KeepWarm

Renewing district heating

Keeping our cities sustainably warm

Inspiring the Efficient Renewal of District Heating for the Just Transition

This project is funded by the EU's Horizon 2020 research and innovation programme under grant agreement N°784966.

This project receives co-funding from the German Federal Ministry of Economic Cooperation and Development.

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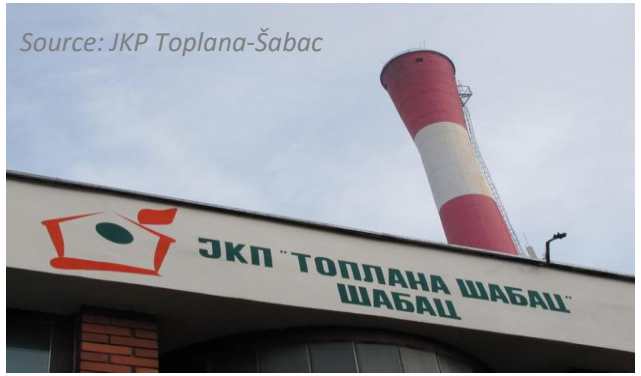
Scaling up implementation on the ground through strategic policies & planning:

SUPPORTIVE FRAMEWORKS DRIVING DECARBONISATION THROUGH A SWITCH TO RES-DH

Signe Mārtiņkrista – Zemgale Regional Energy Agency (ZREA), Latvia

12. November, 2020

PRACTITIONERS' EXPERIENCES WITH DECARBONISING DH



Source: JKP Toplana-Šabac

JKP Toplana-Šabac, **Serbia**

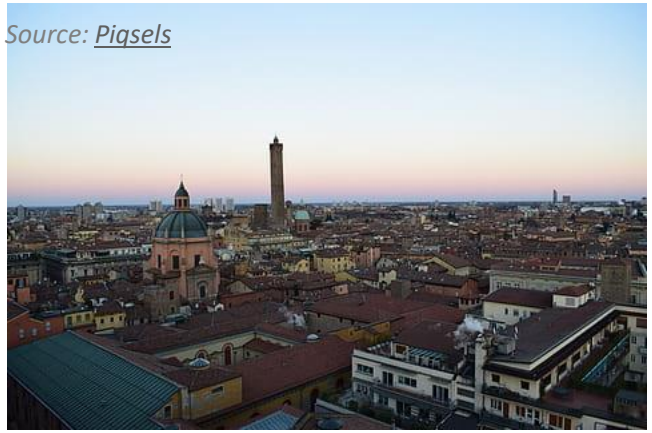
Fortum Jelgava Ltd., **Latvia**


Source: Fortum


Source: Pigsels

City of Ljubljana, **Slovenia**

Optit S.r.l., **Italy**


Source: Pigsels

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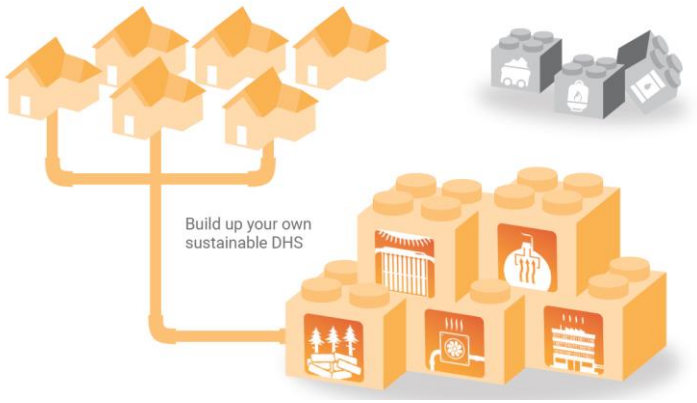
ON-THE-GROUND POLICY CHALLENGES AND NEEDS



Challenge #1 (Serbia-Šabac)

- Competition in the DH sector expected which (to become more attractive for customers)
- Decreasing supply temp. in DH not possible sometimes
- Reconstruction of production plant done, EE improved, system optimization,
- Need solutions for smaller local level

Challenge #2 (Slovenia-Ljubljana)

- Giving District Heating System a more important role on the market
- Switch from fossil fuel (coal) to biomass (current share: biomass 15%, coal 85%)
- Waste incineration (40mW unit planned)

Challenge #3 (Latvia-Jelgava)

- Fossil fuel common choice near RES based DHS
- Gas price in LV half of the EU27 and lowest in 12 years,
- Price regulation and taxation does not promote RES yet

Challenge #4 (Italy)

- Integrating Heat Pumps into DHS production mix, to leverage on RES-based Electricity
- Biomass, Waste Heat integration of third parties (industrial)

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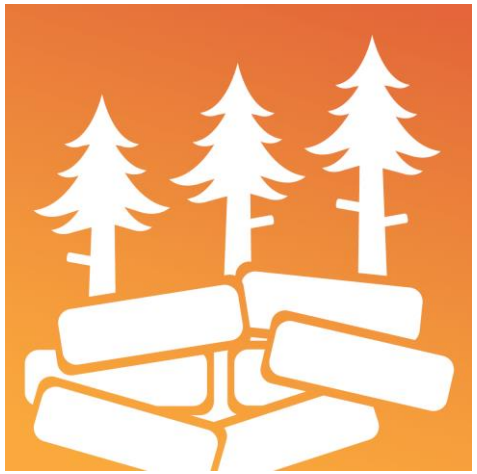


RECOMMENDED POLICY SOLUTIONS – LOCAL

In response to Challenge No. 1(Serbia)

- In lack of availability of public financial resources - ESCO model as solution in combination of energy cooperative
- Increase RES share in energy mix (energy cooperatives)

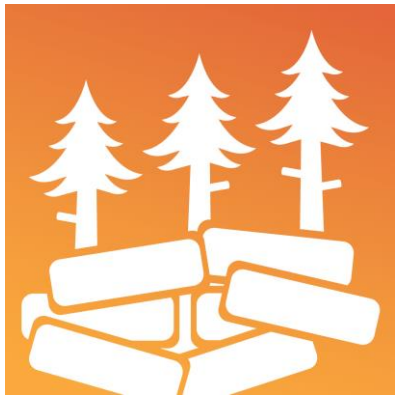
In response to Challenge No. 2 (Slovenia)

- Political commitment of sustainable & energy-efficient CO2 free city.
- Natural gas – complementary system in Ljubljana. Gas incineration waste plants
- Diversification of fuels / establishment of «micro-heating systems at different places of city. Geothermal energy as complementary part for heating buildings, plus photovoltaics where possible (heat islands)

In response to Challenge No. 3(Latvia)

- Ability and capacity of the local government to impose restrictions in normative acts at local level for implementation individual heating solutions. Spatial planning documents, energy and climate plans shall cover it.

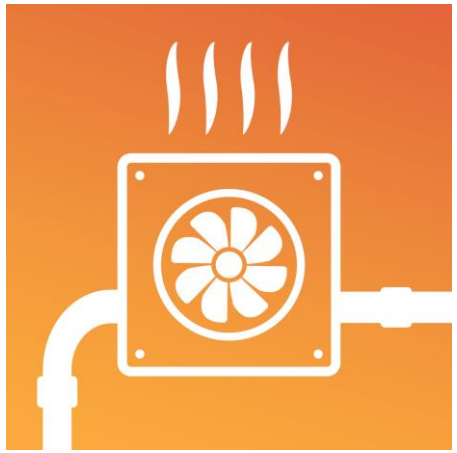
RECOMMENDED POLICY SOLUTIONS – SUB-NATIONAL



In response to Challenge No. 1(Serbia):

- On the local and regional level, financing models play an important role that need to adopt to each project.
- Citizens are open to set up energy cooperative and to co-finance constructions.

RECOMMENDED POLICY SOLUTIONS – NATIONAL



Policy solution #3 (Jelgava, Latvia)

- Amendments in legislation to give Municipalities wider delegation to set restrictions in local legislation for implementation individual heating solutions in densely populated or recreation areas.

Policy solutions #4 (Italy)

- Inclusion DH as pillar in the Energy Transition agenda
- Create conditions to minimise risks of Strategic Infrastructural Investments

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KEEP CALM & KEEPWARM with DISTRICT HEATING

Thank you! Questions?

For **more information**, and to discover how **we can facilitate you in your DH transition**:

visit our website:	*contact* us at:	*follow* us on Twitter:
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giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Jožef Stefan Institute, Ljubljana, Slovenia
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ICLEI Local Governments for Sustainability

KT-ENERGY

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ASSOCIATION FOR DISTRICT HEATING
of the Czech Republic

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