District heating in Europe

Moving forward in energy dependency & decarbonisation

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Organisation: Friends of the Earth-Bulgaria
ENERGY CITIES IN A MAP...

... AND A FEW WORDS:

- +1,000 European municipalities
- Future-proof learning community
- 5 thematic hubs
Cities & district heating: what’s up?
Key numbers:

- 12% in 2020
- 50% by 2050
- ±70% gas and coal
DIVERSE CASES, SIMILAR CHALLENGES

#1 – Data

› The more accurate, the best to decarbonate
FEEDBACK FROM THE GROUND

BISTRITA (ROMANIA)

› Reducing heat consumption & CO₂ emissions

› Hotmaps tool & project

<table>
<thead>
<tr>
<th>Savings in buildings heat demand</th>
<th>DH network connection rate</th>
<th>Heat needs by DH</th>
<th>DH supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>36%</td>
<td>70%</td>
<td>41%</td>
<td>Waste incineration, HP, biomass, medium temperature</td>
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</tbody>
</table>

Source: City of Bistrita
FEEDBACK FROM THE GROUND

DIVERSE CASES, SIMILAR CHALLENGES

#2 – Funding

› Give the impulse to attract investors
FEEDBACK FROM THE GROUND

HEAT PLANT OF THE FUTURE (POLAND)

› National Centre for Research & Development

› At least 80% RES heat plant

› 2 phases, 38 million zloty
FEEDBACK FROM THE GROUND

DIVERSE CASES, SIMILAR CHALLENGES

#3 – Experience

› Exploring new ways of working
ŁÓDZ (POLAND)

› Green bonds largely unknown in Poland

› Partnership with a bank in Norway

› Defining green projects
FEEDBACK FROM THE GROUND

DIVERSE CASES, SIMILAR CHALLENGES

#4 – Fossil-fuels

› Be bold and break free from fossil fuels
FEEDBACK FROM THE GROUND

VIENNA (AUSTRIA)

› 80% Russian gas, climate neutral in 2040

› -18% heat demand

› DH: from 5,500GWh to 6,300GWh:
   › 25% heat pumps, 25% waste incineration, 25% geothermal, 25% green gases (peak)
FEEDBACK FROM THE GROUND

DIVERSE CASES, SIMILAR CHALLENGES

#5 – Engagement

› Citizens are key allies
FEEDBACK FROM THE GROUND

NIŠ (REPUBLIC OF SERBIA)

› Change of billing system: high tensions

› Commission for price change approval
FEEDBACK FROM THE GROUND

DIVERSE CASES, SIMILAR CHALLENGES

› Heating strategies are local strategies
GETTING ORGANISED: DECARB CITY PIPES 2050

- Techno-economical possibilities
- Heating & cooling plans
- Transition roadmaps
WHAT IS THE FRAMEWORK?
3 LAYERS OF LEVERAGE

- Local
- National
- EU
THE EU CONTEXT

**Ambition**
- -55%
- REPowerEU

**Fit for 55**
- RED
- EED
- EPBD
BRINGING IN NATIONAL SUPPORT

› Transposing EU legislation

› Possible initiatives: mandatory connection to district heating networks?

› The example of France
MAKE IT HAPPEN: THE LOCAL LEVEL

› Ambition requires human capacity

› Study on Human capacity in local governments: the bottleneck of the building stock transition

› Recruiting, pooling expertise, training & upskilling, developing green budgets

› EU & national campaign #Staff4Climate: sign the manifesto & join the webinar on 4 July!
TOP TIPS WHEN DEVELOPING DISTRICT HEATING
Prioritise mapping & planning

Think long term
Bet on your staff

Work on the image

Engage with stakeholders