



Boosting offshore wind amid increasing costs

John Wawer, Lead Business Developer, UK Renewables

Equinor UK offshore wind portfolio



Hywind Scotland, 30 MW
World's first floating wind farm

Dogger Bank, 3600 MW
DBA First power in 2023
World's largest offshore wind farm

Dudgeon and Sheringham Shoal extensions
Proposal to double the capacity of our
Norfolk wind farms

Dudgeon, 402 MW
Our largest wind farm in operation

Sheringham Shoal, 317 MW
Our first large scale commercial
offshore wind investment

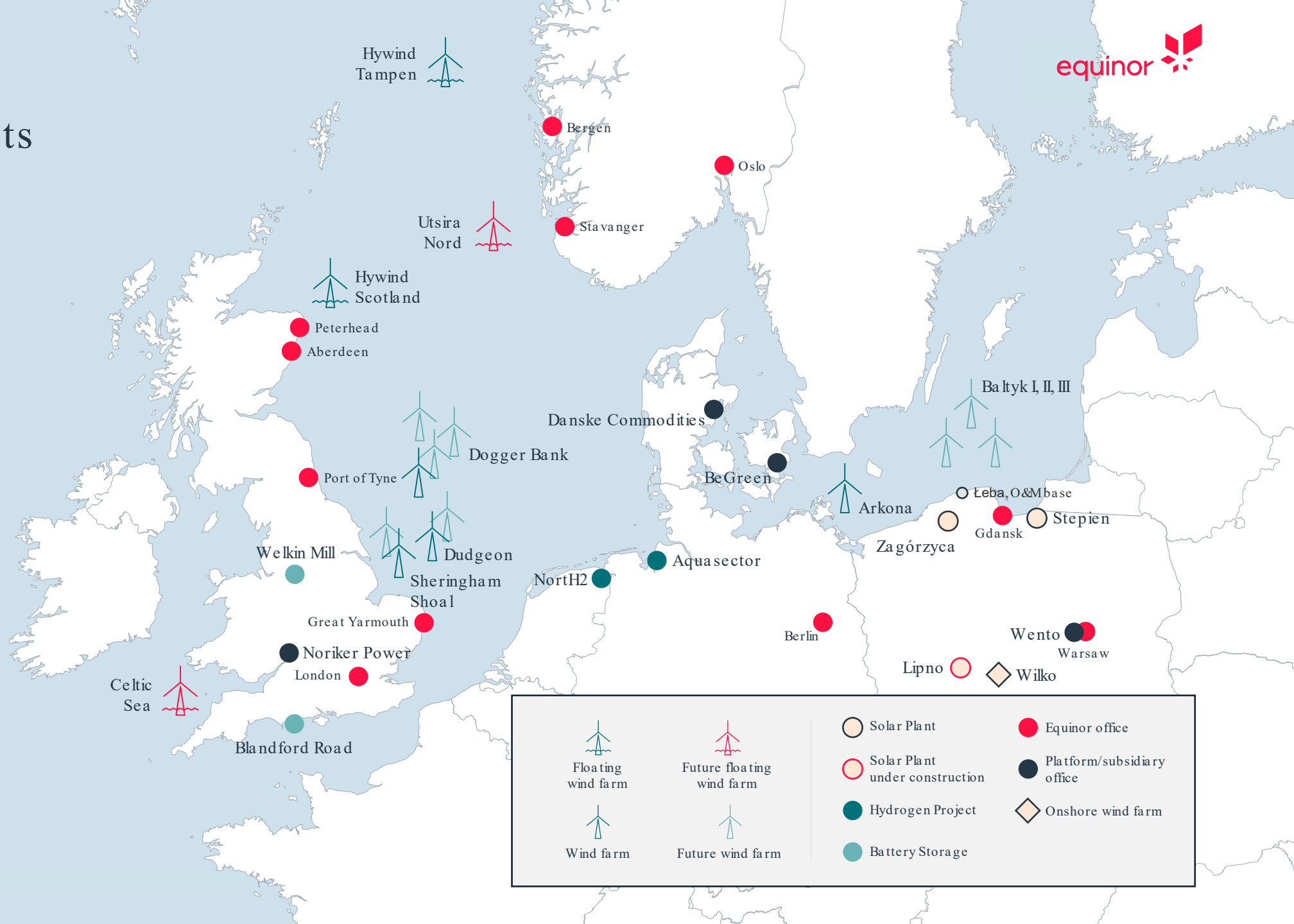
Dogger Bank D, 1200-2000 MW
Dogger Bank C extension

Celtic Sea
Floating offshore wind opportunity

- Producing assets
- In development
- Equinor offices



Joining the dots in Europe



Floating wind farm	Future floating wind farm	Solar Plant	Equinor office
Wind farm	Future wind farm	Solar Plant under construction	Platform/subsidiary office
Battery Storage		Hydrogen Project	Onshore wind farm



Offshore wind capacity targets

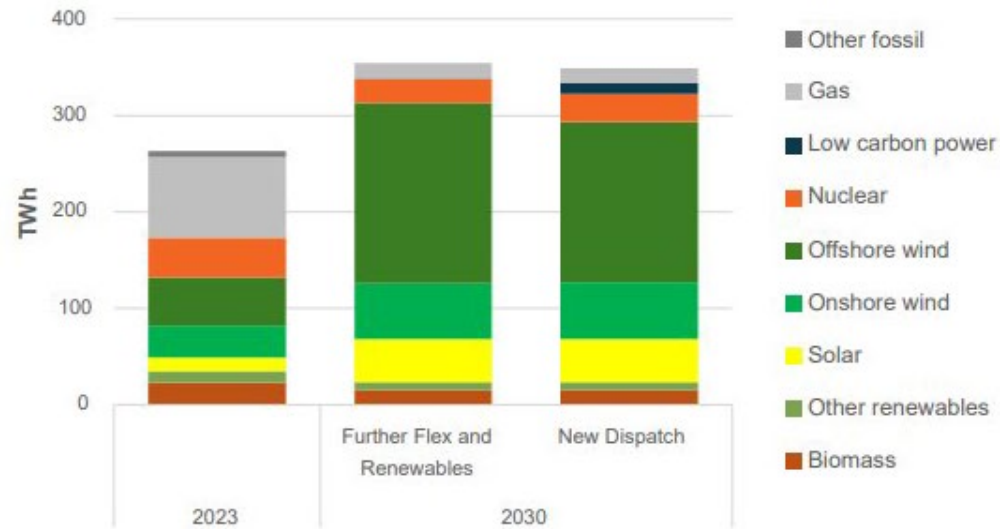


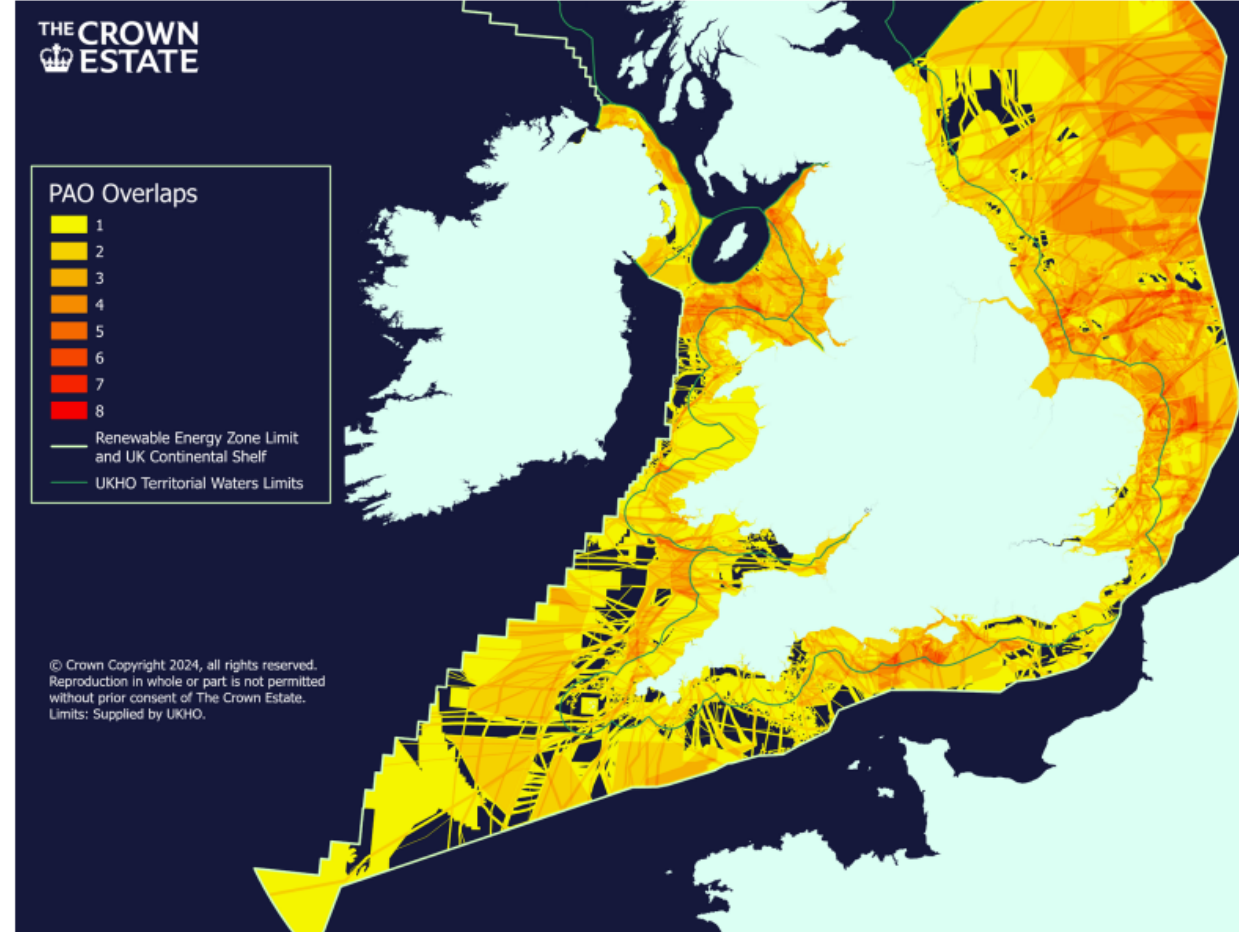
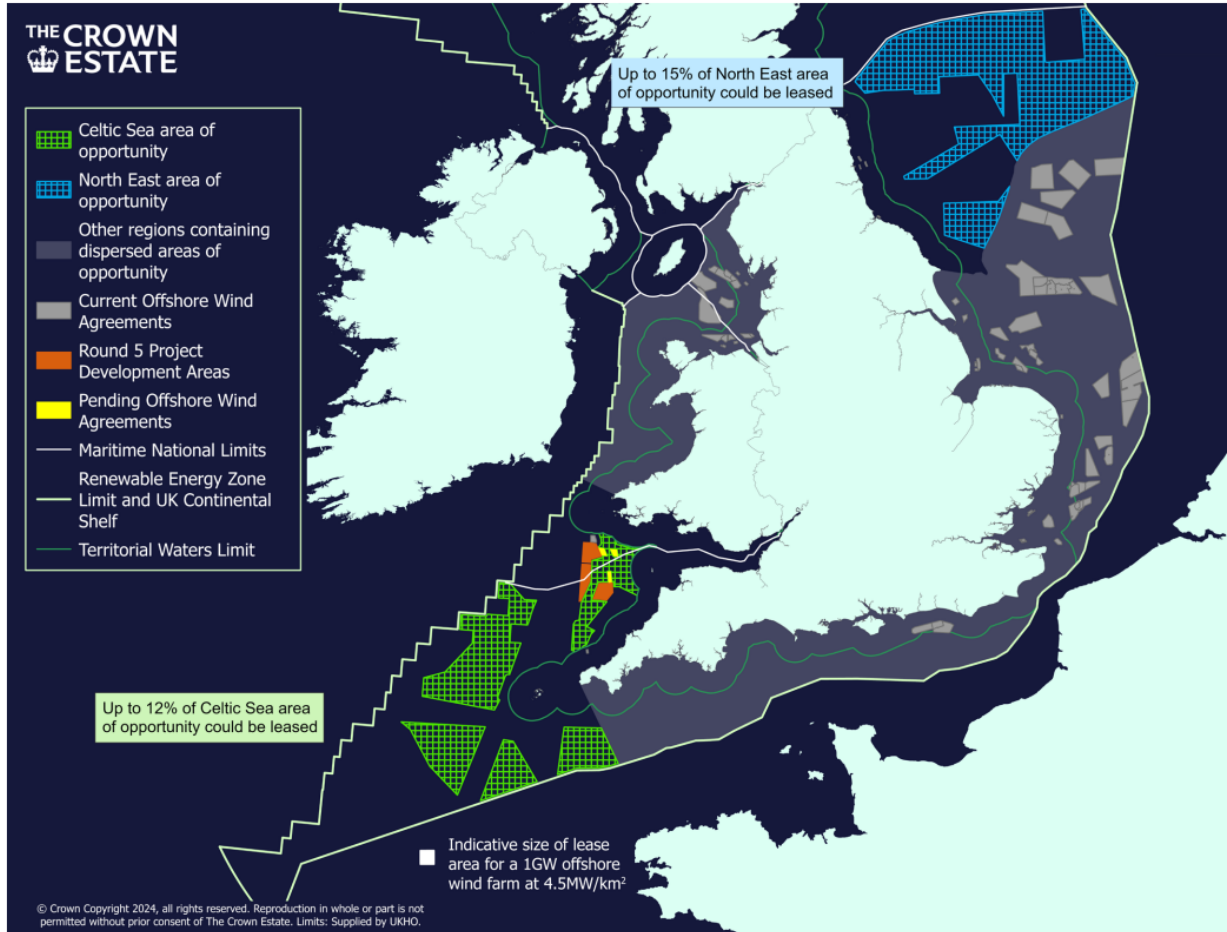
Figure 15: Generation mix for a clean GB power system in 2030

Fuel / technology type (GW)		2023	2030 Further Flex and Renewables	2030 New Dispatch
Variable	Offshore Wind	14.7	50.6	43.1
	Onshore Wind	13.7	27.3	27.3
	Solar	15.1	47.4	47.4
Firm	Nuclear	6.1	3.5	4.1
Dispatchable	Biomass/BECCS	4.3	4.0	3.8
	Gas CCS/Hydrogen	0	0.3	2.7
	Unabated gas	37.4	35.0	35.0
Flexibility	LDES	2.8	7.9	4.6
	Batteries	4.7	27.4	22.6
	Interconnectors	8.4	12.5	12.5
	Demand-side flexibility (excl. storage heaters)	2.5	11.7	10.4
Annual demand (TWh)		258	287	287

Table 2: Capacity by technology in the clean power pathways (GW)

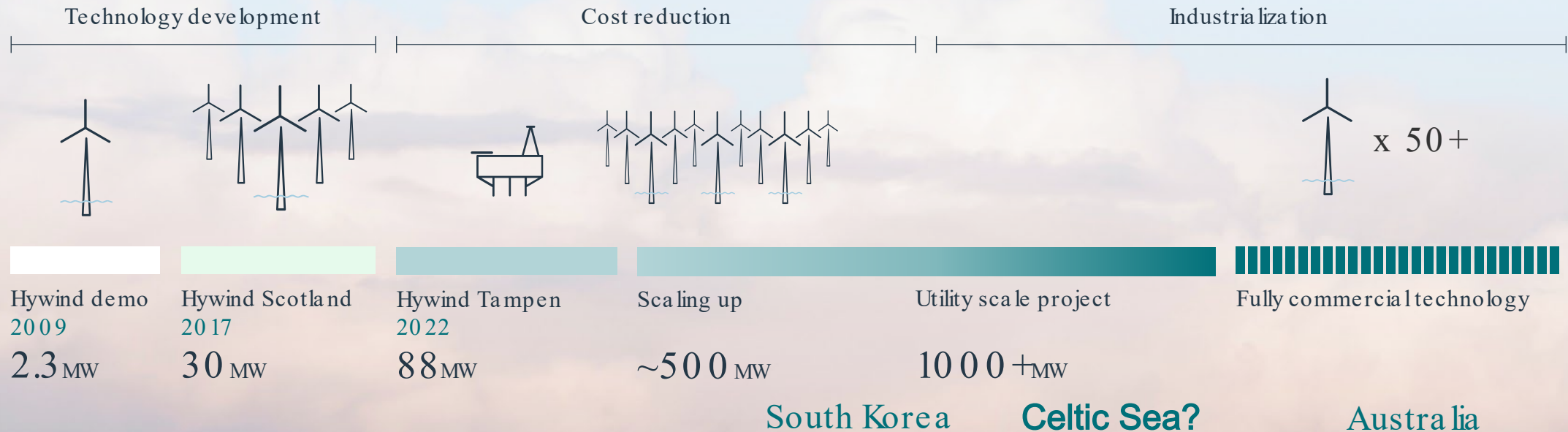


The Crown Estate's Marine Delivery Routemap – competition for seabed



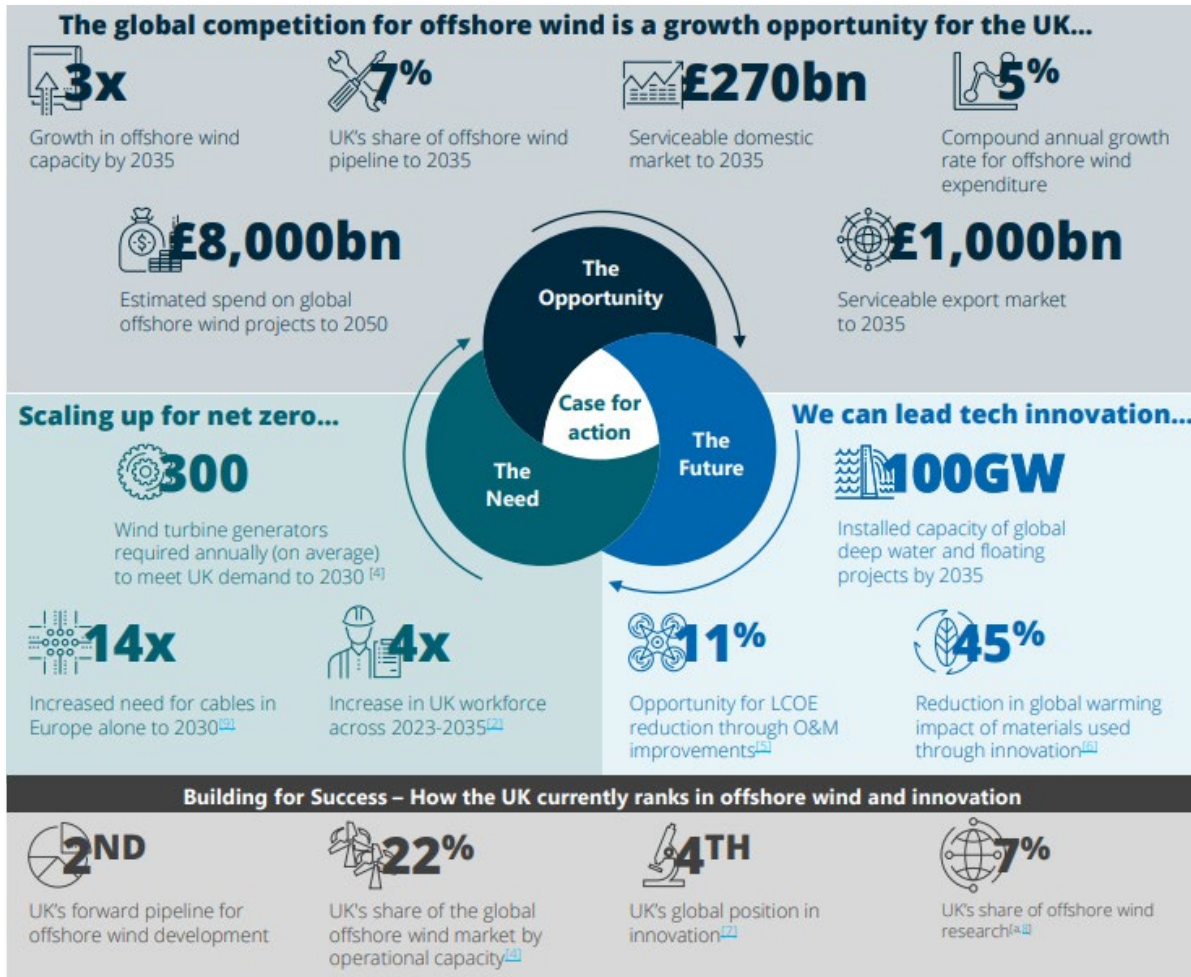
Floating wind could become a competitive source of energy

Celtic Sea projects will be a step for the UK





Industrial Growth Plan / Clean Industry Bonus



Source: Industrial Growth Plan

Department for Energy Security & Net Zero

Contracts for Difference Scheme for Renewable Electricity Generation

Allocation Round 7: Clean Industry Bonus Allocation Framework, 2024

November 2024



What can be done to deliver more offshore wind?

1. Let's not complicate the reality
 - Vital for decarbonisation of UK's industrial clusters such as the Humber and South Wales
2. Pick winners!
 - UK strategy
 - Infrastructure (ports and grid)
 - Approach to development
3. Smooth the way for supply chain to deliver
 - Clear forward-looking pipeline on seabed leasing and procurement of capacity
 - Enough support to enable investment in UK in new technology
4. Ensure auctions are set up to incentivise delivery of offshore wind
 - Capacity-based or hurdle rate CfD structures
 - Repowering allowed



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