Baltic InteGrid: Towards a meshed offshore grid in the Baltic Sea

Final conference | 26/27 February 2019
Meshed offshore grid

- High initial investment
- Complex regulatory, legal, market and policy obstacles

+ Annual savings compensate
+ Resilience for operators
+ RES & market integration

1. Radial

2. Meshed
So, what is the potential of a MOG in the Baltic Sea?
The consortium

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
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

### 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

### Country workshop
- Latvia
- Poland
- Finland
- Lithuania
- Germany

- Interdisciplinary in scope
- Focus: national

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

- Interdisciplinary
- Focus: Region-wide
Results of the Baltic Offshore Grid Forum

1. Growing interest in meshed offshore grids
2. Transnational cooperation & continuous exchange key to progress
3. The Baltic Offshore Grid Forum will go on!
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The Baltic Offshore Grid Concept

1. Policy & regulation
2. Market & supply
3. Technology & grid
4. Environment & society
5. Spatial planning
6. Cost-benefit analysis
MOG requires guidance from (EU) policymakers!

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

2. Market & supply
   - Market dominated by large players, but local companies can enter MOG service and maintenance sector

3. Technology & grid

4. Environment & society

5. Spatial planning

6. Cost-benefit analysis
Technology for a MOG is ready; price uncertainty around DC breakers remain.
Many users and stakeholders in the Baltic Sea, consultation is key to avoiding conflicts and delays.
1. Policy & regulation
2. Market & supply
3. Technology & grid
4. Environment & society
5. Spatial planning
6. Cost-benefit analysis

MOG requires less sea cables and less maritime space, but needs transnational MSP coordination
1. Policy & regulation
2. Market & supply
3. Technology & grid
4. Environment & society
5. Spatial planning
6. Cost-benefit analysis

Socio-economic benefits of a MOG:
System stability, interconnection and jobs!
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Pre-feasibility Studies

1) Poland/Sweden/Lithuania

2) Germany/Sweden/Denmark

Various scenarios and connection possibilities
Moderate/high OWE? MOG more efficient!
Window of opportunity!

- 2.2 GW offshore wind capacity in the BSR
- *Time to act:*
  Bold policy-making and transnational collaboration
12:00 - 13:00  Registration and light lunch

13:00 - 13:10  Welcome and introduction to the Baltic InteGrid
               Anika Nicolaas Ponder | IKEM

13:10 - 13:30  Offshore wind and meshed grids: Innovative pathways for the Energy Union
               Anne-Maria Ide | European Commission

13:30 - 13:50  Staying on course: Offshore wind leadership and the EU
               Giles Dickson | WindEurope

13:50 - 14:20  Offshore wind and integrated markets: Chances for the Baltic Sea Region
               Izabela Kielichowska | Navigant

14:20 - 15:10  Panel discussion with the speakers and the audience
               Moderation: Claire Bergaentzlé | Danish Technical University

15:10 - 15:40  Coffee break

15:40 - 16:00  Offshore wind and grid solutions in the Baltic Sea
               Lykke Mulvad Jeppesen | Ørsted

16:00 - 16:20  Policy and regulation:
               Steps towards meshed offshore grid development in the Baltic Sea
               Bénédicte Martin | IKEM

16:20 - 16:50  Meshed offshore grids in the North Sea:
               Challenges, solutions and synergies with the Baltic Sea
               Ivan Savitsky | Carbon Trust | PROMOTioN

16:50 - 17:30  Panel discussion round with the speakers and the audience
               Moderation: Ceciel Nieuwenhout LL.M | University of Groningen

17:30 - 18:30  Networking apéro
Thank you!

IKEM - Lead Partner of the Baltic InteGrid

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