

Marine Science meets Maritime Industry 30 mei 2017, Oostende

North Seas Energy Forum

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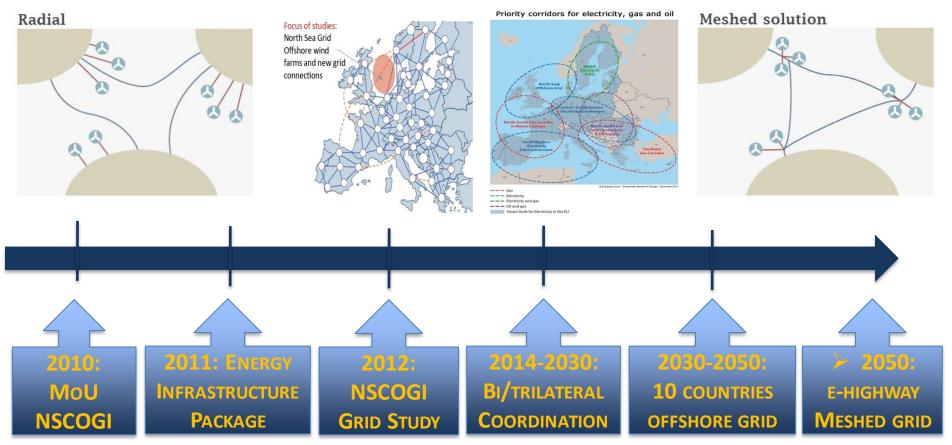






- ❖ NSCOGI was established on 3 December 2010 by the signing of an MoU: 10 countries (BE, D, DK, UK, IRL, FR, LUX, S, N, NL) + European Commission
- The signatories declare that they:
 - ➤ Share the common goal of moving to a <u>sustainable low-carbon economy</u> while maintaining security of energy supply most cost-efficiently,
 - ➤ Recognise that the <u>renewable energy sources</u> of the North Seas have the potential to make a significant contribution to this goal,
 - ➤ Will facilitate a <u>strategic</u>, <u>coordinated development of the offshore and</u> <u>onshore grids</u> to ensure more cost-effective and sustainable investment,
 - ➤ Will identify and tackle barriers to grid development at both national, regional and EU-level, in particular regulatory, legal, market, planning, authorisation and technical issues,

From Radial over Regional to Meshed





NSCOGI 2012 Report:

Status of the Annexes of the MoU		
Working Group 1:	Working Group 2:	Working Group 3:

Grid configuration & integration

Deliverable 1 Policy considerations (generation &

load scenario)

Completed

Deliverable 2 Grid and technological considerations

Completed Deliverable 3

North Seas Grid Study Completed

Deliverable 4 Case studies

Future work

Deliverable 5 Costs and benefits assessment Ongoing work

Market & Regulatory issues

Deliverable 1

Regulatory benchmark Completed

Deliverable 2

Guiding High Level Principles Completed

Deliverable 3

Costs and benefits identification

and allocation Future work

Completed

Deliverable 4

Anticipatory investments

Future work

Deliverable 5 **Market Arrangements for**

increased penetration of RES

Planning & Autorisation

Deliverable 1

Permitting benchmark

Completed

Deliverable 2

Procedural guidelines

Completed

Deliverable 3

Tools to reduce length and

complexity

Ongoing work

Deliverable 4

Best practices

Ongoing work



Results and lessons learnt (NSCOGI studies)

- Meshed offshore grid raises complex issues → regional cooperation is needed
- Possible benefits of meshed grid are of different nature (cost savings, security of supply, environmental impact,...)
- Further improvement of long term network planning through a structural dialogue between governments and TSOs, adequacy of the scenarios, expected policy developments
- A case-by-case approach to cost allocation is needed
- Incremental approach





Challenges

- International cooperation is resource intensive (for further work still needed on anticipatory investments, interaction of support schemes, asset classification, ...)
- Regulatory and trading arrangements closely intertwined with network codes
- Go from research cases to test cases





- The benefits for competitiveness and speeding up the internal energy market remain. Clear link to electricity market reform and great potential for further North Seas cooperation.
- But:
- -> the sole focus on offshore grid planning is not sustainable if not complemented by a focus on *offshore generation* perspectives;
- -> to reap all potential benefits in terms of cost reduction, closer cooperation is needed with *project promoters, investors and the industry;*
- -> the conceptual work performed by NSCOGI is ready but urgently needs a *reality check*;
- -> this could ideally be done on the basis of some predefined *pilot* (investment) projects;



Political declaration on energy cooperation between the North Seas Countries (6th June 2016)

- HLG & Coordinators Committee
- Support Groups:
 - 1. Maritime spatial planning
 - 2.Development & regulation of offshore grids and other offshore infrastructure
 - 3. Support framework and finance for offshore wind projects
 - 4.Standards, technical rules and regulations in the offshore wind sector
- Secretariat
- Co-work Governments/European Commission





Support Group 1 Maritime spatial planning

- Coordinating the planning and development of offshore wind and grid projects beyond national borders including area mapping
- Developing a common environmental assessment framework for MSP
- Increasing the availability and interoperability of marine data for planning, impact assessment, licensing and operations
- Exchanging best practices on site preparation
- Exchanging best practices on permitting procedures and work on the modalities of a coordinated permitting process for concrete regional or sub-regional joint offshore projects





Support Group 2 Development & regulation of offshore grids and other offshore infrastructure

- To remove regulatory barriers to the development of interconnectors and hybrid assets
- Development of project plans for concrete hybrid projects
- To enable a regionally optimised North Seas offshore grid and to reduce the risk of stranded or redundant grid assets
- To optimise useful linkages with the oil/gas industry





Support Group 3 Support framework and finance for offshore wind projects

- Coordination and step-wise alignment of national support schemes for offshore wind
- Cooperation on the timing of tendering as well as increased coordination of wind offshore planning across North Seas countries
- Development of concepts for concrete joint (pilot) projects, and exploring opportunities for the opening of support schemes and joint tenders
- Mobilisation of investment capital for joint (pilot) projects, for instance through EU funds such as EFSI and CEF, and institutional investors.





Support Group 4 Standards, technical rules and regulations in the offshore wind sector

- The harmonisation of rules concerning aviation markings and lights;
- The harmonisation of health and safety requirements;
- The alignment of crew and vessel requirements;
- The mutual recognition and harmonisation of certification standards for components in offshore wind projects;
- Exchanging best practices on park layout constraints including line of sight requirements;
- The establishment of a common approach, for example by establishing facilities for innovation, testing and demonstration of new technology;
- Investigating a common approach to rules applicable to offshore turbines in territorial waters and exclusive zones.





North Seas Energy Forum 23rd March 2017

The North Seas Energy Forum brings together representatives of the public, private and non-governmental sectors in the Northern Seas region to discuss challenges and opportunities and the role of stakeholders in realising the region's full energy potential.





High Level Group – Directors general (17 May 2017)

- Guidance for Support Groups
- Debriefing of the Stakeholder conference

 North Seas energy cooperation as flagship for regional cooperation/ cluster approach

