



# 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.



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

## **SUPPORTIVE FRAMEWORKS DRIVING DECARBONISATION THROUGH A SWITCH TO RES-DH**



*12 November 2020*

## SUPPORTIVE FRAMEWORKS DRIVING DECARBONISATION THROUGH A SWITCH TO RES-DH

### Moderator



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JKP Toplana Šabac



**Alenka Loose,**  
City of Ljubljana



**Gundars Pētersons,**  
Fortum Jelgava Ltd.



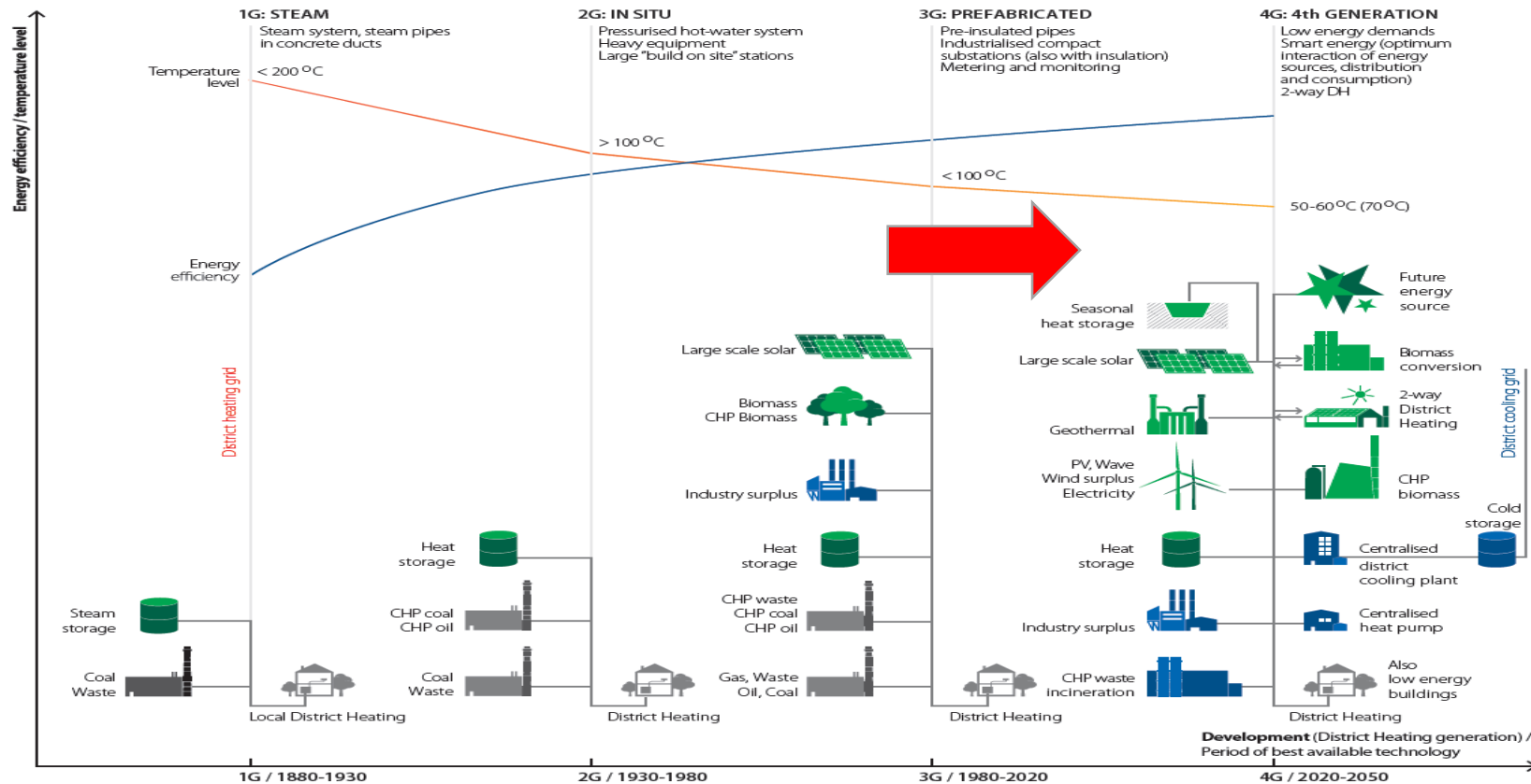
**Matteo Pozzi,**  
Optit S.r.l.

## SUPPORTIVE FRAMEWORKS DRIVING DECARBONISATION THROUGH A SWITCH TO RES-DH



**Slobodan Jerotić,**  
JKP Toplana Šabac

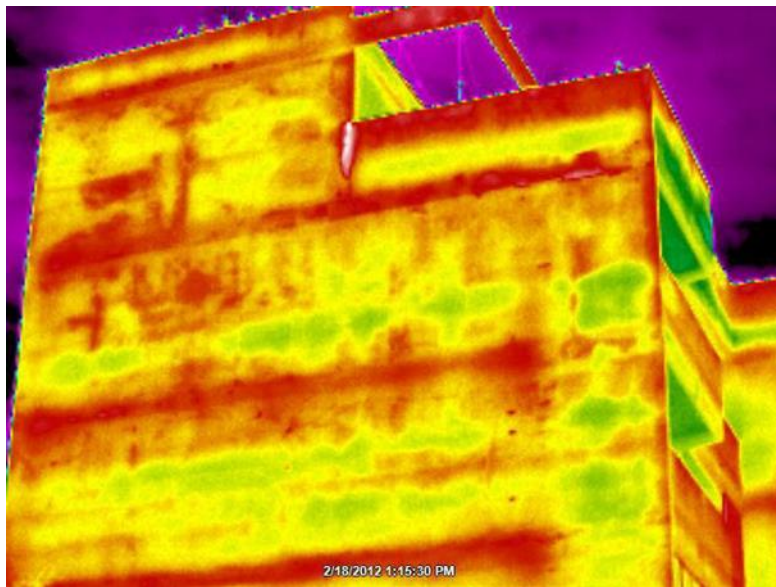
# POLICY-RELATED CHALLENGES/NEEDS IN ŠABAC



- 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

## POLICY AND PLANNING SOLUTIONS IN ŠABAC

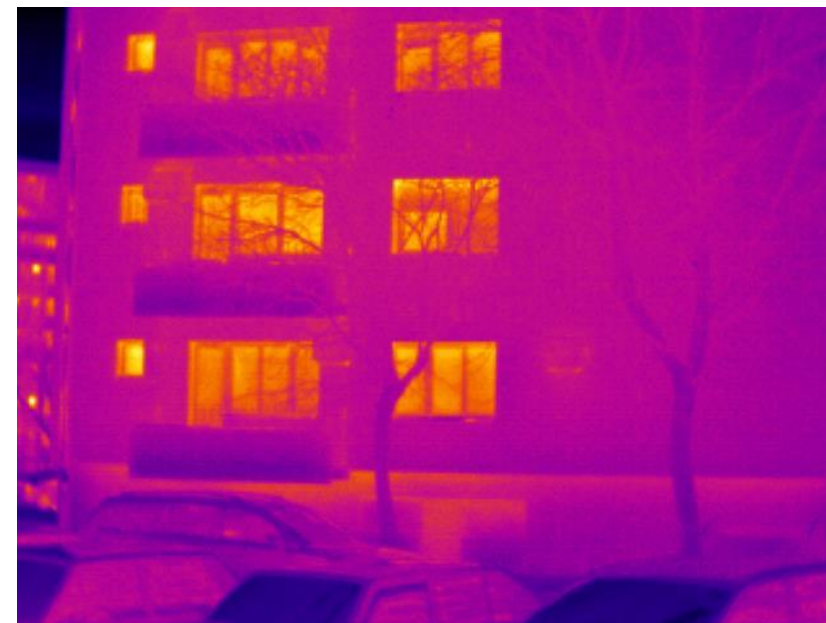
- Decreasing supply temperature in DH grid is not possible sometimes.



**Who is responsible for this?**



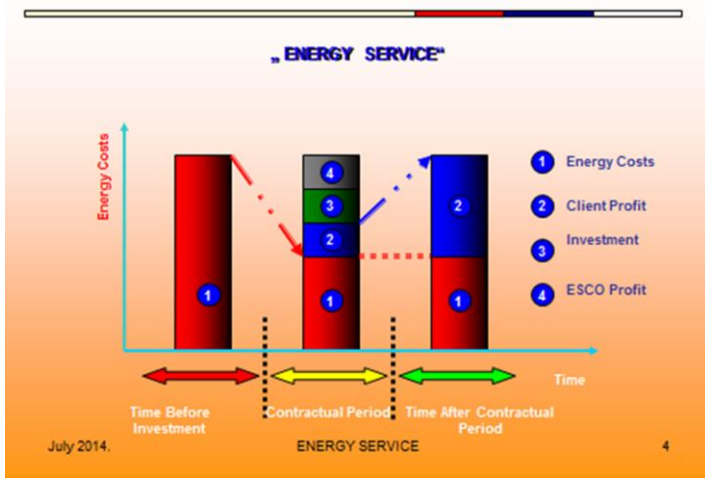
**Before renovation**



**After renovation**



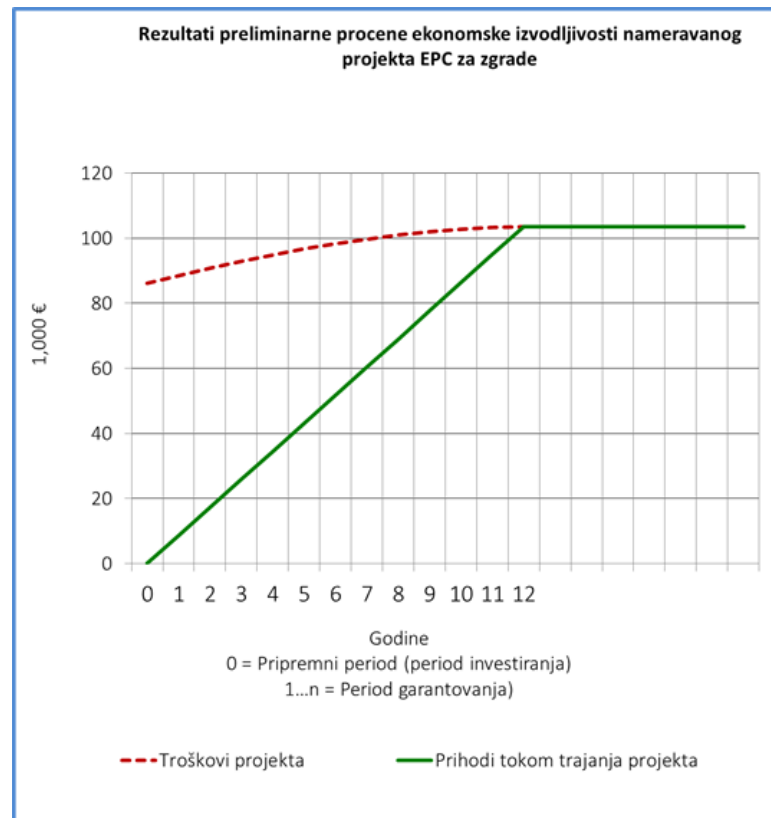
## POLICY AND PLANNING SOLUTIONS IN ŠABAC



DH Company plays ESCO role

Why?

Because our customers are not visible to the financial institutions.

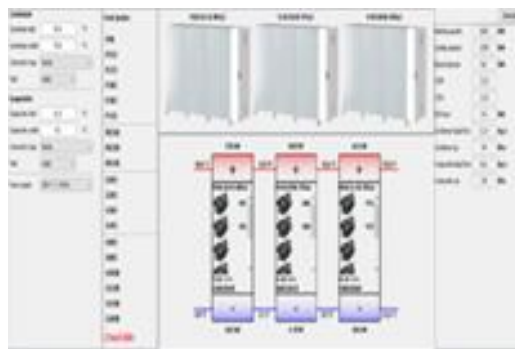


- DH Company „Toplana-Šabac“ borrowed 2.5 MEUR for the financing of thermal insulation of 40 buildings that have been connected to DH grid.
- Average consumption measured at substations in 2019. amounted 99 kWh/m<sup>2</sup> a
- At the national level, it was higher.

What are the next steps?

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

To become more attractive for citizens.





## POLICY AND PLANNING SOLUTIONS IN ŠABAC



Negotiation with citizens in suburban settlements to develop small DH's systems that use RES

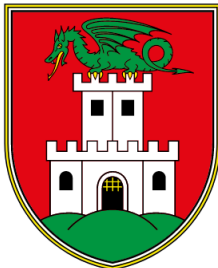
The financing model is different.

The city's energy policy created ambient which provides possibilities for the local community to apply some kind of split financing.

# SUPPORTIVE FRAMEWORKS DRIVING DECARBONISATION THROUGH A SWITCH TO RES-DH



**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

# POLICY AND PLANNING SOLUTIONS IN SLOVENIA/LJUBLJANA

- Natural gas – complementary system

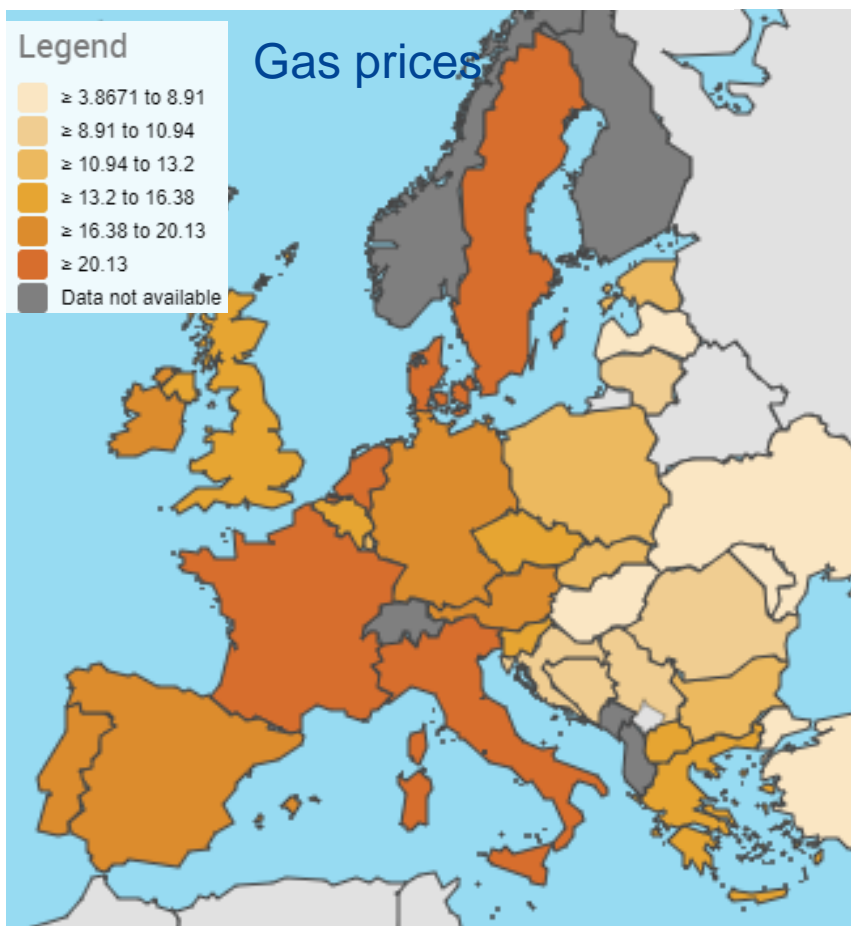




# SUPPORTIVE FRAMEWORKS DRIVING DECARBONISATION THROUGH A SWITCH TO RES-DH



**Gundars Pētersons,**  
Fortum Jelgava Ltd.



- 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

# SUPPORTIVE FRAMEWORKS DRIVING DECARBONISATION THROUGH A SWITCH TO RES-DH



**Matteo Pozzi,**  
Optit S.r.l.



## 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



IL FUTURO DEL **TELERISCALDAMENTO** IN ITALIA  
2 ottobre 2020

**Programma**

<p><b>MODERA</b> <b>Celestina Dominelli</b>, Il Sole 24 Ore</p> <p>10.00 Video di apertura</p> <p>10.05 Saluti iniziali <b>Giordano Oleario</b>, Direttore Generale Utilitalia</p> <p>10.10 Scopo dello studio sul potenziale del teleriscaldamento in Italia <b>Lorenzo Spadoni</b>, Presidente AIRU</p> <p>10.20 Il potenziale di sviluppo del teleriscaldamento in Italia: risultato dello studio congiunto del Politecnico di Milano e del Politecnico di Torino <b>Alise Dénarié</b>, PhD Dipartimento di energia Politecnico di Milano <b>Fabrizio Fattori</b>, PhD Dipartimento di energia Politecnico di Milano <b>Vittorio Verda</b>, Ordinario di Fisica tecnica Politecnico di Torino</p> <p>11.00 Rinnovamento e miglioramento delle reti esistenti: il progetto europeo Upgrade DH <b>Matteo Pozzi</b>, General Manager OPTIT</p>	<p>11.20 <b>TAVOLA ROTONDA</b> Il teleriscaldamento all'interno dei processi di trasformazione del mercato e di transizione energetica. Ne parlano: <b>Stefano Segla</b>, Componente del Collegio ARERA <b>Chiara Braga</b>, Deputata PD, Commissione Ambiente <b>Luca Squeri</b>, Deputato Forza Italia, Commissione Attività produttive <b>Alessandro Provaggi</b>, Euroheat &amp; Power, Head of DHC+ Technology Platform</p> <p>12.00 <b>TAVOLA ROTONDA</b> Le azioni possibili nel contesto italiano Ne parlano: <b>Alessia Morani</b>, Sottosegretario di Stato per lo Sviluppo economico <b>Luca Barberis</b>, Direttore Dir. Efficienza Energetica e Promozione dello Sviluppo Sostenibile GSE <b>Monica Tommasi</b>, Presidente Amici della Terra <b>Luca Cristigiovanni</b>, Segretario generale Altroconsumo <b>Lorenzo Spadoni</b>, Presidente AIRU</p> <p>12.40 RISPOSTE ALLA CHAT LIVE E CHIUSURA DEI LAVORI</p>
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- 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