



JASPERS support to DH projects

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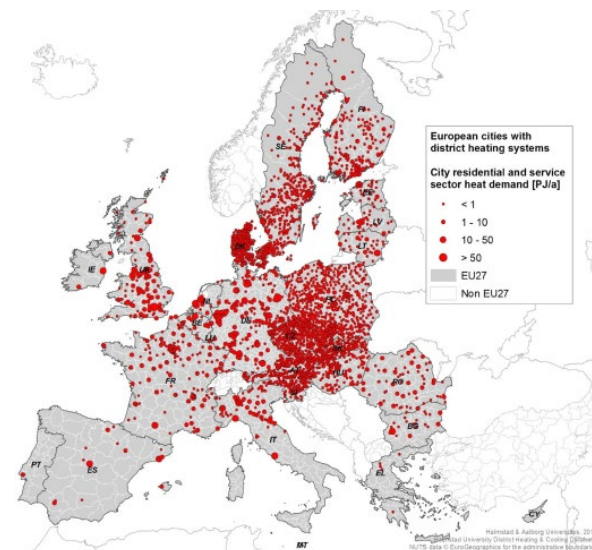
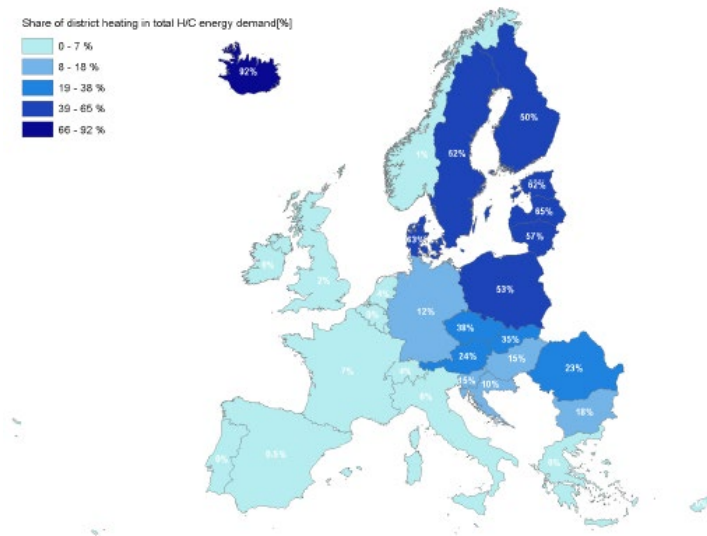
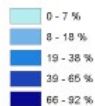
European Investment Bank

22 January 2024

District Heating in the EU

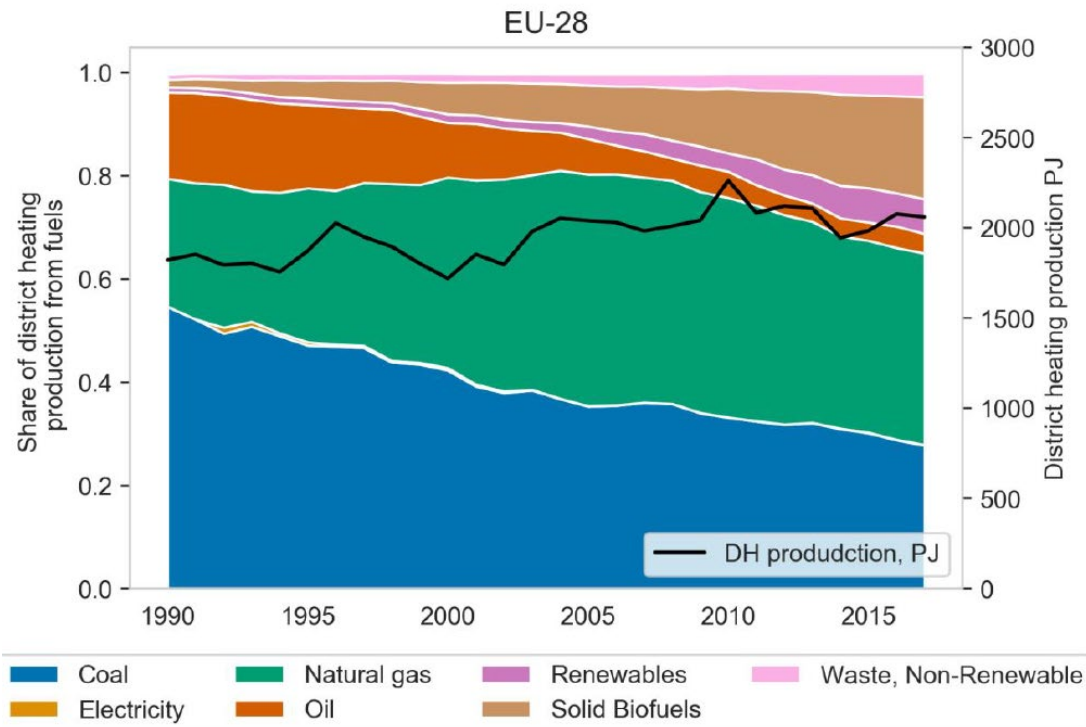
- There are some 10,000 DH systems in the EU with 150,000 km of network and an installed capacity of some 247 GWth, serving 70 million citizens.
- The total energy supplied by DH amounts to 580 TWh.
- District heating provides 9% of heating in the residential sector, 10% in the service sector and 8% of industry's heat needs.

Share of district heating in total HC energy demand[%]



District Heating in the EU

























- At EU level, the main fuel used in DH is natural gas (40%), followed by coal (29%), biomass (16%), RE waste (5%), non-RE waste (4%), fuel oil (3%), other fossil fuels (2%), electricity (1%) and other RE.
- The total GHG emissions from the DH sector may be estimated at around 160 Mt_{CO2}. This corresponds to approximately 5% of total GHG emissions associated with energy consumption in the EU.



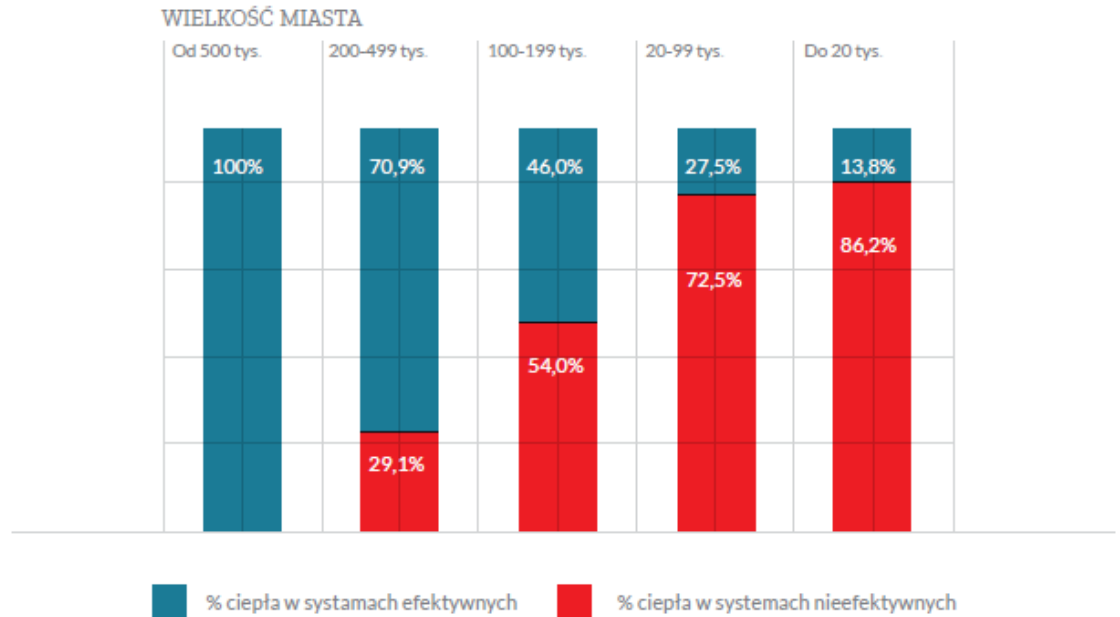
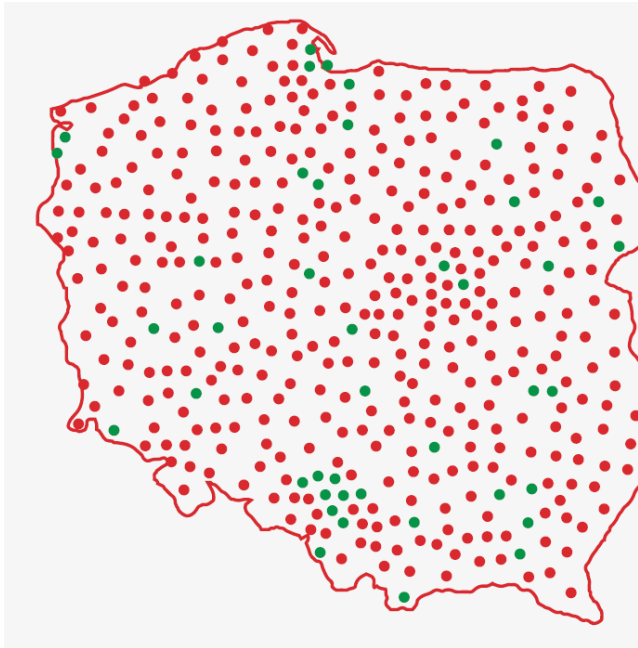
EU policy

- EU Green Deal and Fit for 55.
- EE directive.
- EPBD.
- RE directive.
- ETS directive.

EU policy

Energy sources to achieve EDHC criteria	Renewable energy	Waste heat	Renewable energy and waste heat	Combined supply from renewables, waste heat and (high-efficiency) cogeneration	(High-efficiency) cogeneration
Periods					
Until 31.12.2027					
1.1.2028 - 31.12.2034					
1.1.2035 - 31.12.2039					
1.1.2040 - 31.12.2044					
1.1.2045 - 31.12.2049					
After 1.1.2050					
<p>Notes:</p> <p>(1) Only high-efficiency cogeneration can be counted towards the threshold. At least 5 % of the heating and cooling supply going into the network should be from renewable energy.</p> <p>(2) Only high-efficiency cogeneration can be counted towards the threshold.</p> <p>(3) Only high-efficiency cogeneration can be counted towards the threshold. At least 35 % of the heating and cooling supply going into the network should be from renewable energy or waste heat.</p>					

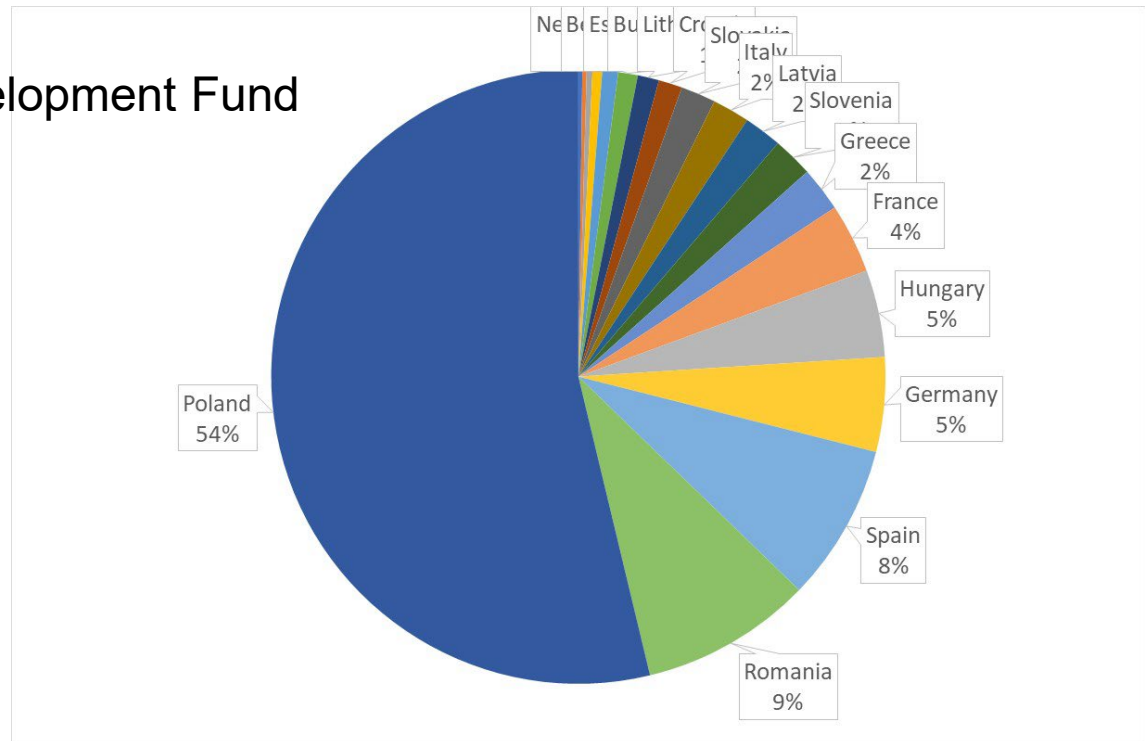
EU policy



Transformation cost estimated at well over EUR 100 bn till 2050.

EU funding available

- Recovery and Resilience Facility
- Modernisation Fund
- Cohesion Policy (EUR 2.4 bn):
 - Cohesion Fund,
 - European Regional Development Fund
 - Just Transition Fund

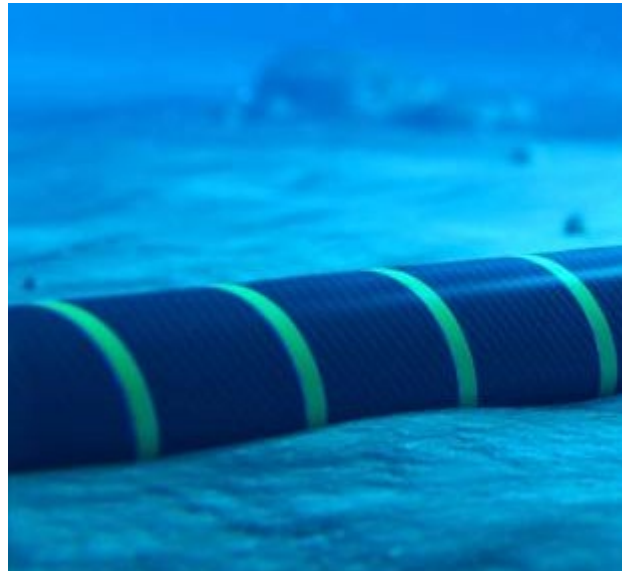


About JASPERS

- Joint Assistance Support for Projects in European Regions.
- Partnership between the EC and EIB.
- Mandate: CF, ERDF, JTF.
- Support to prepare projects:
 - Supports absorption of EU funds
 - Accelerates grant approval
 - Facilitates financial close
- Expert TA – support provided by EIB staff or consultants hired by EIB.
- Free of charge for the beneficiaries.
- Active in 27 MS and 10 Accession Countries.
- Available locally across 5 offices.
- Over 30 ongoing assignments.

JASPERS energy – areas supported

- District heating,
- Energy efficiency including EPC,
- Renewable energy,
- Smart grid infrastructure including storage,
- R&D, clean gases, including hydrogen,
- JTF.

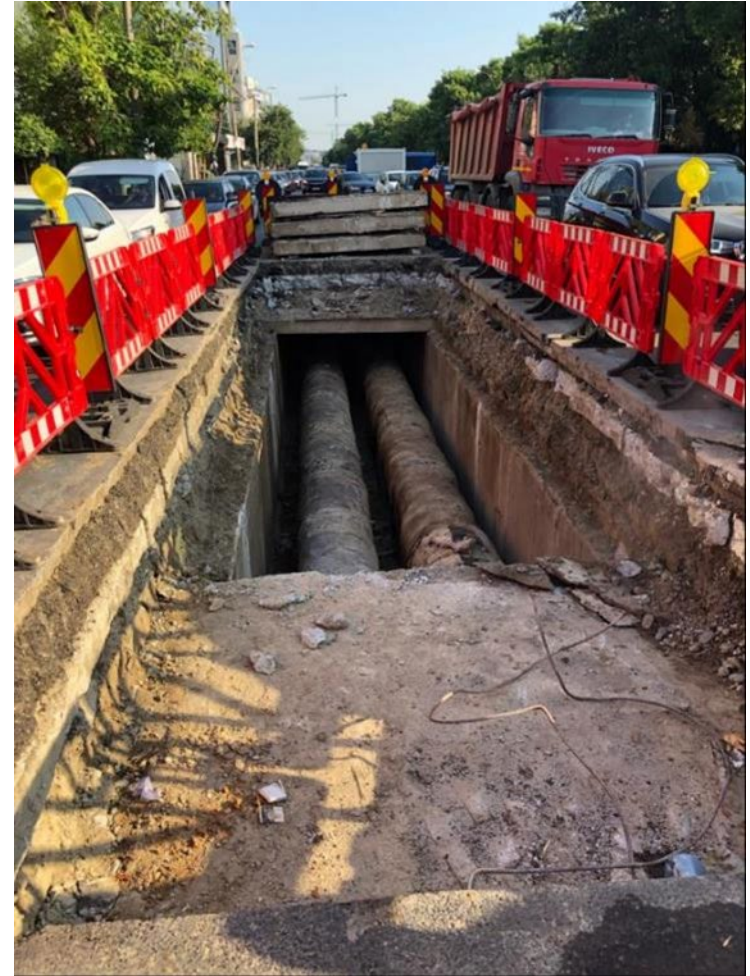


JASPERS – administrative arrangements

- JASPERS **Country Work Programme** to be prepared jointly with Member State and EC to identify short- and medium-term advisory needs in support of cohesion-policy project preparation activities
- JASPERS advice is delivered in the context of specific “assignments”. The scope of JASPERS assignments is agreed with the relevant Managing Authority in an **Assignment fiche**, to be approved by the EC
- JASPERS assistance is provided in good faith and with reasonable care and due diligence (*diligentia quam in suis*), drawing on the experience and business practices of its partners, the EC and the EIB.

JASPERS support to DH - experience

- Support in the preparation of funding application (AF, FS CBA, etc.):
 - Major Projects:
 - Zagreb,
 - Bucharest,
 - Non-major projects:
 - Romania: Iasi, Bacau, Focsani, Oradea, Ramnicu Valcea, Timisoara, Resita, Botosani,
 - Croatia: Split, Rijeka, Velika Gorica, Osijek, Slavonsky Brod, Karlovac.



JASPERS support to DH - experience

- Decarbonisation options analysis:
 - Novaky, Kosice (Slovakia),
 - Saleska Valley (Slovenia),
 - Brzeg, Krakow, Belchatow (Poland).



Summary

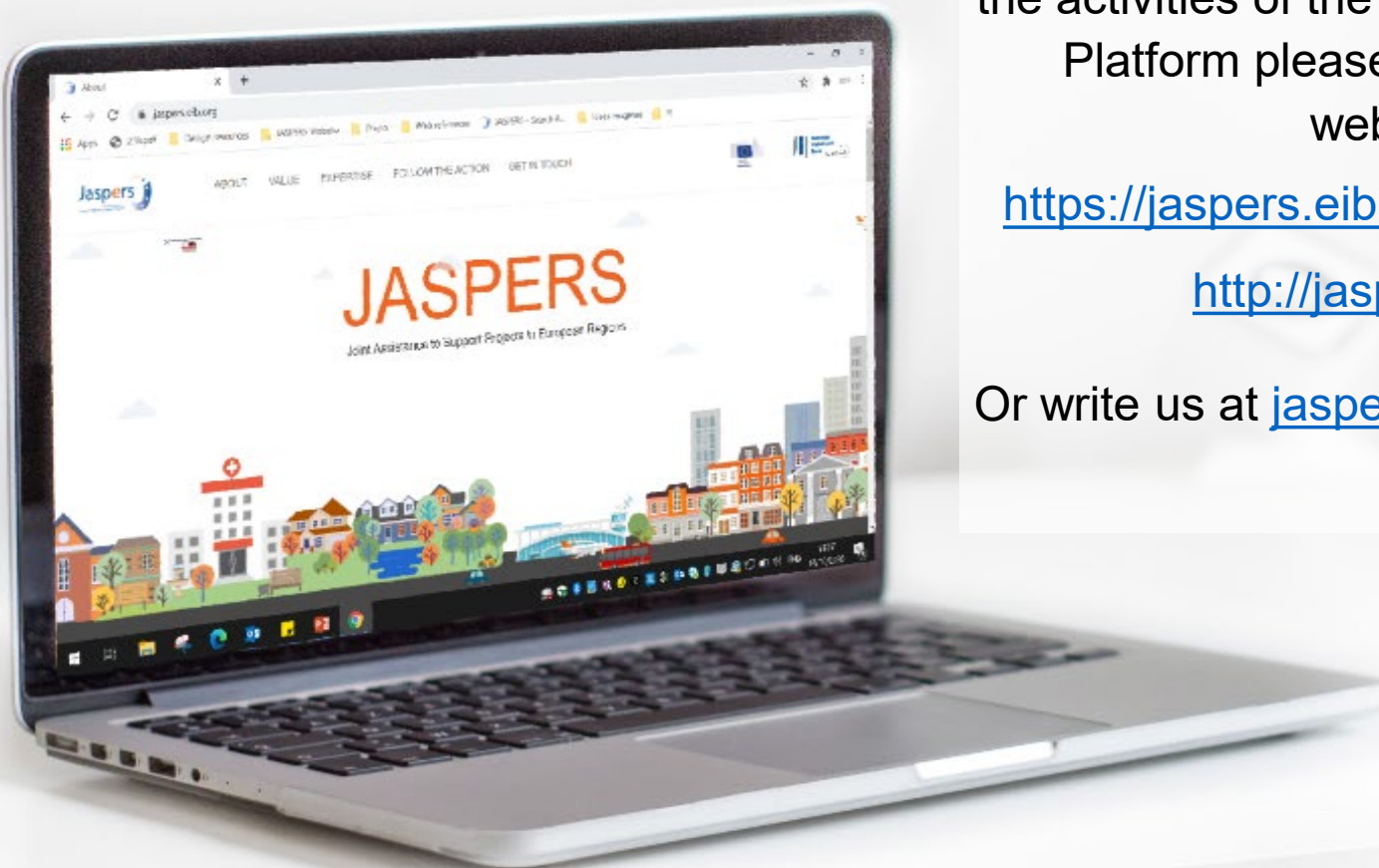
- Decarbonisation of DH will face a lot of challenges.
- JASPERS may help to overcome these challenges and notably help to mobilise EU co-financing.
- JASPERS support is free of charge.
- JASPERS support may be mobilised quickly with little administrative effort.
- We have considerable experience in DH across several countries.

Thank you for your attention

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For info on this webinar and details on the activities of the JASPERS Networking Platform please visit the following websites::

<https://jaspers.eib.org/knowledge/index>

<http://jaspers.eib.org/>

Or write us at jaspersnetwork@eib.org