

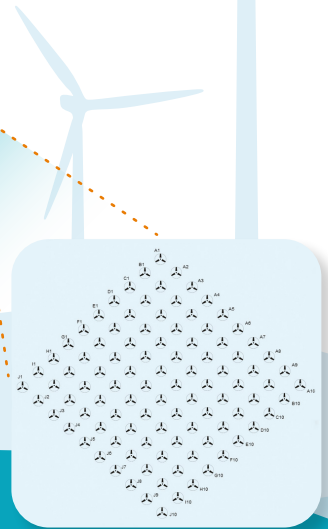
Scotland Offshore Wind Insight

This country insight report summarises the expected durations and vessel costs for the installation of an offshore wind farm (monopiles and transition pieces), off the east coast of Scotland. The work was carried out using JBA's ForeCoast® Marine Design Desk software.

Two vessel strategies were compared:

The first was based on the use of two Jack up Barges (JUB), with a day rate of \$180,000 / day and an operating threshold of 2.5 m significant wave height.

The second was based on the use of 2 Heavy Lift Vessels (HLV) supplied by 4 feeder barges, with a day rate of \$130,000 / day and an operating threshold of 1.6m significant wave height.



Turbines

100



Capacity

1,000
MW total



Hub Height

120 m

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Strategic and operational planning software for the design, optimisation and management of offshore wind projects.

From planning to installation, operation to decommissioning, ForeCoast[®] Marine guides you every step of the way.

Enabling you to de-risk your offshore wind farm, maximise its performance and increase the profitability of your project.



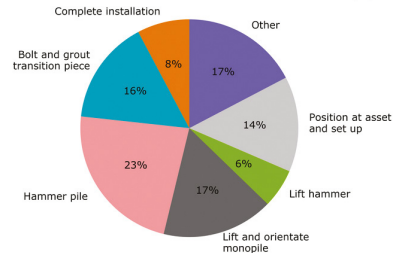
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Downtime Contributions

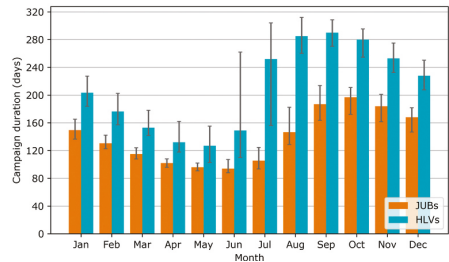
Contribution to mean of sum of downtime durations for all activities (%)



- This plot shows which operations contribute most to downtime.

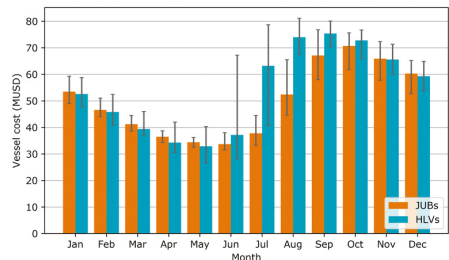
The findings shown are for illustrative purposes only and are based on a hypothetical case study.

Campaign Durations



- Clear seasonal trend.
- Significantly higher durations during the winter months, when using the more weather sensitive HLVs compared to the JUBs.

Vessel Costs



- During the winter and spring months (start dates Nov - May) the vessel costs associated with the use of the JUBs is higher compared to the HLVs.
- During the summer and autumn months (start dates Jun - Oct), the lower day rate of the HLV and feeder barges is offset by the long campaign durations in these months. This is most significant for start months Jul and Aug.

N.B. Simulations were started at the beginning of each month. Each bar in the plots represents the expected cost/ duration if the installation campaign starts in that month.

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