



# WIND-bos Evolved SPAR

*Innovating beyond shore*

BlueNewables has developed the WIND-bos technology, a disruptive offshore foundation concept for the next generation of offshore wind turbines (+20 MW).

Current design is the result of a thorough analysis of the state-of-the-art and emerging technologies in this field, which have shown great potential to reduce the costs of floating wind energy.

BlueNewables



# WIND-bos

## The Sliding SPAR by BN

The Wind-bos design combines the main advantages of current floaters in the offshore industry.

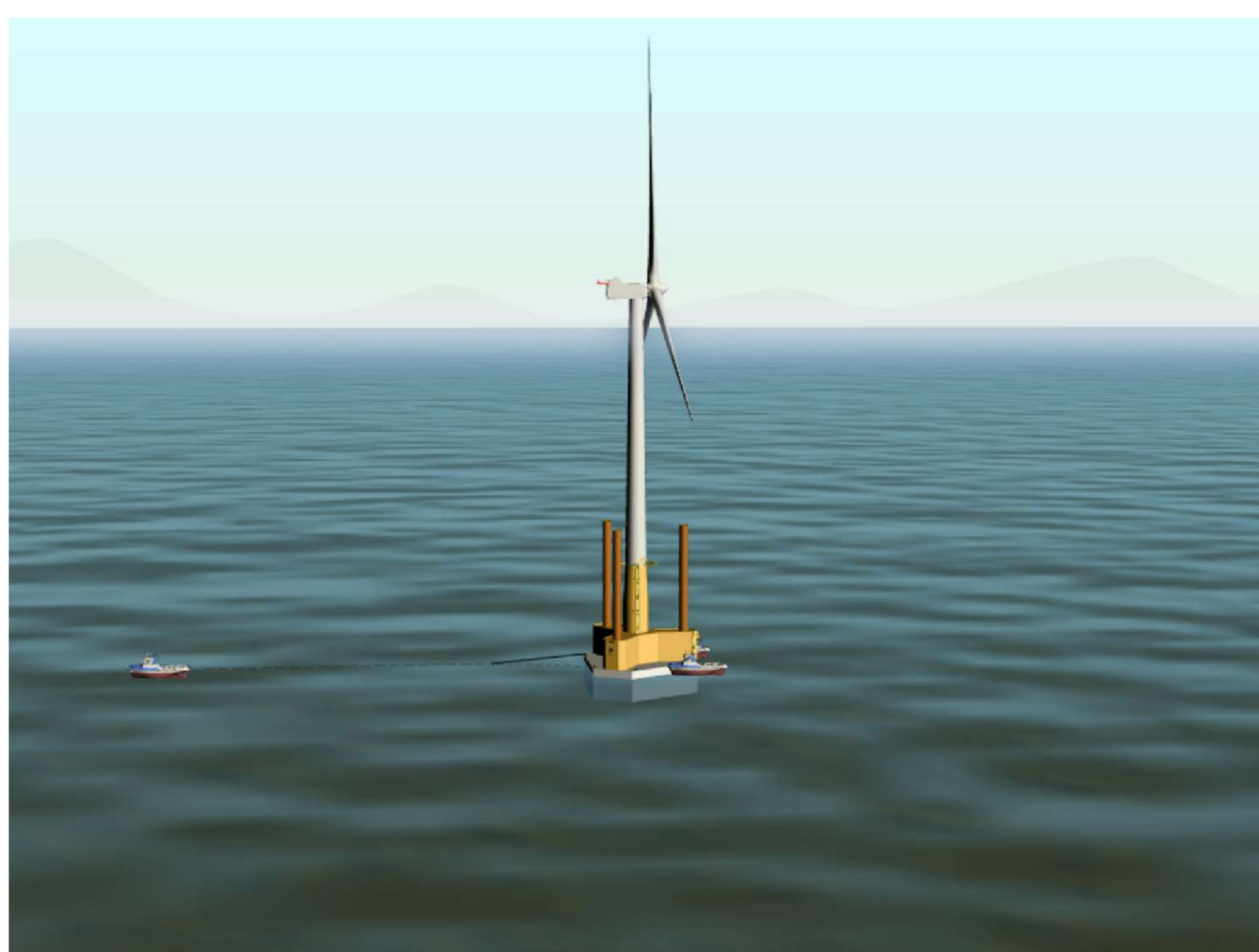
Due to its hydrodynamic properties and overall dynamic behaviour, it defines an optimum floater, suitable for a wide range of site conditions and both standard as well as taut mooring configurations, without the need for an active ballast system.

The WIND-bos concept is a robust design to maximize the electric production.



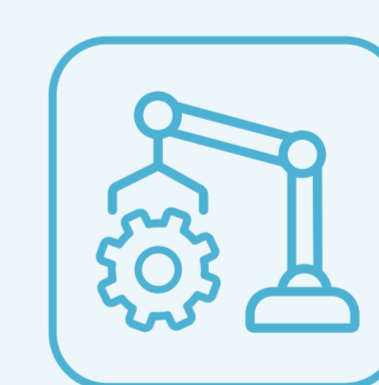
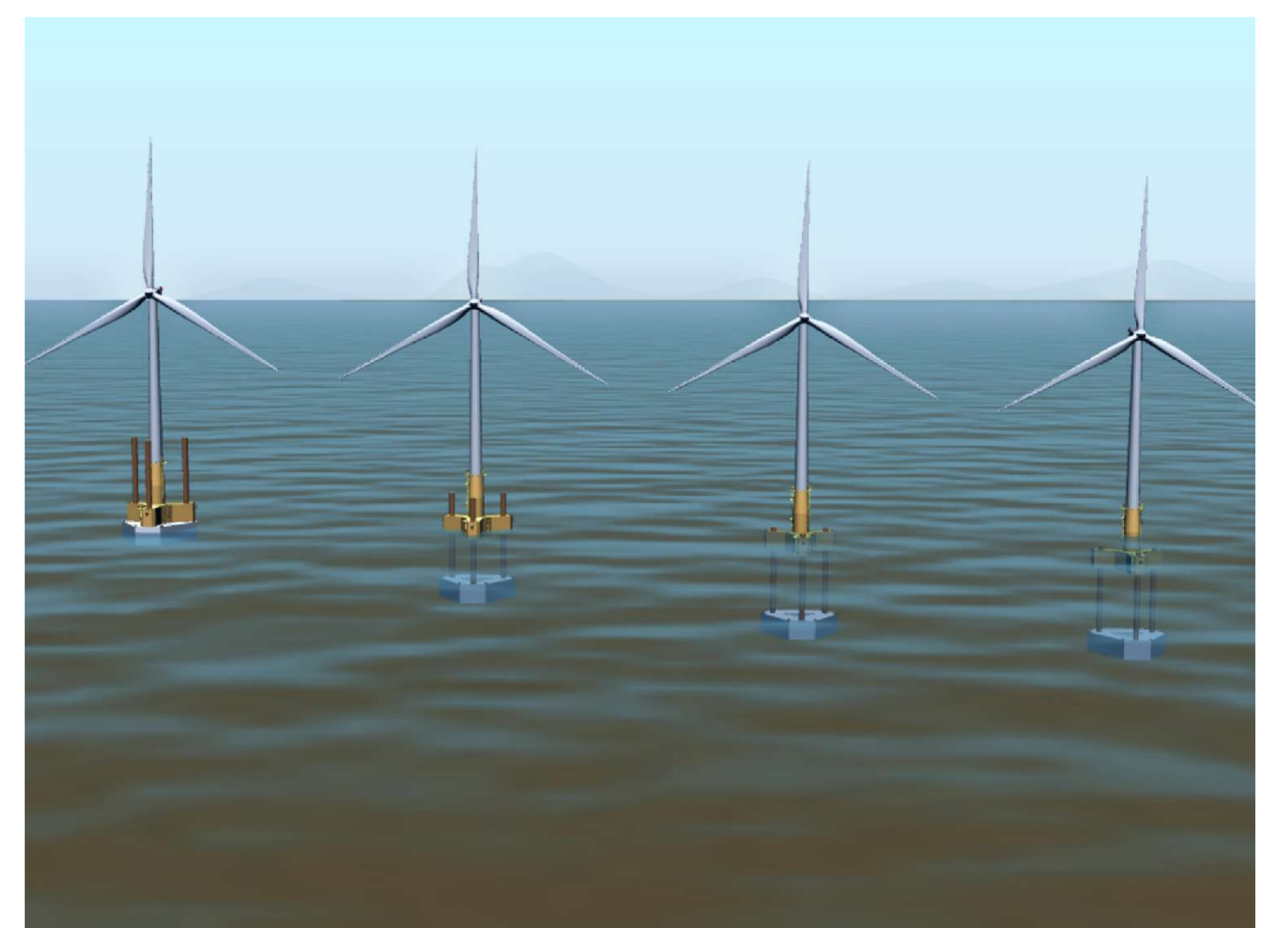
### MANUFACTURING AND MATERIALS

- Low fabrication costs due to the use of concrete for the counterweight as main construction material
- Modularisation: easy to industrialise and suitable for off-site manufacturing
- Trouble free formwork and high production speed
- Wide supply chain and no bottlenecks during the C&T&I



### TOWING

- Transport in semi-submersible mode with high stability and shallow draft
- Transport with conventional 150t AHV
- Wide range of workable environmental conditions for transport and installation



### INSTALLATION

- Self-installing: no need of expensive and scarce Heavy Lift Vessels
- Simple guidance and locking system
- Deployment operation switching to SPAR-type configuration
- Quick and safe hook-up
- High workability limits for installation