

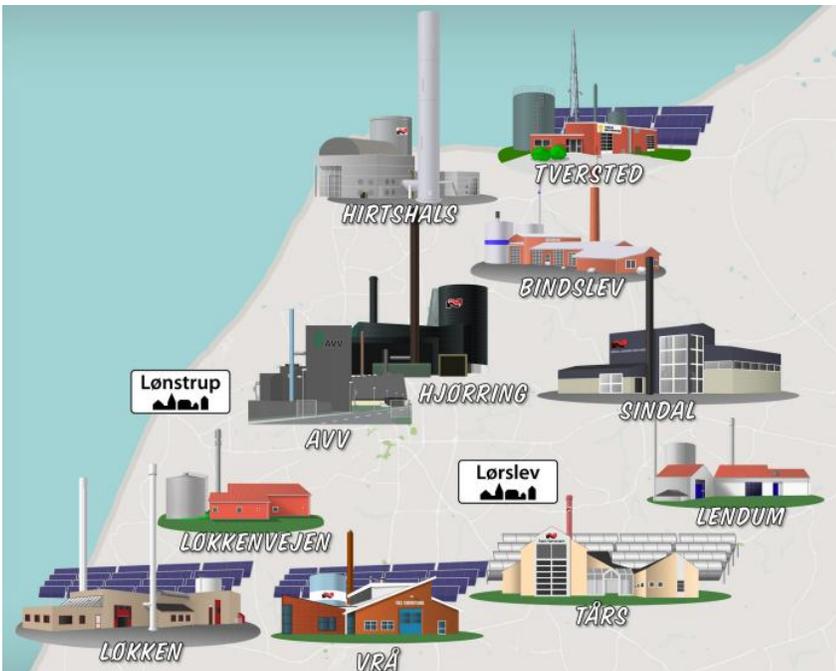
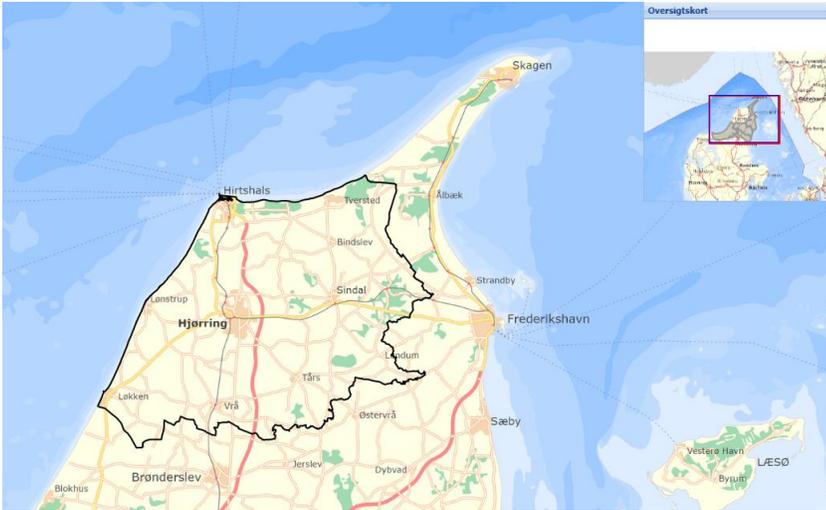
Municipalities as the catalyst that brings industry and District Heating together

Case from the Municipality of Hjoerring

”Hjørring Varmeforsyning”

18th March 2026

Municipality of Hjoerring

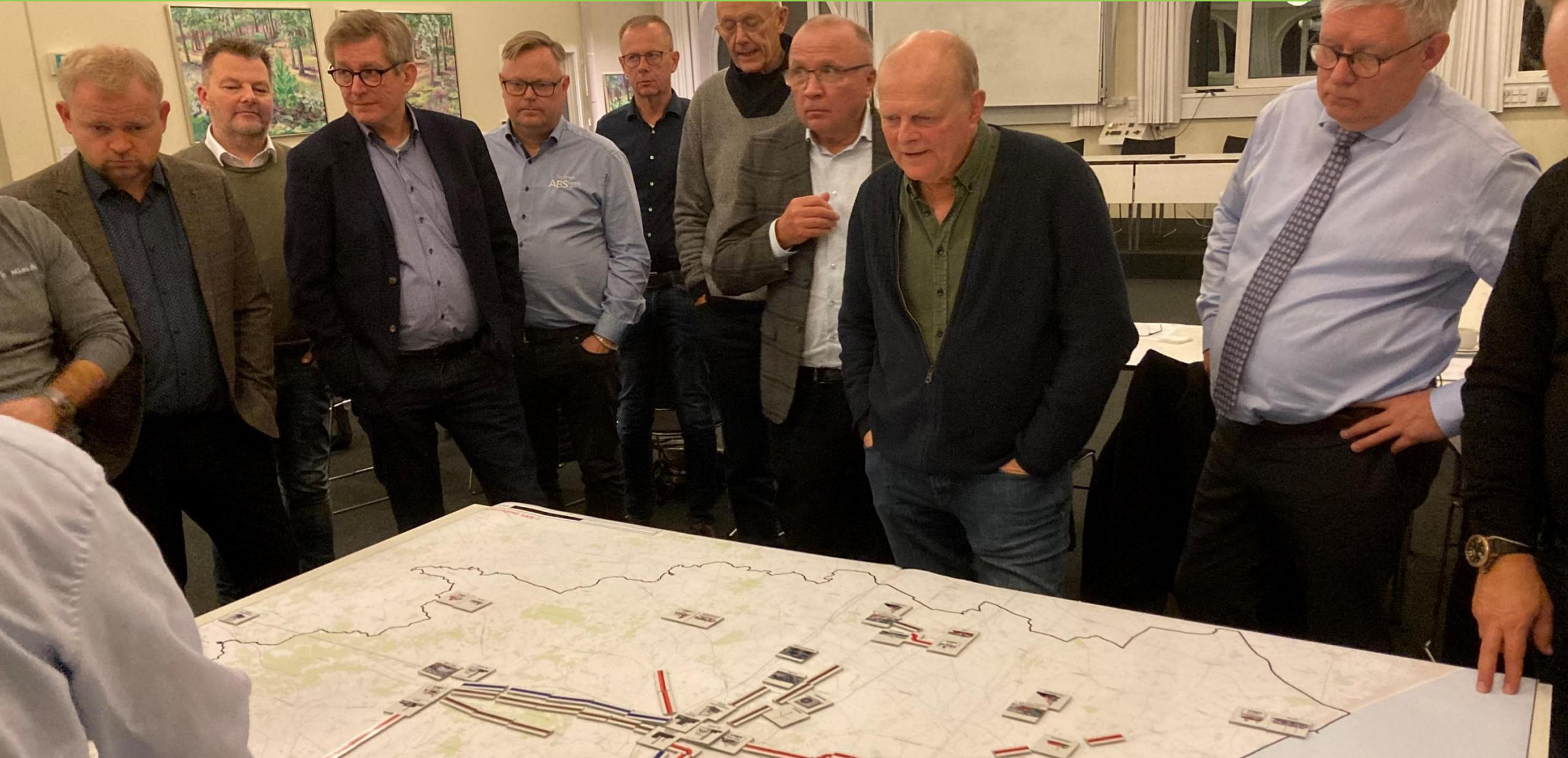


- 11 local district heating companies owned by the citizens
- 67 % of the houses are connected to district heating

How do we work?

.....bring them together.....

The local energy council discussing the future for District Heating





District heating projects

- Does the project create local independence in relation to international energy crises?
- Is there a value creation in the municipality (innovation and know-how)?
(eg. produce both heat & electricity on gas if the electricity is down in general, by cyber hacking)
- Does the project contribute to community development?
(eg. cheaper heat to the industry?)
- Local job creation?

.....bring them together.....

Hjørring Vandselskab and Hjørring Varmeforsyning



Collaboration between water & waste water plant and district heating company

In planning and expected realized January 2027

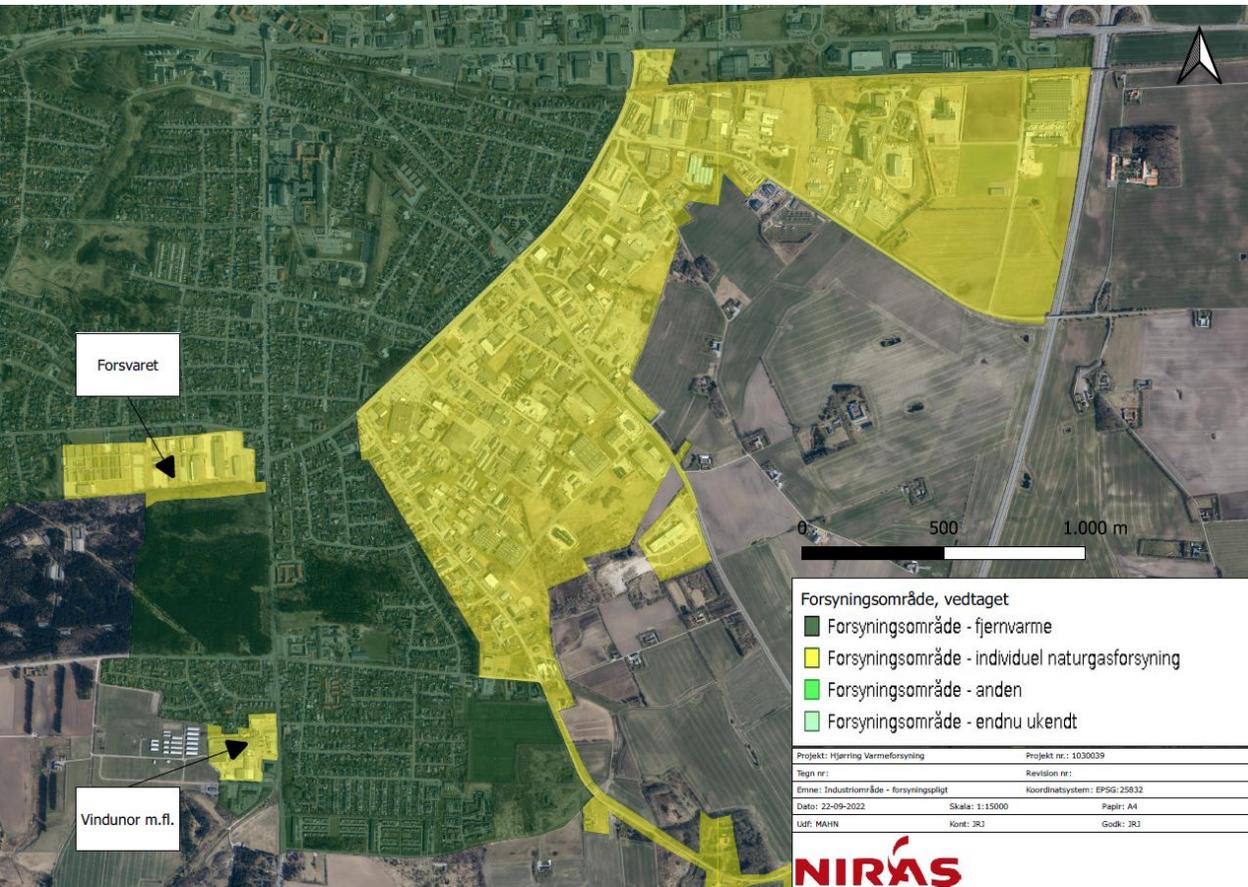
- Heatpump using cleaned waste water,
(cooling waste water & using the heat)
- Establishing a windturbine,
(the electricity will operate the heatpump and the waste water plant on a direct line)

Output

- Cheap local produced heat for the District heating customers
- Independency of international energy crisis
- Less emissions from the waste water because of the cooling



Conversion of industrial area from individual gas heating to district heating



Keywords for swopping to DH

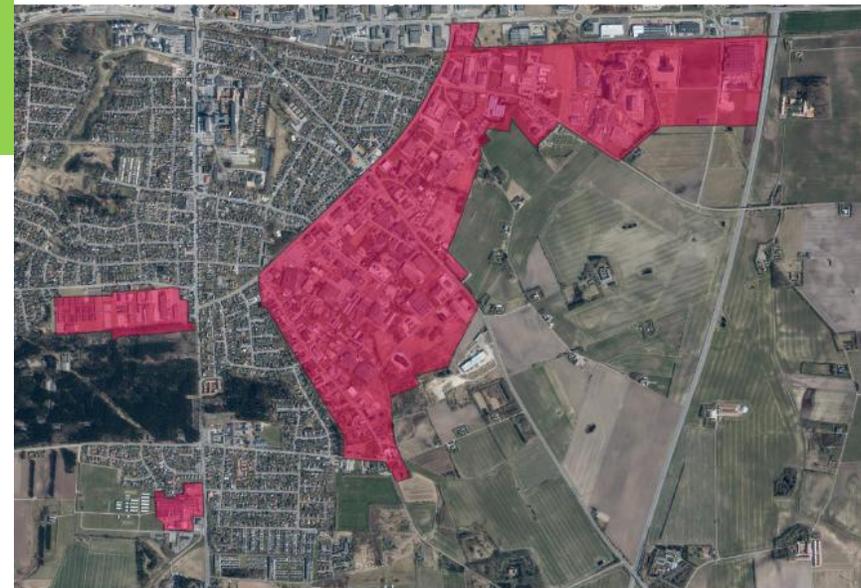
- High security of supply
- Non unforeseen expenses
- Fuel flexibility
- No noise
- Minimal maintainance
- Use surplus heat from industry

Project proposal

This includes different perspectives:

- Corporate finance
- Socio economic
- CO2 savings

Must be approved by the municipality



Fjernvarme til industriområdet i Hjørring

Projektgodkendelse for udvidelse af nuværende forsyningsområde ved Hjørring Varmeforsyning A.M.B.A.

Hjørring Varmeforsyning A.M.B.A.
22. september 2022

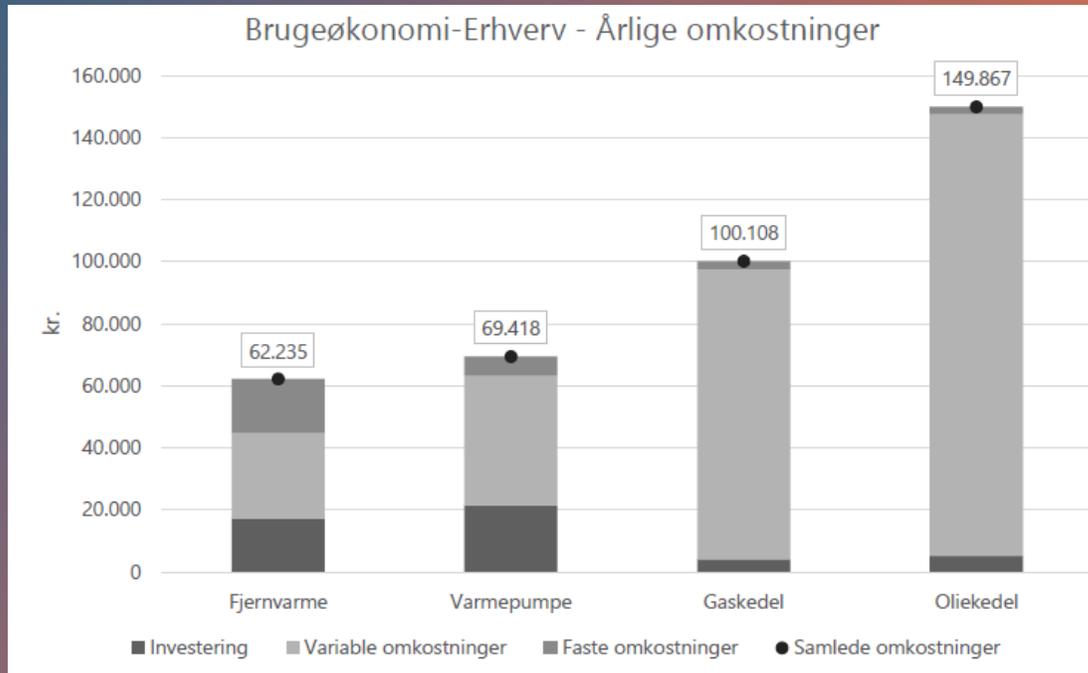
Economy for the industry area “Hjørring øst”

Heat source

- District heating
- Heat pump
- Gas boiler
- Oil boiler

Annual costs

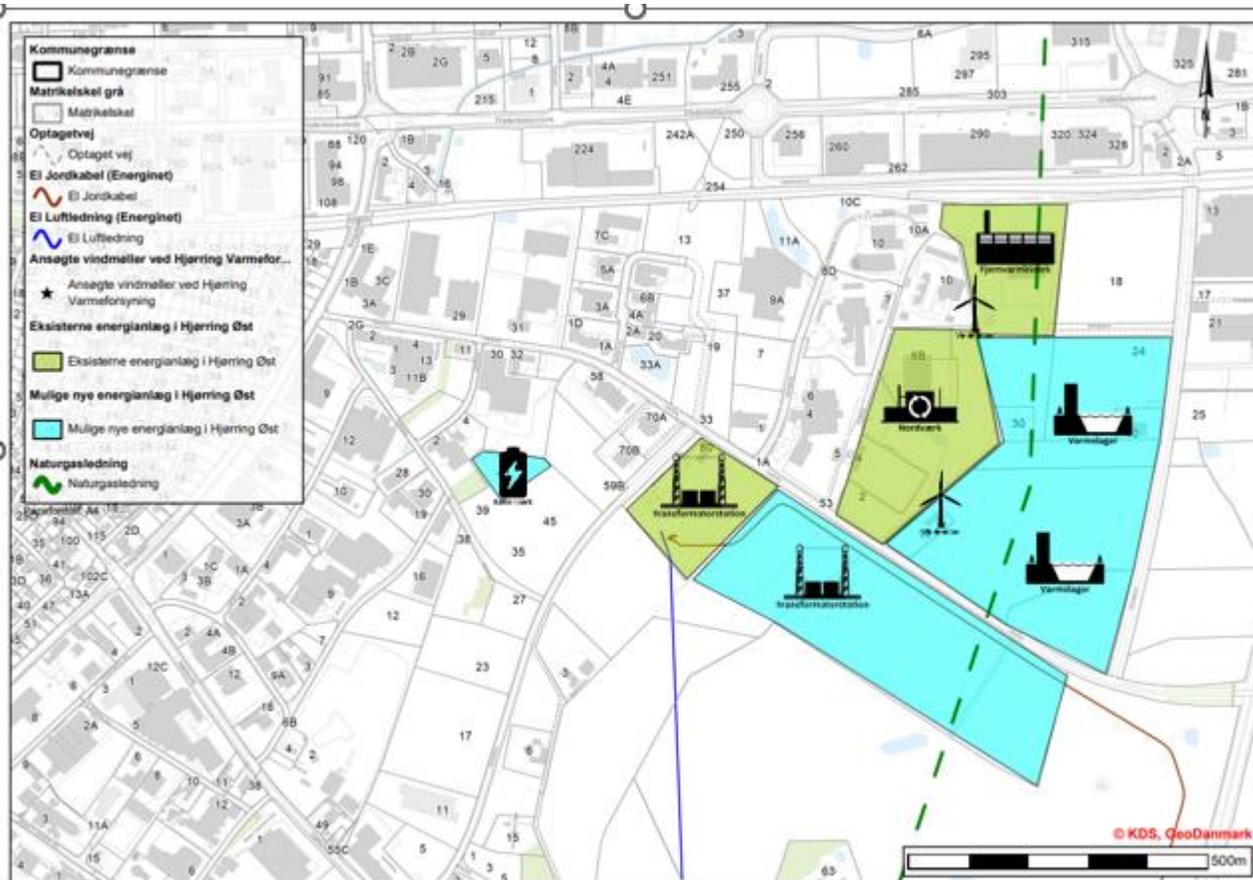
- Investment
- Variable costs
- Fixed costs



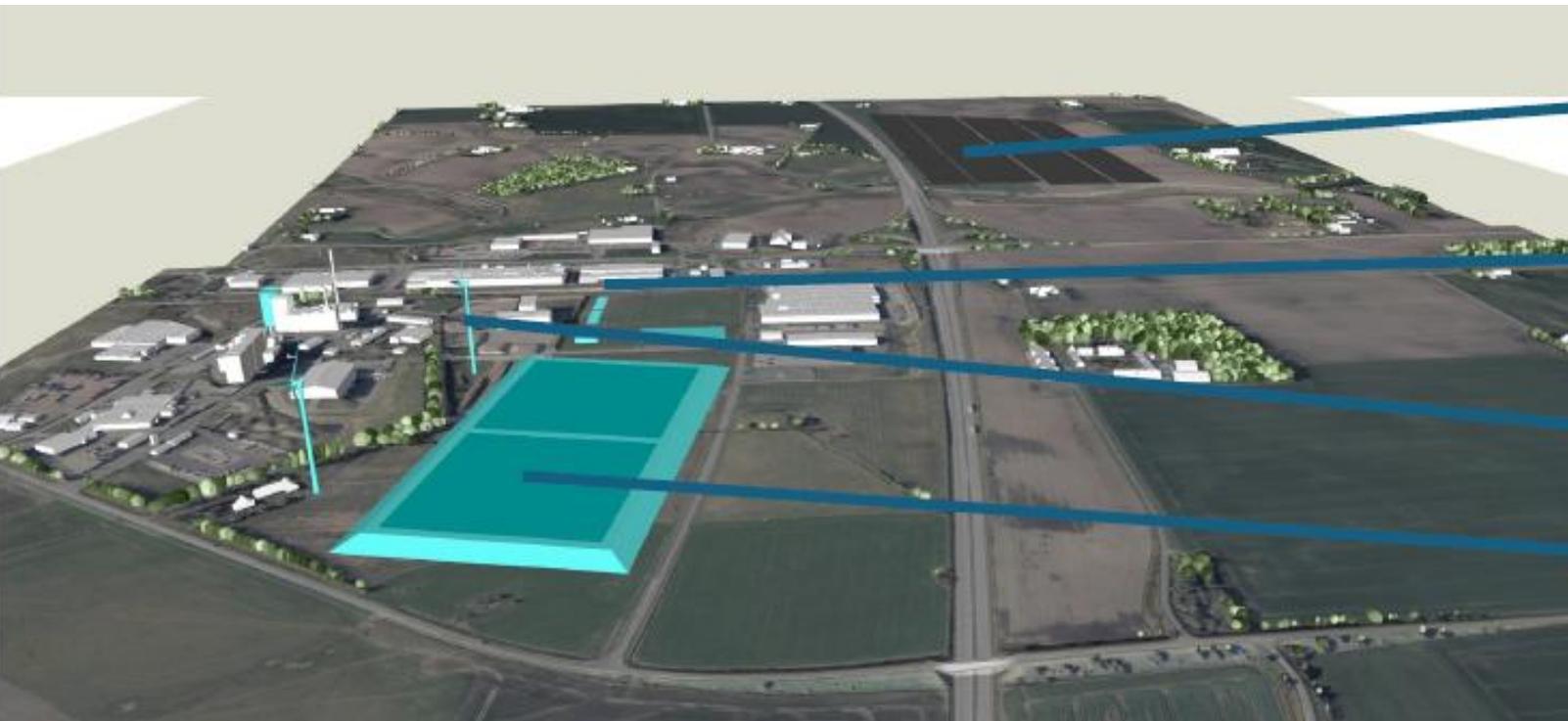
..... Bring them together.... Energy Hub "Hjørring øst"

Whats in the hub?

- District heating
- Transformer station (national grid)
- Battery plant
- Inceneration plant
- National Gas grid



The future for the district heating company



Solar heating system
17,5 hectar

10 MW heatpump

2 windturbines 9 MW

Seasonal heating storage
2x 350.000 m³ 11,2 hectar



Poul Rask Nielsen

Senior Project Manager

+45 40 32 45 91

poul.rask.nielsen@hjoerring.dk

Renewable Energy – Establishing contacts –
Green Business Development