

## **EuCIA has been awarded a grant for the participation in two European projects starting from 2023**

### **The REFRESH Project:**

Smart dismantling, sorting and **RE**cycling of glass Fibre **RE**inforced composite from wind power Sector through **H**olistic approach.

This project aims to develop and demonstrate a novel circular, smart system for an improved recycling (>90%) of glass fiber-reinforced composites derived from wind turbine dismantling or reblading.

REFRESH will focus on the most robust and mature mechanical treatments, where composites are grinded in various size and used as new raw material to create multifunctional panels for various applications (automotive, marine, construction..)

The novel REFRESH approach will allow potential savings of virgin raw materials of 22 and 52 Mton after 5 and 8 years from project end respectively.

Duration 48 months.

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### **The MAXBlade project:**

**MAX**imising tidal energy generation through **Blade** Scaling & Advanced Digital Engineering. It will focus on delivering a 70% increase in rotor swept area of the technology relating to tidal turbine blades.

It aims to reach a site-averaged €30/MWh cost reduction in tidal stream energy. The project anticipates significant challenges around applying circular economy principles to tidal stream turbine blades in pursuit of a net zero generation sector and ensure that the European composite sectors become the international leader in tidal blade.

The MAXblade project will allow to build of a tidal array of at least two units (c. 5MW), ensuring that 8 blades (4 rotors) are tested providing cumulatively 120,000 hours of rotor performance data.

Duration 66 months