



European
Commission



Offshore renewables: EU strategy to 2050

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Offshore Wind Energy Congress
21 November 2022

Recent offshore wind summits



Esbjerg, 18 May 2022

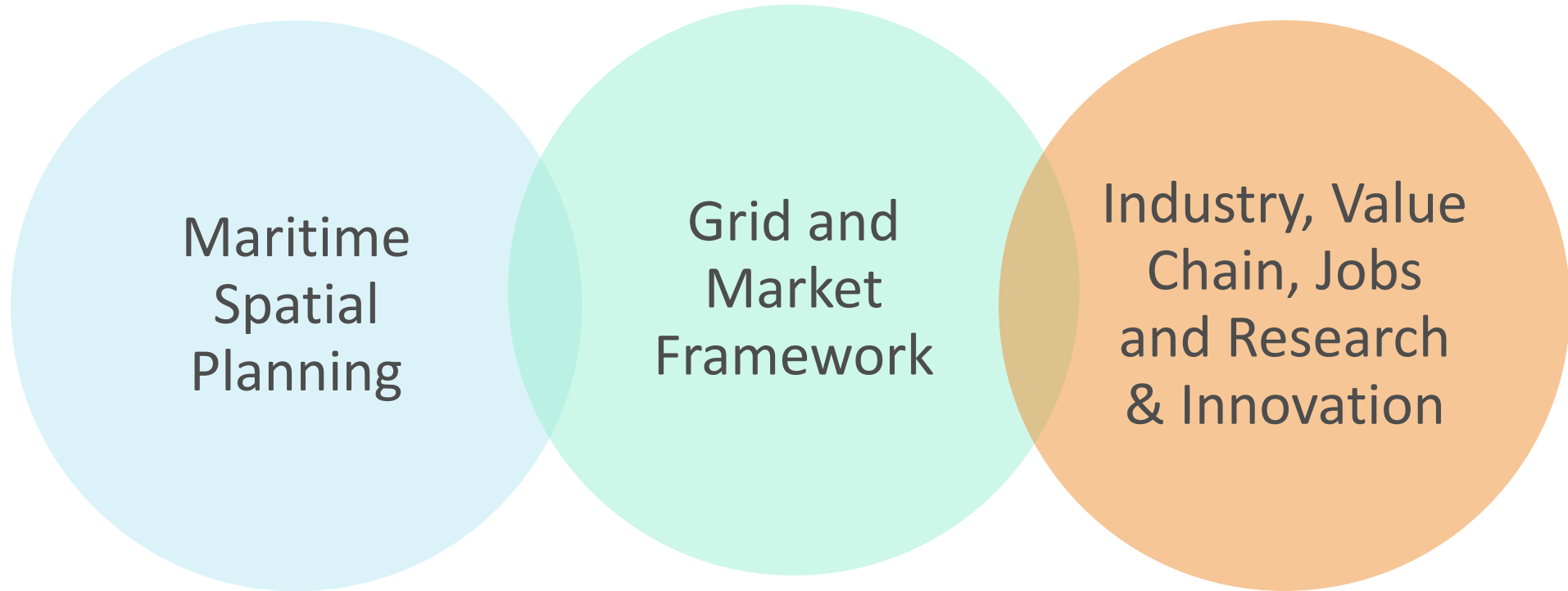


Marienborg, 30 August 2022

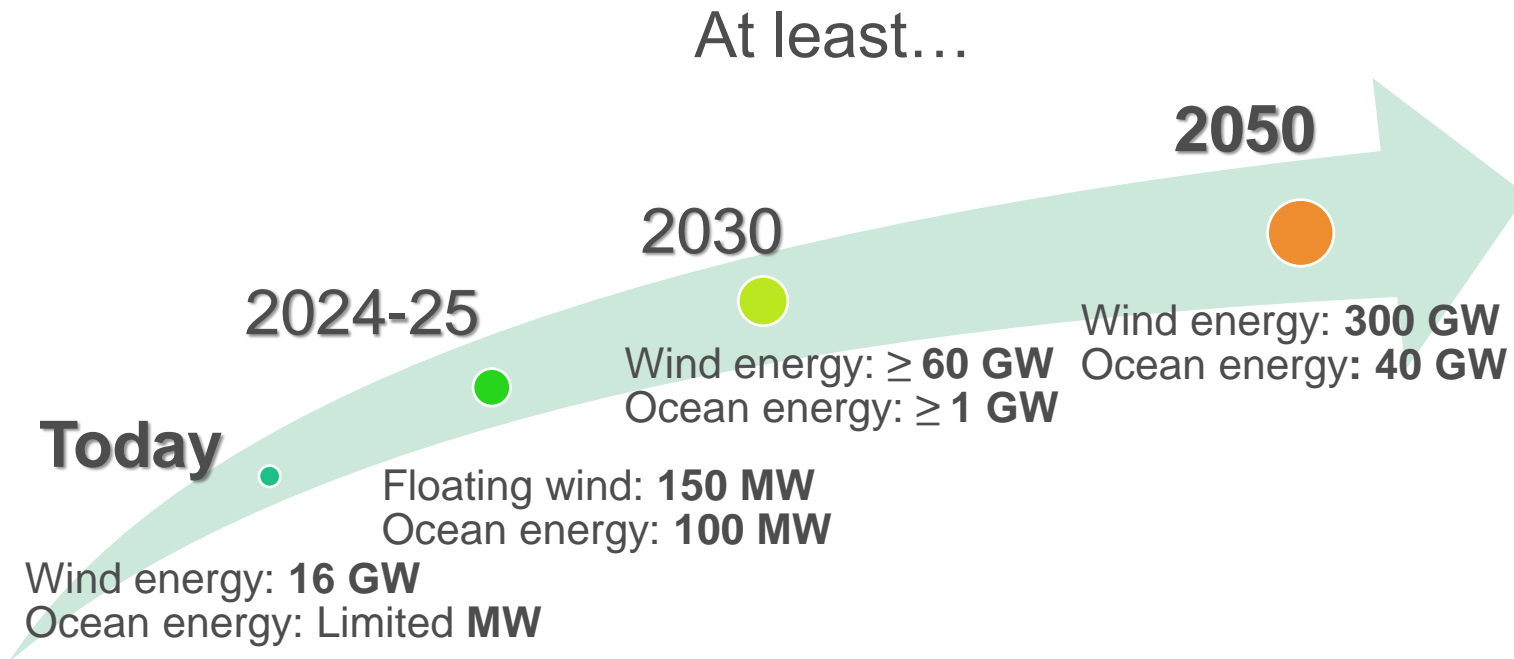


Dublin, 12 September 2022

The Offshore Strategy



The direction



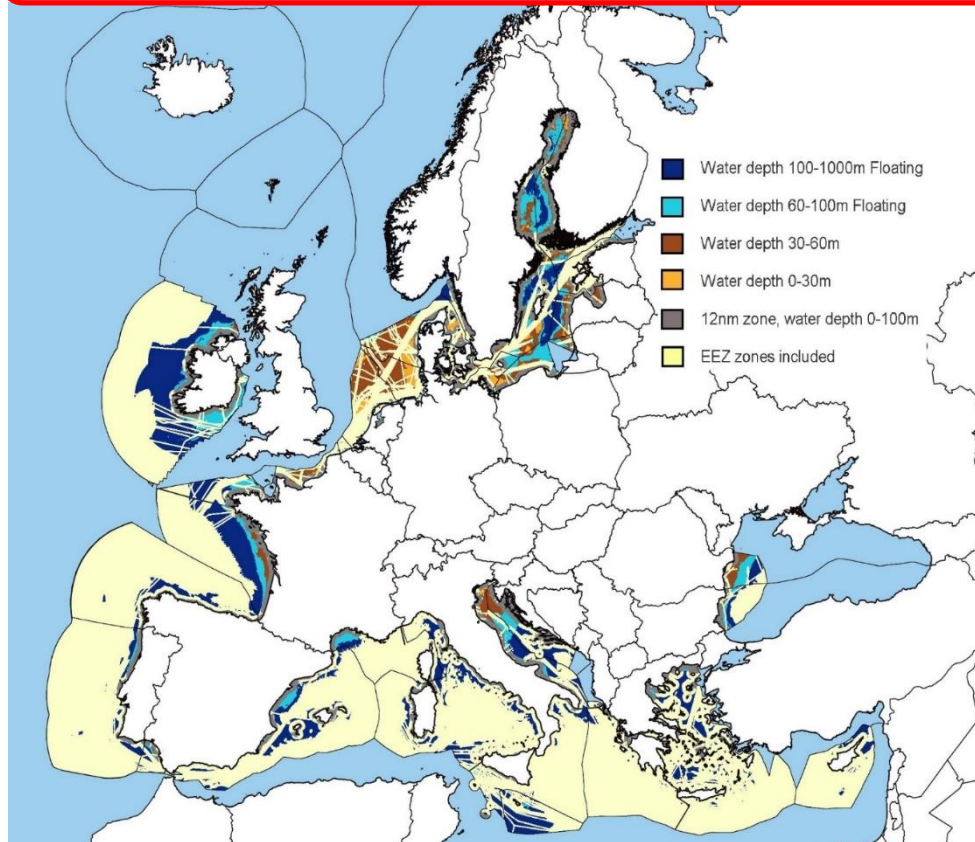
But also:

- REDII revision
- Declarations, joint statements
- TEN-E regional goals
- NECPs

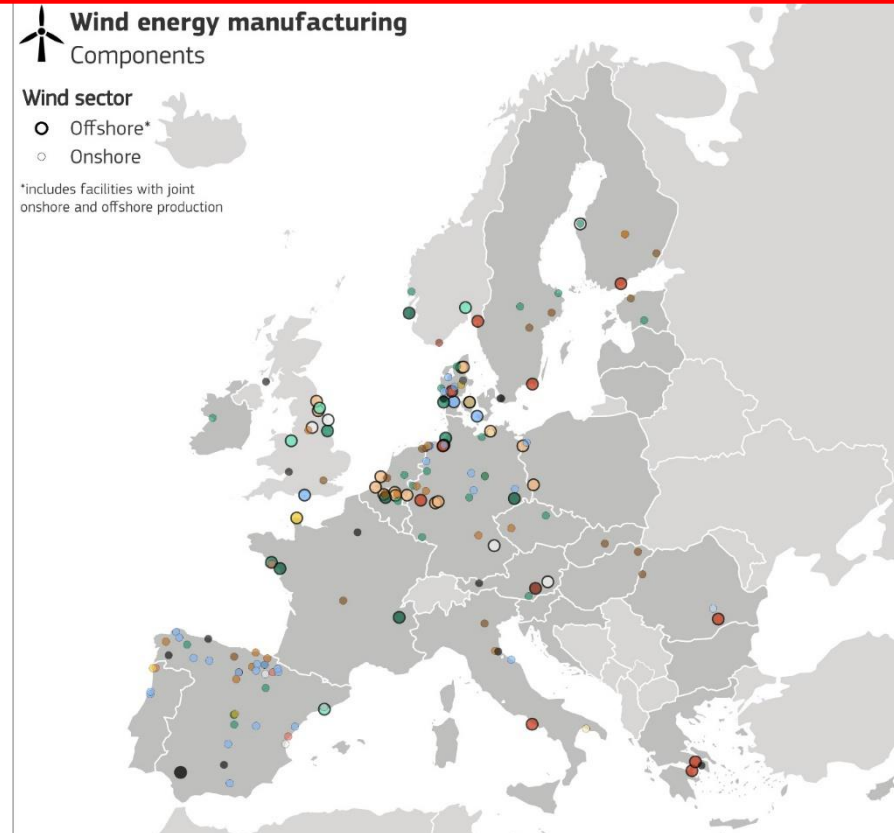
Ambitions are growing!

The entire EU considered

Energy potential in all EU sea basins



Industrial potential in all EU MS



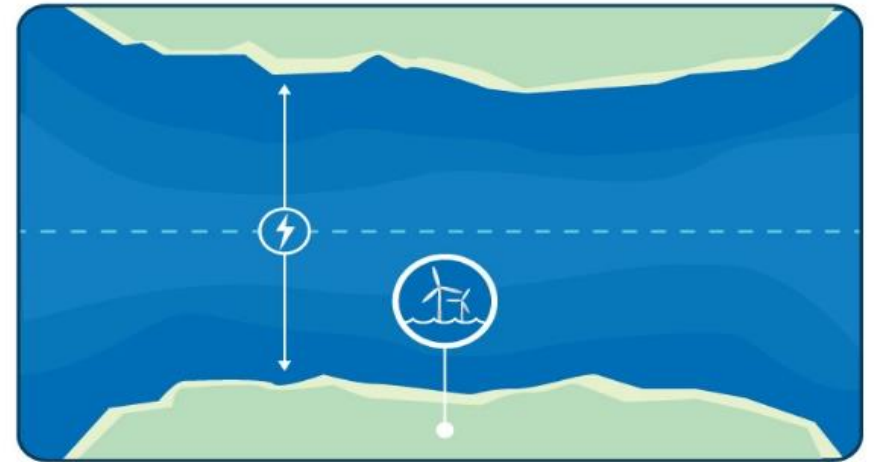
- Ports and vessels
- OEMs and manufacturing capacity
- Long-term vision and short-term visibility

Hybrid projects

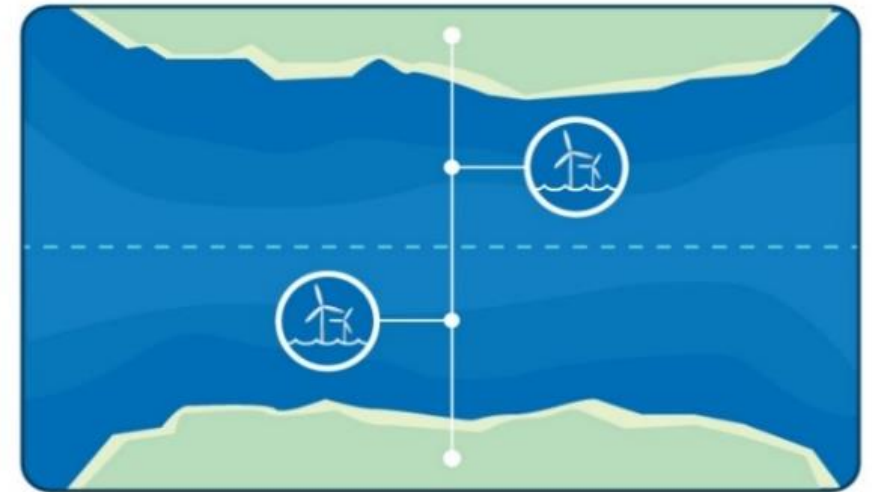
Electricity interconnection between two or more MS
+
Transport of offshore renewable energy

- Historically, national projects connected directly to the shore via radial links
- To step up deployment in a cost effective and sustainable way, **a more rational grid planning and the development of a meshed grid is key**
- Markets: offshore bidding zones as efficient setup

A share of the future offshore grid will ideally be built around hybrid projects to reduce costs and use of maritime space



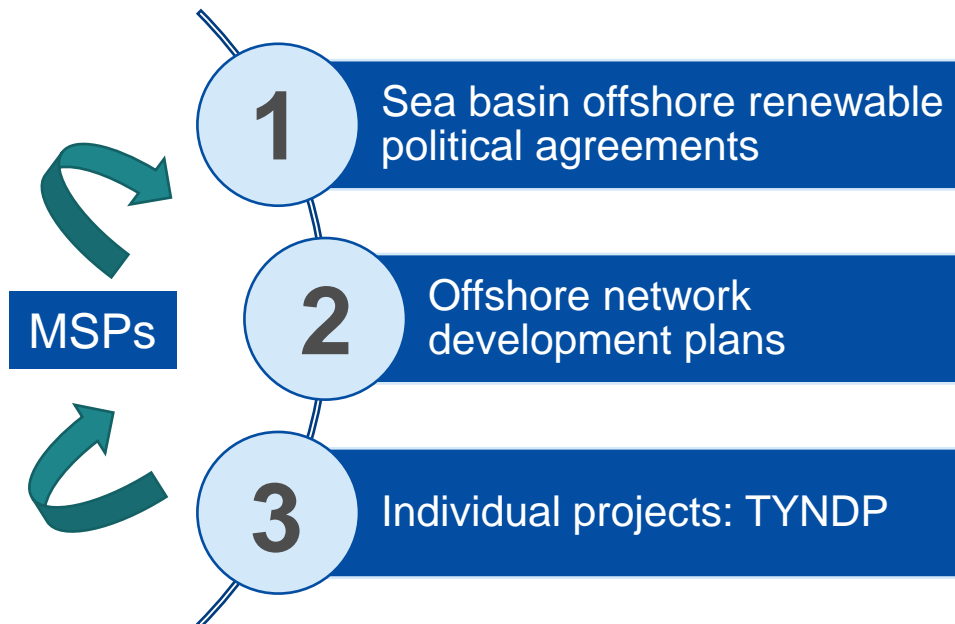
Radial connection and separate interconnector



Example of a hybrid project

Offshore planning: a top-down approach

To achieve long-term high ambitions, a **bottom-up approach only will not be enough**



1. **MSs to set long-term ambitions** for offshore RES per sea basin.
2. Such sea basin visions are then translated into **strategic offshore network development plans**: best high-level configuration of projects without going to specific project details
3. Finally, **project promoters will make specific project proposals** to be included in TYNDP

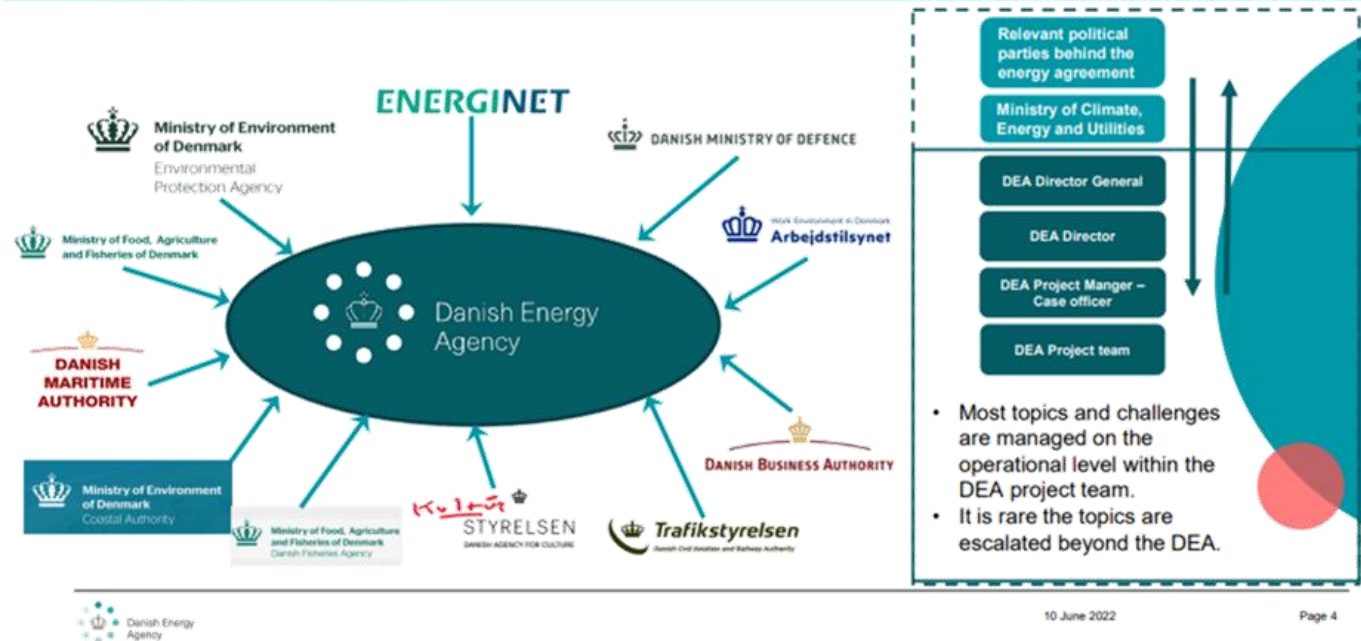
Regional coordination

- 1. High-Level Groups:** NSEC, BEMIP, SWE, CESEC → voluntary cooperation
- 2. TEN-E regional offshore infrastructure corridor groups:** NSOG, BEMIP offshore, SW offshore, SE offshore, Atlantic offshore → legally-mandated tasks
- 3. Others:** permitting (e.g. NCA platform for PCIs), MSP (e.g. EU MSP Platform), environment (e.g. OSPAR, HELCOM), etc.

Permitting

- Permitting procedures are lengthy and should be streamlined where possible. That is why we propose **one-stop shops**
- These would facilitate and coordinate the permit granting process
- Denmark has implemented a good example for offshore projects
- At national level, both RES and infrastructure permitting can be streamlined

Communication is key ... and a joint political mandate



Financing

- ❖ Electricity markets
- ❖ PPAs
- ❖ CfDs

- ❖ REFM and URDP
- ❖ Joint projects
- ❖ Joint support schemes

- ❖ CEF-Energy: Projects of Common Interest and Cross-border RES projects
- ❖ Other EU funding: https://energy.ec.europa.eu/topics/renewable-energy/financing/eu-funding-offshore-renewables_en

Public engagement and social acceptance

1. Awareness
2. Public consultations: early and continuous
 - Example IE
3. Renewable Energy Communities
 - Example BE

Implementation of the offshore strategy

- Pact for Skills: large-scale skills partnership on offshore renewables
- Working group on offshore RES under the Clean Energy Industrial Forum
- Horizon Europe calls in support of the strategy, and mapping of relevant EU funding instruments
- Setting up a SET Plan implementation working group on HVDC; promoting interoperability among converters

Industry, Value Chain, Jobs and Research & Innovation



- Tracking progress on implementation of Maritime Spatial Planning Directive
- Establishing a Community of Practice on MSP, and a European Blue Forum for dialogue between sea users
- Guidance document on wind, energy development and EU nature legislation

Maritime Spatial Planning (MSP)



- Revised TEN-E: integrated offshore grid planning; sea basin one-stop shops for permitting
- Revised Renewable Energy Directive, raising renewables target to 45% by 2030
- Guidance on cost-benefit analysis for joint renewables cross-border projects
- Study and guidance on cost-sharing between Member States

Grid and Market Framework

