



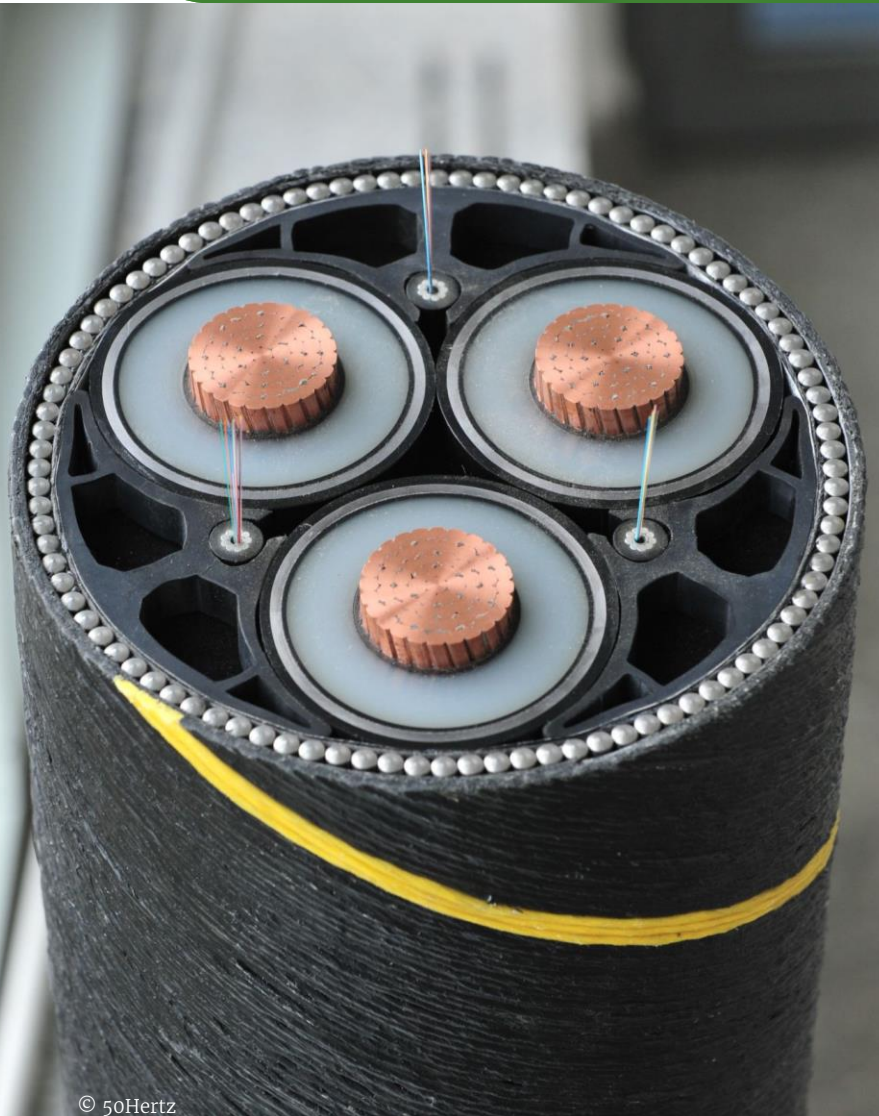
Baltic  
InteGrid

Integrated Baltic Offshore  
Wind Electricity Grid Development

# Introduction to the Baltic InteGrid Project



EUROPEAN  
REGIONAL  
DEVELOPMENT  
FUND



**The EU Interreg project Baltic InteGrid** (Integrated Baltic Offshore Wind Electricity Grid Development) provides a professional network for expertise exchange and 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.

**IEA is one of the project partners** within the Baltic InteGrid initiative. With its deep technical competence in the area of wind power, the project group at IEA will contribute with a technical design proposal for the integrated wind power and interconnection system.

**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, Market & Supply Chain, Technology & Grid Design, Environment & Society, Spatial Planning and Cost-Benefit Analysis.



Policy & Regulation



Market & Supply Chain



Technology & Grid Design



Environment & Society



Spatial Planning



Cost-Benefit Analysis





- 1  Institute for Climate Protection, Energy and Mobility (IKEM)
- 2  Foundation for Sustainable Energy
- 3  Rostock Business and Technology Development GmbH
- 4  Technical University of Denmark
- 5  Energy Agency for Southeast Sweden
- 6  Deutsche WindGuard
- 7  Maritime Institute in Gdańsk
- 8  German Offshore Wind Energy Foundation
- 9  Latvian Association of Local and Regional Governments
- 10  Aalto University
- 11  University of Tartu
- 12  Coastal Research and Planning Institute
- 13  Lund University
- 14  Aarhus University

## Background to the Baltic InteGrid project

**Offshore wind energy plays an important role** in a diversified and sustainable energy mix of the future. At the same time the Baltic Sea Region (BSR) is a good location for offshore wind development: Waters are relatively shallow, wave height is lower, tides are less pronounced and the distances to the shore are shorter than in the North Sea, resulting in lower installation and grid infrastructure costs. By 2030, the BSR could be home to 12,2 GW in offshore wind capacity, of which only about 1,5 GW has actually been installed by the end of 2015. Offshore wind in the EU totals 11 GW, the vast majority of which is located in the North Sea.

The offshore wind energy market in the Baltic Sea is therefore at an early stage of development, compared to the more advanced state of offshore wind in the North Sea, where experiences and studies on offshore wind energy show that meshed, interconnected grids can bring significant economic benefits. It is in this context that the Baltic InteGrid is embedded: Aiming to contribute to sustainable local electricity generation, further integration of regional electricity markets, and enhanced security of supply around the Baltic Sea.







For further information:

Web: [www.baltic-integrid.eu](http://www.baltic-integrid.eu)

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