

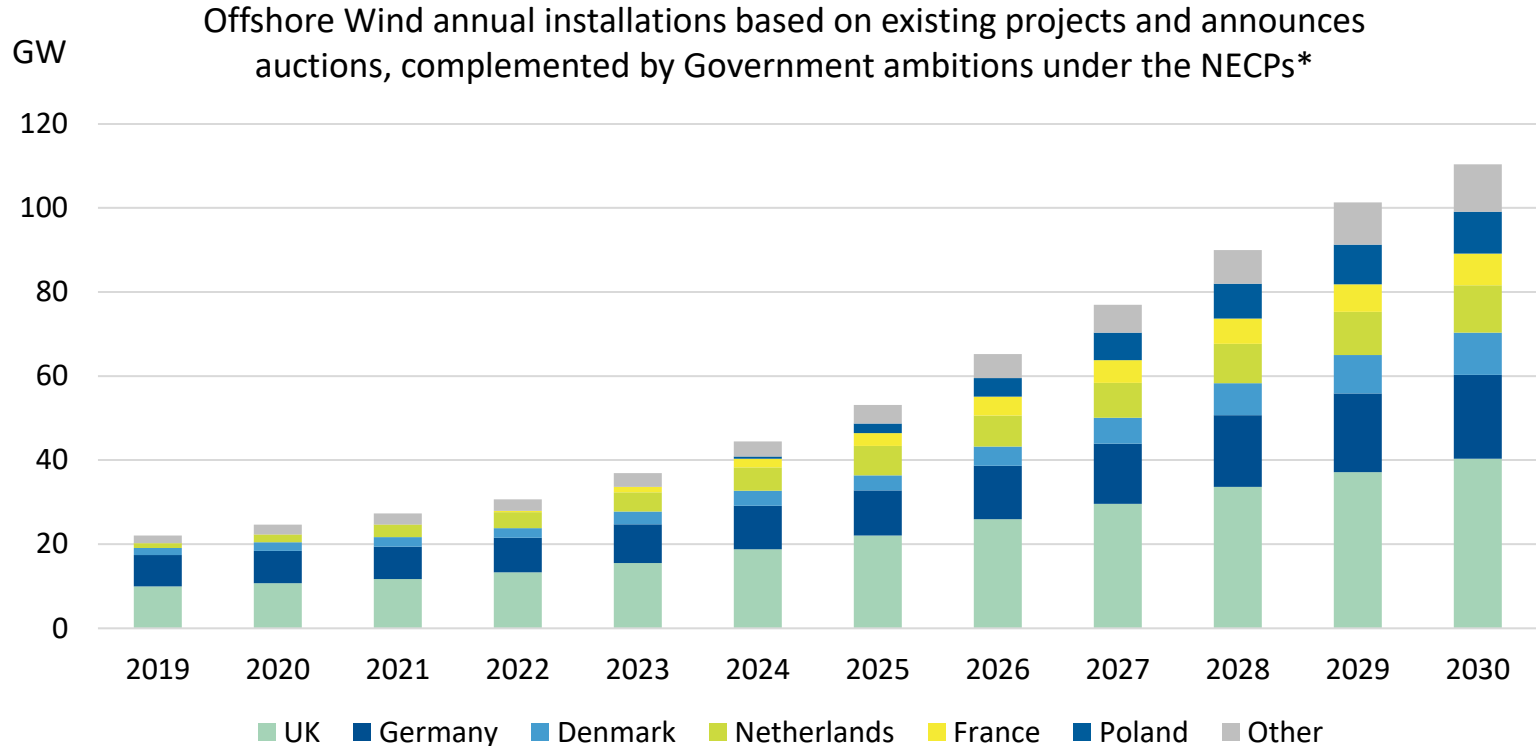
OFFSHORE WIND IN ITALY AND EUROPE

What are success factors?

Iván Pineda

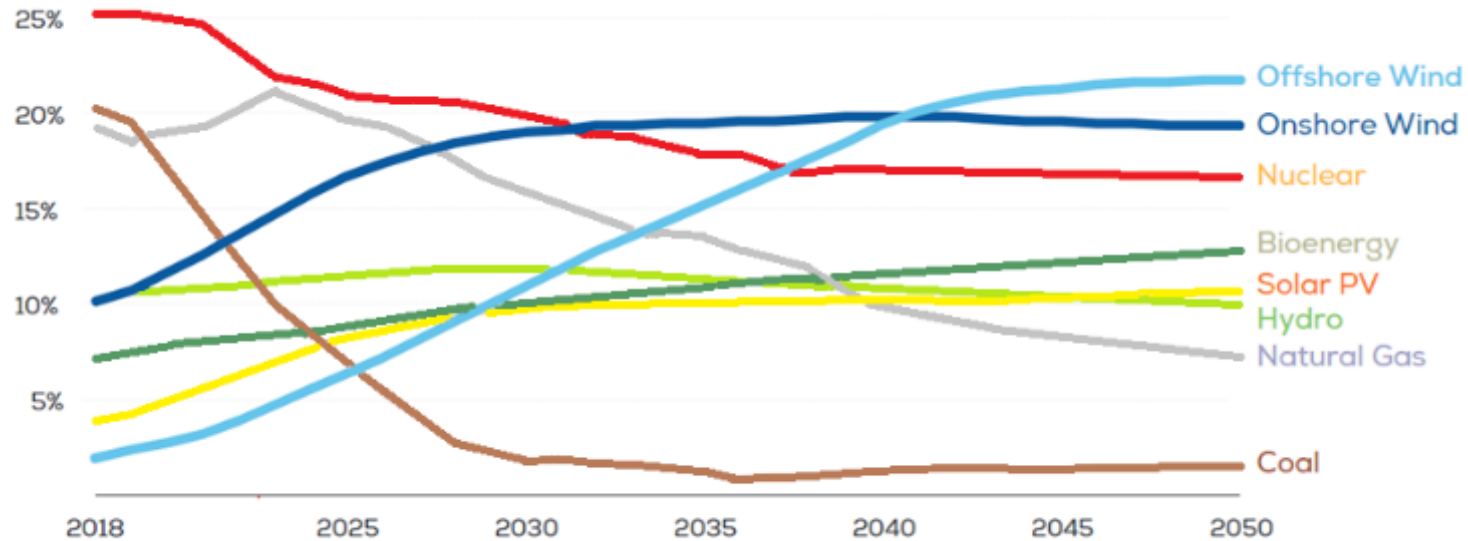
Director of Public Affairs

Europe's offshore capacity to grow 5x by 2030

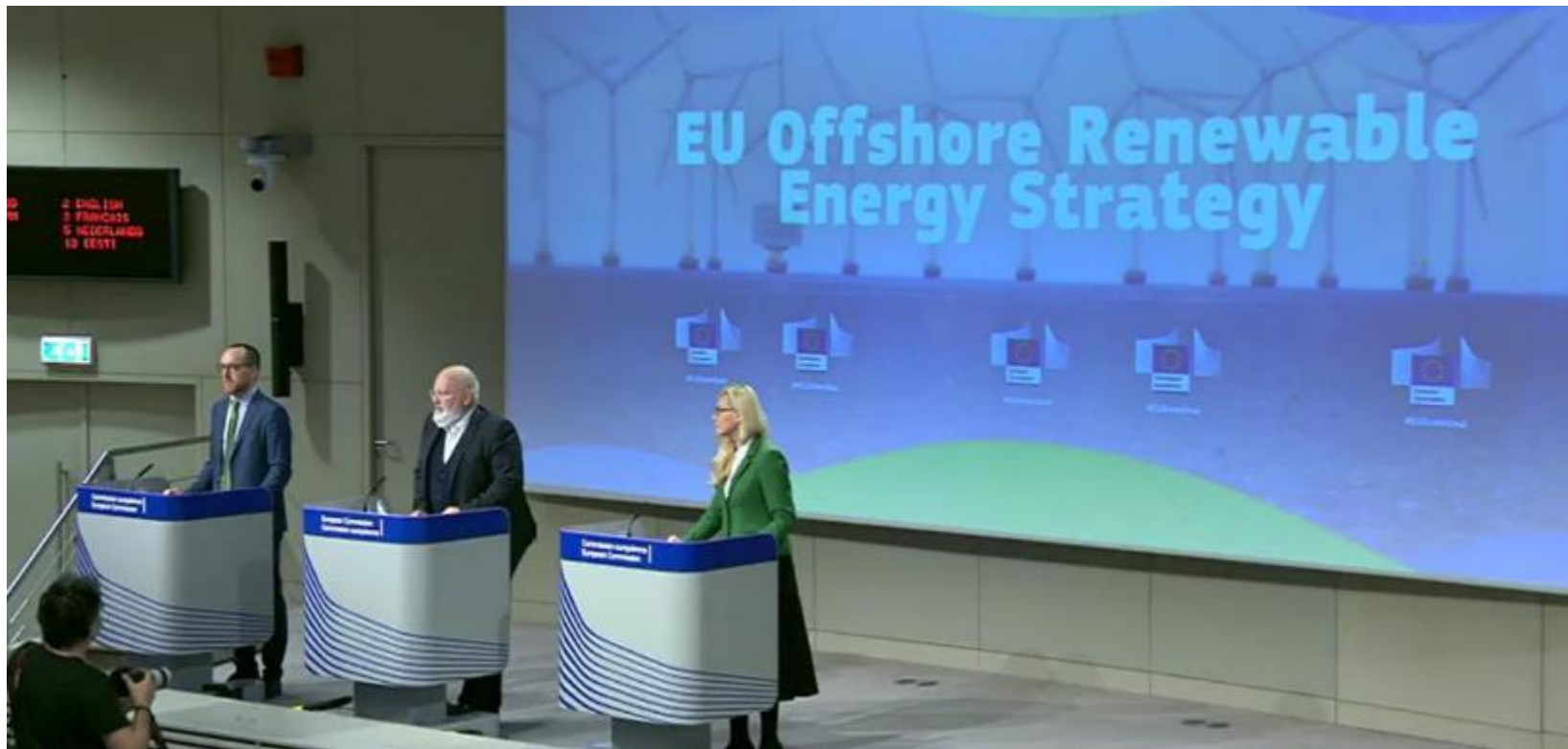


Onshore & offshore wind will be the main sources of electricity generation by 2040

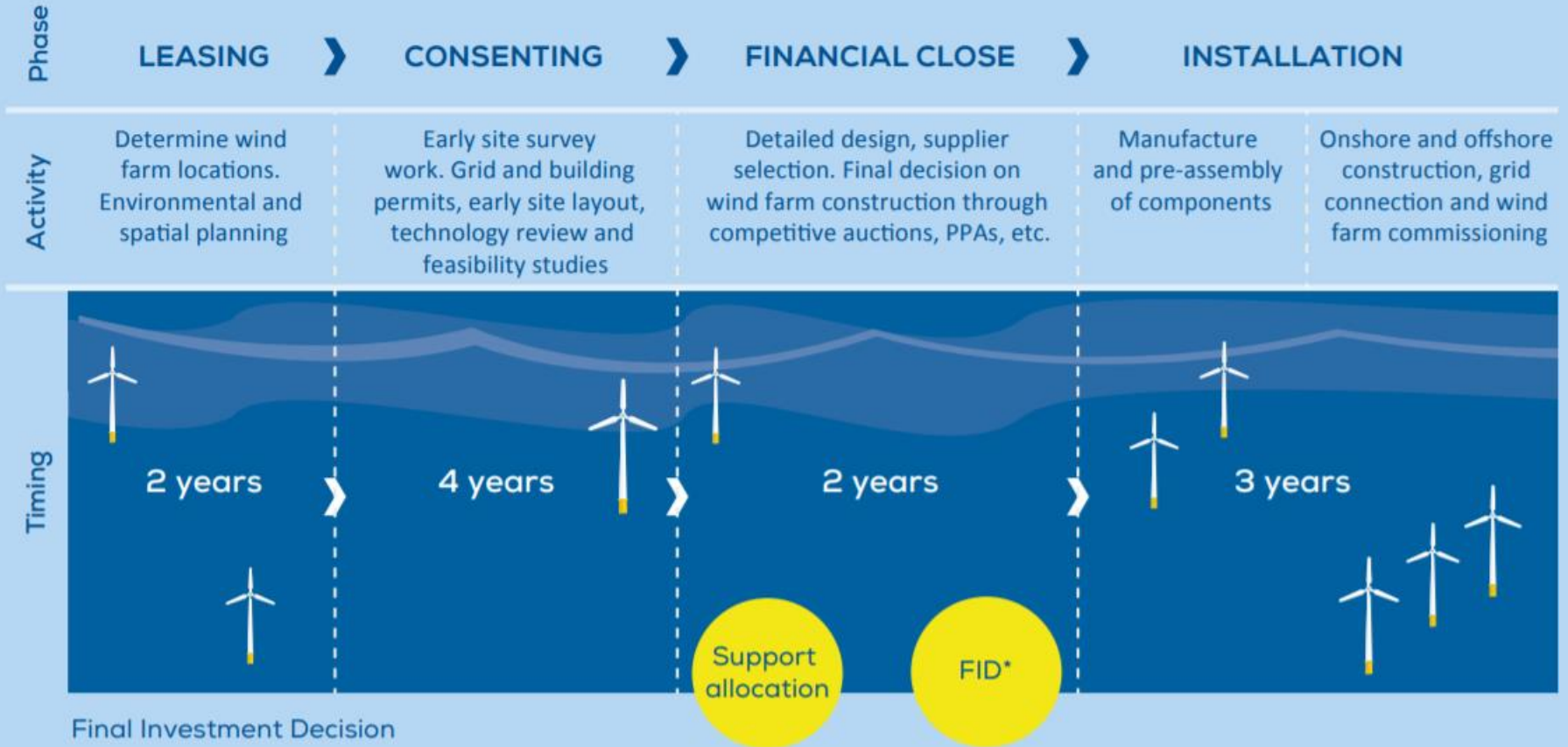
Shares of electricity generation by technology in the European Union, Sustainable Development Scenario



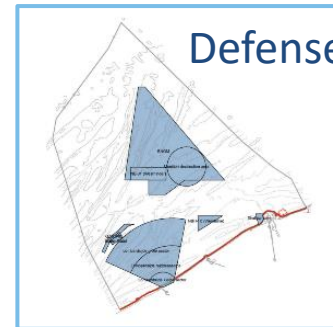
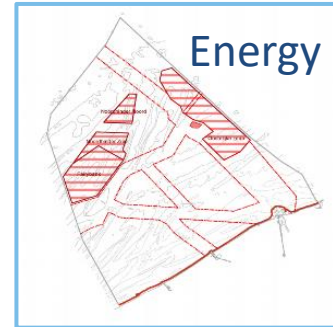
A strategy dedicated to offshore wind



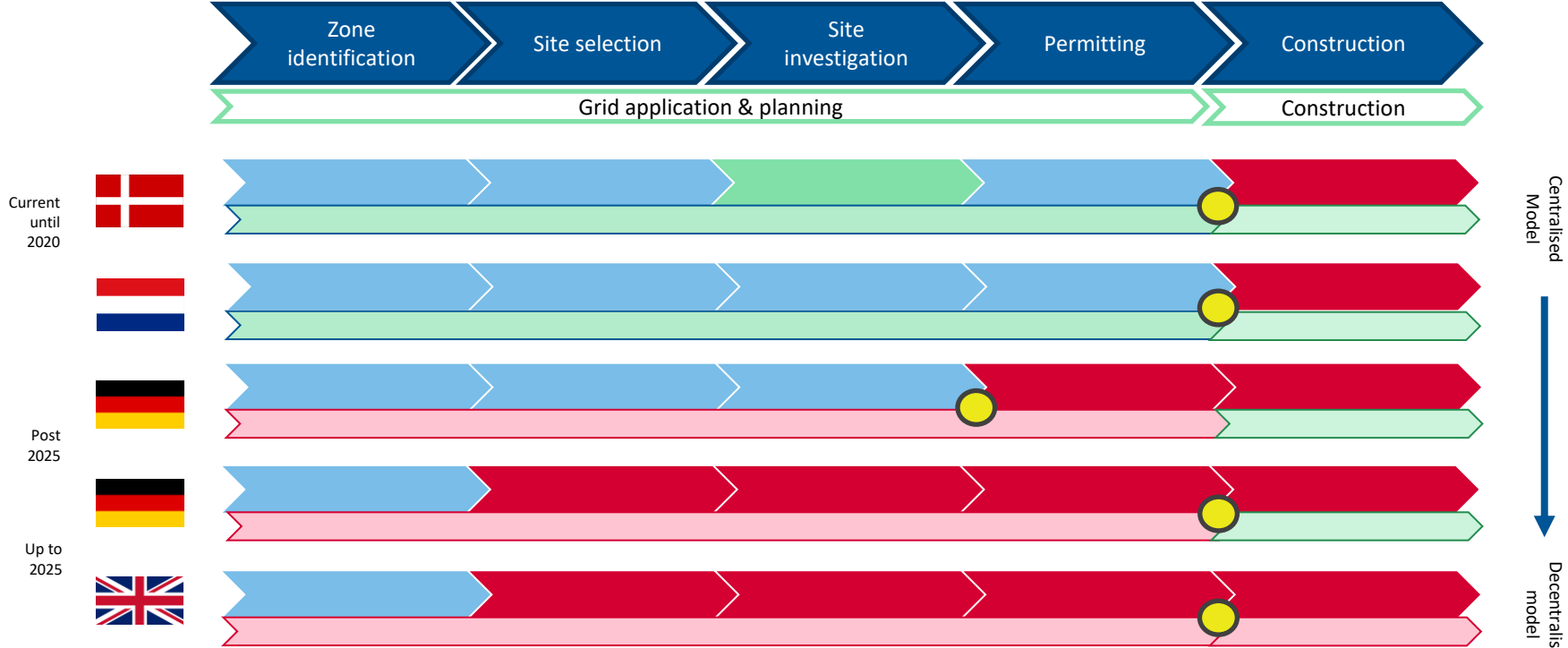
Wind farm development takes time



1. It all starts with planning



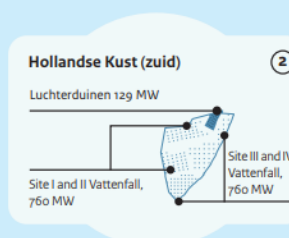
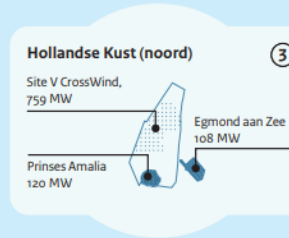
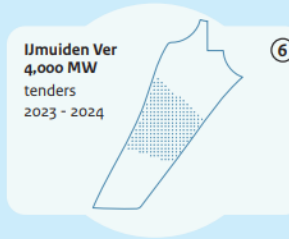
2. Define who does what for permitting



One-stop shop for permitting

and

Modular offshore substations



Legenda

Current Dutch Wind Farm Zones: ~2,5 GW

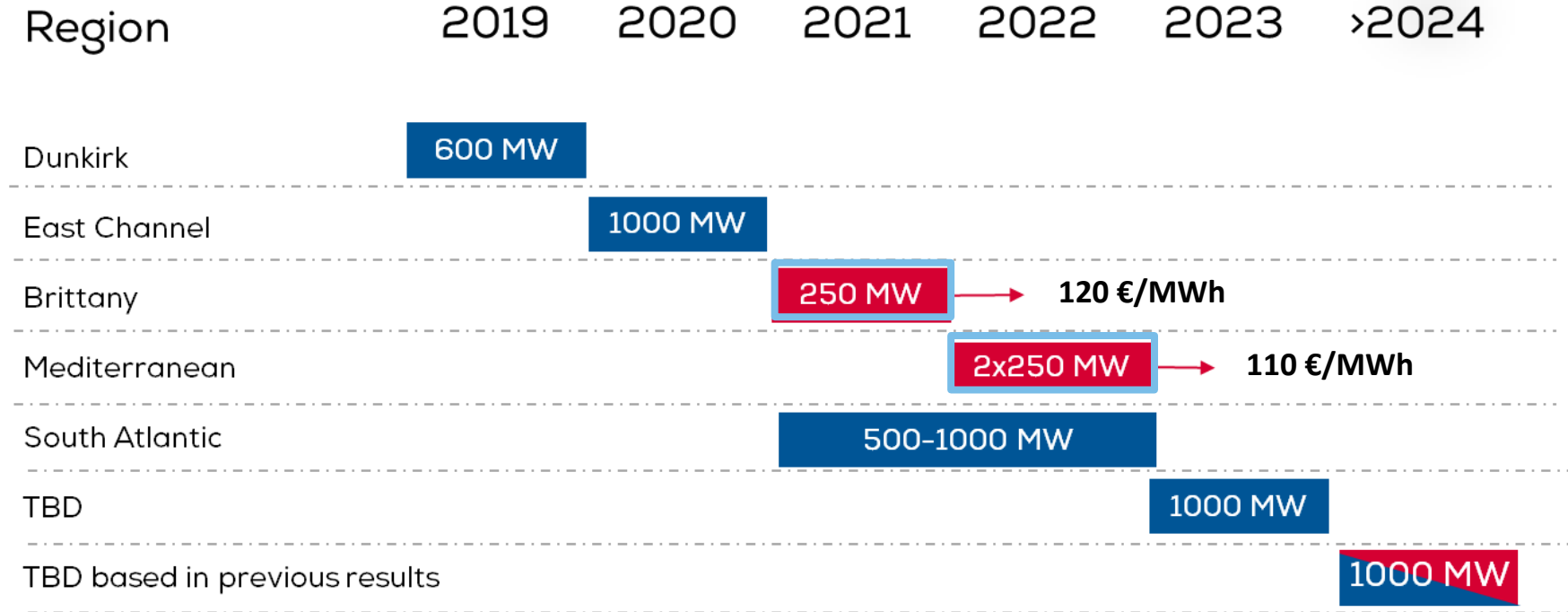
Future Dutch Wind Farm Zones: ~8,5 GW

A legend box with a title 'Legenda' and two entries: 'Current Dutch Wind Farm Zones: ~2,5 GW' and 'Future Dutch Wind Farm Zones: ~8,5 GW'. Each entry has a corresponding grid pattern icon.

3. Provide auction visibility



Offshore wind roadmap in France



■ Bottom-fixed

■ Floating

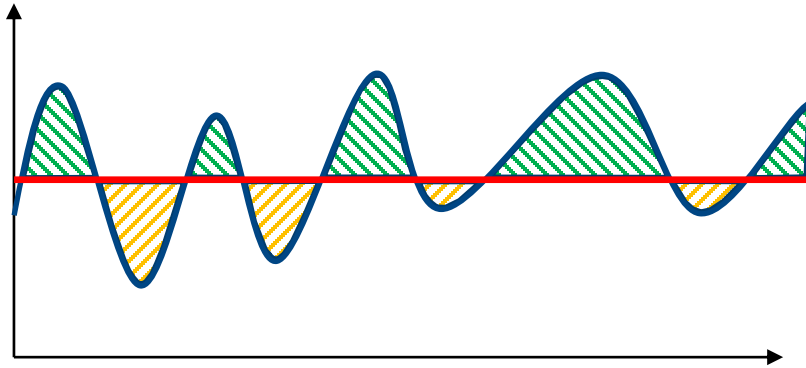


500 MW extension under revision

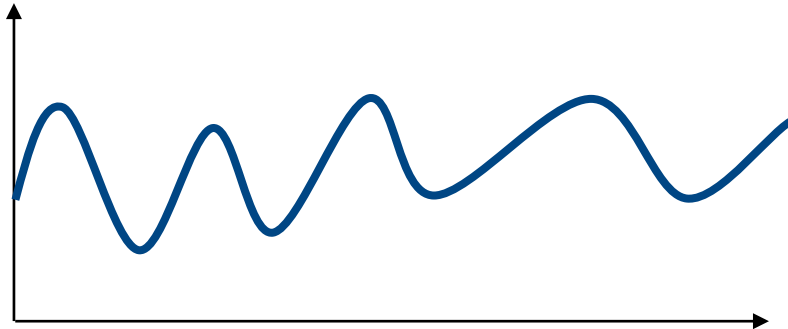
Source: French NECP (March 2020)

4. Offer Contracts for Difference (CfD)

Two sided contracts for difference deliver lower costs

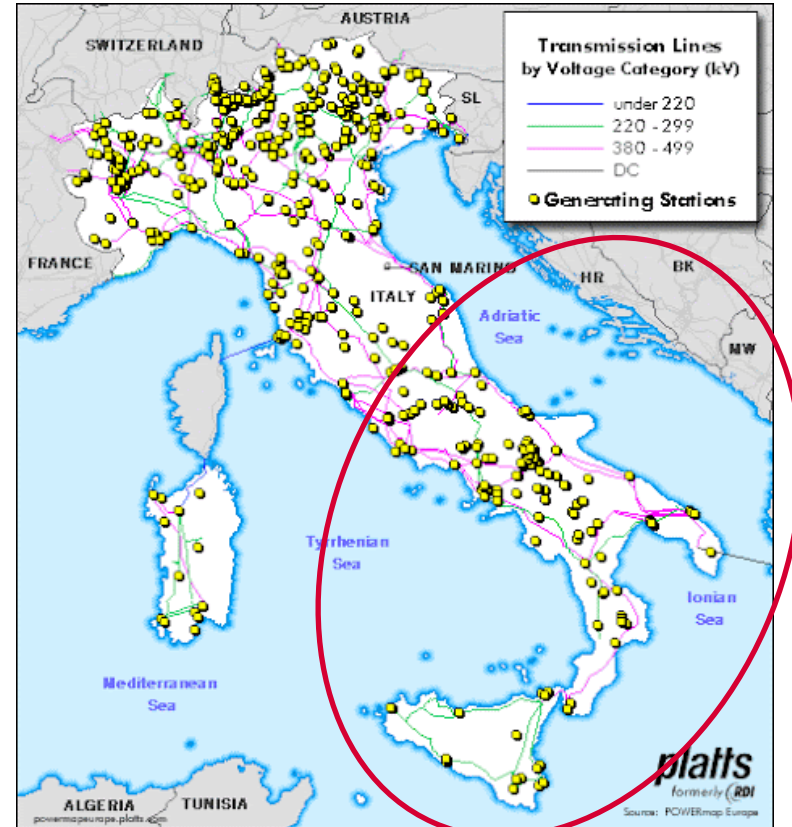
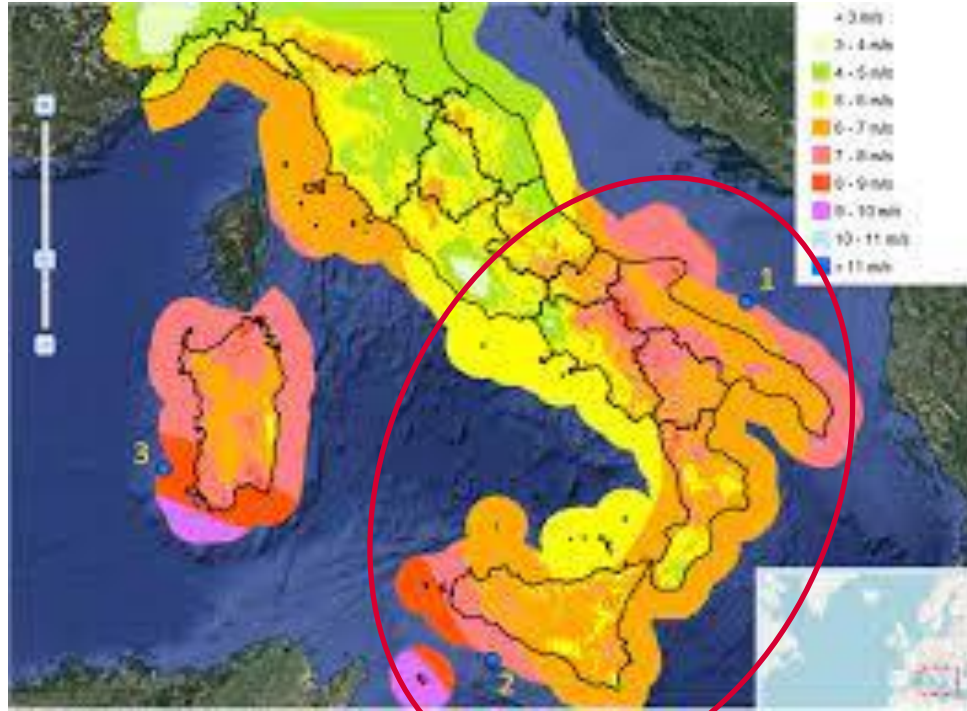


= €50/MWh



= €92/MWh

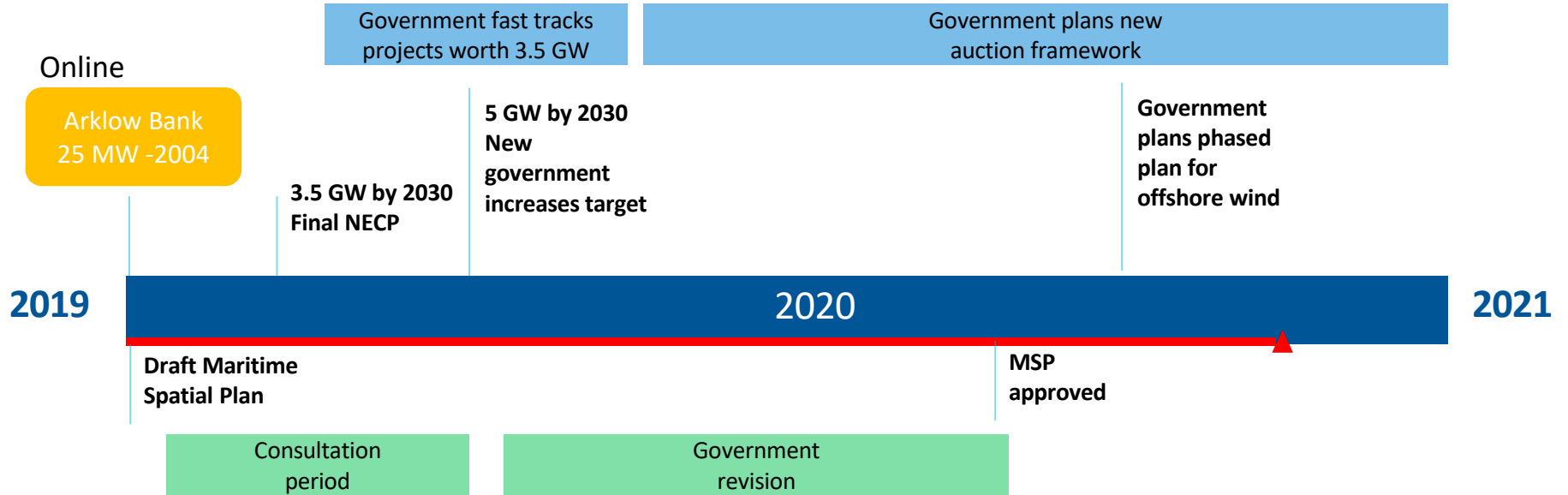
5. Plan for the grid needed



6. Ports are key in the offshore wind supply chain



Starting from zero? Fast-track to succeed





The 1st phase granted CfDs for 5.9 GW. Grid model is under discussion but there would be an agreement between TSO and project developers.



The government fast tracked 3.5 GW and has a target of 5 GW by 2030. The Irish government designated Eirgrid as the TSO for offshore wind. The regime will be phased over time.



Institutional framework for offshore wind under development. Possible to start with a developer-built approach but could change.



Offshore Wind Roadmap under development. Possible to start with a developer-built approach but could change.

First Italian offshore wind farm under construction



30 MW — 2021

900 MW — 2030

Conclusions

1. It all starts with planning
2. Define who does what for permitting
→ One-stop shops
3. **Provide auction visibility**
4. Offer Contracts for Difference (CfD)
5. Plan for the grid needed
6. Invest in port infrastructure

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EUROPE

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