CT-bos
Tension Leg

Offshore wind energy for a sustainable energy model

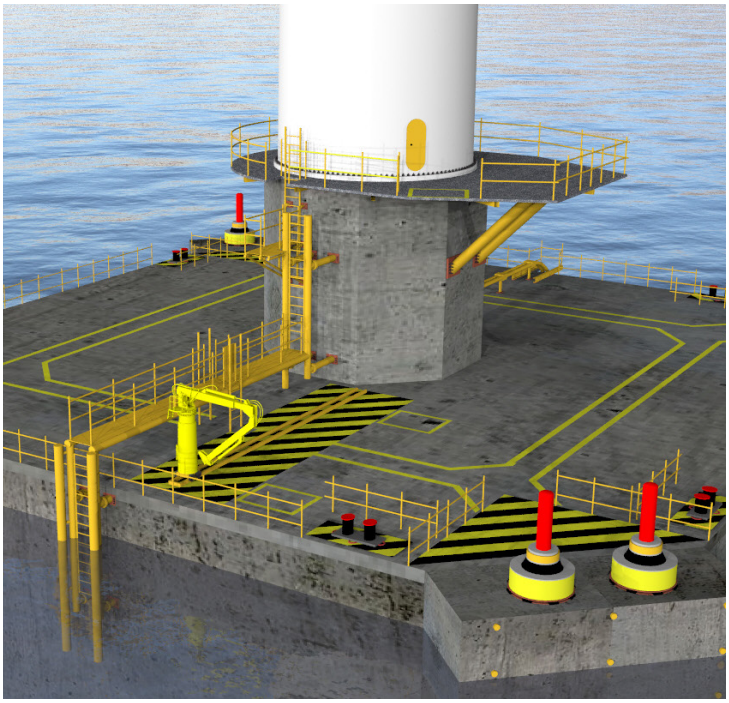
The future of humanity and its union with the planet depends on the way in which energy is produced: ACCIONA has set an ambitious road-map to achieve a reliable, affordable and decarbonized energy system with new partnership and new solution developed together with one of the most experienced teams in the manufacturing of concrete solution for the offshore industry.

CT-bos Tension Leg

Offshore wind energy for a sustainable energy model

Co-Developed by

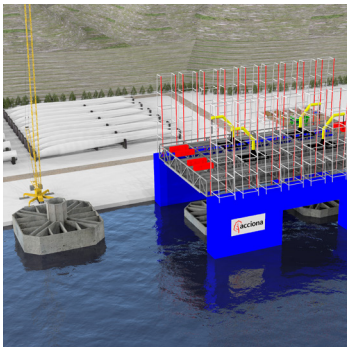
BlueNewables

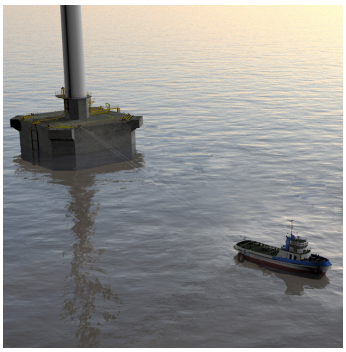


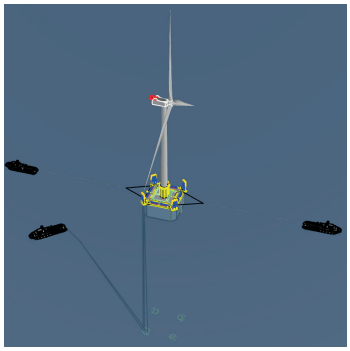
CT-bos TECHNOLOGY

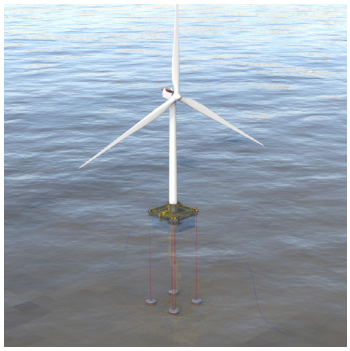
CT-bos technology will provide an easily adaptable solution for different turbine sizes with very little increase in size or cost, thanks to its simple geometry based on a concrete port caisson.

The proposed floating concept is an innovative wind-specific evolution of the tension leg type platforms









MANUFACTURING

- Easy to industrialize
- Quicker construction rates by floating caisson-building dock
- Requirement of small yard area
- Floating dock manufacturing more effective than traditional/climb forming
- Promote local content by focusing on concrete construction

TOWING

- Self-stable for T&I phases
- Transport with conventional tug 100Tn
- Wide weather windows for transport and installation
- High installation rates during the major part of the year
- Access to platform by Walk to Work

INSTALLATION

- High strength rigid pipe
- Reliable, long-lasting and maintenance-free tendons
- Tendons and installation equipment transport on board the platform
- Two tendons per suction can

IN-PLACE

- Lighter and smaller
- Low foot-print
- Easy scalability to 20MW turbine
- Maximizing electric production
- Stability and behavior provided by the tendon's stiffness

Mechanical connectors used for joining tendon sections