EBO Consult:
Operate, develop and expand district heating cooperatives.
Develop and operate energy communities.
Renewable energy is our core business.

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Avedøre
Green City
- Citizens empowering local energy transition.
Avedøre District Heating Cooperative:
- owned by all consumers (4,000)
- platform for local energy ideas
- board of directors (consumers)
- non profit district heating utility
The first innovative project: "The Solar House" 2009 - at that time in a ghetto area with social challenges. UN Summit 15 as a driver.
From the big house to the solar house:

- Got the idea to promote solar energy in a CHP area and to create the first Solar CHP multi-storey building in the area with no subsidies.

- PV-panels on the South facade of the building and solar thermal installation on the roof.

- The tenants paid for the PV-panels and the district heating cooperative paid for the solar thermal installation.

- A new image for the area was created.
SHARED VISION
OBJECTIVES AND BASELINES

Based on UN Goals (3-13, 15 and 17)
Manual with actions and initiatives
Developed by the steering committee
Communicated to the local area
Defined An Overall Development Plan

First Step: A Strategic Energy Plan

- What is sustainable energy in our area?
- Which technologies? Which data do we possess?
- Do we need changes in infrastructure?
- How can buildings and land improve our plan?
- How can we influence the energy infrastructure?
- Can we obtain energy savings?
- Investment plan schedule?
Citizen Energy Community

Denmark’s first – founded as a cooperative.
Approx. 7,500 stakeholders in Avedøre as members.
Electricity for the future (renewables).
Power and heat – demand and supply.
EBO Consult = administration & catalyst.
First Energy Steps – 2021-2023

District Heating:
Infrastructure ready for reduced flow temperature – from 90º to 65º. Communal heat pump and excess heat from datacenter.
Energy savings: 10-20 % - reduced heat bills.
Energy saving measures – e.g. new heat meters and free technical service.
PV Installations

Since 1st January 2023:

• Size: 254.20 kWp
• Production per year: 233,353 kWh
• CO₂-reduction per year: 109,589 kg
• Paid by members of the community
• Big tender = cheap PVs and installation
• Operated by the energy community

In Spring/Summer 2023 more big PV-installations are following, e.g. financed by the municipality.
Charging Stations For EV
Battery - 600 kW – April 2023
Next Steps – 2024-2030

"Energy Selfsufficient Village"

Expansion of sustainable district heating.
Renovation of facades and roofs – PVs and PVT.
Most Important Lessons Learned

It’s all about people and thorough planning. Citizens are decision makers. Technology/energy saving measures must adapt to local conditions – keep it simple and trustworthy. Legal framework is important. Good business cases and financing tools are crucial. Finally: Communication, information & transparency!
Thanks!

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