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BACKGROUND

Floating wind can play a major role in the world reaching carbon neutrality in the coming decades, but as a maturing technology there is not yet a standard implementation proven at commercial scale. Robert Eykhout, Mammoet's Regional Commercial Lead for Offshore Wind, discusses how engineered heavy lifting and logistics can help this exciting technology to mature and realize its potential.

OBJECTIVES

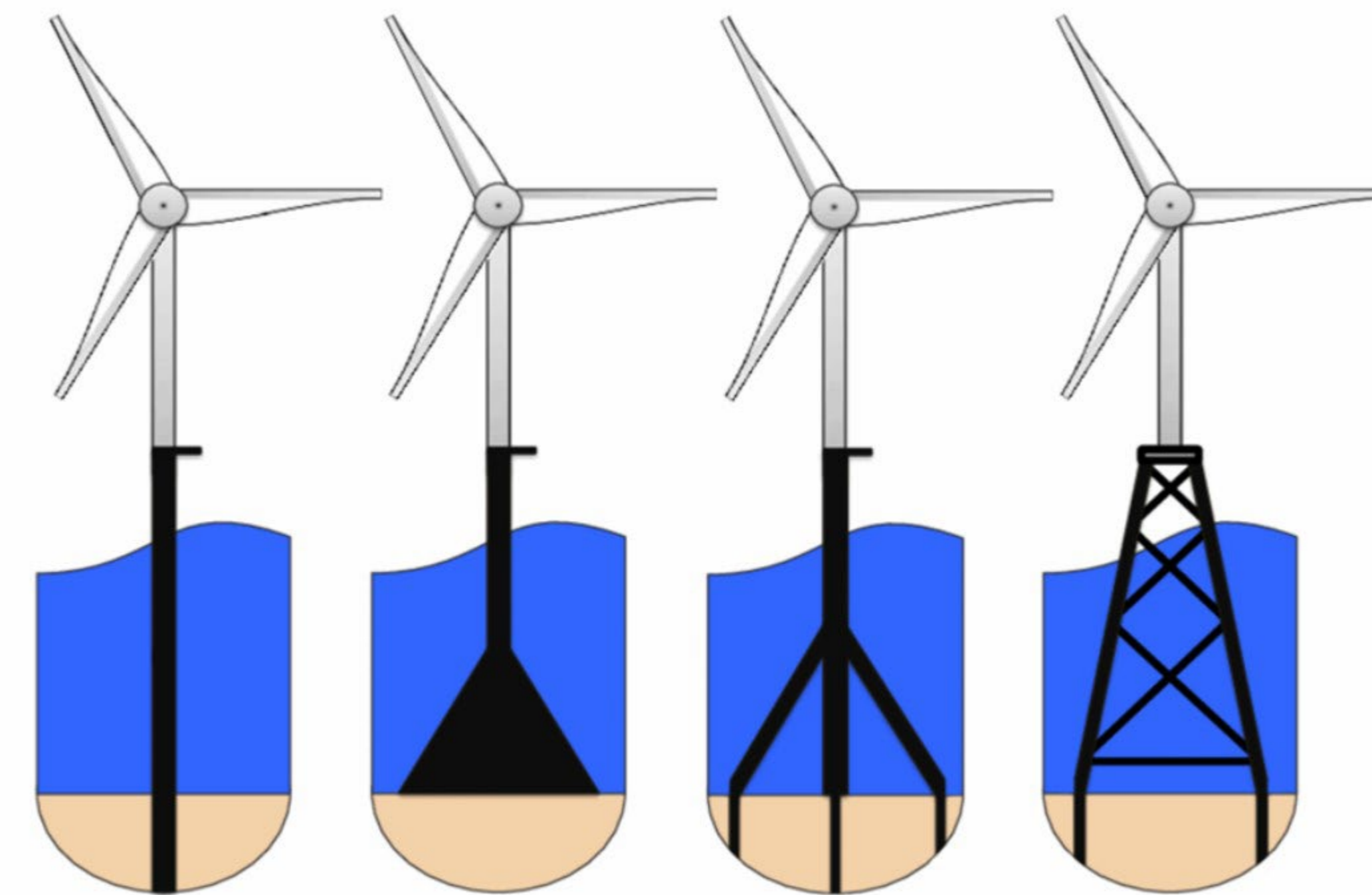
- To unlock the potential of floating wind, the most effective methods of constructing wind parks at scale must be established as soon as possible, and standardized.
- Given their high potential yield, floating wind farms provide a fast route to de-carbonize the world's energy supply - and engineered heavy logistics will play a central role in achieving this.

METHODS

Ways to realize potential of floating wind:

- Efficient fabrication and load-out
- Upgrading ports to accommodate floating wind projects
- Launching components
- Super crane capacity will be key
- Maintenance needs innovation and experience
- Developing floating wind at scale

RESULTS

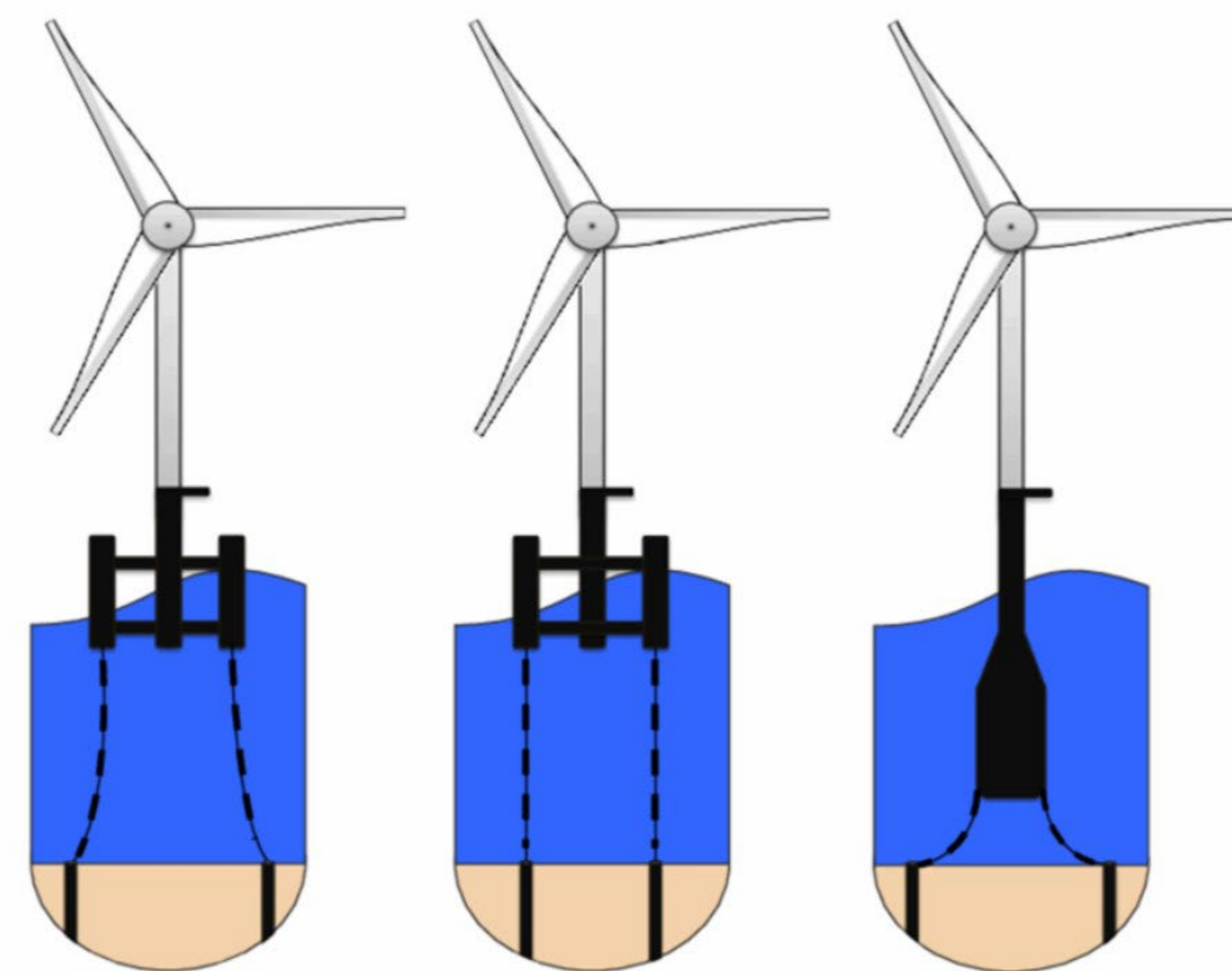


Different bottom-fixed foundation types for offshore wind turbines. From Left to Right: gravity based, mono-pile, tripod and jacket. Source P.L.C. van der Valk, 2014



ABOVE: Mammoet's SK6,000 crane has the capacity to lift foundations directly from the quay to the water.

BELOW: Floating wind can play a major role in the world reaching carbon neutrality in the coming decades.



There are many designs of floating wind foundations in use currently. From Left to Right: semi-submersible, tension leg platform and floating spar buoy, Source: P.L.C. van der Valk, 2014



CONCLUSIONS

The huge potential of floating wind is becoming a reality, but all elements of the industry's supply chain must work together to establish the most effective and scalable way forward to fully deliver on this promise.

Mammoet's expertise both in offshore renewables and other relevant heavy industry sectors can provide proven knowledge, methodologies and equipment – creating a drag-and-drop advantage for your floating wind project.

ACKNOWLEDGEMENTS

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CONTACT INFORMATION

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