



European
Commission



Perspectives for Wind Offshore within the Energy Union

26 February 2019

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Baltic InteGrid Conference, Berlin

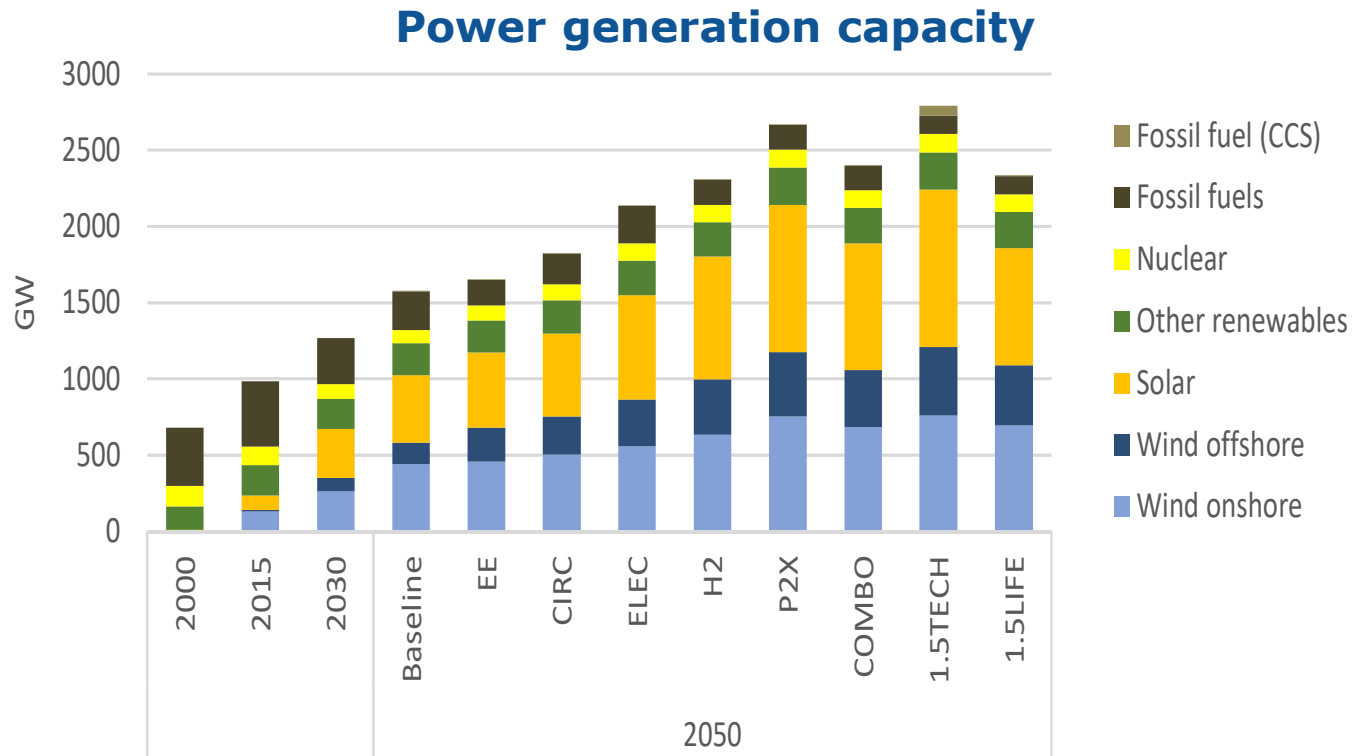


A long-term strategic vision for a climate neutral economy in 2050 (LTS)

- **Achieving the Paris Agreement**
 - **EU as world leader in climate action**
 - **Transforming towards a climate neutral economy**
- **7 building blocks** (including renewable energy deployment and infrastructure & interconnections)

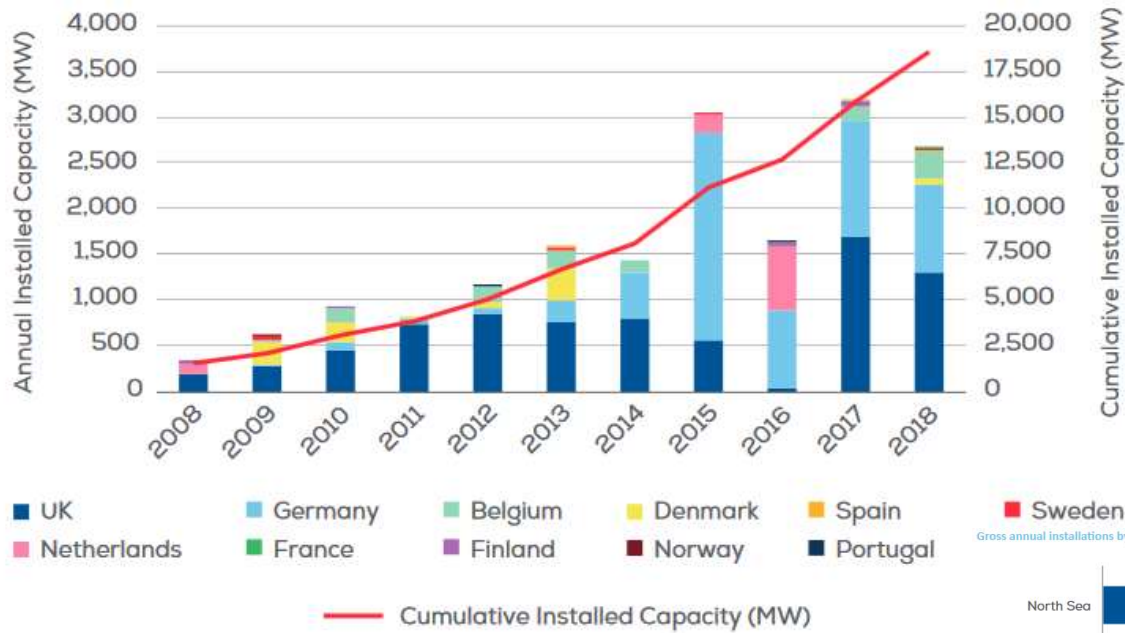
Deployment of renewables in 2050

- > 60% of all energy produced from renewables
- > 80% of electricity produced by renewables



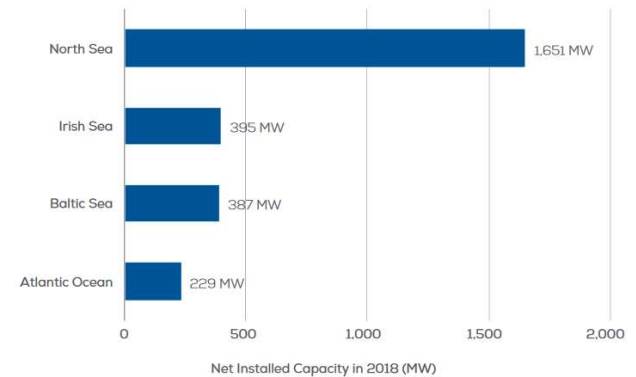
Where we stand today

Annual offshore wind installations by country and cumulative capacity (MW)



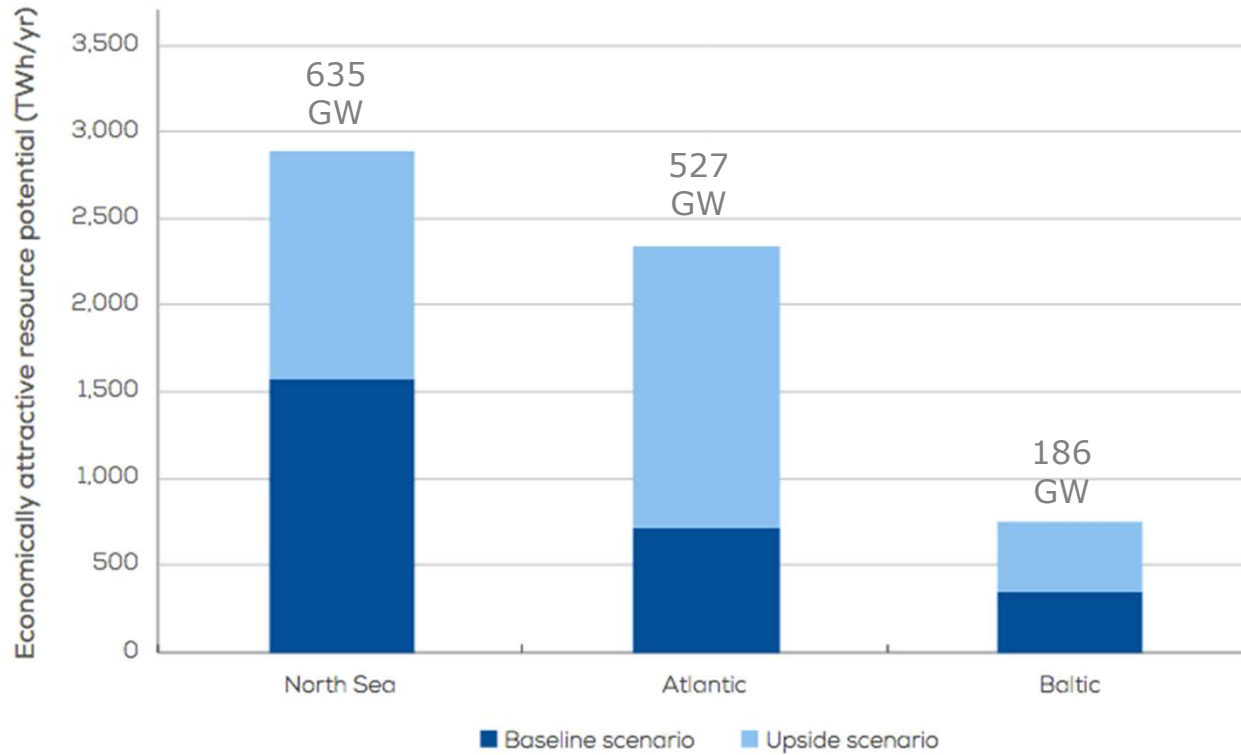
WindEurope (2019)

Gross annual installations by sea basin in 2018 (MW)



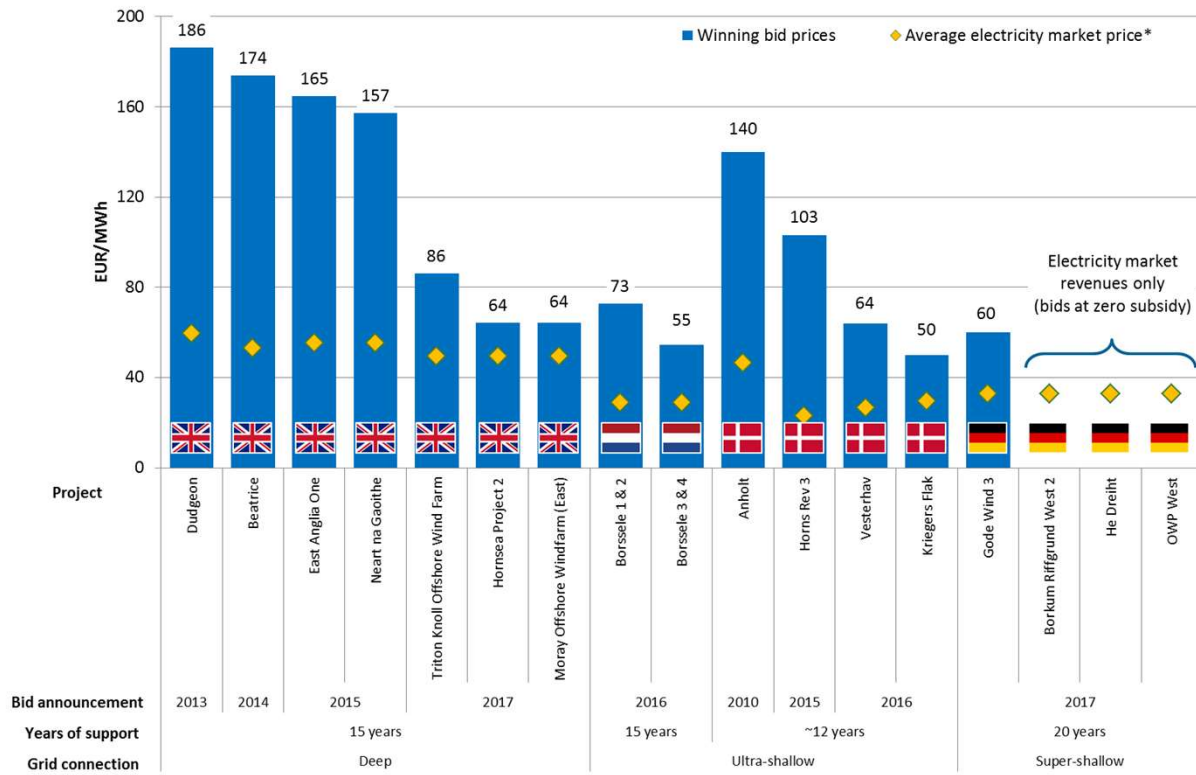
The potential we have

Economically attractive resource potential at the end of 2030 by sea basin



WindEurope (2017)

Strong decline in support costs

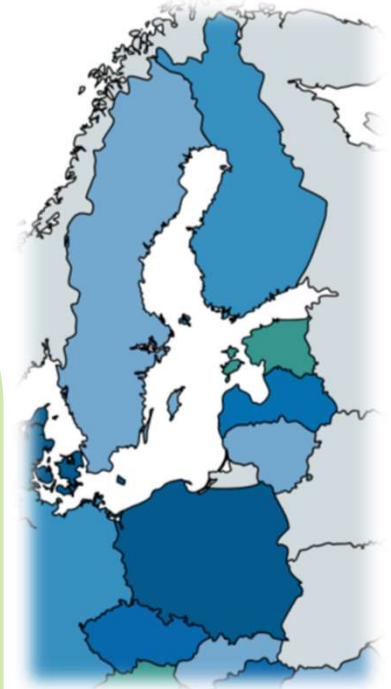
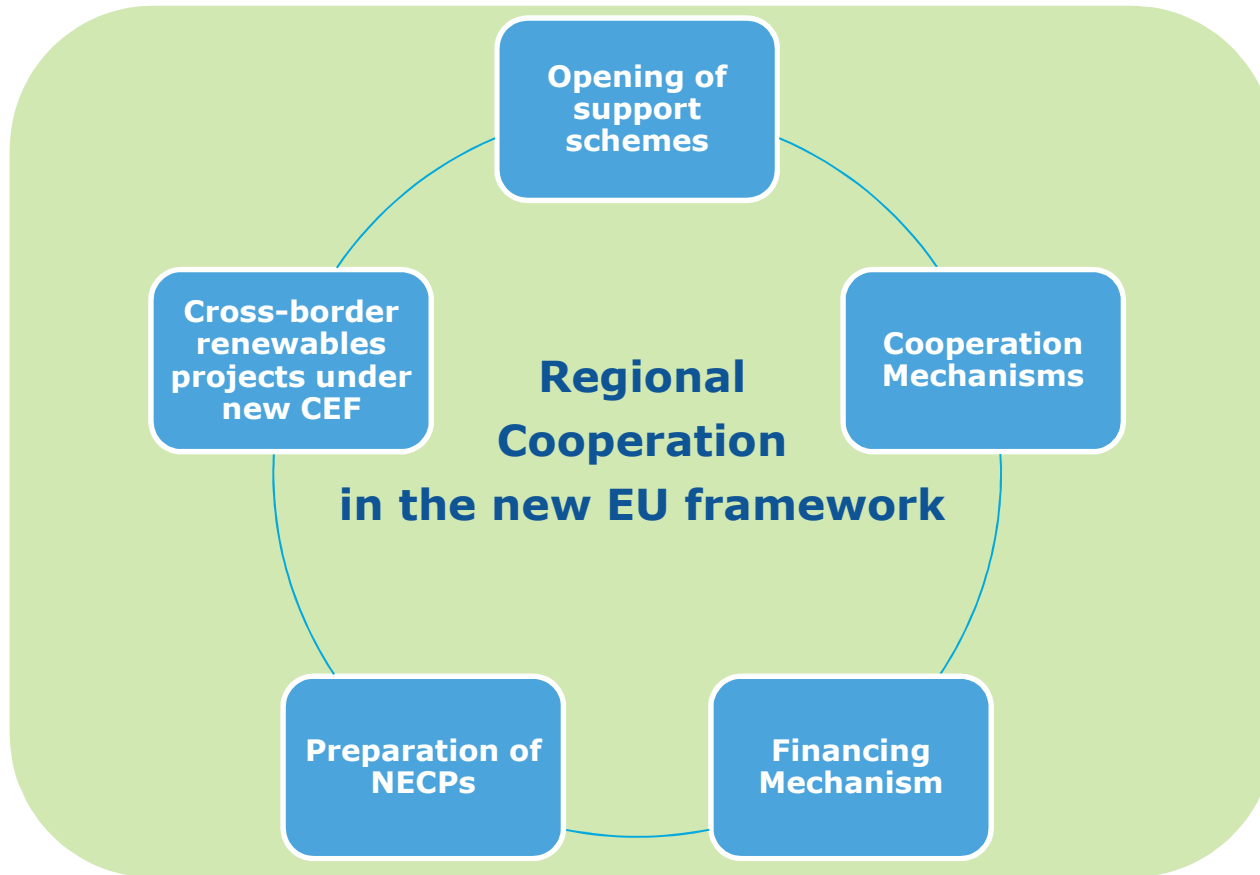


Source: JRC

Regional cooperation essential to reap the potential cost-effectively

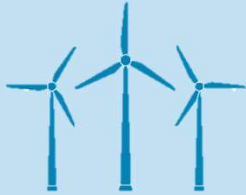
- Regional cooperation core element of the Clean Energy Package / Governance Regulation of the Energy Union
 - National Energy and Climate Plans (NECPs)
- Strengthened cross-border cooperation, including
 - Renewable energy deployment
 - Grid development

Deploying renewable energy cost-effectively



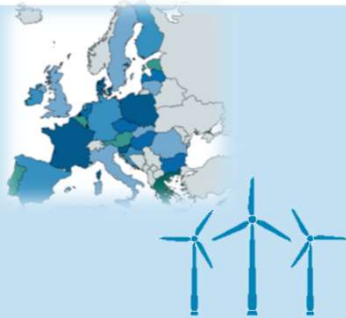
New Connecting Europe Facility (CEF) Cross-border projects in the field of renewable energy

WHY?



- **New political context for 2030 renewables objectives: EU target and regional cooperation**
- **55 % share of RES in EU electricity in 2030**
- **Cost-effective RES deployment**

WHAT?



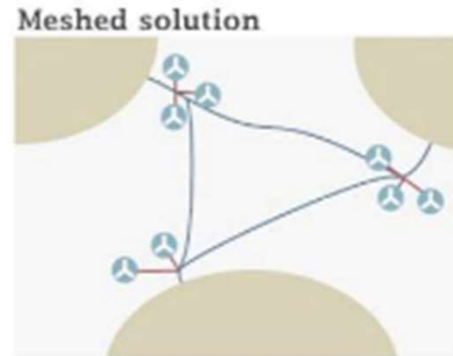
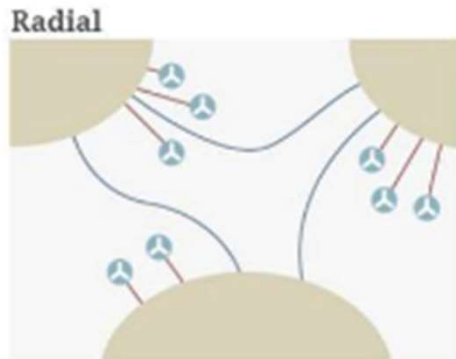
- **Facilitate RES projects under a cooperation agreement between 2 or more MS**
- **Support uptake of strategic RES technologies**

HOW?

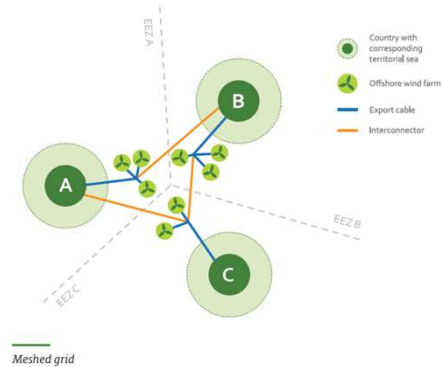
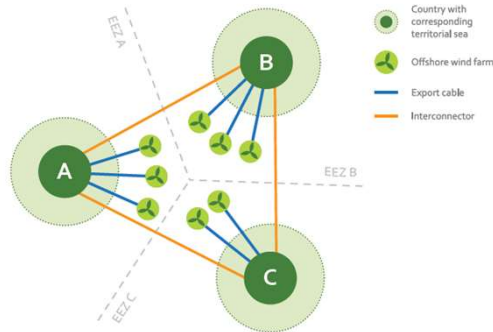


- **Technical assistance, blending**
- **Financial support to limited number of projects with clear EU-added value**
- **(Up to 10% of the CEF-E budget)**

Connecting installations cost-effectively

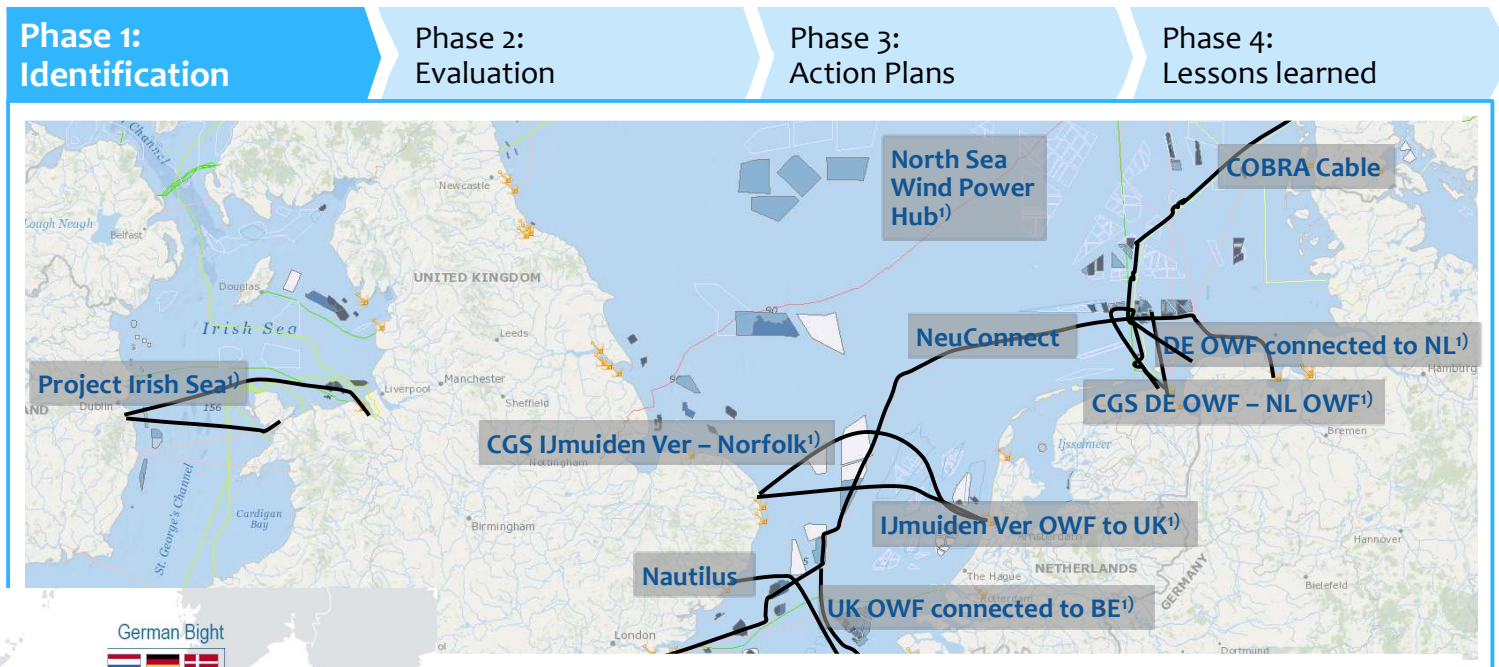


Ecofys, Tractebel et al. (2014)



Radial connections
Baltic InteGrid (2019)

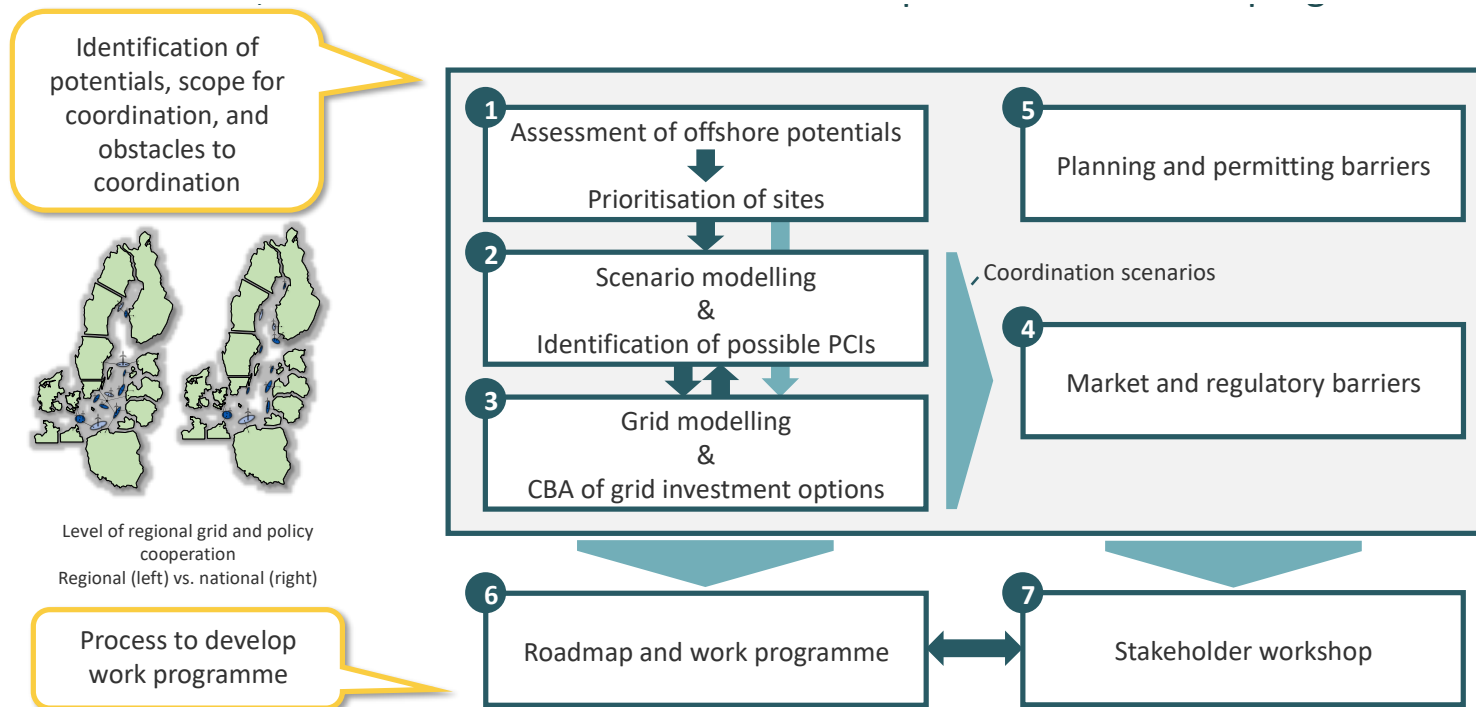
Offshore cluster study within the North Seas Cooperation



¹⁾ routing indicative

RolandBerger (2018)

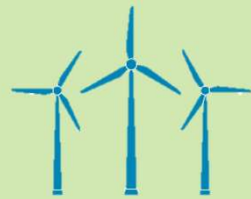
Wind offshore study within the BEMIP cooperation



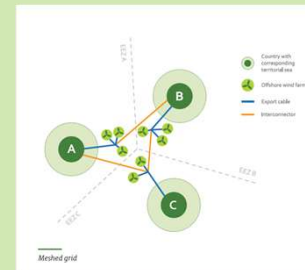
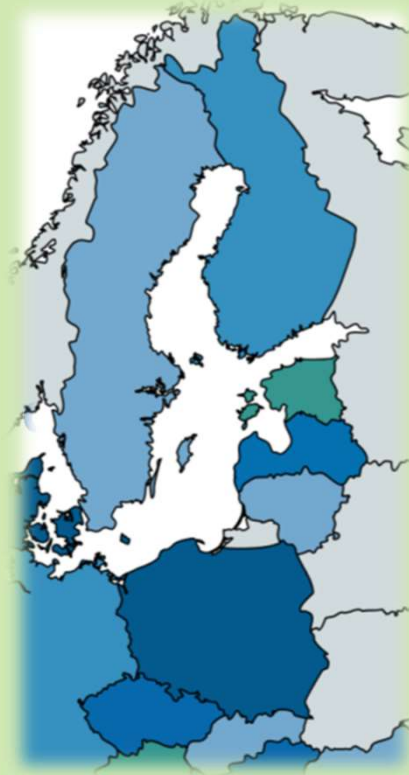
THEMA (2019)

Towards a roadmap for a cost-effective wind offshore development in the BEMIP region

Important elements for cooperation:



Renewables deployment



Grid deployment

Thank you.

**European Commission
DG Energy**

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