



Working with industry: From the point of view of a danish district heat utility

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Agenda

- About Fjernvarme Fyn (“District heat Funen”)
- Collaboration with industry
- Case: Carbon capture and storage-project
- Case: Surplus heat project with META
- Questions



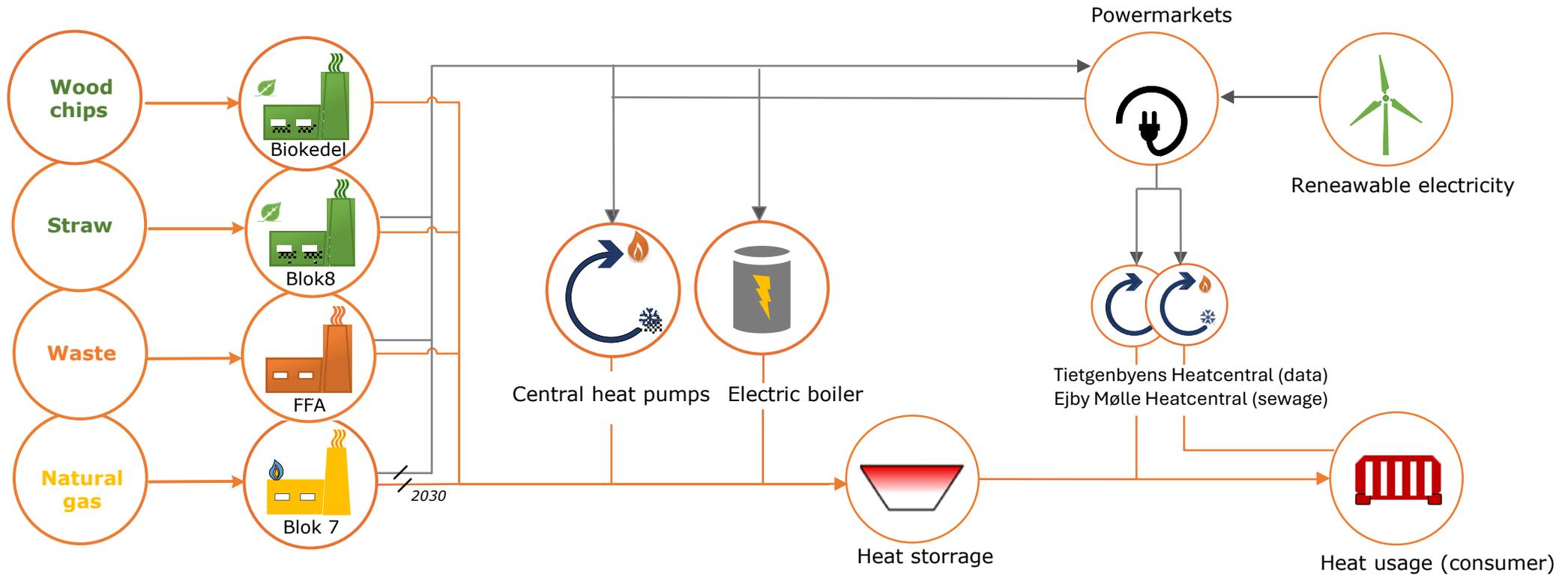
About Fjernvarme Fyn

- Fjernvarme Fyn is a district heat utility who employs around 400 people.
- Owned by Odense Municipality (97 pct.) and Northfunen Municipality (3 pct.).
- Odense is the third largest city in Denmark with 185k inhabitants.
- Covers 97 pct. of the heat demand in Odense, driven by homes, business and industry.
- Wide portefolio of heat and power production: waste-to-energy, biomass, gas, electricity and surplus heat.



Flexible production

Overview of Fjernvarme Fyns heat and power production portfolio



Collaborations with Industry

- Fjernvarme Fyn has a long history of working close with Industry
- In recent year, the collaboration has focused on:

Surplus heat

- 10-15 projects
- Large and small project
- Some only include simple heat exchangers
- Some include new heat centrals with dedicated heat pumps (META-project)

Carbon capture, utilization and storage (CCUS)

- First project with Fortum was aimed to use captured CO₂ in PtX
- Due to Danish aid schemes and regulation the focus have since shifted towards Carbon capture and storage (CCS)



Collaborations with Industry

- A public owned district heat utility have a different business model compared to private companies

District heat utility

- Long term planning
- No dividends
- Focus on low heating costs
- Ownership policies: climate, reduce social dumping

Industry

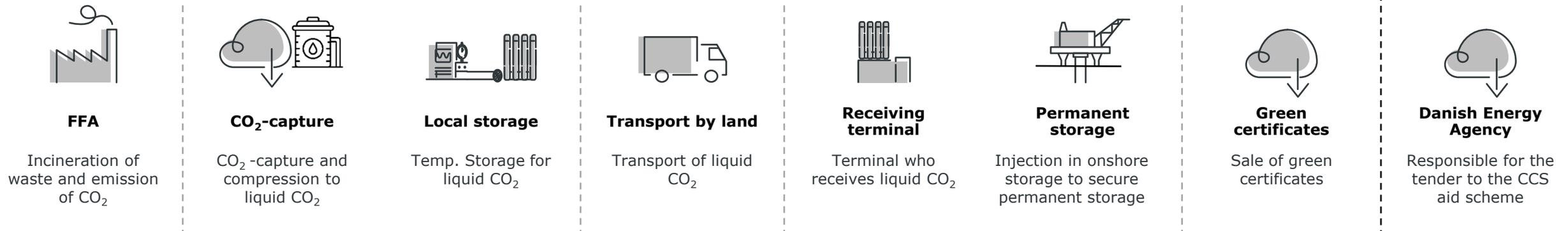
- Short/long term planning
- Profit maximization



Case: Carbon capture and storage

The CCS project requires intensive collaboration with industry across the value chain

Value chain for the CCS-project



Owner and operator

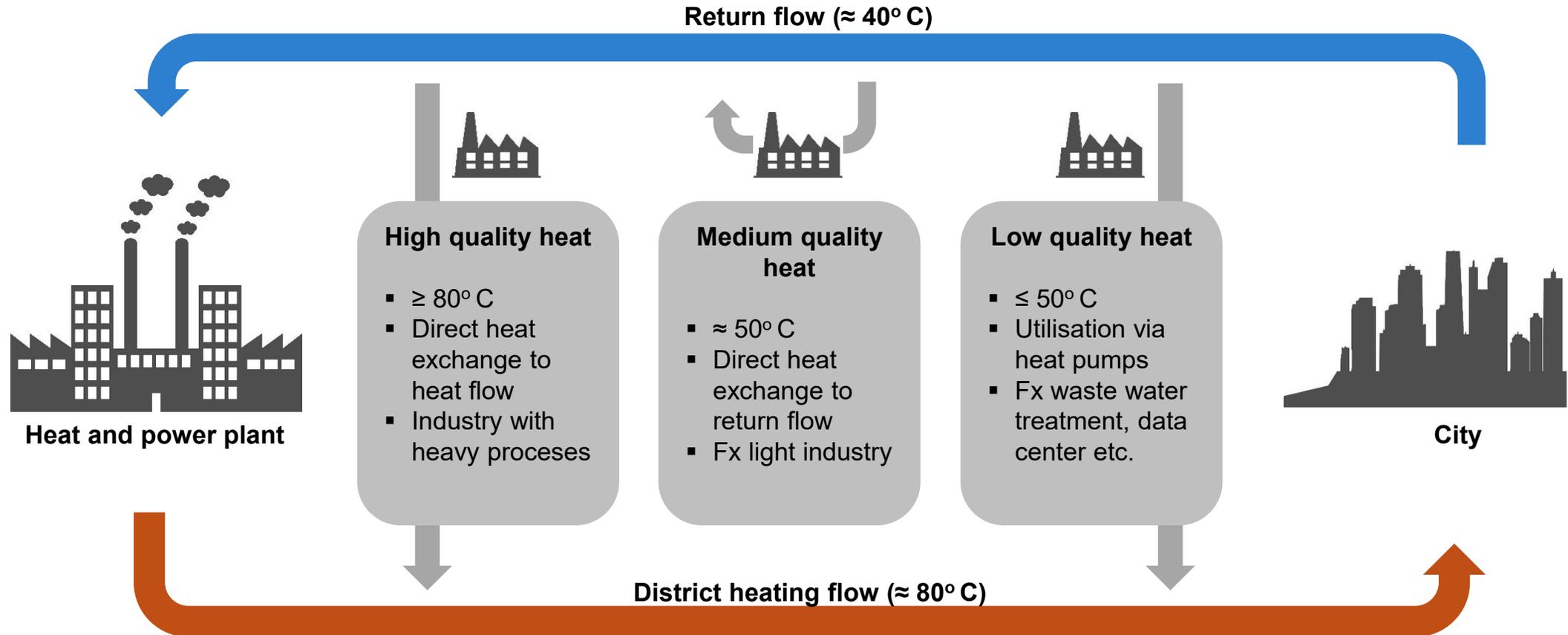


Case: Surplus heat

Overview of projects

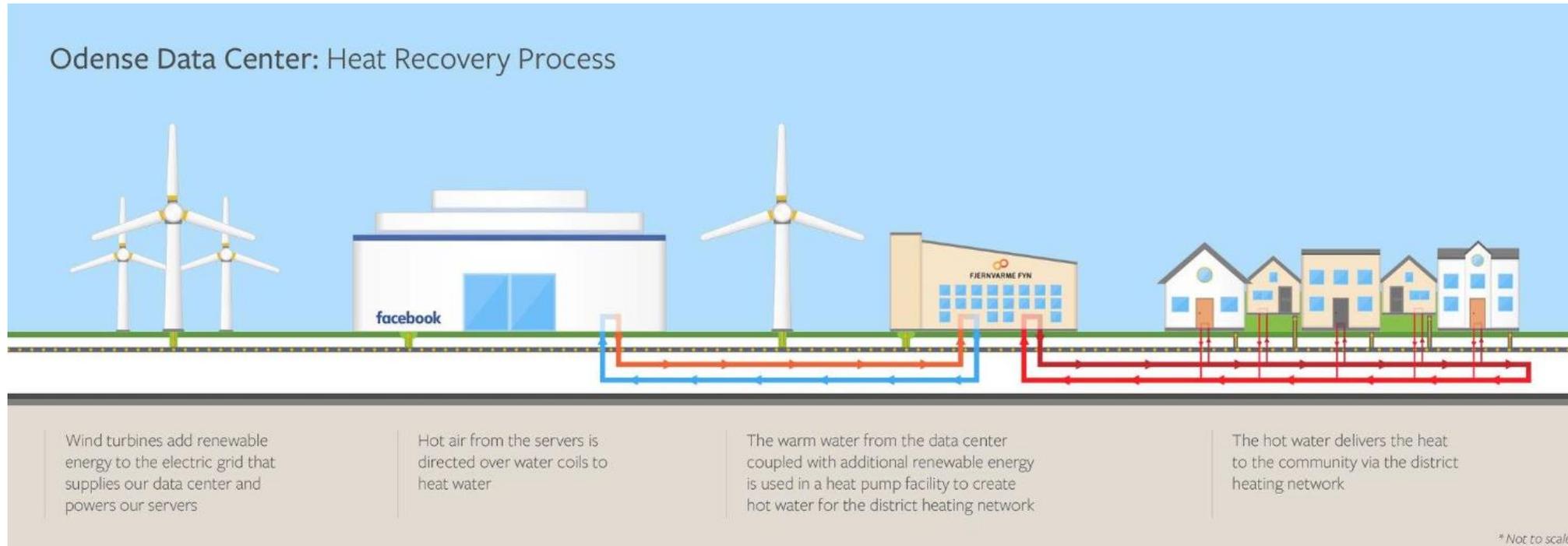


We recover surplus heat at different levels



Case: Surplus heat

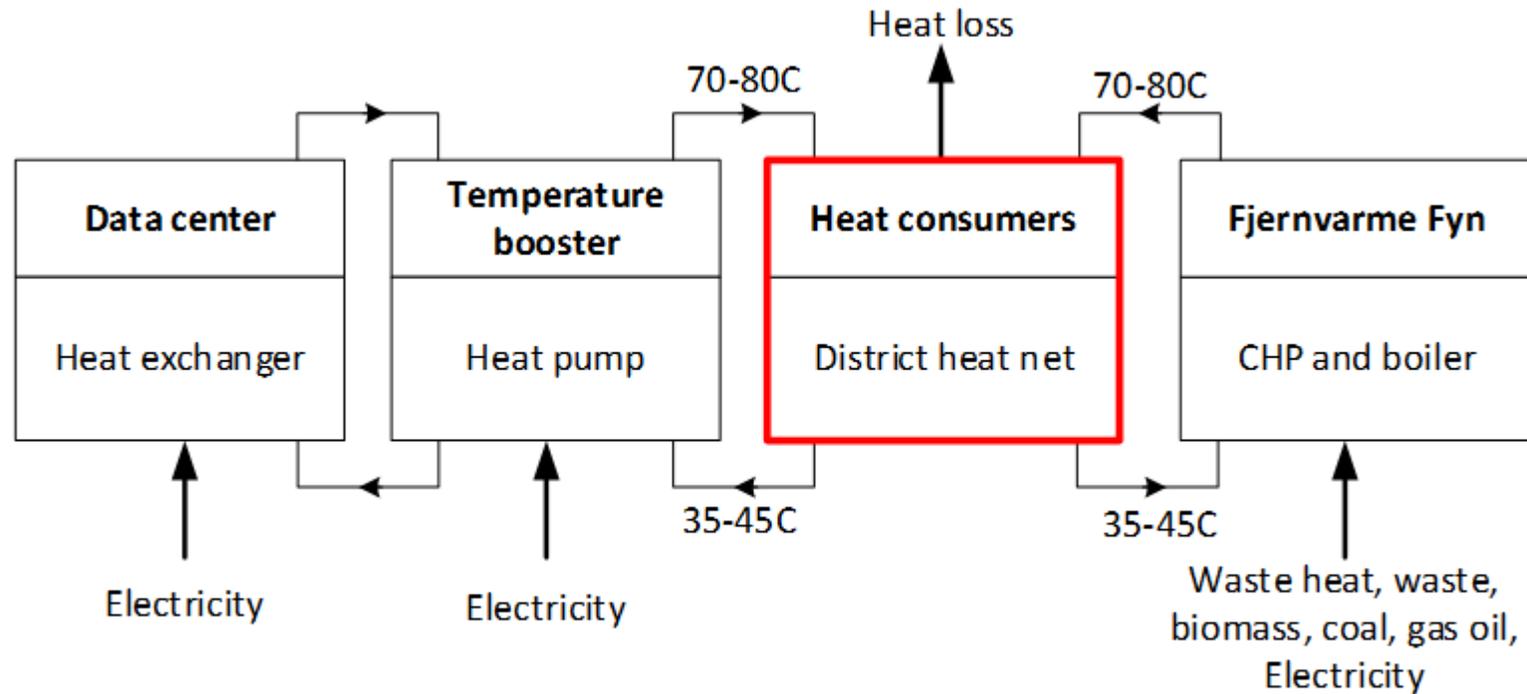
The project with META (large datacenter)



- Datacenter is owned and is run by META
- Heatpumps is owned and run by Fjernvarme Fyn
- Both facilities is supplies by renewable electricity
- 160.000 MWh surplus heat ~ 11.000 households
- 2017: Decision to invest (FID)
- 2020-2021: The heat central start to produce heat to the grid (fase 1 og 2)

Case: Surplus heat

Principal behind usage of surplus heat



Questions?



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