



Keeping our cities sustainably warm

Inspiring the Efficient Renewal of
District Heating for the Just
Transition

Thursday 12 November, 2020



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KeepWarm makes modernising your district heating feasible.

KeepWarm prioritises a step-by-step approach to renovate your district heating system (DHS) in the way, which is most suitable to your context:

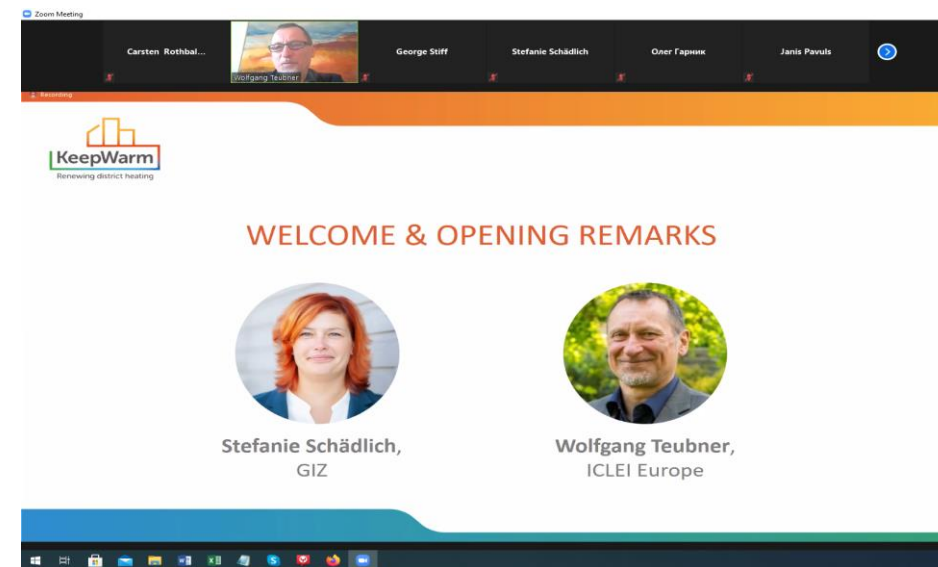
1 Retrofit and optimise DHS networks to increase your grid efficiency

2 Accelerate the use of nearby renewable energy in heat production

3 Integrate sustainable excess heat from industrial processes and commercial facilities

4 Use acceptable waste-to-energy solutions in line with waste-reduction strategies

5 Deploy smart heat distribution and control systems for a more effective management



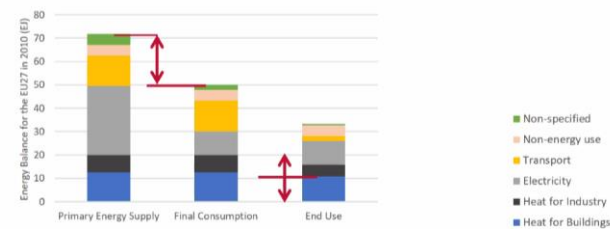


Unit Investment Costs for Energy Storage

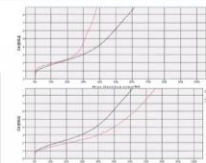
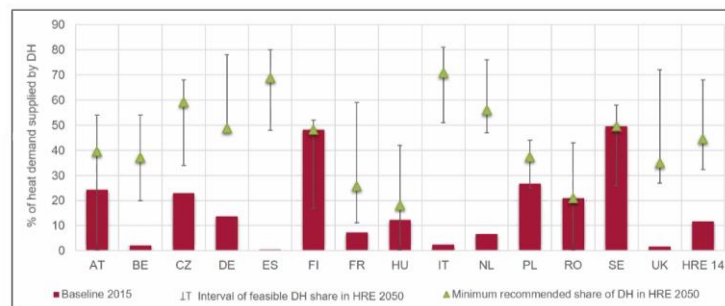
1. Thermal Cheaper at All Scales



There is more excess heat in Europe than all of the heat demand in buildings





Recomended district heating levels in Europe




Panel discussion:
ACCELERATING A THERMAL TRANSITION IN STEP WITH THE GREEN RECOVERY


Moderator


 Roman Mendle,
ICLEI Europe


 Julije Domac,
REGEA

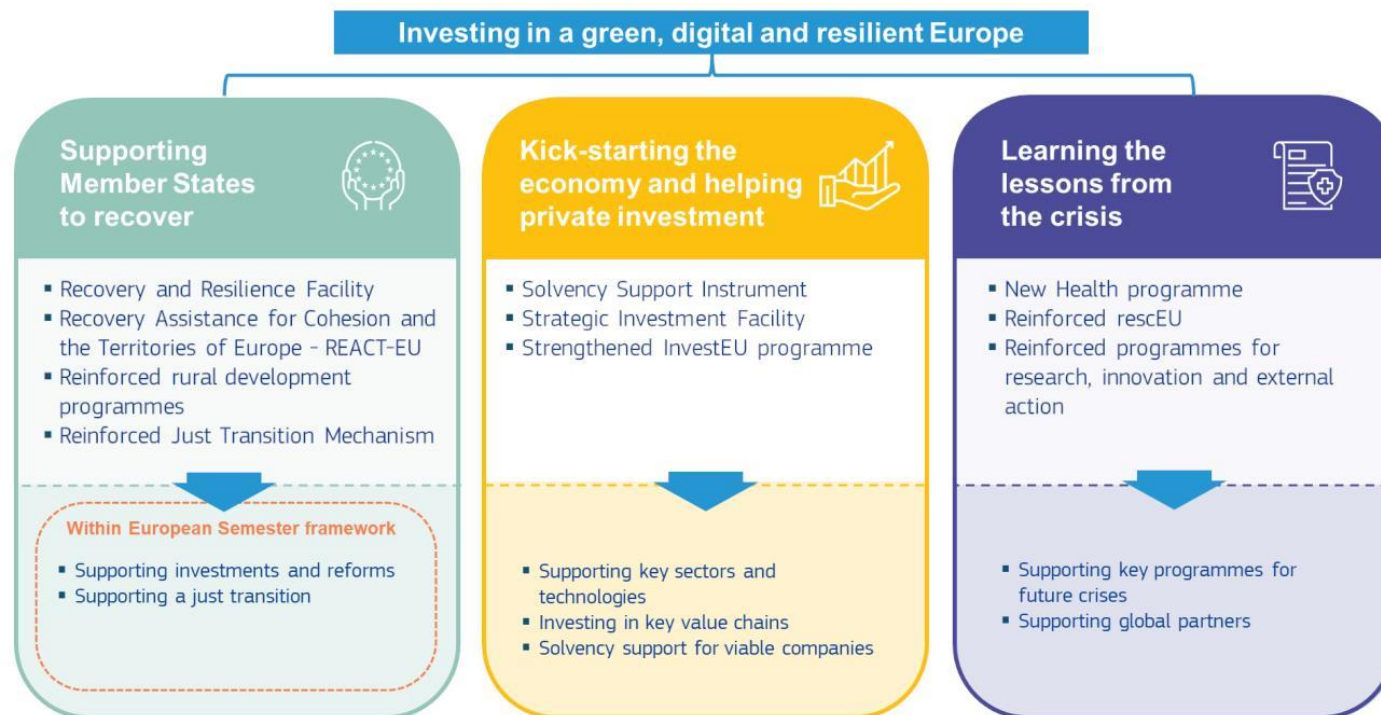

 Jutta Paulus,
European
Parliament


 Christoph
Pfemeter,
Bioenergy Europe


 Paul Voss,
Euroheat & Power



EU budget powering recovery



Source: European Commission



SUSTAINABLE DISTRICT HEATING'S CONTRIBUTION TO THE TRANSITION

Panel discussion:

Moderator

Giorgia Rambelli, ICLEI Europe

Kostiantyn Krynytskyi, NGO Ecoaction

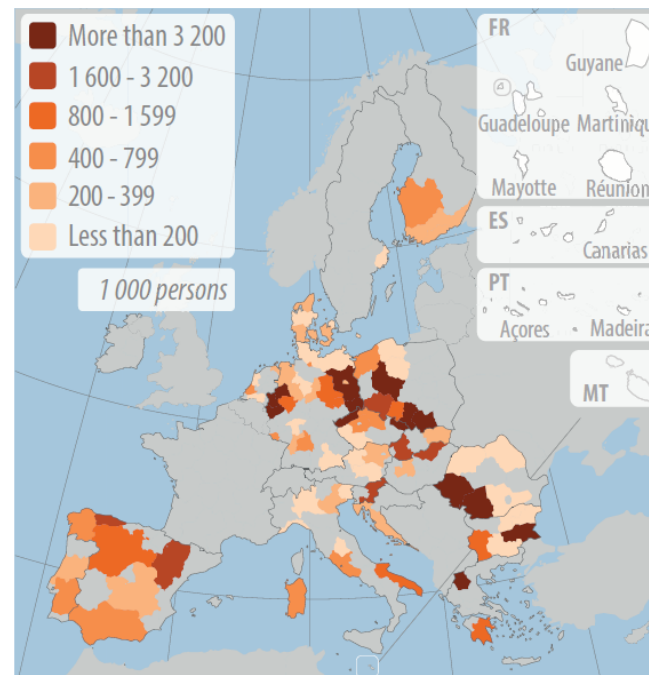
Edo Omić, CEB

Patrik Pizinger, City of Chodov

Daniel... of...

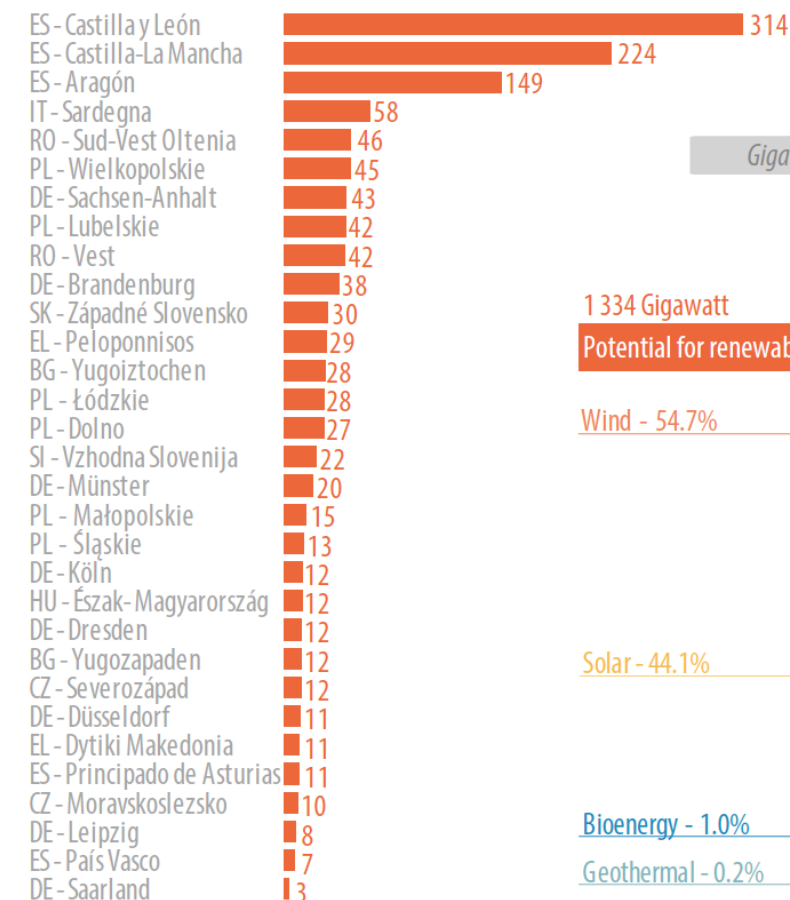
Carlton Roth...
Edo Omić
Giorgia Rambelli
Patrik Pizinger
Daniel...
Jure Ciman

Direct employment in coal mines and coal-fired power plants (2018, 1 000 persons)



The map on this page shows the number of direct jobs associated with coal mining and coal-fired power generation in the EU-27 NUTS2 regions. Almost half of the employment is located in Poland, with the vast majority in the mining sector (mostly in the Śląskie region).

Potential for renewable energy in selected coal regions Gigawatt



1 334 Gigawatt
Potential for renewable energy

Wind - 54.7%

Solar - 44.1%

Bioenergy - 1.0%

Geothermal - 0.2%

SUPPORTIVE FRAMEWORKS DRIVING DECARBONISATION THROUGH A SWITCH TO RES-DH



JKP Toplana-
Šabac, Serbia



City of Ljubljana,
Slovenia



Fortum Jelgava
Ltd., Latvia

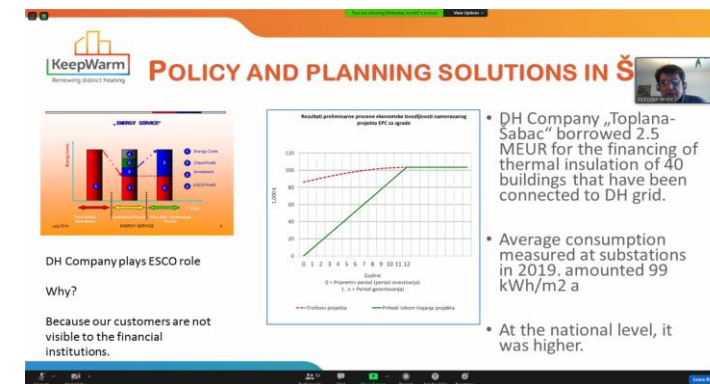


Optit S.r.l.,
Italy

KeepWarm



Signe Mārtiņkrista,
ZREA



SUPPORTIVE FRAMEWORKS DRIVING DECARBONISATION THROUGH A SWITCH TO RES-DH



Moderator



Jure Čizman,
Jožef Stefan
Institute



Slobodan Jerotić,
JKP Toplana Šabac



Alenka Loose,
City of Ljubljana



Gundars Pētersons,
Fortum Jelgava Ltd.



Matteo Pozzi,
Optit S.r.l.



LOCAL ASPECTS, CHALLENGES AND POLICY SOLUTIONS FOR ENERGY EFFICIENCY IN DH SYSTEMS



Latvian DH
Association



Lithuanian DH
Association



JP Elektroprivreda BiH d.d.,
Bosnia and Herzegovina



AALBORG UNIVERSITY
Aalborg University,
Denmark

Upgrade DH



Aksana Krasatsenka,
Euroheat & Power

BUT CHANGE IS POSSIBLE!

- Co-benefits are also driving for action
 - Transition of other energy sectors
 - Noise pollution, indoor air quality
 - Energy poverty and social responsibility
- Development of methodologies and instruments at different governance levels
 - Methodologies and assessments
 - Local approaches can be used to combine actions
 - But infrastructure development is still hard!



LOCAL ASPECTS, CHALLENGES AND POLICY SOLUTIONS FOR ENERGY EFFICIENCY IN DH SYSTEMS



Moderator



Dominik Rutz,
WIP Renewable
Energies



Ina Bērziņa-Veita,
Latvian District
Heating Association



Valdas Lukoševičius,
Lithuanian District
Heating Association



Ajla Merzić,
JP Elektroprivreda
BiH d.d.



Susana
Paardekooper,
Aalborg University

A ROADMAP FOR DH WHICH KEEPS THE EU'S DEAL BOTH GREEN & WARM



Martin Hájek,
Association for District Heating of the Czech
Republic

Lessons learned - policy level

For transformation/development of DH you need:

1. Clear vision of DH systems role in overall energy system / decarbonization effort
2. Transformation plan for DH outlining costs, benefits, solutions on national and regional level
3. Level playing field = uniform cost of carbon for DH and local heating solutions
4. Proper incentives for DH refurbishment/development
5. Open dialogue with stakeholders / public support



FINANCING INSTRUMENTS TO DEPLOY MODERN DISTRICT HEATING ACROSS EUROPE

Moderator



Wolfgang Teubner,
ICLEI Europe



Leszek Drogosz,
City of Warsaw



Greg Gebrail,
European Bank of
Reconstruction &
Development



Eva Hoos,
DG ENERGY



Tilo Kurtz,
Ministry of Environment,
Climate Protection &
Energy; B-W



Peter Berkowitz,
DG REGIO

