Industry-wide standardisation of nodes

https://offshorewindinnovationhub.com/category/substructures/

Type of Entry: Innovation Area

Substructures > Foundations > Other types of fixed foundations

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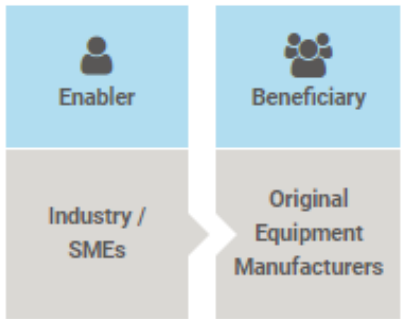
Description

The standardisation of manufactured parts can reduce cost through a number of channels. By allowing the manufacturing supply chain to produce standard parts, they can optimise manufacturing and reduce cost / lead time of components. It also could reduce design time as 'off the shelf' components can be selected and utilised (no need for bespoke design and analysis each time for each component). The use of standardised nodes (joints) can enable significant cost saving to the production of jacket structures.



Strategic Outcome

- Enabling disruptive innovation
- **Commercialising >15MW turbine platforms**
- Maximising operational performance of existing wind farms

UK Benefit

Low **Medium** High

Notes: Medium low as not a huge number of jackets in use and manufacture in UK supply chain. However, could make UK more competitive for jacket supply.

Potential To Reduce LCoE

Low **Medium** High

Notes: Reduce cost of manufacturing jackets

Case for Intervention

Low Medium High

Notes: Node standardisation is already something being investigated by various organisations (i.e. Cranfield university)

HSE impact

Low Medium High

Notes: Standardisation itself does not improve HSE, however it is foreseen as a requirement to enable increased automation in the manufacturing process.

Technology Readiness Level

1 2 3 4 5 6 7 8 9

Read more about TRLs

Forecast start and finish

Now 2020 2022 2025 2030 2035 2040