

The Baltic InteGrid | Kick-Off Conference

Integrated Baltic offshore wind electricity grid development

March 22 | 14:00 - 18:00

Magazinstraße 15-16

Berlin





PRIORITIES

Priority 1

**Capacity for
Innovation**



Priority 2

**Management of
natural
resources**



Priority 3

**Sustainable
transport**



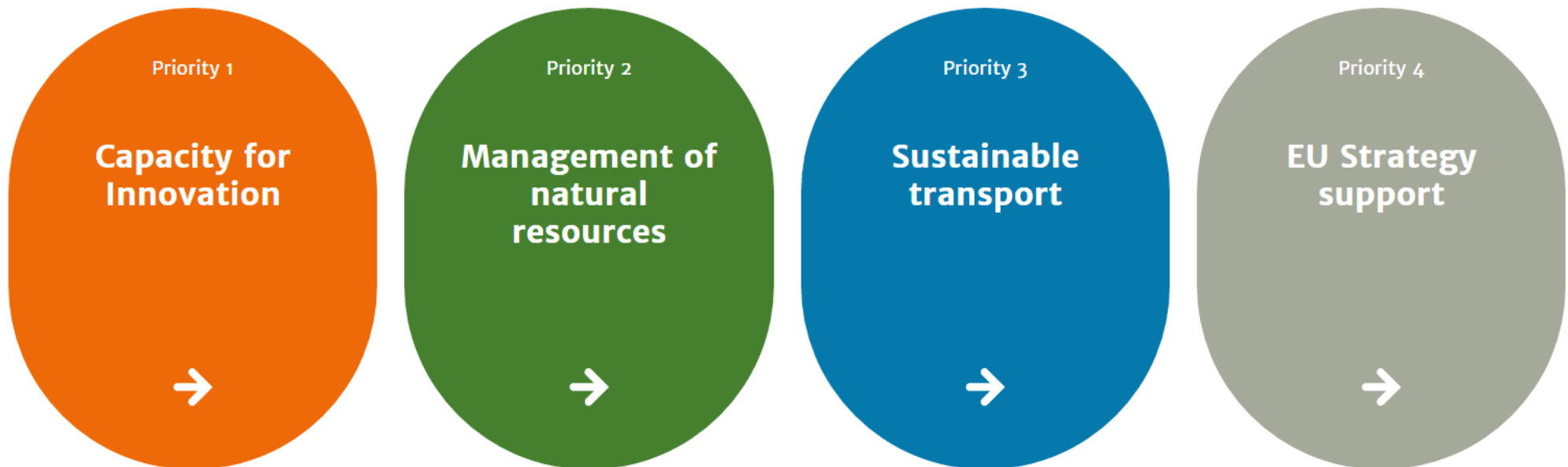
Priority 4

**EU Strategy
support**



300 concept notes in 2015

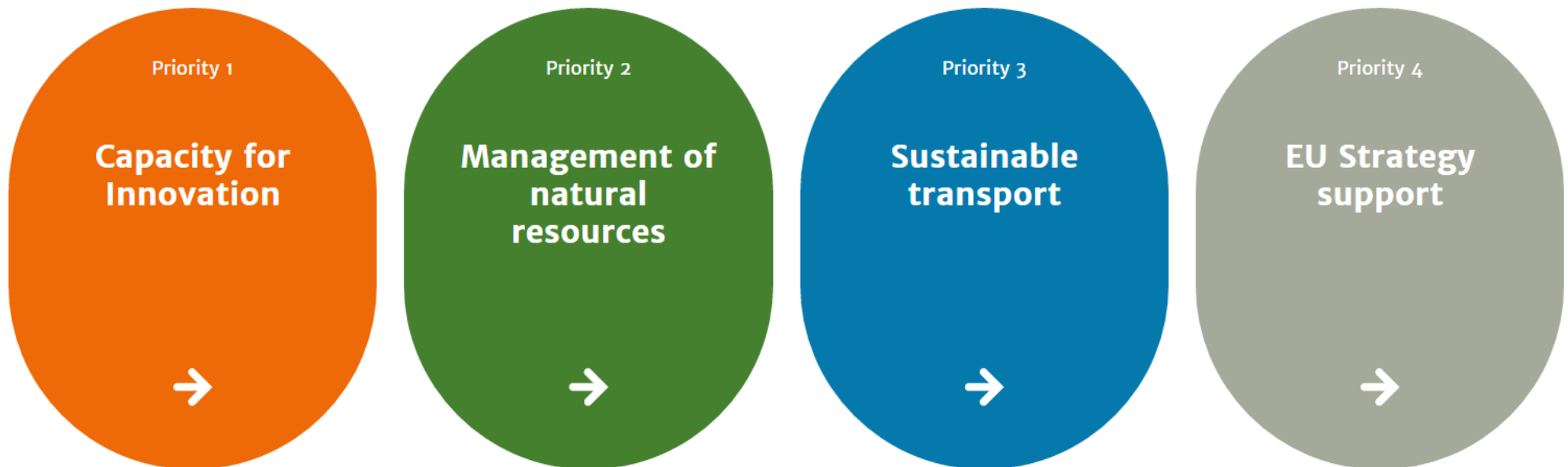
PRIORITIES




300 concept notes in 2015

35 funded

PRIORITIES





Denmark:
Generating 140 % of electricity demand
with renewable energy

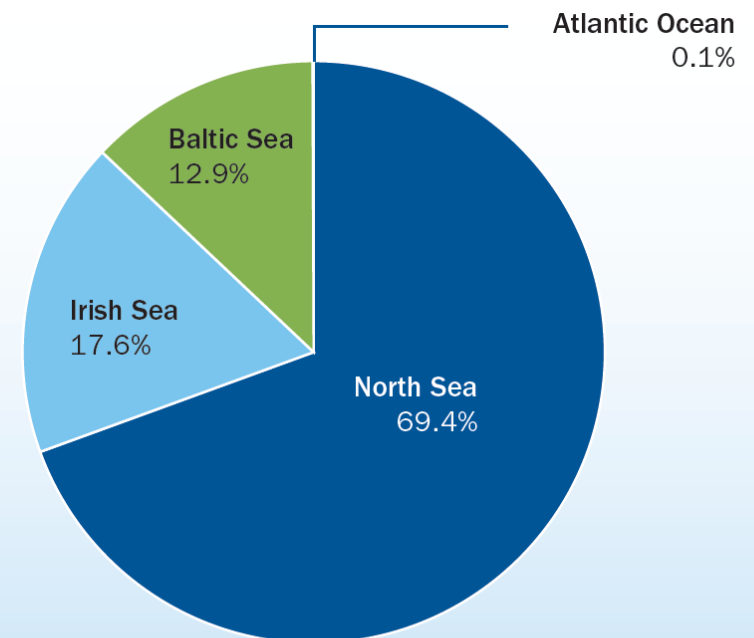
Offshore wind in the Baltic Sea Region

- BASREC estimates offshore wind potential of 130 GW
- 12,2 could be installed by 2030
- **2014**: Only 1,1 GW installed
- 12% of OWE in Europe in BSR



Comparatively young OWE market

FIG. 14: INSTALLED CAPACITY, CUMULATIVE SHARE BY SEA BASIN

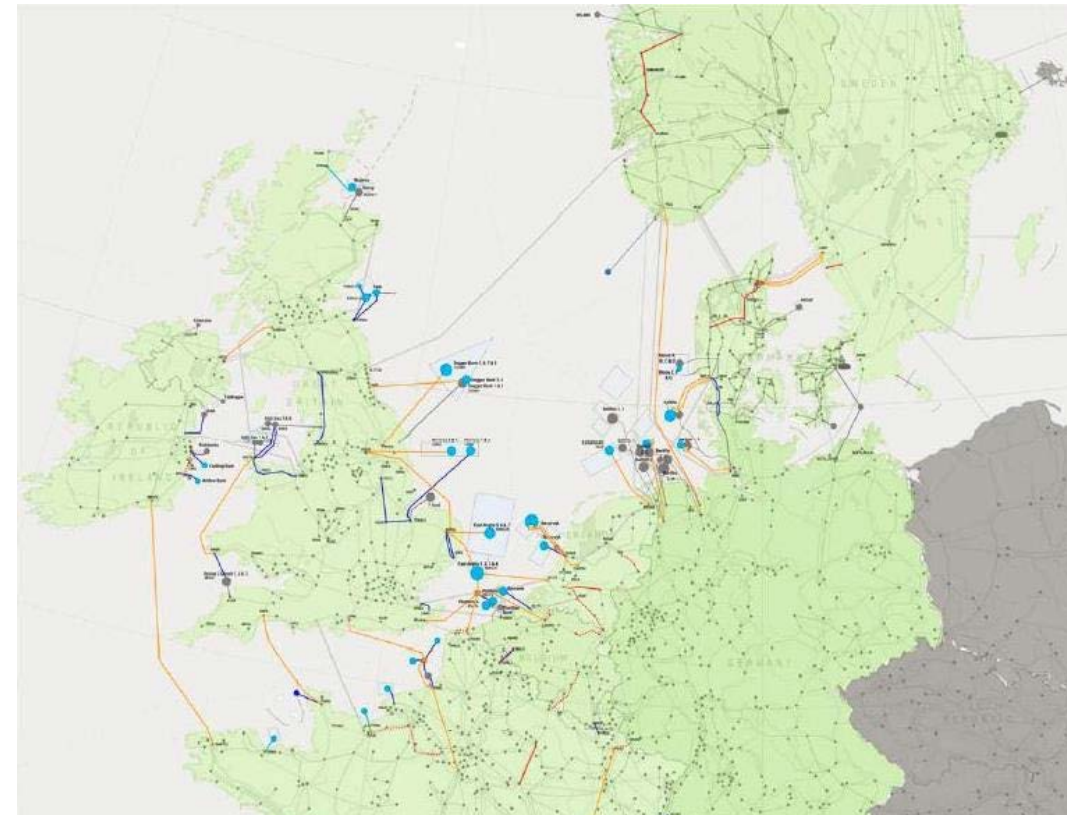


Lessons from the North Sea

- EU funded:

Study of the benefits of a meshed offshore grid in Northern Seas region

- Higher initial costs than radial connections
- Compensated by finance and distribution efficiency gains



Enhanced OWE and grid planning

“ Electricity Grid Expansion in the Context of Renewables Integration in the BSR ” - BASREC

- Regional electricity grid development to accommodate increasing share of RES
- Enhanced balancing of grid through grid expansion
- Need for more interconnectors



The Baltic InteGrid

Research framework conditions for meshed grid in BSR to optimize efficiency and potential of OWE, with a view to:

- Contribute to sustainable indigenous electricity generation
- Further integration of electricity markets
- Enhancing security of supply in the BSR
- Facilitating the development of offshore wind

Project outputs

1. Baltic Offshore Grid Forum

4 Public conferences, 6 country workshops and 12 disciplinary focus seminars

2. Baltic Grid Concept

Research: Policy & regulation, market and supply, technology and grid, environment and society, spatial planning, cost-benefit

3. Prefeasibility Studies

Two in-depth connection case studies

4. Strategic Recommendations

Recommendations on the road ahead derived from previous outputs



The Consortium

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

The Consortium

Germany

- Siemens AG
- BMUB (Ministry for the Environment, Nature Conservation, Building and Nuclear Safety of Germany)
- Ministry of Energy, Infrastructure and State Development of Mecklenburg- Vorpommern
- 50Hertz Transmission GmbH
- Ecologic Institute
- Kisters AG
- Becker Büttner Held

Denmark

- Danish Energy Association
- Energinet.dk
- Danish Wind Industry Association

Latvia

- Ministry of Economics

Finland

- Finnish Wind Power Association

Estonia

- Elering-generating opportunities

Lithuania

- The Ministry of Energy
- Litgrid AB

Poland

- Inwestycje Infrastrukturalne Sp. Z O.O
- Maritime Office in Gdynia
- PGE Energia Odnawialna S.A.
- Polish Offshore Industry Association
- PSE S.A. Polskie Sieci Elektroenergetyczne
- Baltex Energia i Górnictwo Morskie SA SKA



- 14:00 | Introduction to the Baltic InteGrid
[Simon Schäfer-Stradowsky](#) | Managing Director
[Anika Nicolaas Ponder](#) | Project Coordinator
IKEM | Institute for Climate protection, Energy and Mobility
- | Grid Infrastructure in Lithuania: Outlook on Offshore and Renewables
[Andrius Šimkevicius](#)
Litgrid AB
- | The Challenges of Offshore Wind: A Grid Operator's Perspective
[Nadja Ballauf](#)
50Hertz

15:30 | Coffee break

- | Renewable Energy and Offshore Wind Development in Poland:
The Potential of Regional Cooperation
[Dr. Maciej M. Sokołowski](#)
Foundation for Sustainable Energy, Poland
- | Sweden's Renewable Energy Plans and the Future for Offshore
[Pierre Ståhl](#)
Energikontor Sydost AB (Energy Agency for Southeast Sweden)
- | Finnish Framework for Wind and Offshore Energy: State and Outlook
[Prof. Ari Ekroos](#)
University of Aalto, Finland
- | Public Participation in Wind Energy and Infrastructure Projects:
The Danish experience
[Prof. Birgitte Egelund Olsen](#)
University of Aarhus, Denmark