



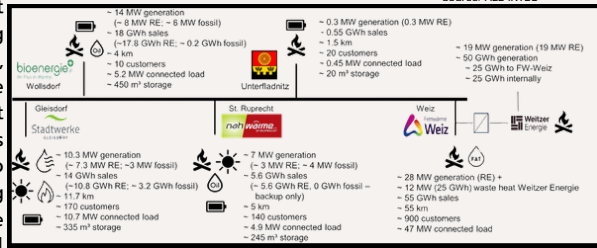
Weiz-Gleisdorf

Austria



Challenges

The Weiz-Gleisdorf pilot case aims to connect five currently independent district heating systems, in Weiz, St. Ruprecht, Unterfladnitz, Wollsdorf, and Gleisdorf. The idea is to create one inter-municipal heating network that combines the individual networks and allows sharing the heat supply and heat demand. To realise this feature, relevant upgrading measures will be needed to ensure the standardisation of the networks' operation and flexibility in the heat sources feeding the systems. Furthermore, robust hydraulic interconnections and new heat generation facilities will be required. The aim is to ensure efficiency and sustainability of the network, while successfully integrating further renewable energy and waste heat sources.



DH networks in the Weiz-Gleisdorf axis
Data basis: 2023
Source: AEE INTEC

Key facts

- Population: 30.169
- Network size: 77.2km
- Customers served: 1.200
- Heat produced: 93.2 GWh/year
- Total heat sold: 107.6 GWh/year
- Supply/return temp.: 105-80°C/50-60°C

enabledhc.ambienteitalia.it

Opportunities

The combination of the five networks is challenging, but also brings substantial opportunities. Together, the network operators can invest in thermal storage facilities and the use of renewable sources like deep geothermal, solar thermal systems, and waste heat from wastewater and industrial processes. AEE INTEC is the ENABLE DHC partner tasked with analysing the current scenario and supporting the DHC operators and municipalities in developing an investment plan to integrate the networks, add thermal storages, phase out fossil fuels, and expand the network to new individual and industrial consumers. Current studies project the system to achieve an installed generation capacity of 100 MWth, entirely composed of renewable sources.

Co-funded by the European Union

Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

