



The Impact of "Scaling Up" on Foundation Supply Chains

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Renewables Segments











"Scaling Up" in Offshore Wind

Huge growth in offshore wind development

- 35 GW of offshore wind across the world at the end of 2020
- Anticipated that a further 235 GW will be delivered globally by the end of 2030
- Just over 10 GW of offshore wind in the UK in 2020
- The UK aims to have 40 GW of offshore wind by 2030



More complex solutions







Supply Chain Readiness **Investment and Long-Term Commitment**





THE ISSUES

- Limited number of suppliers for certain aspects of projects
- Lack of supply chain readiness for complex solutions such as floating foundations
- Difficult to secure UK content

THE MITIGATIONS

- Government investment in the supply chain
- Cross-industry investment from suppliers and developers ٠
- A message of a clear and lasting pipeline by the government
 - ➢ Regular seabed leasing, regular CfD auctions etc.
 - Suppliers need to have confidence in the pipeline of work
 - Investment has to be commercially viable



Delivery Programmes ==> Early Engagement and Partnering

THE ISSUES

- Projects are seeing increasingly compressed delivery programmes
- Puts further pressure on the supply chain to deliver

THE MITIGATIONS

- Early engagement with the supply chain
 >Understand supply chain challenges
 >Build relationships early
- · Consider partnering with suppliers
 - Share risk with partners rather than pushing risk on to a supplier
 - Could cost more however the risk of delayed project delivery may outweigh this







THE ISSUES

- Limiting options during the design phase in turn limits the supply chain
- Focusing solely on one foundation option closes off other potential suppliers that may have better availability for the project



THE MITIGATIONS

- Keep options open in early development while supply chain engagement is ongoing
- Invest time in understanding the challenges around fabrication, transportation and installation of various foundation concepts
- Assess which options are most feasible for the project requirements





Summary

- Growth in offshore wind and complex projects are increasing the pressure on and already limited supply chain
 - Rising costs and risk of delayed project delivery
- Solutions for projects:
 - Cross-industry investment in the supply chain by government, supplier and developers
 - >Engage with potential supplier early or consider partnering
 - Keep options open during the design phase to not limit supply chain options









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