the energy mix in our DH.

To become more attractive for citizens.
Negotiation with citizens in suburban settlements to develop small DH’s systems that use RES. The financing model is different. The city's energy policy created ambient which provides possibilities for the local community to apply some kind of split financing.
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Alenka Loose,
City of Ljubljana
POLICY-RELATED CHALLENGES/NEEDS IN SLOVENIA/LJUBLJANA

• Need 1: DISTRICT HEATING SYSTEM
  • PRESENTLY:
    – 15% wooden biomass,
    – 85% coal
    – GOAL 2032: 30% biomass

• Need 2: WASTE INCINERATION
  - 40 MW unit planned
• Natural gas – complementary system
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Gundars Pētersons,
Fortum Jelgava Ltd.
GREEN DEAL ON LOCAL LEVEL IN LATVIA, JELGAVA

- Fossil fuel common choice near RES DH
- Switch from Fossil>RES insignificant
- Customer pressure
- NG price half the EU27 and lowest in 12y
- Price regulation and taxation does not promote RES yet
- Zoning aproach disputable, long
MUNICIPALITY IS THE KEY FOR GREEN DEAL

- Municipality should be given by Law **wider delegation to set restrictions in local legislation for implementation individual heating solutions**
- Municipal legislation should set:
  - areas where to connect to DH
  - where to choose other RES
  - zoning can be solution for densely populated or recreation areas
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**Policy-related challenges/needs in Italy**

- Integrating Heat Pumps into DHC production mix, to leverage on RES-based Electricity
  - Business case is already sustainable, due to current electricity prices;
  - Issue at large is connected to unfavourable policy conditions for DHC in Italy

- Waste Heat integration
  - Where the Multi-Utility company already manages WTE facilities, supply chain integration constitutes a sound biz model
  - Integration of third parties (industrial) waste heat is by large more complex: reliability, supply continuity, supply profiles, ...
  - This node is key to unlock DHC potential in Italy
Policy and Planning Solutions in Italy

• DH to become pillar in the Energy Transition agenda
  – Avoid distortions with competing technologies
  – Show evidence of high potential of DHC to become subject of incentivising policies
  – Leverage on Energy Efficiency Measures (white and green certificates)

• Create conditions to minimise risks of Strategic Infrastructural Investments
  – Industrial Policy
  – Governance Models
  – Support Production Mix Flexibility