



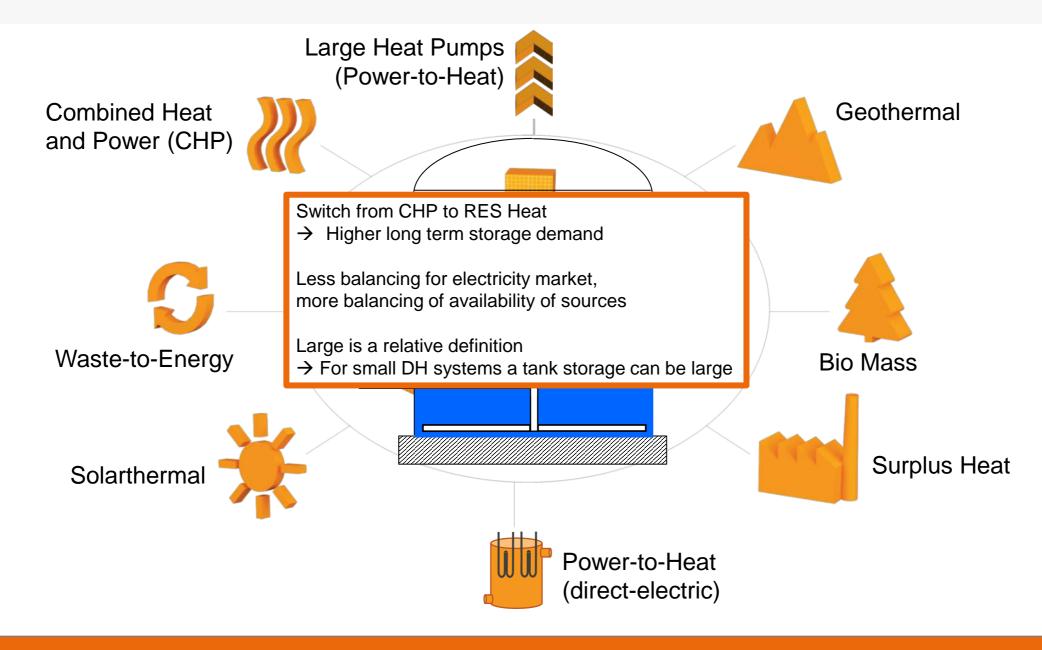




- » AGFW is an independent, impartial German association promoting energy efficiency, (district) heating, cooling and CHP – Combined Heat and Power – at national and international levels
- » AGFW comprises more than 600 regional und municipal energy suppliers, consultants, experts manufacturing companies including component and system manufacturers, assembling companies and testing institutes within Germany and Europe
- AGFW represents approx. 95 % of the heat load connected to German district heating systems – the largest scale in Western Europe
- AGFW with over five decades of expertise in the district heating sector covers the entire process chain of efficient district heating, district cooling and CHP



The Role and Significance of Heat Storages in DH Systems



» DH in Germany mainly situated in large cities

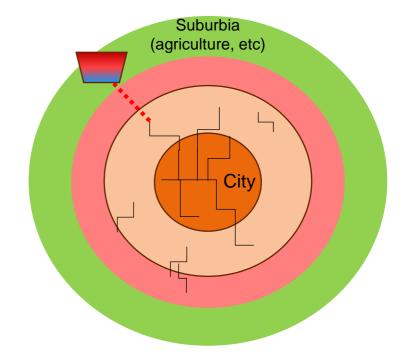
• Different situation as in Denmark

Areas with high

- specific heat demand
- property prices

Transport pipes might be an opportunity

- acceptable property prices, but
- high costs for piping
- difficult thermohydraulics
- no feasible customers







Promising Concepts and Projects

» No need to copy Denmark's small DH systems

different circumstances (political, geologically, etc.)

Different but fitting concepts for Germany's DH systems

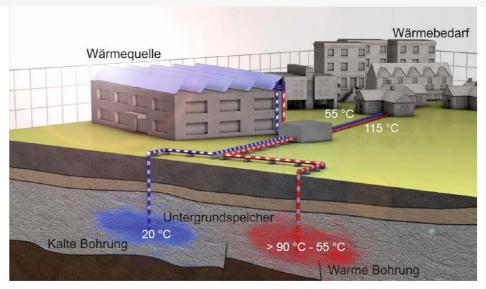
- Aquifer storages in Berlin (planned, > 20 GWh, BTB)
- Aquifer storage in Hamburg (in construction, 5 GWh, Hamburger EnergieWerke)
- Borehole storages (37,500 m³, Stw. Crailsheim)

» Aquifer storages

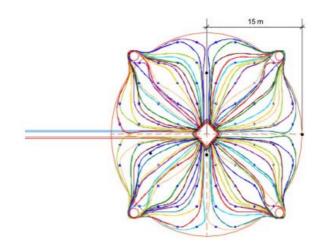
- low demand in terms of area
- High investment costs
- Need for specific geological circumstances

» Borehole storages

- High demand in terms of area
- Construction under e.g. solarthermal collectors



Quelle: GFZ





Source: Stw. Crailsheim



fernwärme orein ins haus.

denn sie ist stubenrein und hilft, CO₂ zu vermeiden.

Any more questions?

www.fernwaerme-info.eu





