

## ATOMS

### Attachable Towable Operation & Maintenance System

Pillar III  
Marine renewable energy  
5 | Wind energy



ATOMS is aimed at designing, building, certifying and fully demonstrating in an operative environment a pioneer technology for turbines' Large Corrective Maintenance (LCM) actions.

## Overview

OPEX accounts for approximately 30% of the cost of offshore wind energy and is thus a critical factor in the path to further reducing the cost of this strategic energy source. Nearly half of this OPEX is dedicated to paying for the large jack-up vessels that are, as of today, the only option to perform any so called Large Corrective Maintenance (LCM) interventions, dealing with the replacement and handling of major components of offshore wind turbines.

ATOMS (Attachable Towable O&M System) project will complete the development, prototype, certification and fully demonstration in real operative offshore conditions of a pioneer technology for turbines' Large Corrective Maintenance actions which will -for the first time- escape the monopoly of jack-up vessels and will drastically reduce the maintenance cost of bottom-fixed wind turbines. What is more, ATOMS shall demonstrate and provide a simple and yet breakthrough solution to one of the key unsolved technological challenges for the future of the offshore wind sector: how to perform on-site Large Corrective Maintenance operations in floating wind turbines.



## Project funding

**Total cost:**  
3,545,109 euros

**EU funding:**  
2,481,576 euros

**Funding instrument:**  
EMFF

## Contact

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## Impact & Results

Not only will our solution slash to nearly 1/5 the costs currently dedicated to jack-up services for the maintenance of bottom-fixed turbines, resulting in a 35% reduction in current OPEX but it will also fill the technological gap existing in floating offshore market when dealing with LCM actions.

## PARTNERS

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