

Keeping our cities sustainably warm

Inspiring the Efficient Renewal of
District Heating for the Just
Transition

Stefanie Schädlich, KeepWarm coordinator, GLZ

Thursday 12 November, 2020



This project is funded by the EU's Horizon 2020 research and innovation programme under grant agreement N°784966, and lasts from April 2018 to September 2020.

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

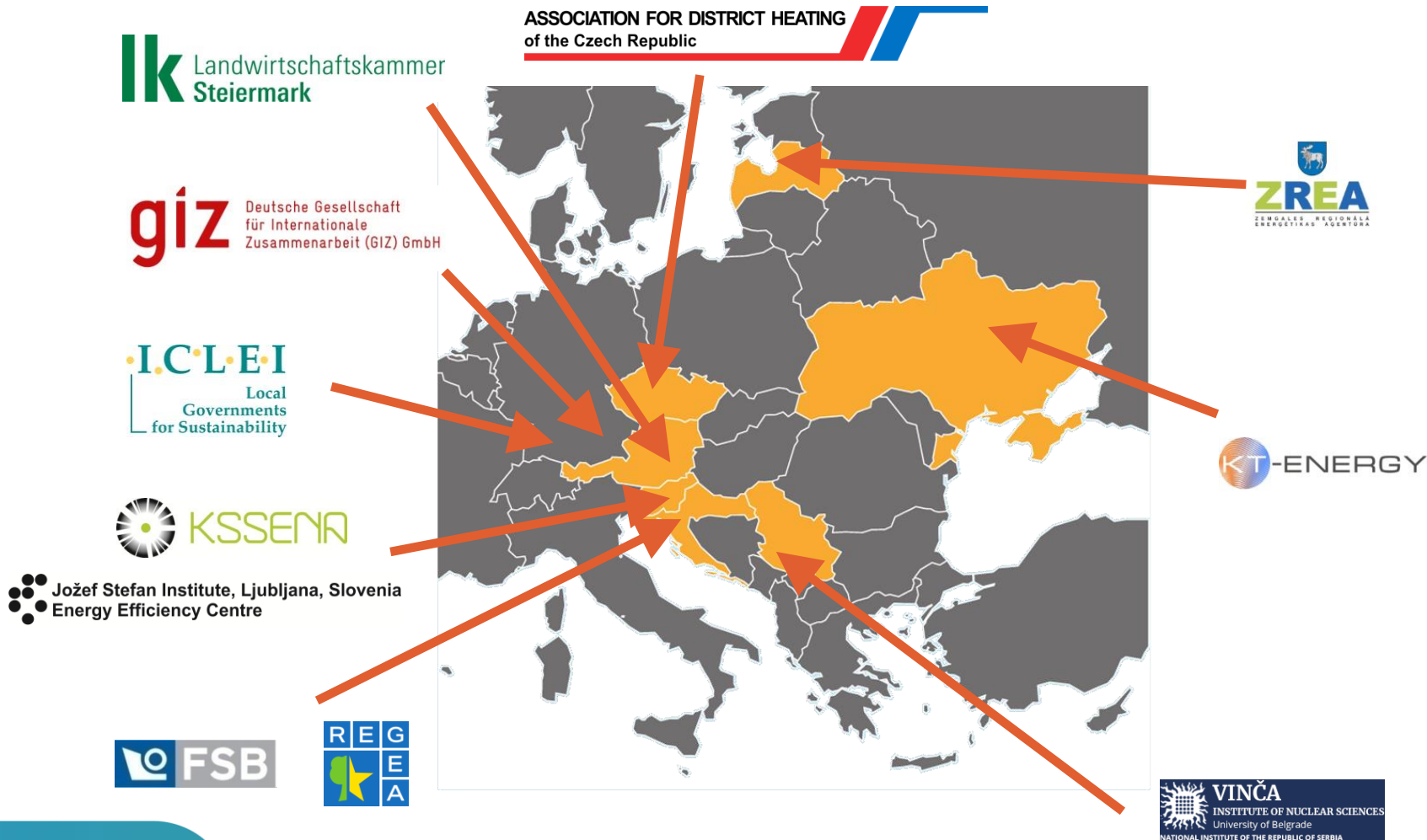


KeepWarm's project landscape

Project Goal

Project Duration: 04.18-12.20

- **Modernization** of inefficient district heating networks in seven European countries by improving **grid efficiency** and/ or introducing **renewable** energy sources
- Reduction of greenhouse gas **emissions** through grid improvements and inclusion of renewable energies
- Policy-work supporting district heating contributions to **climate and development strategies**





Main modernization and improvement actions

- Rebuild/ replace **boiler houses** (including from fossil fuels to renewables)
- **Grid** extension and optimisation
- Reconstruction of heat **pipelines**
- Connection of new **customers**
- Inclusion of **renewables** technologies (biomass and solar thermal)

Partner DHSs of KeepWarm

COUNTRY	NO. OF PILOT DHS	PILOT DHS´S
Austria	3	Ligist, Möderbrugg, Eibiswald
Croatia	3	Samobor, Velika Gorica, Zapresic, Zagreb
Czech Republic	3	Brno, Ceske Budejovice, Pisek
Latvia	3	Bene, Lielauce, Jekabpils
Slovenia	3	Ptuj, Velenje, Slovenj Gradec
Serbia	4	Nova Varos, Bajina Bašta, Priboj, Sabac
Ukraine	4	Khmelnyskyi, Zhytomyr, Bila Tserkva, Ternopil
Total	23	



Expertise – as a key to a greater performance



Increase the capacity of specialists working in DHS companies

Develop viable business plans

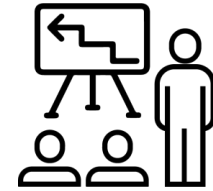


Mobilise funding for bankable pilot projects

Exhibit replicable DHS demo cases

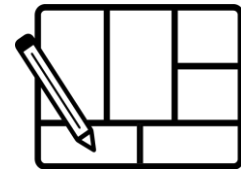


Facilitate the integration of retrofitting DHS into key strategies and plans



Increase the capacity of specialists working in DHS companies by offering **training workshops**

- Needs assessment with 52 DHS operators
- 813 trained persons/ specialists in 744hrs of training with the focus of
 - (1) **Technical** concerns,
 - (2) the utilisation of more **sustainable energy sources**
 - (3) **Organisational** capacity development,
 - (4) **Financial** concerns and
 - (5) **Managerial** improvements



Support them with the development of viable **business plans**

- 109 Specialists trained on **business plan** development
- **24 Business Models** developed for the modernization of DHS

Unlock investment potential of DHSs



Increase the capacity of specialists working in DHS companies

Develop viable business plans



Mobilise funding for bankable pilot projects

Exhibit replicable DHS demo cases



Facilitate the integration of retrofitting DHS into key strategies and plans



Advise them on how to **mobilise funding** for bankable pilot projects

- Development of **feasibility studies** based on business plans
- **Twinning** exchange for outside perspectives
- **Local Working groups** for support in regards to business plans, funding and monitoring of modernization progress

Country	Pilot DHSs	Triggered DHS investments until 12.2025
Austria	3	9,2 Mio €
Croatia	3	5+ Mio €
Czechia	3	222,9 Mio €
Latvia	3	0,665 Mio €
Slovenia	3	6,8 Mio €
Serbia	4	14,2 Mio €
Ukraine	4	29,8 Mio €

Facilitate DH retrofits and remove barriers



Increase the capacity of specialists working in DHS companies

Develop viable business plans



Mobilise funding for bankable pilot projects

Exhibit replicable DHS demo cases



Facilitate the integration of retrofitting DHS into key strategies and plans



Exhibit replicable DHS **demo cases**

- **Showroom** portfolio of all KeepWarm pilot DHSs, their plans and national contexts
- Twinning 16 DHSs to increase **exchange among peers**
- National and International **Inspire Events**
- **Guidance Booklet** to support the integration/switch of DH to renewables and excess heat
- **10 Replication models** to inspire practical DHS retrofitting



Facilitate the multi-level integration of DHS retrofits into key **strategies and plans**

- Assess existing **regulations** and review **barriers**
- **National Action plans** for retrofitting – recommendations
- **Comprehensive Assessment** recommendations
- Influence on **local to national strategies** (e.g. SECAPs, NECPs, funding instruments) to duly prioritise DH retrofits

Thank you very much for your attention!

www.KeepWarmEurope.eu

[Twitter](#)



This project is funded by the EU's Horizon 2020 research and innovation programme under grant agreement N°784966, and lasts from April 2018 – September 2020.

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

