

REFRESH has received funding from the European Union's Horizon Europe programme under grant agreement no. 101096858.



PRESS RELEASE

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REFRESH wind blade recycling project exhibits at JEC World 2025

The REFRESH project is presenting its smart, circular concept for the sustainable management of end-of-service wind turbine blades at JEC World 2025 in Paris on 4-6 March.

REFRESH, an EU-funded project, will exhibit on booth 6D114-3 in the new Research and Innovation Projects zone being launched at JEC World this year. Project partners will be available to discuss progress and products incorporating recycled blade materials will be on display.

Advancing blade circularity

REFRESH is building a circular and sustainable value chain to enable improved recycling of glass fibre reinforced composite materials from decommissioned wind blades. The project focuses on the mechanical and thermochemical treatment of blades. A range of new products resulting from the outputs of the different recycling processes are being designed. A dedicated traceability tool and decision-making software will make it possible to select the most sustainable recycling route for each blade.

The REFRESH innovations include:

- blade cutting, shredding and sorting technologies;
- customised recycling processes;
- new products incorporating recycled materials for use in wind energy and other markets;
- a novel blockchain traceability platform covering the whole value chain.

The approach developed within the project is being validated by means of life cycle assessment (LCA) and life cycle costing (LCC) analyses.

The project team comprises 11 partners: project coordinator RINA Consulting (Italy), ACCIONA Construcción (Spain), CETMA (Italy), CIRCE (Spain), EuCIA (Belgium), Enecolab Srl (Italy), GEES Recycling (Italy), Gjenkraft (Norway), MTB Manufacturing (France), ETAT9 (France), and TECNALIA (Spain).

RINA Consulting (project coordinator), ETAT9, Gees Recycling, Gjenkraft, Enecolab, and EuCIA will be available at JEC World to discuss the project's objectives and results to date.

Examples of new products developed using recycled materials will include panels for building and construction applications manufactured using the Gees Recycling mechanical process, and skis

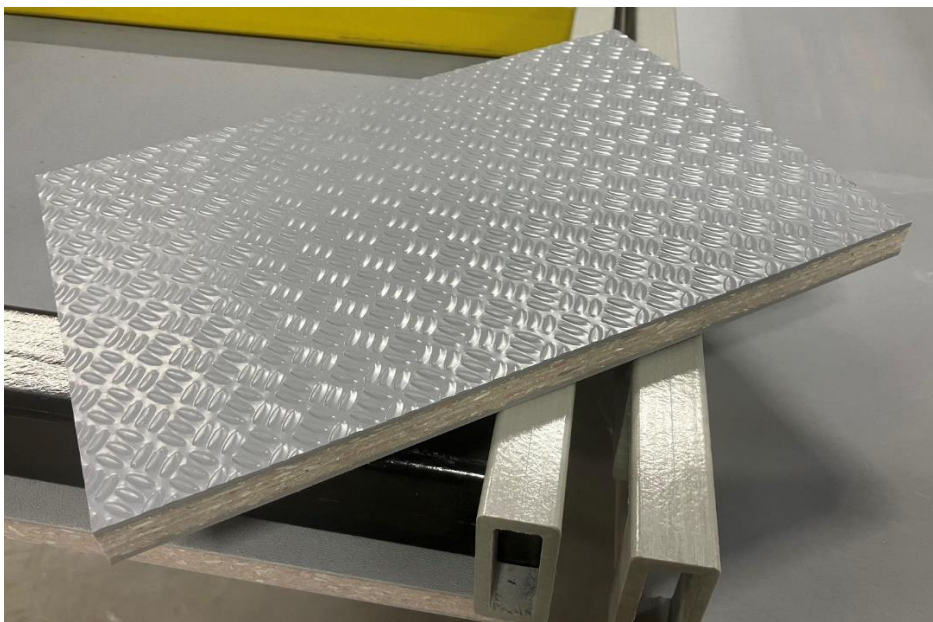
incorporating fibres recovered using the Gjenkraft advanced thermal process. There will also be a blade tip display created by ETAT9.

The REFRESH presentations

There will be two REFRESH presentations on the Open Stage in the Research and Innovation Projects area in Hall 6. Project coordinator Daniel Grisenti, of RINA Consulting, will deliver the presentation *REFRESH: From End-of-Use Blades to New Products* on 4th March at 15.15-15.35, and 6th March at 11.15-11.35.

A Horizon Europe project

REFRESH (*Smart dismantling, sorting and REcycling of glass Fibre REinforced composite from wind power Sector through Holistic approach*) is funded under the Horizon Europe research and innovation programme under grant agreement no. 101096858. The project commenced in January 2023 and will last 48 months.



A structural panel manufacturing by Gees Recycling using recycled materials. (Picture © Gees Recycling.)

Press enquiries

Amanda Jacob, Communication Manager, European Composites Industry Association (EuCIA)

Email: amanda.jacob@eucia.eu

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