



Baltic InteGrid

Integrated Baltic Offshore
Wind Electricity Grid Development



Background



The Baltic Sea Region holds great development potential for offshore wind energy, but is home to only 15% of the EU's offshore wind parks. The other 85% are located mainly in the North Sea, where studies indicate that the international coordination and integration of offshore grid infrastructure between countries, also known as an offshore meshed grid, allows for significant savings. Against this background, the relatively early development stage of offshore wind infrastructure in the Baltic Sea can be a competitive advantage, allowing the region to integrate findings from the North Sea to optimize the design of a regional meshed offshore grid.

Introduction to the Baltic InteGrid

The Baltic InteGrid project will provide a professional network for expertise exchange and a state-of-the-art interdisciplinary research on the optimization potential of offshore wind energy in the Baltic Sea Region by applying the meshed grid approach.

The project will connect relevant stakeholders (transmission system operators, offshore wind energy industry, policymakers, national authorities and academia) in debates and topical knowledge exchange with a view to optimize transnational coordination of offshore wind energy infrastructure. Additionally, the project's innovative research efforts will equip stakeholders with state-of-the-art insights on the framework conditions for the development of a regional meshed grid, addressing the following fields:

Policy & Regulation



Technology & Grid Design

Market & Supply Chain

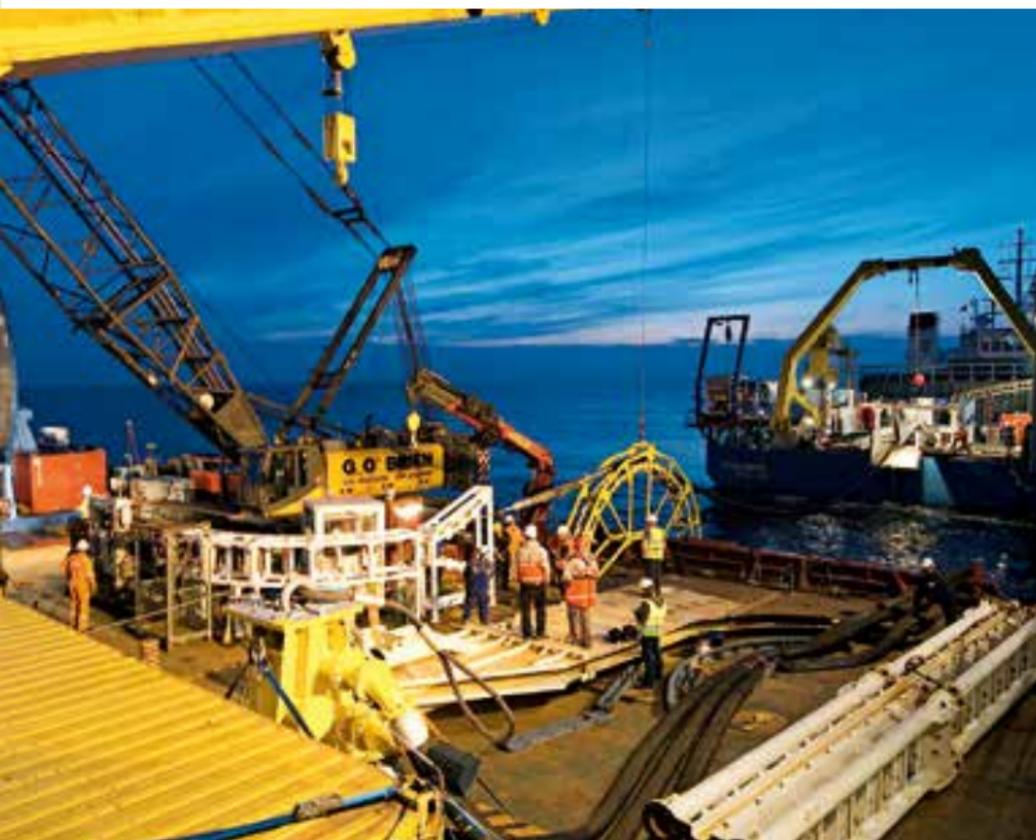


Spatial Planning

Environment & Society



Cost-Benefit Analysis



During the project lifetime the project partners from all eight EU Member States in the Baltic Sea Region will work in close cooperation with key stakeholders towards the following main outputs:

- **The Baltic Offshore Grid Forum:**
The conference and communication platform of the project
- **A high-level concept** for the Baltic Offshore Grid: The interdisciplinary research component of the project
- Detailed **case studies** for two interconnection scenarios serving as components of the Baltic Grid Concept
- Strategic **recommendations**

Project Partners



- Institute for Climate Protection, Energy and Mobility (IKEM)
- Rostock Business and Technology Development GmbH
- Deutsche WindGuard
- German Offshore Wind Energy Foundation



- Technical University of Denmark
- Aarhus University



- University of Tartu



- Aalto University



- Latvian Association of Local and Regional Governments



- Coastal Research and Planning Institute



- Foundation for Sustainable Energy
- Maritime Institute in Gdańsk



- Energy Agency for Southeast Sweden
- Lund University

Contact

info@baltic-integrid.eu



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Baltic InteGrid represented by the **Lead Partner:**

**Institute for Climate Protection,
Energy and Mobility (IKEM)**

Magazinstraße 15-16, 10179 Berlin, Germany

Phone: +49 (0) 30 408187015

Mail: info@ikem.de

Web: www.ikem.de

www.baltic-integrid.eu

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