



European
Commission



Offshore renewables: EU strategy to 2050

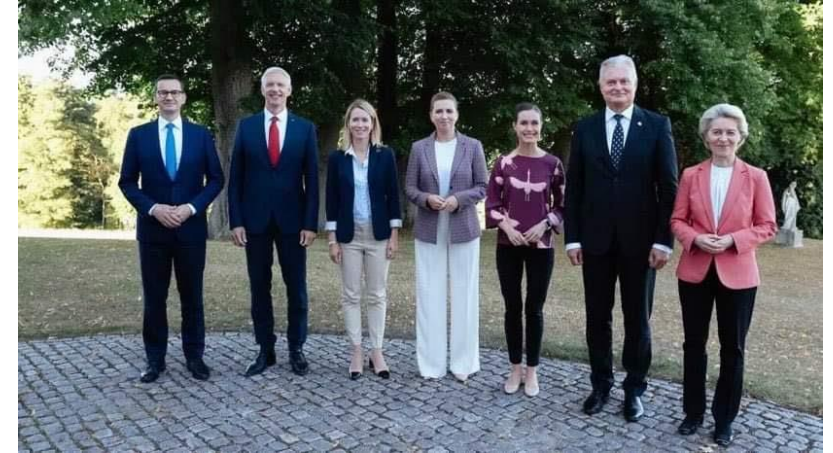
Ricardo Renedo Williams
European Commission, DG ENER

Offshore Wind Energy Congress
21 November 2022

Recent offshore wind summits



Esbjerg, 18 May 2022

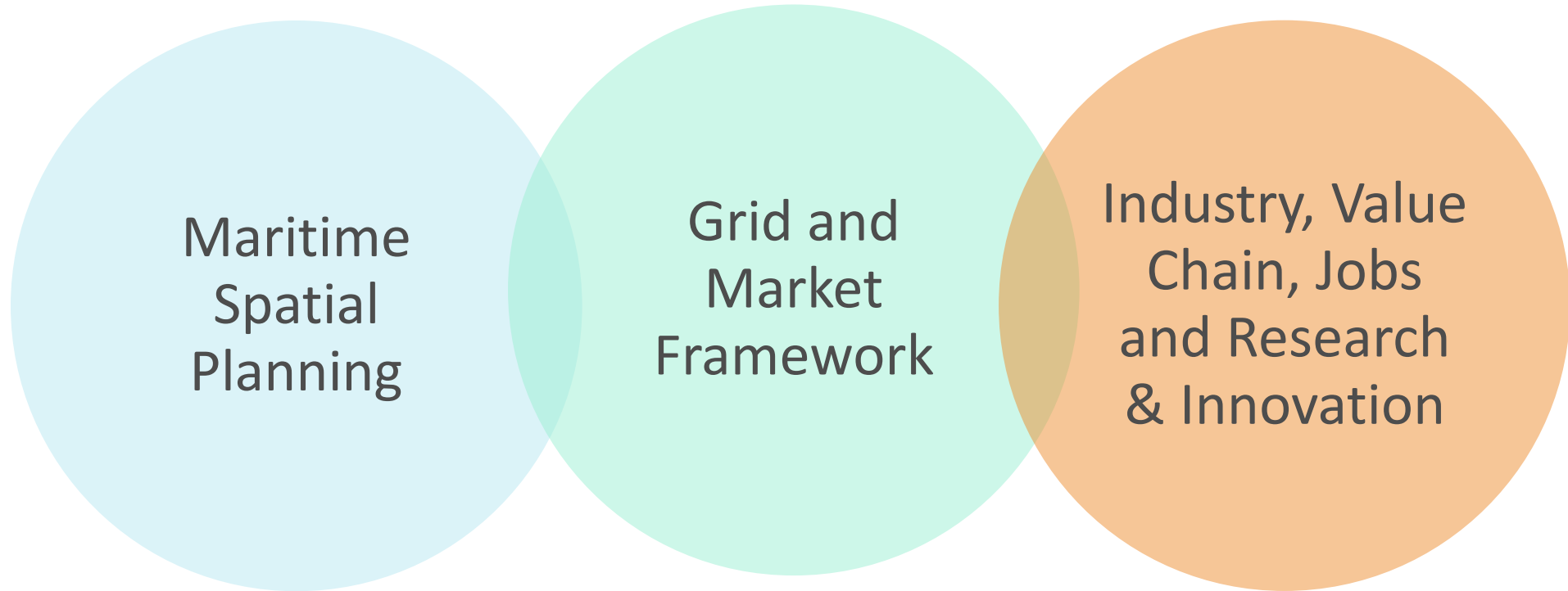


Marienburg, 30 August 2022

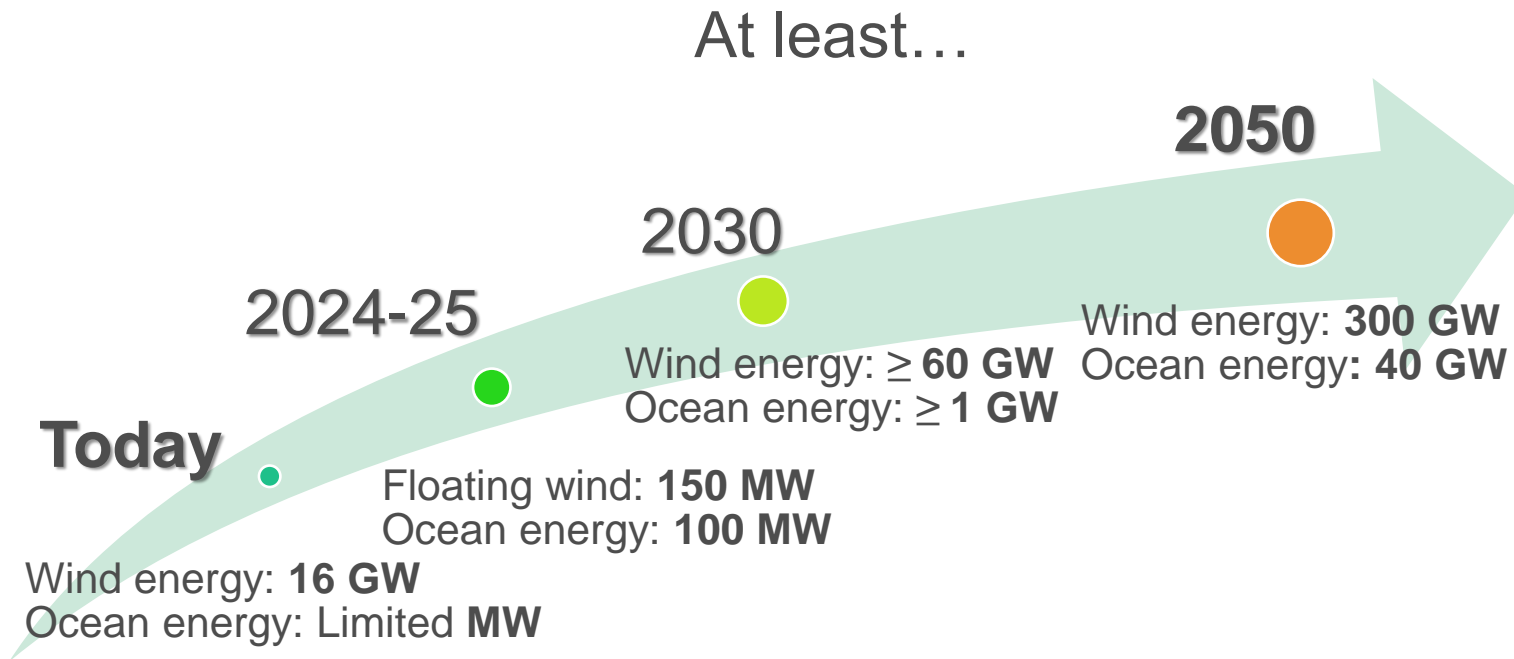


Dublin, 12 September 2022

The Offshore Strategy



The direction



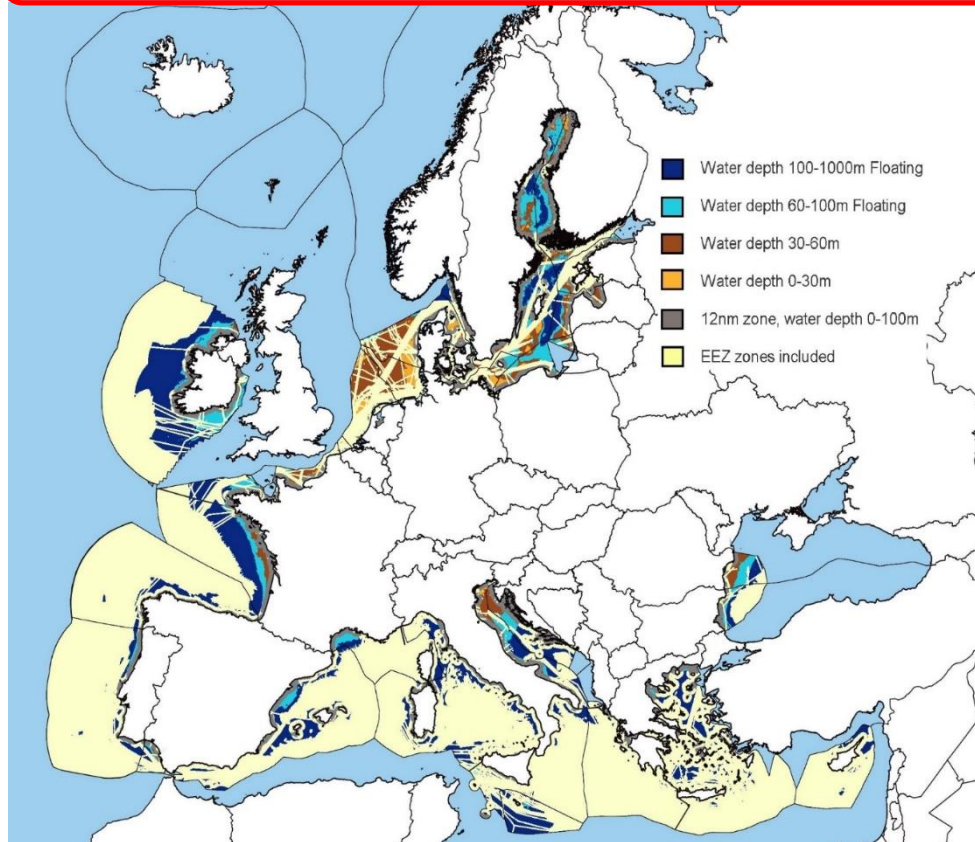
But also:

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

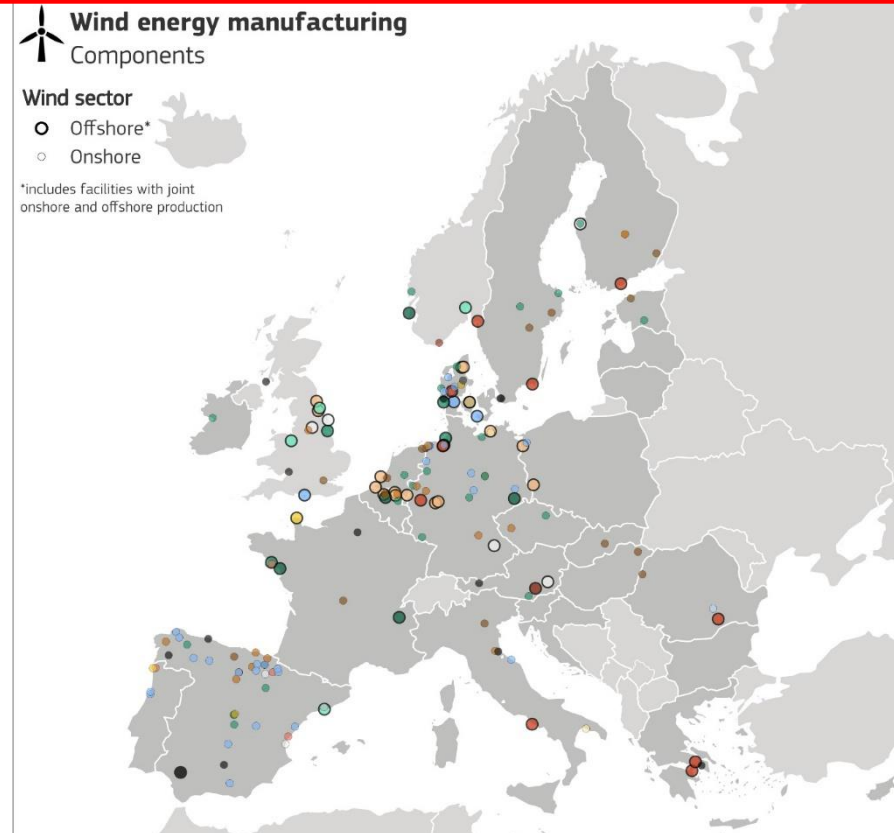
Ambitions are growing!

The entire EU considered

Energy potential in all EU sea basins



Industrial potential in all EU MS



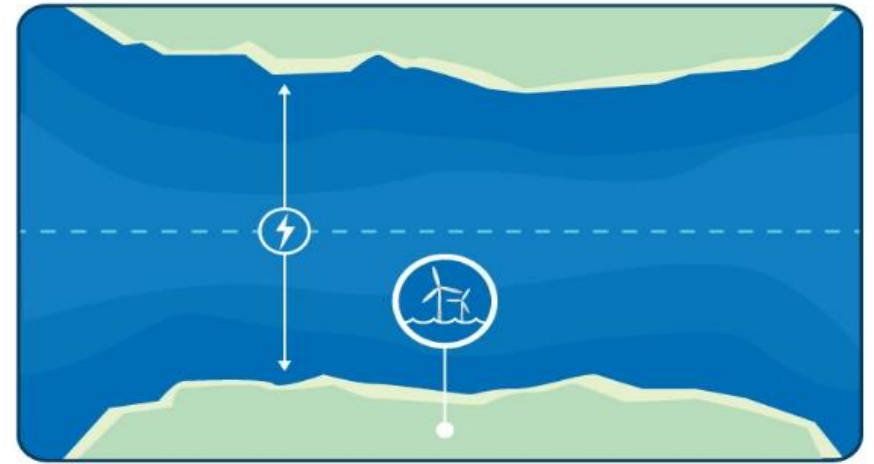
- Ports and vessels
- OEMs and manufacturing capacity
- Long-term vision and short-term visibility

Hybrid projects

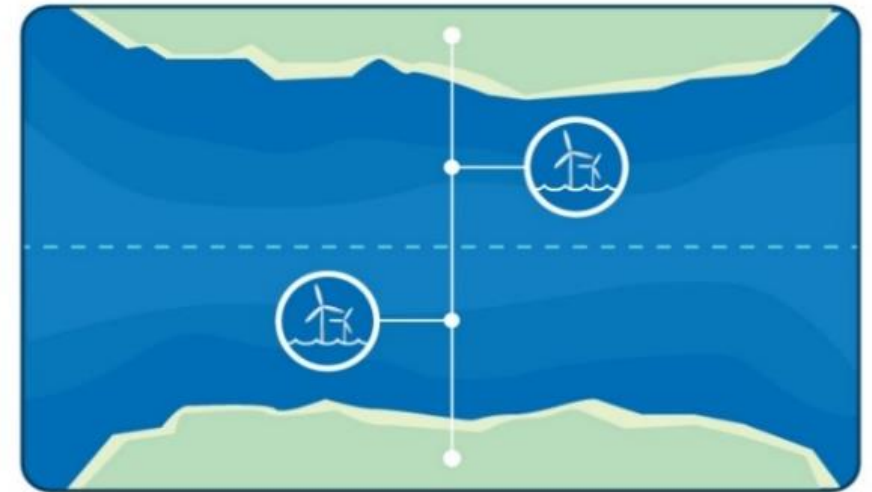
Electricity interconnection between two or more MS
+
Transport of offshore renewable energy

- 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



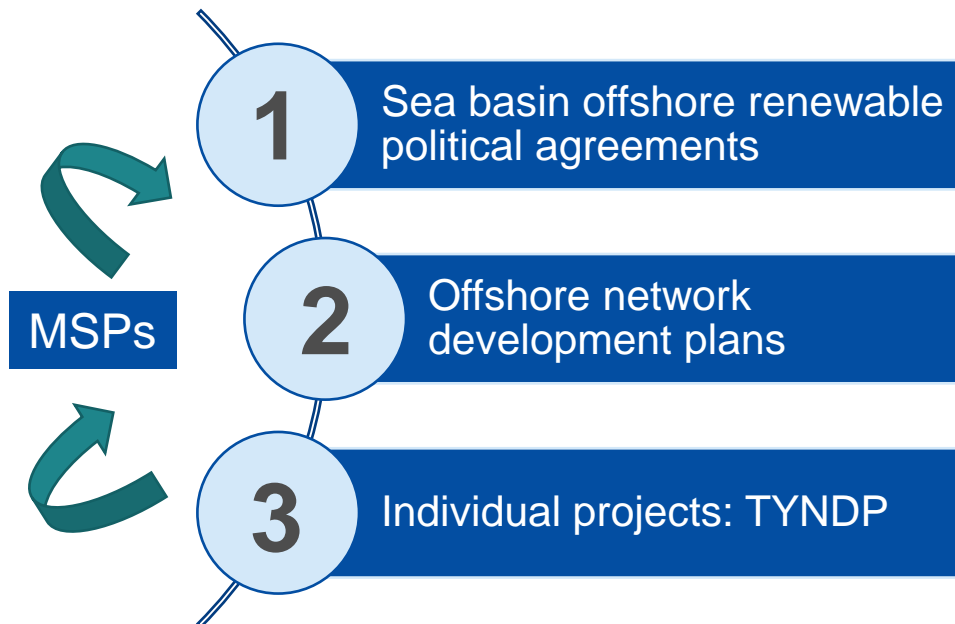
Radial connection and separate interconnector



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

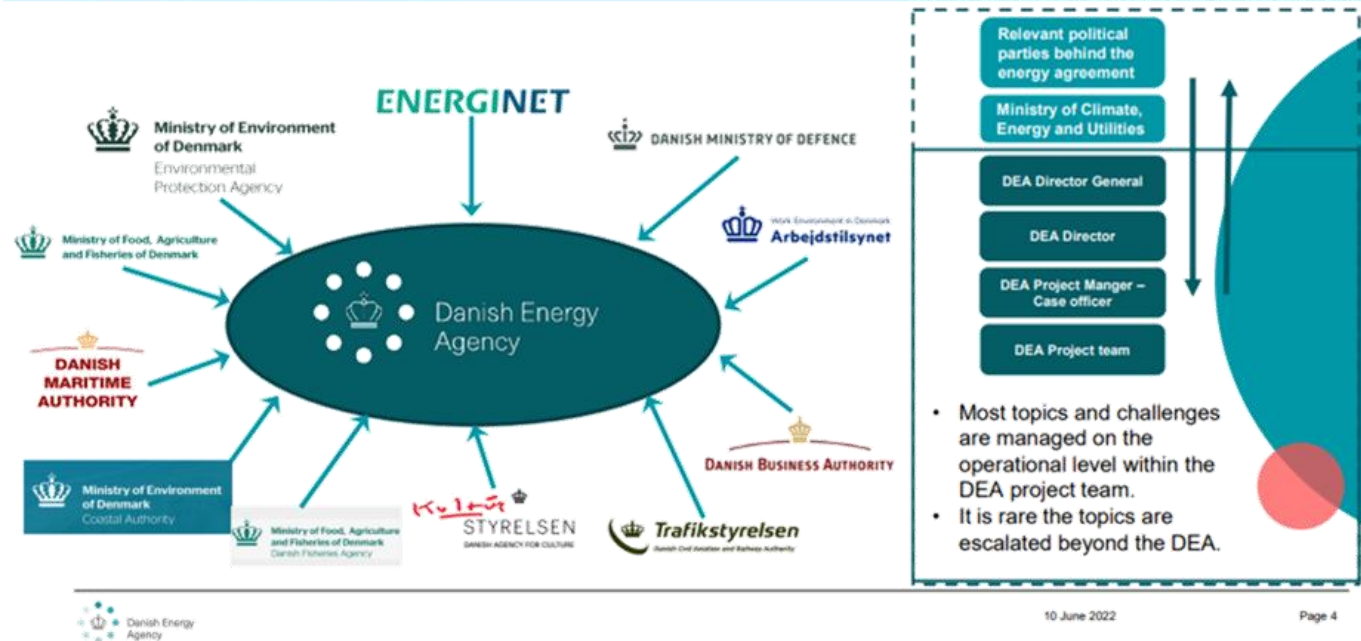
Regional coordination

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

