#### BALTIC ENERGY ISLAND



# Lighthouse Bornholm – What, Why and Opportunities

By Søren Møller Christensen, CEO interim



## Baltic Energy Island -The Big Picture

#### **Planned Project:**

3.2 – 3.8 GW windfarm with landing site on Bornholm, DC power export til Germany and Sealand. Possible overplanting used for P2X

# Proposed project (CIP/Ørsted):

3 GW windfarm connected to P2X with H2 export to Germany

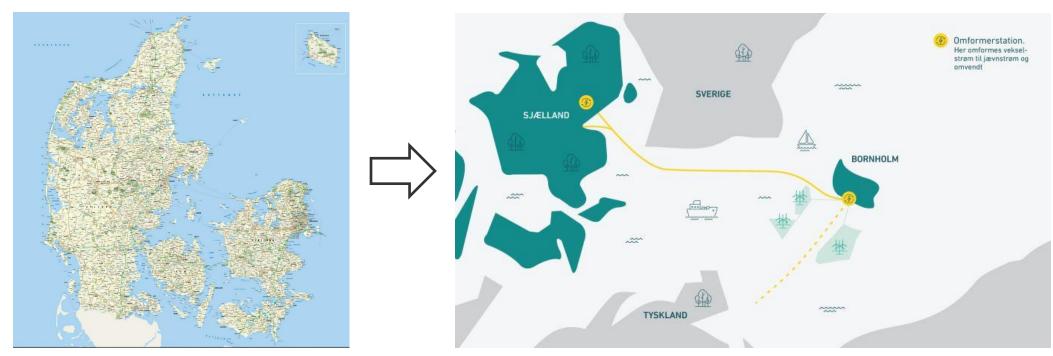
Investments +125 Billion



## Bornholms new geopolitical role

- from misplaced outskirt of Denmark to a Scandinavian and European energycenter

The Energy Island Bornholm, Marienborg Declaration, RePowerEU and new hydorgen networks changes the geo- and energypolitical role of Bornholm.







## Bornholms new geopolitical role

- from misplaced outskirt of Denmark to a Scandinavian and European energycenter

The Energy Island Bornholm, Marienborg Declaration, RePowerEU and new hydorgen networks changes the geo- and energypolitical role of Bornholm.







Kilde: Copenhagen Infrastructure Partners



Kilde: Flow - making hydrogen happen



# **BALTIC ENERGY** ISLAND

The purpose of Baltic Energy Island foundation is to develop Bornholm to the leading centre in Europe for test and implementation of innovative energy technologies and integrated energy systems necessary for achieving the green transition.















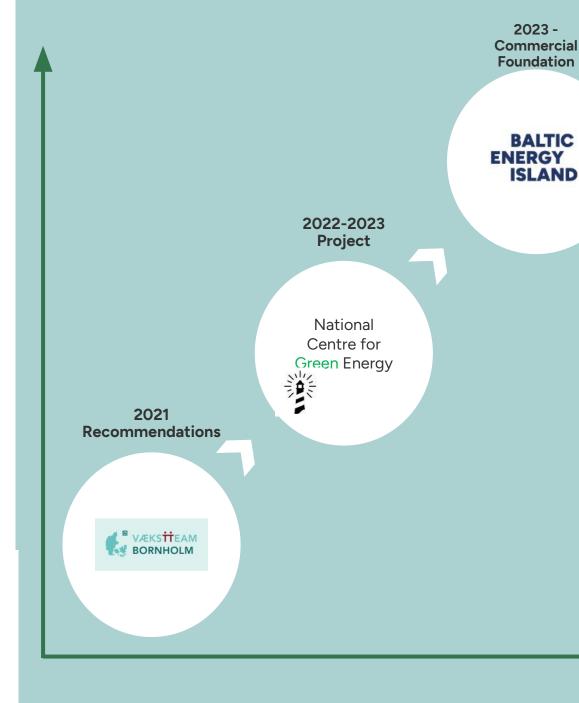












TID

BALTIC

**ISLAND** 

**ENERGY** 







#### **Board**

#### Rønne Old Powerstation

- Meeting Place and innovation hUB for energy business
- Exhibition about energy Islands
  - Residential college /

# Technology and Business

Development of energy island technologies and associated business

Strategic Committee Business roadmap Strategic Committee Technology roadmap

Projects for Energy Islands development

#### **Invest on Bornholm**

- Support business investments on Bornholm
- Energy technologies test site
  - Business park



#### BALTIC ENERGY ISLAND

Bunker hub for green fuels based on P2X

Landanlæg

PtX
anlæg

Energisystem med 100%

wedystende energis tel

Bunker Hul

Udskibnings- og servicehavn for vindenergi i Østersøen

3,2-3,8 GW

HVDC til København

Test centre for smart energy technologies

Living house for energy exhibitions, innovation and collaboration

Establishing a residential college with DTU

Innovation hub for start-ups and other companies

Test centre for energy islands technologies

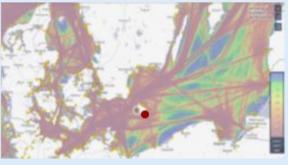




Planning Hydrogen grid



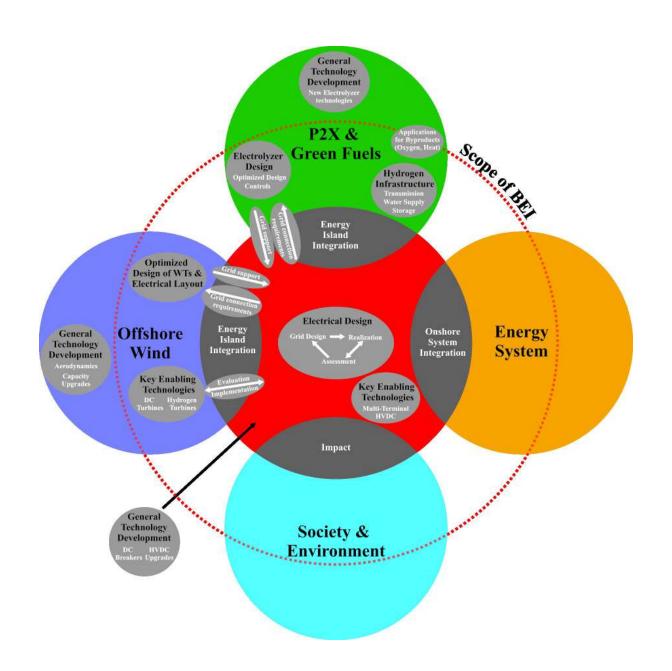
In the centre of 93 GW wind energy potential.



60,000 ships passing Bornholm each year.

# Roadmap for Energy Island technology

- Overview of how the different technologies could be mapped into an energy island focused system.
- Here, the scope of BEI stretches beyond the links established to the energy island to incorporate elements that impact the design, operation and cost-efficiency of the energy island.
- The definition of the red line will be one of the responsibilities of the strategic committee





# Together, we innovate the new global energy system

Read more: <a href="https://balticenergyisland.com/">https://balticenergyisland.com/</a>

## BALTIC ENERGY ISLAND



# A living house in the historic Rønne Elværk

Innovation hub /
Meeting place /
Showroom / Residential
college

The 1,500 m2 building is from 1910-12 by the Danish architect Anton Rosen.

To be renovated for 70-80M DKK.



