Stakeholder Engagement
Thursday April 15 | 10:00 CET
Moderator:

Stakeholder Engagement

Pauline Lucas
Policy Officer
Euroheat & Power
Stakeholder Engagement
Panel of Experts

Moderator: Pailune Lucas

Paulius Martinkus

Dmytro Romanchenko

Christian Kiem
DELIVERING THE CHANGE IN VILNIUS DISTRICT HEATING
## VILNIUS DISTRICT HEATING COMPANY IN NUMBERS

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenues</td>
<td>110,1 Mln. Eur</td>
</tr>
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<td>Total Assets</td>
<td>148,3 Mln. Eur</td>
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<td>Renewable energy sources</td>
<td>61 %</td>
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<tr>
<td>Net Profit</td>
<td>7,4 Mln. Eur</td>
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<td>ROE</td>
<td>6,8 %</td>
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<td><strong>Delivered heat, GWh</strong></td>
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<td><strong>Produced heat in own plants, GWh</strong></td>
<td>1,539</td>
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<td><strong>Number of connected buildings</strong></td>
<td>7,243</td>
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<td><strong>Connected buildings, ths. sq. m</strong></td>
<td>20,687</td>
</tr>
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<td><strong>Lengths of the network, km</strong></td>
<td>748</td>
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<td><strong>Number of households</strong></td>
<td>216,275</td>
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<td><strong>Number of hot water meters</strong></td>
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Our Priorities

to create an intelligent energy system which is based on renewable energy sources
LOW TEMPERATURE DISTRICT HEATING CREATES NEW OPPORTUNITIES

- Decreasing network losses
- Efficiency of production
- Procumers
- Residual heat recuperation
- Seasonal energy storage
- Power-to-heat
- Integration of RES
TRIBUTE TO CELSIUS INITIATIVE

• Focused groups
• Topic setting as spearhead city
• Knowledge sharing and peer discussions
• Toolbox of the best practices

Celsius philosophy – don’t re-invent the wheel!

For more information visit: https://celsiuscity.eu/
WE CARE ABOUT THE EARTH

BE BOLD
Customers’ Perspective

Dmytro Romanchenko
Expert in Energy Systems Models
Swedish Environmental Research Institute
Customers’ perspective on heating and cooling

Dmytro Romanchenko
IVL Swedish Environmental Research Institute
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Which indoor comfort requirements are the most important for the customers?

- Comfortable indoor temperature – the most important indoor comfort requirement (51%)
- Evenly distributed temperature is important to 25% of the respondents
- Non-temperature related comfort requirements (all together) are the most important to less than 25% of the respondents

Additionally,
- Regulations on the lowest acceptable indoor temperature are generally better established than the regulations on the highest allowed temperature
Spatial and temporal flexibility of the heating and cooling demands.

Importance of different indoor spaces to maintain comfortable indoor environment. Indoor spaces with the LOWEST importance have the highest score (share).

Importance of temporality (intraday) for space heating, space cooling, and hot water demands. Multiple answers were allowed.
How willing the customers are to pay for “greener” heating and cooling supply?

- More than 50% are willing to pay for “greener” heating and cooling supply
- Around 1/5 of the respondents would not mind if the cost increased by more than 6-10%
- Almost a half of the respondents would prefer to pay the same or even lower price than they are paying today
Dmytro Romanchenko
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Thank you
www.rewardheat.eu

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Christian Kiem
Cities of the Future Project Manager
EDF

End-User Dashboard
Recovery of Urban Excess Heat

Partners working on the French demonstrator

EDF

Christian Keim - Project Manager
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www.reuseheat.eu

@ReUseHeat

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 768936.
Sea water based neutral temperature heating/cooling network

Real time data

Dashboard - raise acceptance and awareness of sustainable district heating/cooling solutions among the wider public.
2017 TRL 2
technology concept formulated

2020 TRL
system prototype demonstration in operational environment

2022 TRL 8
system complete and qualified

From linear to circular
Contextualize data
Simplify when possible

Design Thinking
Lean Startup
Agile

LEARN
MEASURE

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www.reuseheat.eu
DISSEMINATION!
Dashboard will be made soon publicly accessible and voice spread.

VALIDATION!
1) Online survey
2) On-site end-user feedback

REPLICATION!
How to move on to other renewable and waste-heat based networks
THANK YOU!

Contact: christian.keim@edf.fr
Stakeholder Engagement Discussion

Moderator: Pailune Lucas

Paulius Martinkus

Dmytro Romanchenko

Christian Kiern

Funded by the European Union’s Horizon 2020 Programme
Thank you!

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