District heating in Odense - Denmark

Visit from USA @ Fjernvarme Fyn Palle Grandahl, Team manager – Asset Management and Analysis

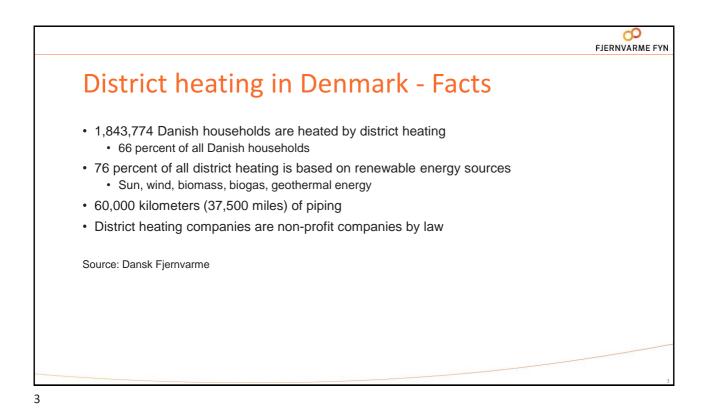


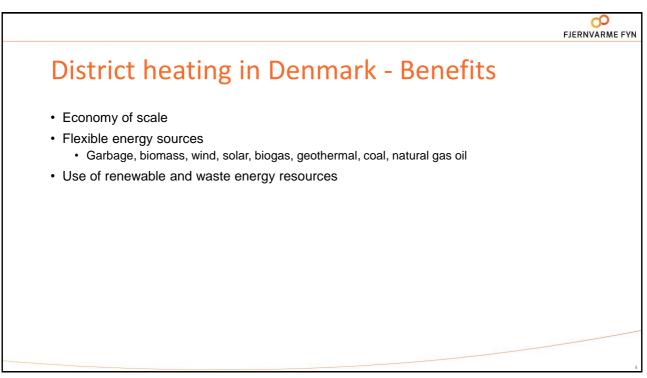
Topics

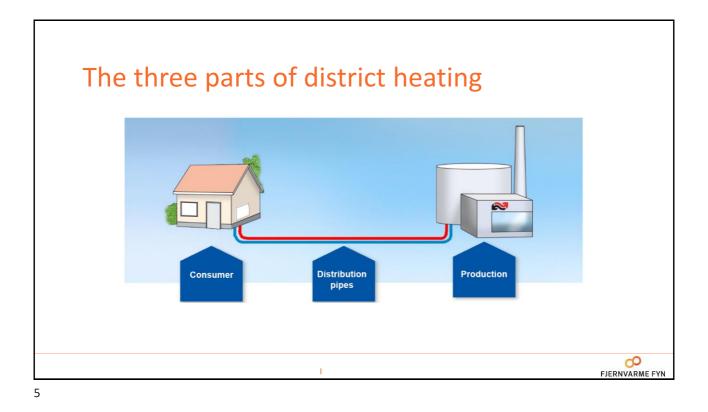
- 1. Introduction to district heating in general
- 2. District heating in Odense / Fjernvarme Fyn
- 3. Discussion

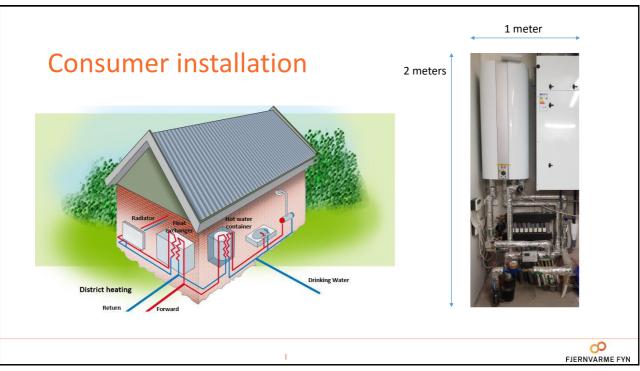
Tour: Fjernvarme Fyn waste heat recovery plant at Meta data center

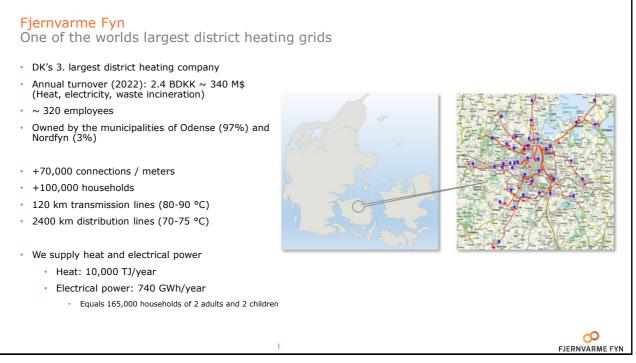
4. Heat recovery from Meta data center / guided tour

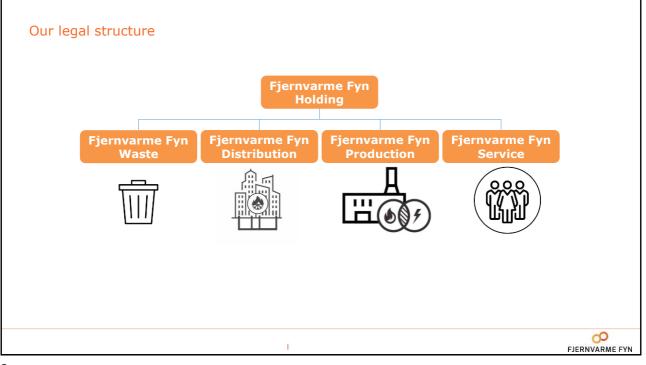














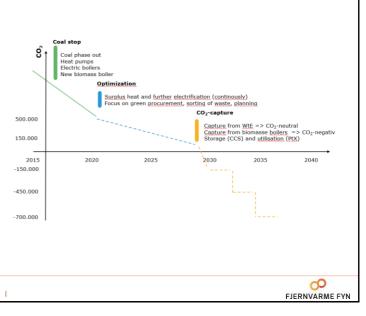
Carbon neutral district heating by 2030

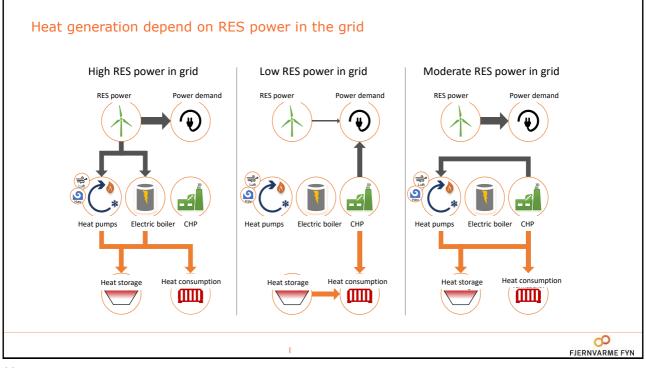
Target

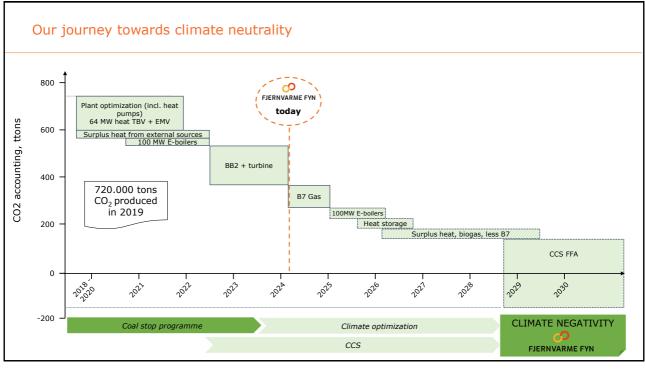
- An essential part of Fjernvarme Fyn's strategy is to be supplier of carbon neutral district heating at the latest by 2030
- The municipality of Odense is aiming for climate neutrality by 2030
- Carbon footprint has been significantly reduced over the last decade
- Remaining steps to achieve our goal of carbon neutrality are:
 - Unit 7 to be closed or converted to biogas by 2030
 - Carbon Capture on Waste-to-Energy CHP by 2029

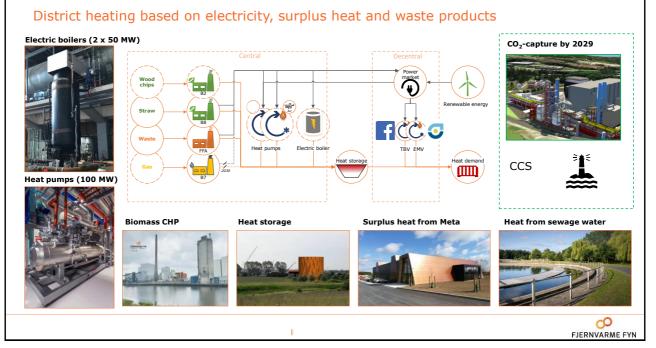
Vision

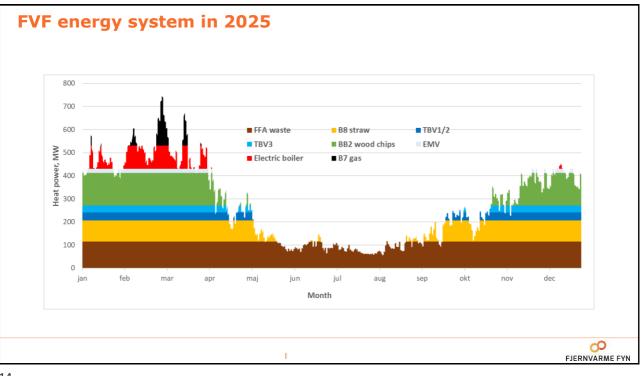
- Negative emitter of CO2
- Carbon Capture on one or both biomass CHP



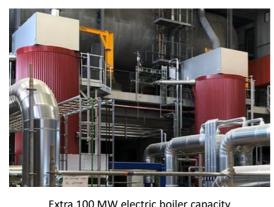








The future



Extra 100 MW electric boiler capacity



Pit heat storage (700.000 m³ - 1.000.000 m³), 150 MW



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