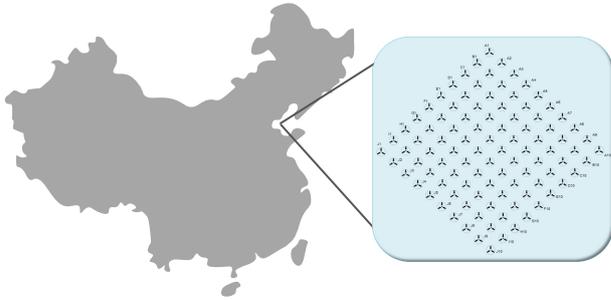


# China Offshore Wind Insight

This country insight report summarises the expected durations and vessel costs for the installation of an offshore wind farm (monopiles and transition pieces), in the Bohai Sea, China. 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

120m

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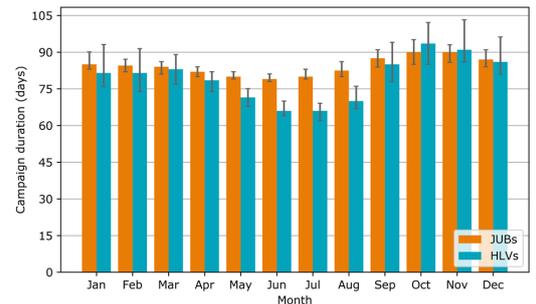


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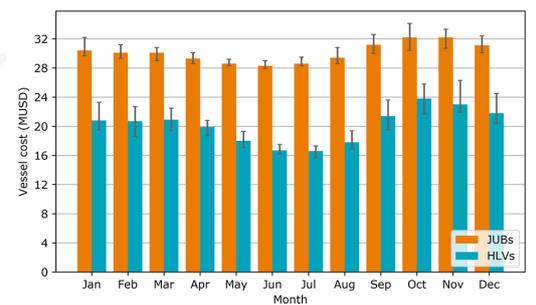
## CAMPAIGN DURATIONS

- The seasonal trend in campaign durations associated with the use of the more weather sensitive HLVs is more marked than that associated with the use of JUBs.



## VESSEL COSTS

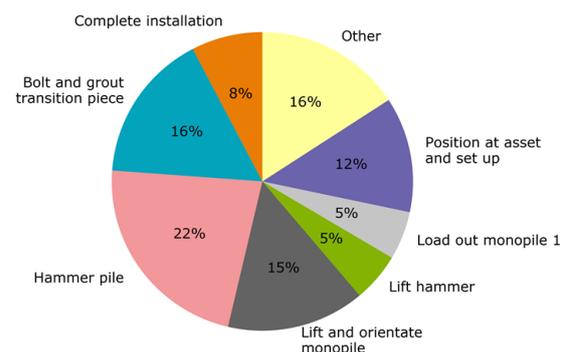
- Throughout the year, the vessel costs associated with the use of the JUBs is significantly greater compared to the HLVs, due to the higher day rate.



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.

## DOWNTIME CONTRIBUTIONS

- 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.