

Department for Energy Security & Net Zero

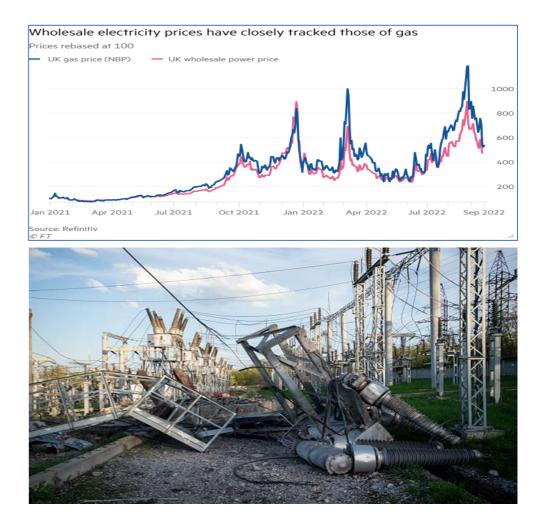
Setting Strategic Direction for Offshore Transmission Coordination

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Context

Net Zero by 2050	Net Zero Emissions by 2050 ~100GW of Offshore wind generation by 2050
2030 Ambition	50GW Offshore wind by 2030 (incl 5GW floating) 18GW Interconnection by 2030
6 th Carbon	Decarbonised power supply by 2035
Budget	Offshore wind as backbone of the system
British Energy	Cut offshore wind deployment time by half
Security Strategy	Half the time of network build and double pace
• DESNZ Priorities	Speed up delivery of network infrastructure Reduce the time taken to consent offshore wind
Skidmore Review •	Cross cutting infrastructure strategy by 2025
of Net Zero •	Facilitate anticipatory investment in infrastructure



The Offshore Transmission Network Review

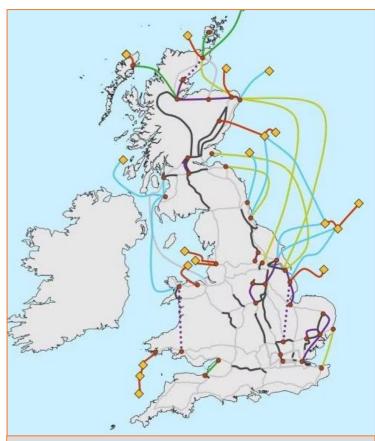
Objective: To ensure that the transmission connections for offshore wind generation are delivered in the most appropriate way, considering the increased ambition for offshore wind to achieve net zero. This will be done with a view to finding the appropriate balance between environmental, social and economic costs.

Medium term: Holistic Network Design, codes and standards, NPS changes and acceleration efforts.

Near term: enabling voluntary retrospective coordination for more advanced projects, for example in the East Anglia region.

Longer term: Future Frameworks consultation recommendations, implementation of the OTNR findings, Centralised Strategic Network Planning

Cross Cutting: Interconnection and innovation, collaborative effort with industry.



Holistic Network Design

- **£54bn investment** in Infrastructure
- **£5.5bn saved** in constraint costs from 2030.
- **18** offshore wind farms
- 7000km of cable (includes HVAC and HVDC)
- 94 grid reinforcement inc 17 HVDC converters and 19 offshore platforms

Strategic Challenges to Coordination

Community Acceptance



Lack of community understanding of planning process and protections

Community impacted not directly benefiting

Lack of a national conversation on grid transformation

Supply Chains & Manufacturing

Need for investment pipeline certainty to secure supply in UK

Tough global competition for supply chain capacity

Threat posed by US Inflation Reduction Act

Consenting and Planning

Need for Marine Spatial Planning and Holistic Network Planning Lack of recognition of

Critical National Priority in planning system

Lack of anticipatory investment

Pathway to a Coordinated Offshore Grid

What Comes Next? Building on the OTNR

• Acceleration of delivery:

- In conjunction with Ofgem.
- Recommendations of Electricity Networks
 Commissioner Nick Winser on halving the delivery time of transmission network infrastructure

• Longer term strategic vision:

- Delivery of centralised strategic network planning.
- Move towards a Future Framework for Offshore Wind Delivery.