

The Baltic InteGrid: Activities and results

German Country Workshop | Baltic Offshore Grid Forum | 26 September 2018





Baltic
InteGrid

Integrated Baltic Offshore
Wind Electricity Grid Development

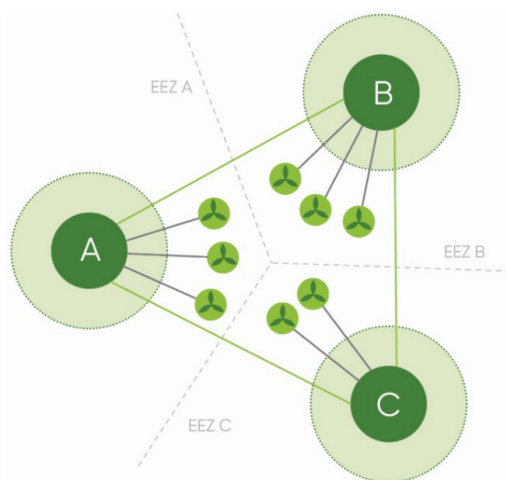
Interreg
Baltic Sea Region



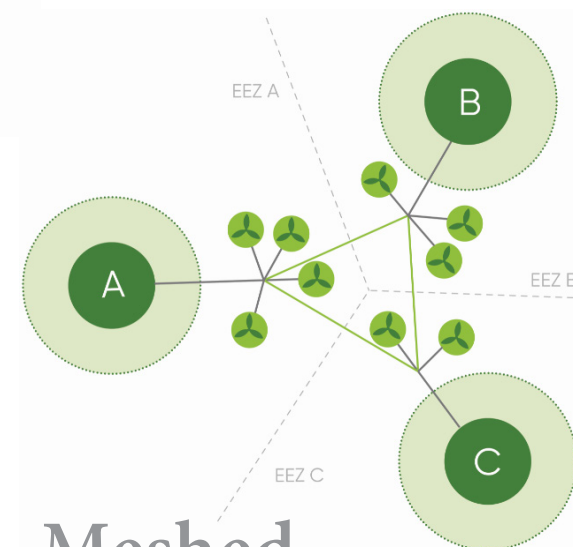
EUROPEAN UNION
EUROPEAN
REGIONAL
DEVELOPMENT
FUND

Meshed offshore grid

- High initial investment
- Complex regulatory, legal, market and policy obstacles
- + Annual savings compensate
- + Resilience for operators
- + RES & market integration
- + Coordination has already begun



1. Radial



2. Meshed

Core pillars of the Baltic InteGrid

Baltic Offshore Grid Forum

Baltic Offshore Grid Concept

Pre-feasibility studies

- ▶ Network & conference platform
- ▶ Interdisciplinary research
- ▶ In-depth perspective on 2 cases



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The Baltic Offshore Grid Forum

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Thematic Working Groups

1. Policy & regulation (2)
2. Market & supply (2)
3. Technology & grid (2)
4. Environment & society (2)
5. Spatial planning (2)
6. Cost-benefit analysis (2)

- Disciplinary in scope
- Focus: Region-wide

6

Country workshop

- Latvia
- Poland
- Finland
- Lithuania
- Germany

- Interdisciplinary in scope
- Focus: national

4

Key events

- Kick-off conference
- First results conference
- PL-SE-LT case study
- Final conference

- Interdisciplinary
- Focus: Region-wide

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The Baltic Offshore Grid Concept

Interdisciplinary focus

1. Policy & regulation:
2. Market & supply:
3. Technology & grid:
4. Environment & society:
5. Spatial planning:
6. Cost-benefit analysis:

Results

Drivers, obstacles, national and EU

Capital intensive market; SME potential

Tech is ready; DC breakers uncertainty

Impact mitigation necessary

MG requires less space; multi-use

Socio-economic benefits; system stability



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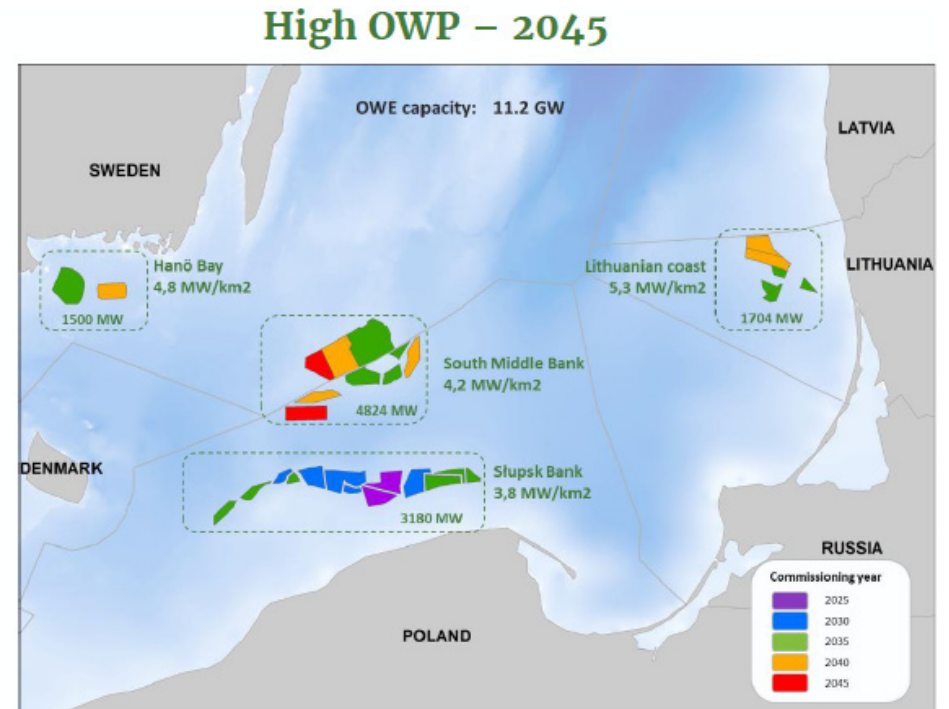
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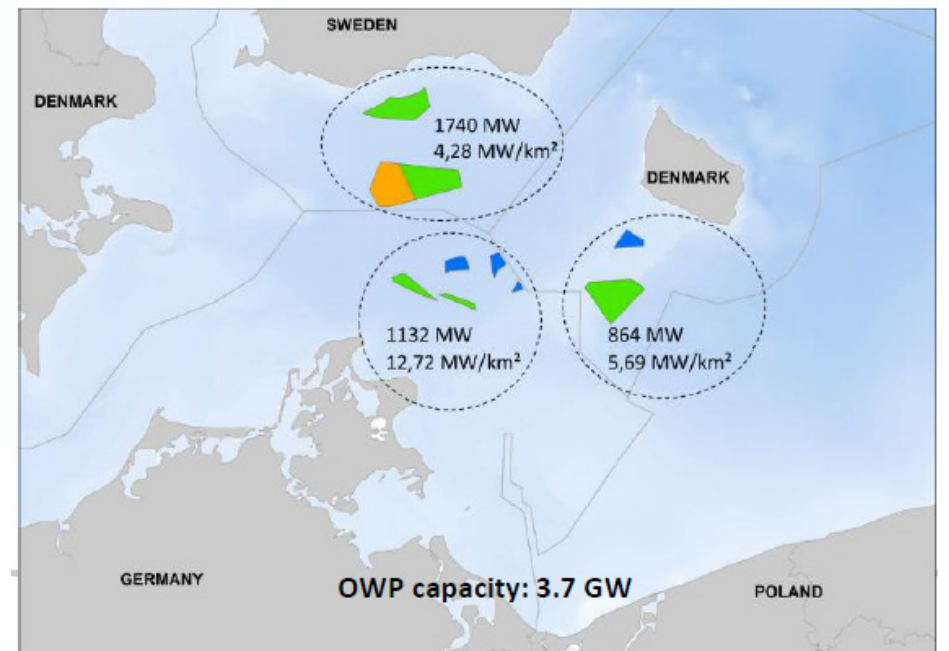


Pre-feasibility Studies

1) Poland/Sweden/Lithuania



2) Germany/Sweden/Denmark



Various scenarios and connection possibilities

Radial connection never shown to be efficient

Recommendations

1. Maritime spatial planning
2. TYNDP
3. Policy and regulation



The partners

14 partners from the 8 EU Member States

-  1. IKEM | Germany
-  2. Foundation for Sustainable Energy | Poland
-  3. Rostock Business and Technology Development
-  4. Technical University of Denmark | Denmark
-  5. Energy Agency for Southeast Sweden | Sweden
-  6. Deutsche WindGuard | Germany
-  7. Maritime Institute in Gdansk | Poland
-  8. Stiftung OFFSHORE-WINDENERGIE | Germany
-  9. Latvian Association of Local and Regional Governments | Latvia
-  10. Aalto University | Finland
-  11. University of Tartu | Estonia
-  12. Klaipeda University Coastal Research and Planning Institute | Lithuania
-  13. Lund University | Sweden
-  14. Aarhus University | Denmark



Thank you!

IKEM - Lead Partner of the Baltic InteGrid

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