

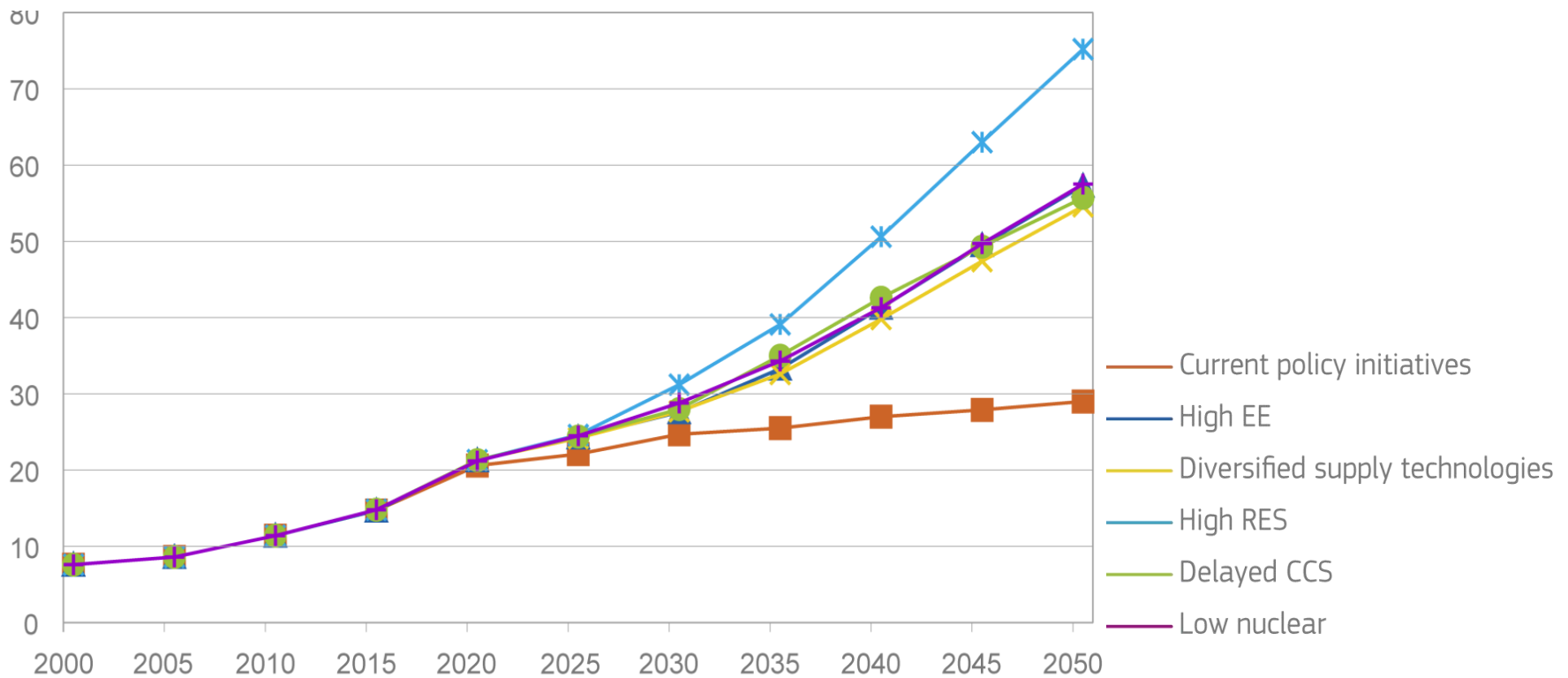


Trends towards 2020 – What the North Seas can contribute



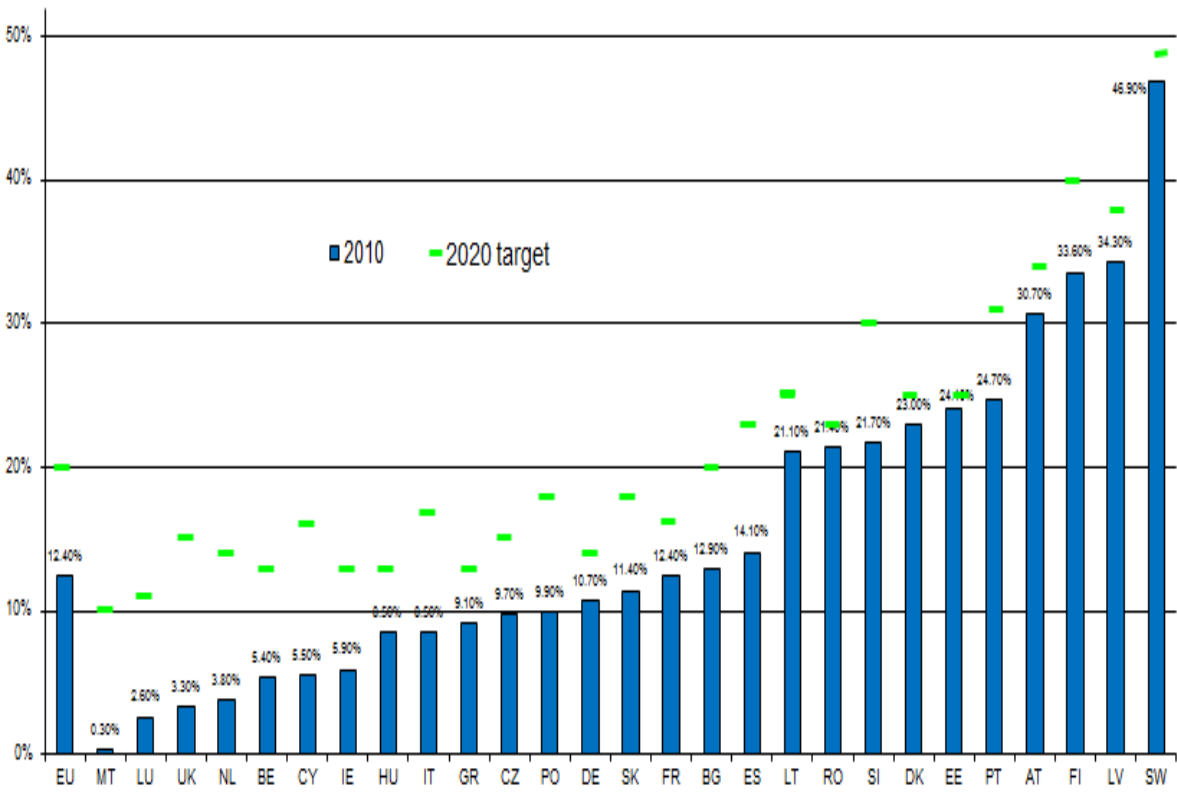
Marie Donnelly
DG Energy, Director
European Commission

2050 Energy Roadmap: Renewable Energy as "no regrets option"

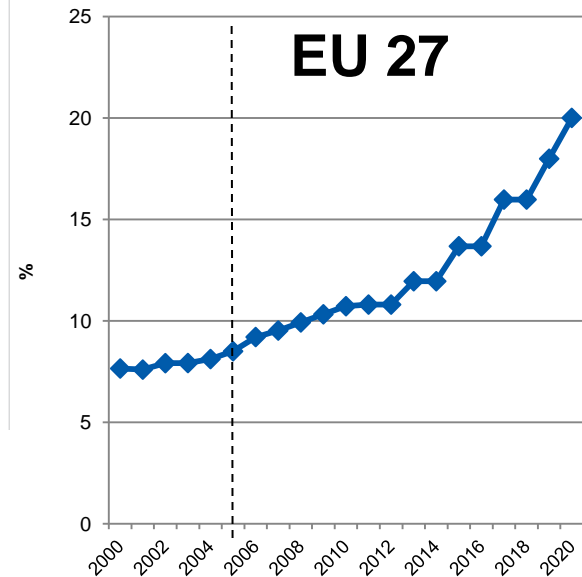


Any pathway to "decarbonisation" requires a renewable energy share of between **55%** and **75%** by 2050 This compares to **12%** today and **30%** under "business as usual".

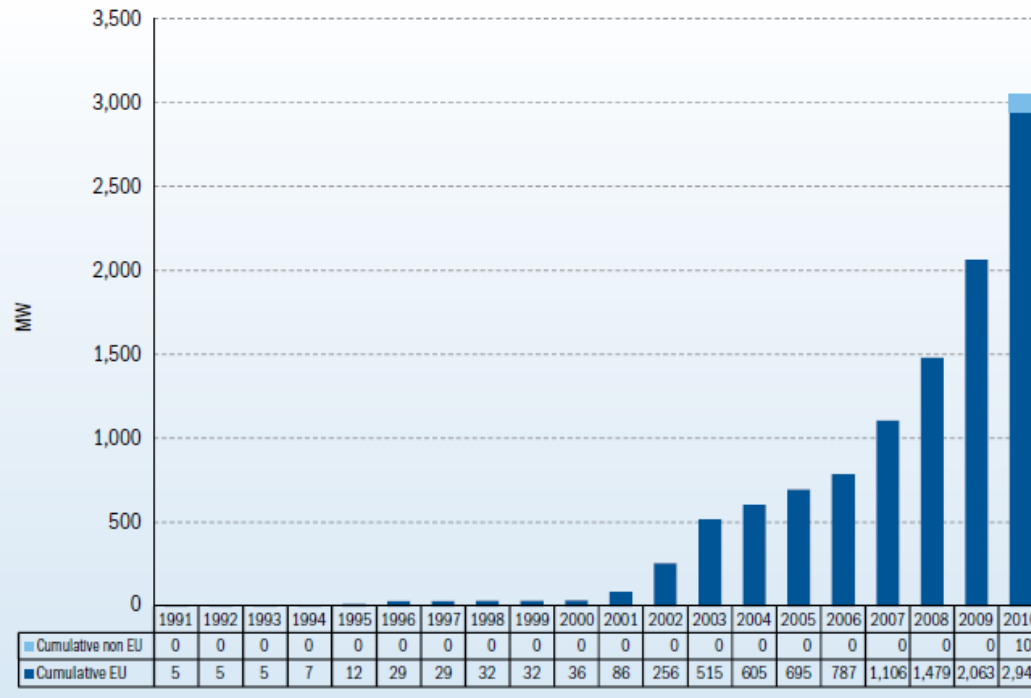
Progress so far on the targets ...



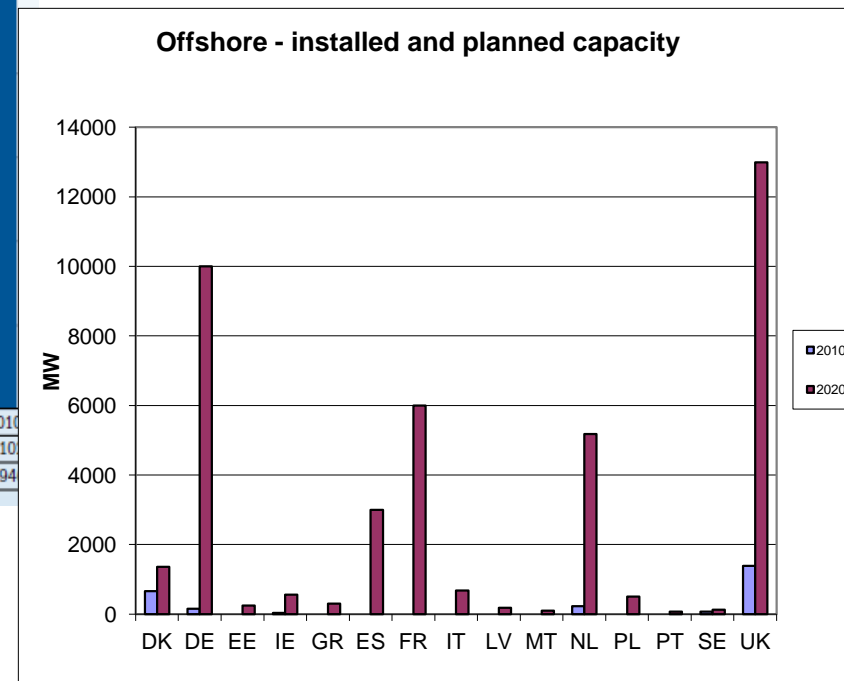
... and trajectory ahead!



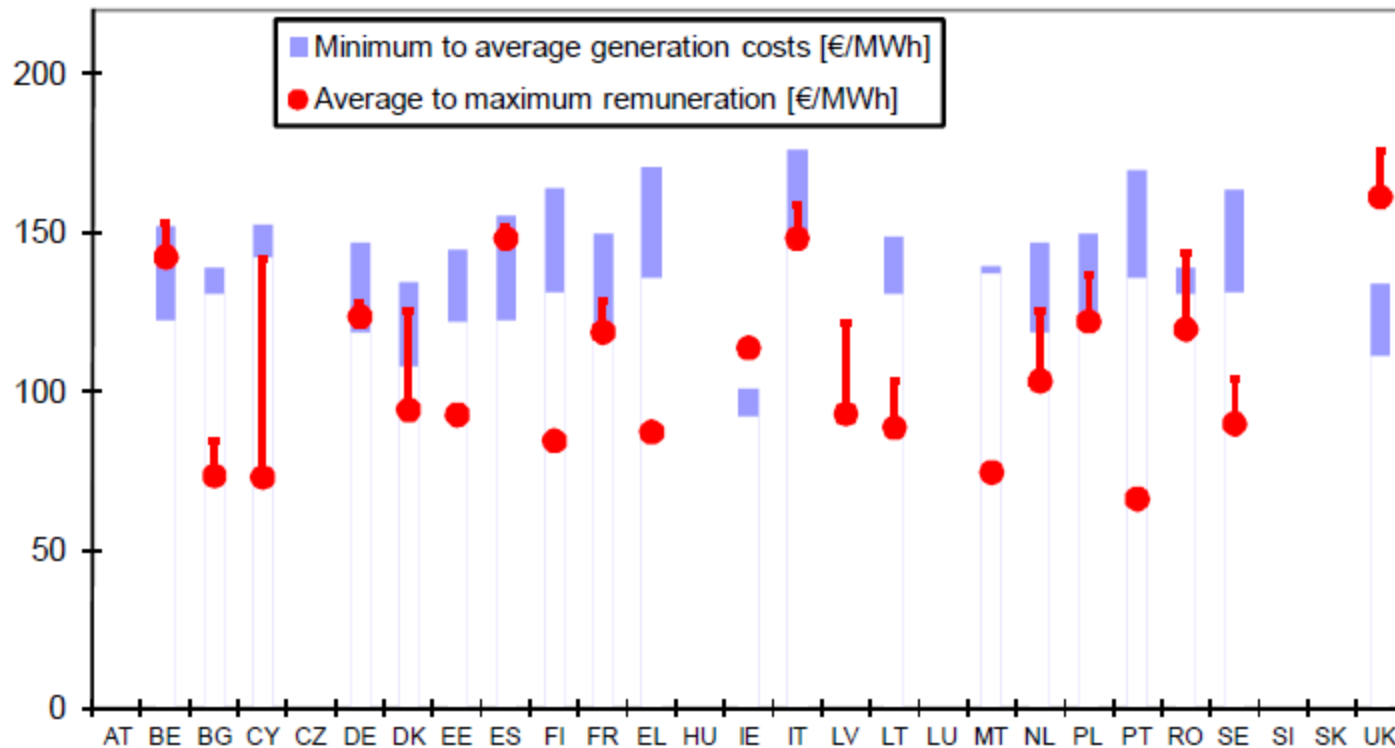
Offshore growth is picking up speed, but the large increase is still to come...



Installed by 2012: almost 5 GW
Planned by 2020: 40.4 GW

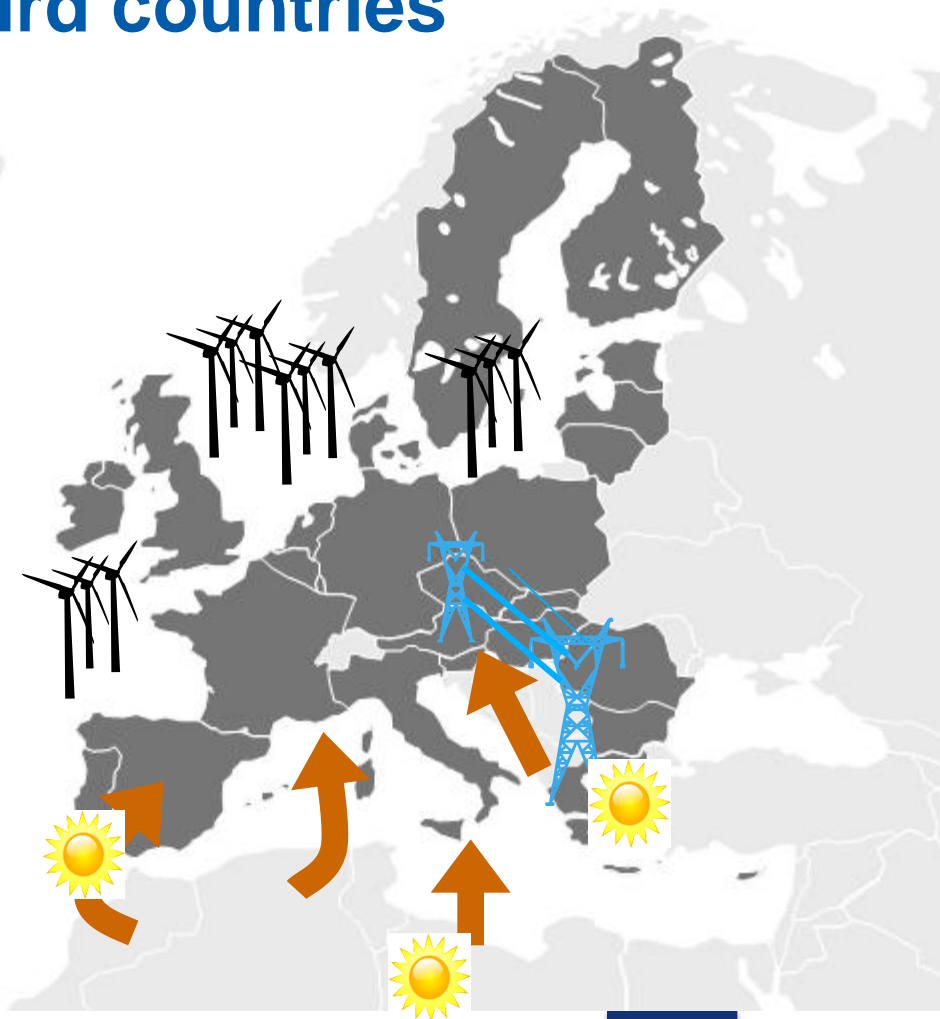


Support levels sufficient for offshore wind?



Remuneration ranges (average to maximum remuneration) for offshore wind in the EU-27 MS in 2011 (average tariffs are indicative) compared to the long-term marginal generation costs (minimum to average costs).

Cooperation and trade between the EU and with third countries



Increases the European and regional market for renewables and so improves the cost effectiveness of renewables.

- Guidance on cooperation
- Creating the appropriate legal framework for the Southern Mediterranean

Northern Seas Countries Offshore Grid Initiative

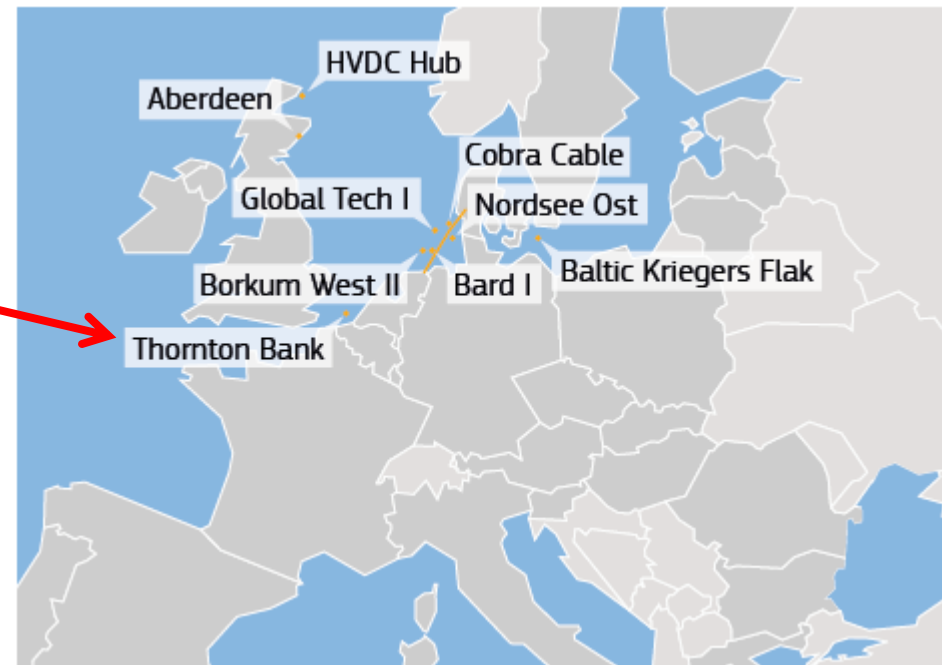
- Participation of 9 EU Member States + Norway covering app. 90% of planned offshore capacity
- Memorandum of Understanding (December 2010) - framework for regional cooperation, to find common solutions to questions related to grid infrastructure development in the North Seas
- Three focus areas/working groups:
 - » Grid configuration
 - » Regulatory & market framework
 - » Planning & authorization





Technological barriers? EU finance for R&D and innovation

Programme	No of projects	Total value (M€)
FP 7	28 projects	246
EEPR	9 projects	565



EEPR offshore program:

- Turbines and components
- Grid integration

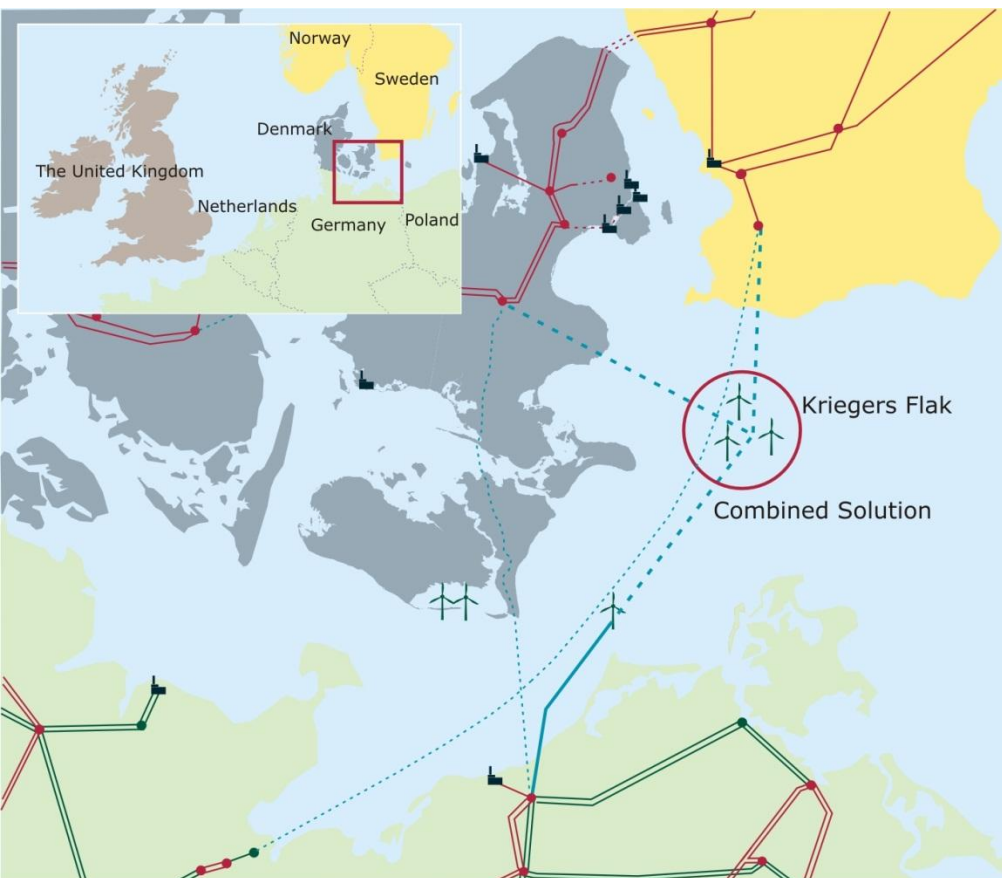
New Concept for Connection of Offshore Wind : Kriegers Flak

Concept:

- Using the OWF cables for
 - » Grid connection of OWF
 - » Electricity trade
 - » Security and Supply

Benefits:

- Optimizing socio-economic welfare
- Improved electricity market
- Improved security of supply
- Demonstration of new technologies
- Stepping stone for North Sea



EU Energy policy outlook



Short-term follow-up to RES and IEM Communications:

- Guidance on support scheme reform
- Guidance on cooperation mechanisms
- 2013 Communication on energy technology

Process towards a post-2020 renewable policy energy regime

- Milestones for 2030, iterative process with Member States, European Parliament, stakeholders
- Dialogue on the development of future energy systems/transformation

http://ec.europa.eu/energy/renewables/index_en.htm

Thank you for your attention

