REWIND

COMPOSITE PATCH

Specialist in structural composite repair and maintenance systems

MEET OUR PARTNERS

SPECIALIST IN STRUCTURAL COMPOSITE REPAIR SYSTEMS

By Biot Manon

Composite Patch is a Spanish company founded in 2011 and headquartered in San Sebastián, specializing in advanced repair solutions for composite structures. The company manufactures innovative repair systems designed to restore the structural integrity of composite components in a fast, reliable and durable way. Its solutions are used across a wide range of industries: wind energy, aerospace, railway, marine and civil engineering applications.

Composite Patch has established itself as a recognized supplier of practical and ready-to-use repair technologies. The portfolio includes composite repair patches, epoxy resin systems, structural adhesives and lightweight fillers, specifically developed to simplify field repairs, maintaining high mechanical performance and long-term durability.

ADVANCED COMPOSITE REPAIR SOLUTIONS

A key strength of the company lies in the development of error-proof repair solutions capable of performing under challenging environmental conditions, including low temperatures and high humidity levels. By reducing repair times and avoiding costly component replacements, helping operators extend the service life of critical assets while minimizing downtime.

Through its focus on innovation, sustainability and efficiency, CPATCH promotes a repair-first approach reducing material consumption and waste. By enabling the long-term maintenance of composite structures, supports sustainable and cost-effective asset management.

READY-TO-USE SOLUTIONS

Designed for on-site repairs and maintenance of composite structures across multiple industries worldwide.

ROLE IN THE REWIND PROJECT

Responsible for a compliant repair system based on recyced materials

WORKING ON WP4

Composite Patch is responsible for the development and validation of a compliant repair system for wind turbine components based on recycled materials. The company contributes to the definition of fiber requirements, the selection of suitable recycled fibers and resins, and the development of repair patch prototypes made with recycled fibers and matrix. Composite Patch also evaluates the handling, wettability, curing behavior and mechanical performance of the developed solutions, ensuring their compliance with wind turbine repair standards and their applicability under real operating conditions

BIOT MANON

Project Manager and Engineer

1.WHAT IS COMPOSITE PATCH'S EXPERIENCE IN THE WIND ENERGY SECTOR?

Composite Patch has extensive experience in the repair and maintenance of composite structures used in the wind energy sector. The company develops advanced repair systems for wind turbine blades, including composite patches, epoxy resins, structural adhesives and fillers, designed to restore structural performance while minimizing turbine downtime. Through its involvement in blade repair operations, Composite Patch has gained valuable expertise in the durability, application and long-term performance of composite repair solutions.

2.WHAT ATTRACTED COMPOSITE PATCH TO JOIN THE REWIND PROJECT?

The REWIND project offers a unique opportunity to address one of the major challenges facing the wind industry: the end-of-life management of composite materials. For Composite Patch, the possibility of incorporating recycled fibres and resins into high-performance repair solutions perfectly aligns with its commitment to extending the service life of composite structures and promoting more sustainable maintenance practices.

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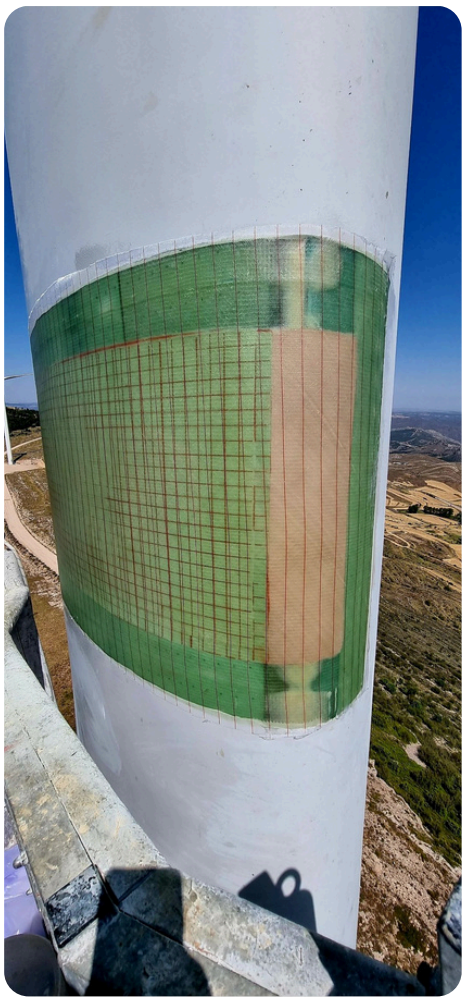

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MEET OUR PARTNERS: CPATCH

An interview conducted by Helena Abril from AEMAC, leader of WP6 in the REWIND Project.

October 2026

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3.WHAT ARE THE MAIN CHALLENGES YOU ARE GOING TO ADDRESS IN THE REWIND PROJECT?

Within REWIND, Composite Patch is responsible for the development and validation of repair systems based on recycled materials. The main challenge is to demonstrate that recycled fibers and recycled or reformulated resin systems can meet the performance requirements of structural repairs. This includes ensuring proper handling characteristics, material compatibility, mechanical properties, durability and reliability under real operating conditions.

The company will also evaluate the manufacturability and industrial scalability of the developed repair solutions.

4.WHAT DO YOU HOPE TO HAVE ACHIEVED BY THE END OF THE PROJECT?

By the end of the project, Composite Patch aims to demonstrate that recycled materials can be successfully incorporated into certified repair solutions for composite structures. The objective is to deliver validated repair systems that combine high technical performance with improved sustainability, providing the wind industry with practical solutions to extend blade service life while reducing the environmental impact associated with composite waste.

5.HOW THE REWIND PROJECT WILL BENEFIT THE WIND ENERGY INDUSTRY?

REWIND has the potential to create a more circular value chain for composite materials used in wind turbines. By enabling the recovery and reuse of fibers and resins in repair applications, the project can reduce waste generation and dependence on virgin raw materials. In addition, the development of repair solutions based on recycled materials will help operators maintain existing assets more sustainably, contributing to lower lifecycle costs and improved environmental performance across the wind energy sector.

Funded by European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them. Grant Agreement Nº101147226

Funded by the European Union