

Political framework for the offshore build out in the North Sea

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cigre

For power system expertise

Offshore wind has reached 30 GW capacity by the end of 2022 in Europe

Offshore wind in Europe

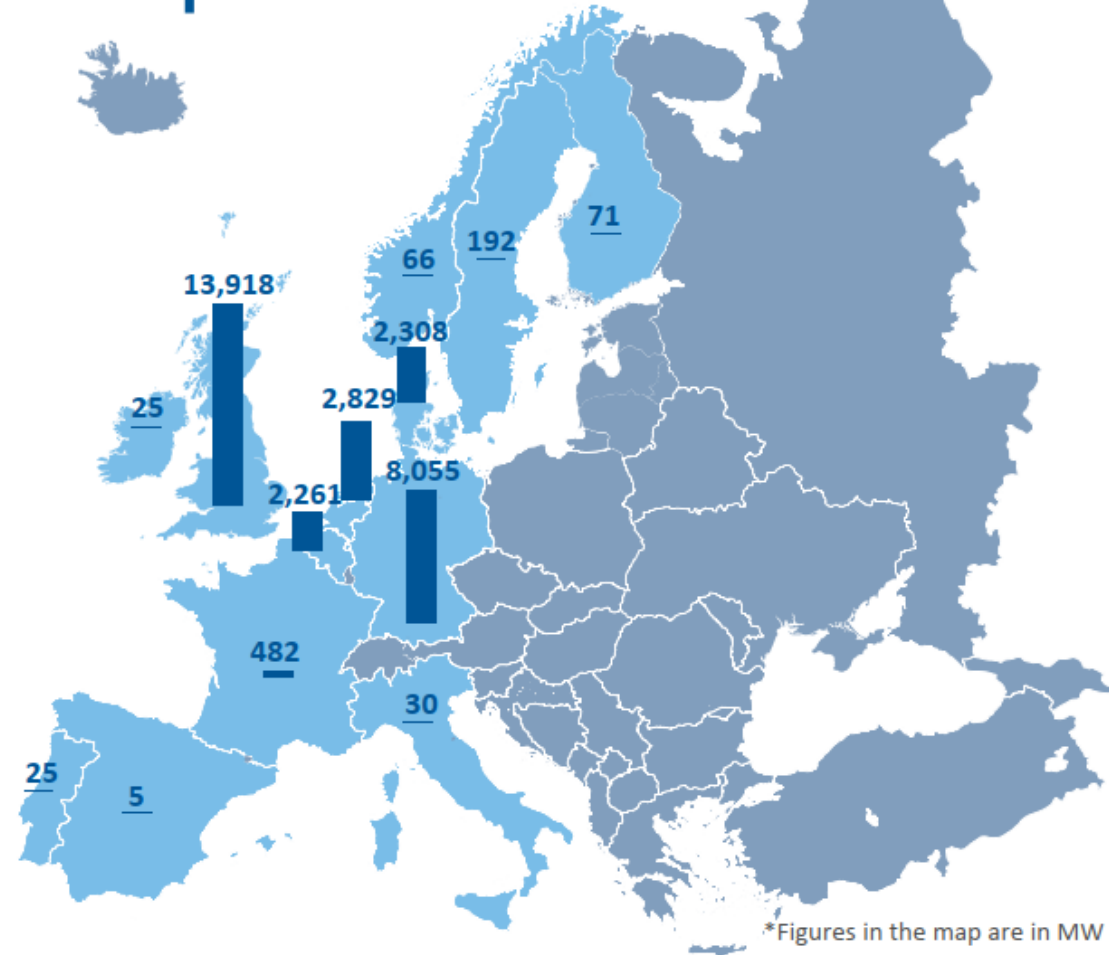
Cumulative

30,267 MW
connected to the grid

13 countries

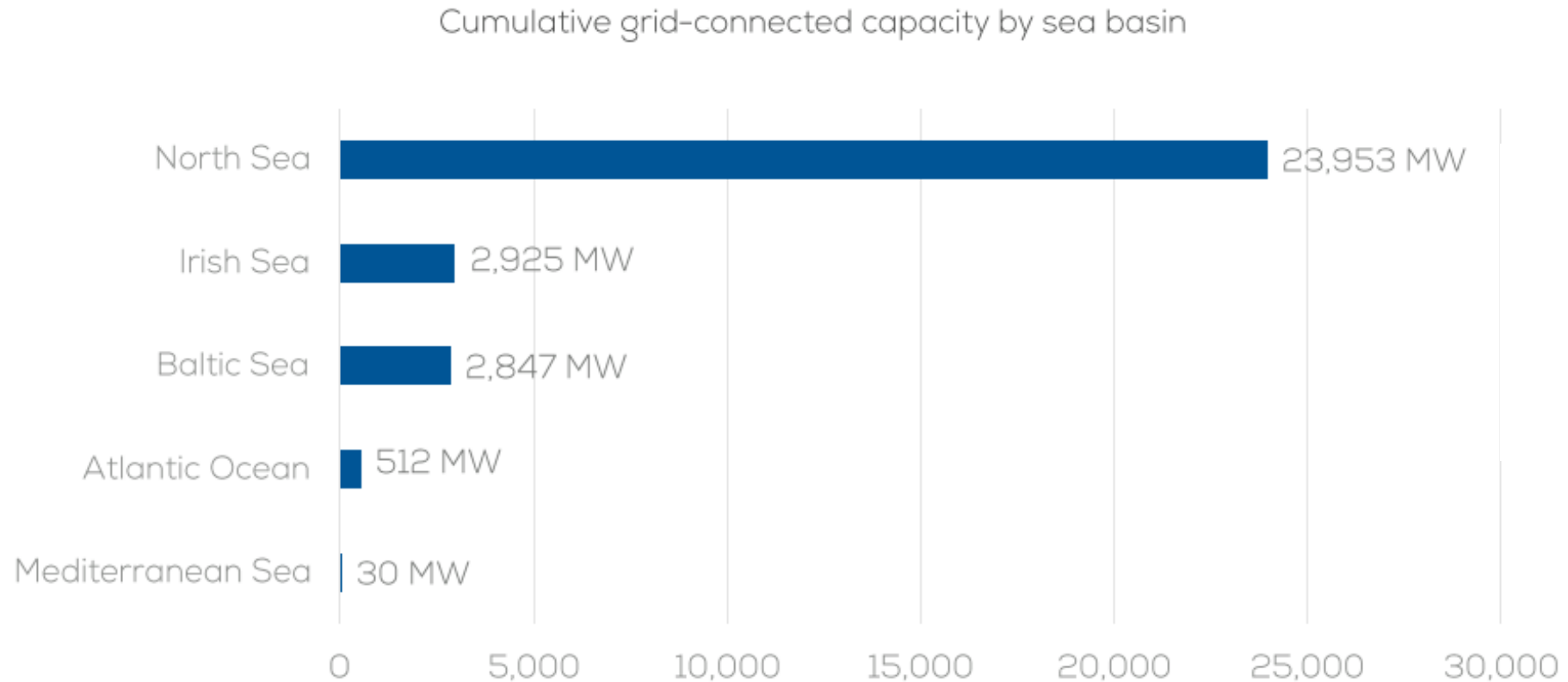
5,954 turbines

126 wind farms
connected to the grid



*Figures in the map are in MW

Offshore wind in Europe: almost 80 percent of all grid-connected turbines are in the North Sea



Governments have increased offshore targets in second half of 2022

**North Seas Summit in September 2022:
76 GW by 2030**

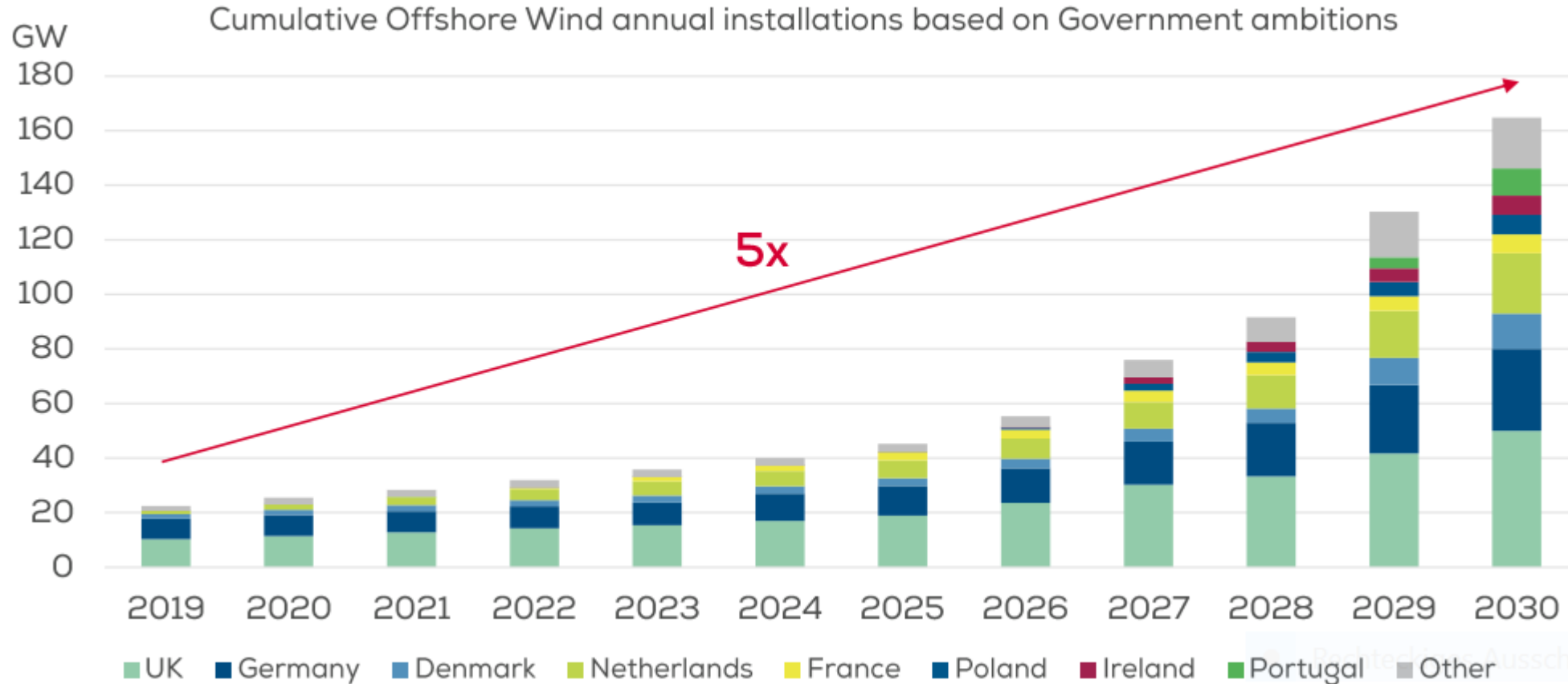


**Baltic Sea Summit in August 2022:
20 GW by 2030**



**Up from the targets in the EU strategy on Offshore Renewable Energy published in 2020:
60 GW by 2030 and 300 GW by 2050**

Current government pledges in Europe: 165 GW by 2030



Source: WindEurope

Latest European legislation with effect on offshore wind:

Permitting

- Renewables are in the „overriding public interest“
- Population based approach
- Emergency rules agreed end of 2022 – faster permitting also for offshore wind

Proposed Electricity Market Design

- Future support schemes based on CfDs (two-sided)
- PPAs possible
- Merchant projects possible
- Hybrid grids - solution proposed



Latest European legislation with effect on offshore wind:

Net Zero Industry Act

- Answer to US Inflation Reduction Act (IRA)
- Targets for EU supply chain base
- Qualitative criteria in auctions to support this
- Faster permitting of production facilities
- EU funding

Critical Raw Materials Act

- More mining and processing in Europe
- New initiatives on recycling



Thank you!