

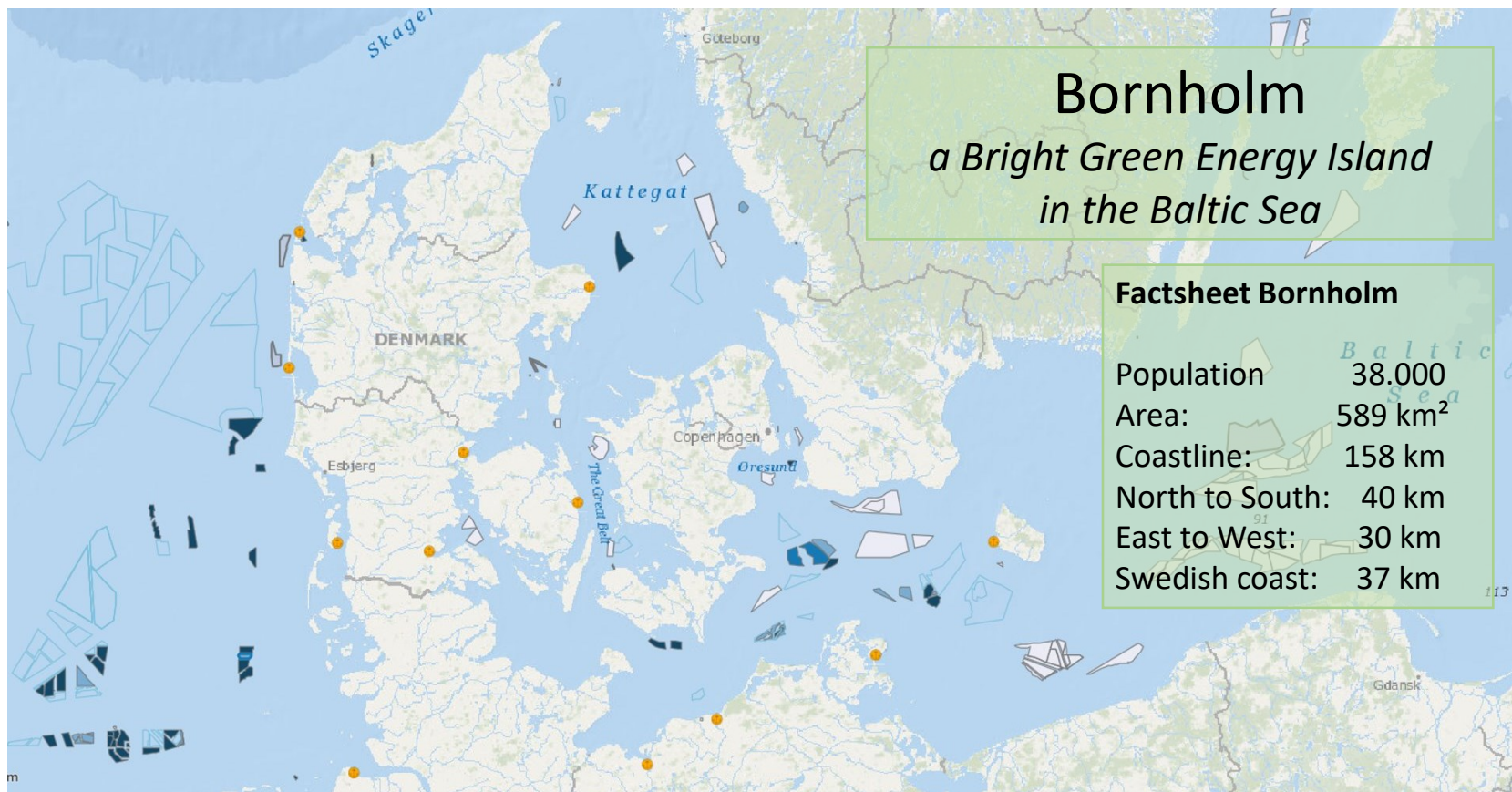


# BEOF

Partner presentation

*Baltic EnerShift - Kick-off  
Gdansk, november 2025*

# Who is BEOF?



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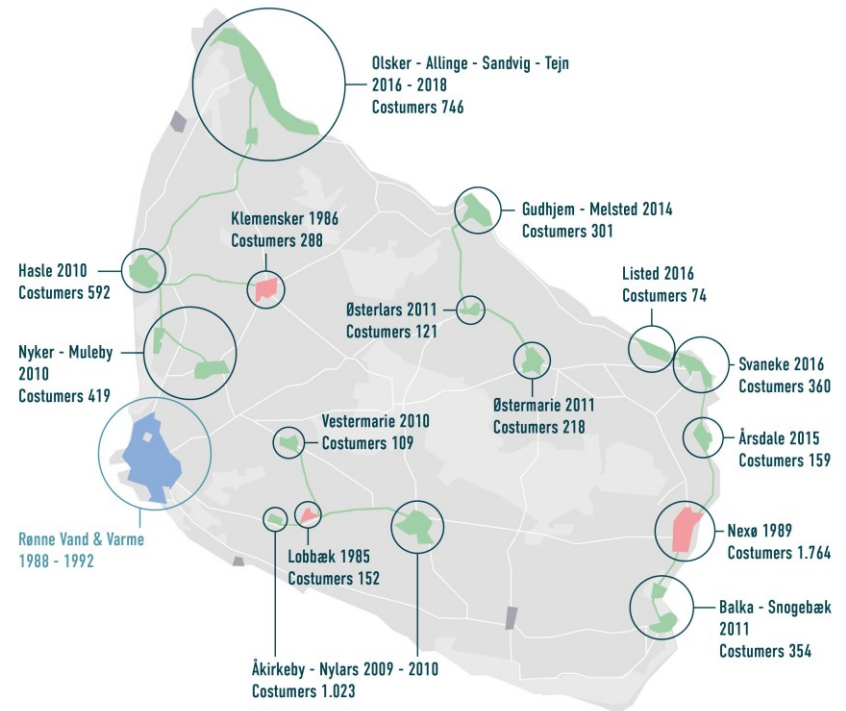
# Bornholm - District Heating

- Producer and distributor to 6700 customers
- Wood chips and straw, 100% locally produced
- Various boilers (biomass, electric boilers)

- *New (2009 – 2019)*
- *Old (1985 – 1989)*

## Strategic focus points (selected)

- Prepare for integration of renewable energy resources.
- Reducing grid temperatures
- Optimizing controls



# Pilot actions in BES – Proposed actions

## Mandatory tasks

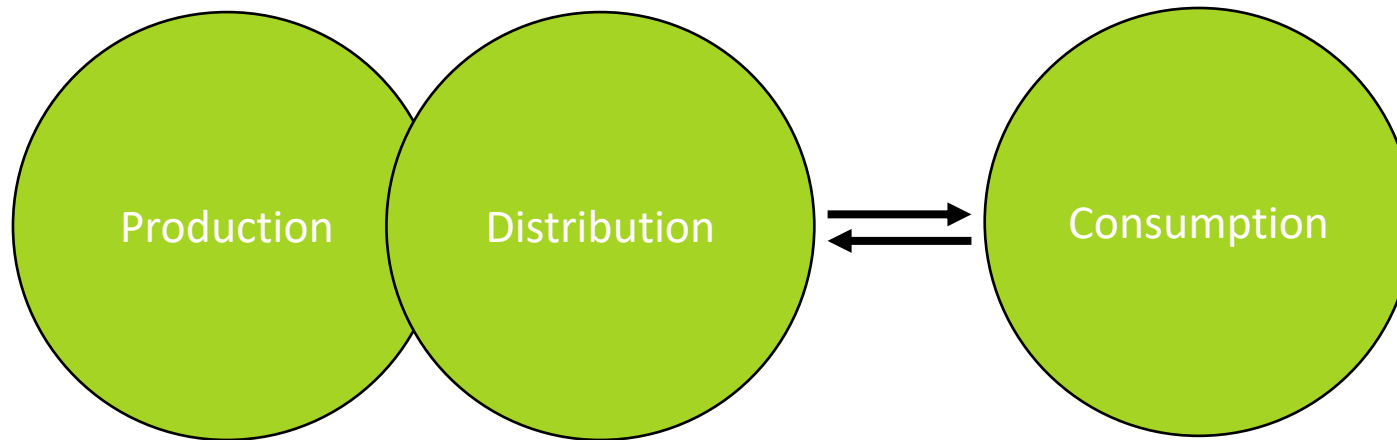
- The project on Bornholm aims to transform the district heating sector through digitalization. It will start by **assessing the digitalization needs** of the district heating company and developing use cases based on these requirements.
- The next step involves **integrating all existing SCADA systems into a single data platform** to enhance operational efficiency. Critical metrics for monitoring and optimizing operations will be identified and standardized.
- A robust **reporting framework will be created to make large volumes of data understandable and actionable for daily operations and management**. This framework will focus on key performance indicators related to plant operations and ESG goals, particularly CO<sub>2</sub> emissions.

## Optional – If time allows

- Digitalization of the data in our data platform will be a **huge stepping stone for deploying AI forecasting models** (in development) and control models in the future. Deployment of AI forecasting tools on 1 or all heat plants.

This initiative will not only improve operational efficiency but also support Bornholm's sustainability objectives.

# Future outlook – Full system orchestration



- Establishing a cross sectorial datalake and platform
- Digitalization of our 4 district heating systems
- AI generated prognosis model (2025-2026)
- New electric boiler and solar plant (2027)
- AI control model (2026-2028)

- Nudging – Tarifs for bad energy usage (2025)
- Smart control of customer substations (2023-2026)
- Flexumers (kapacity optimization) – new approach

# Looking forward to get started!



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