

The Essence of Trivane

“Trivane is a **Trimaran that Weathervanes**”

Trivane is a trimaran on which the centre hull supports a standard tower, with the turbine on top of it, both provided by an OEM. The outer hulls provide transverse stability

Cross deck beams connect the barges to one another. Inclined braces are attached beneath the tower and to the three barges. These a) assist in providing a support for the tower and b) assist the cross-deck beams in connecting the three barges to one another

The design allows damage stability to be provided. This is the ability to remain safely afloat with some barge compartments accidentally flooded

The large volumes provide space for flow batteries and other technologies to be accommodated, as these become more widely used onboard floating wind platforms



Reasons for Adopting Trivane

- This is the most efficient hull form to use,
- The three hulls are of standard barge design and construction. Hence any yard can make them and the fabrication cost per tonne is low
- The lightship drafts of the barges are much less than the loaded draft of 6 metres. Hence float out and tow away is possible from most places.
- The design allows damage stability to be provided. This is the ability to remain safely afloat with some barge compartments accidentally flooded
- The large volumes provide space for flow batteries and other technologies to be accommodated, as these become more widely used onboard floating wind platforms
- LCOE is estimated at £130/Mwh