

Circular High-Performance composite materials for modular wind turbine blades

Sector: Marine energy

Short description of the needs:

ACT Blade Europe is specialised in the manufacture of ultra-light modular wind turbine blades based on high-performance textile composite architectures.

Technological proposals are required to develop a transition process from conventional thermosetting matrices to sustainable resin systems, identifying and validating polymer matrices that are partially bio-based, chemically recyclable or designed for controlled depolymerisation. The proposed technology must ensure fibre-matrix separation and material recovery without compromising structural performance and maximising compatibility with existing industrial production processes. The company is searching for collaborations and partnerships with research institutions and composite material developers to support the formulation, structural validation and end-of-life testing of circular composite solutions for new-generation wind turbine blades.

More info: For more information apply to eccentric@imast.it

Company: ACT Blade Europe S.r.l.

Point of contact for the brief/challenge: IMAST - High Tech District on Engineering of Composite Materials and Polymers

Company position in the value chain: OEM