

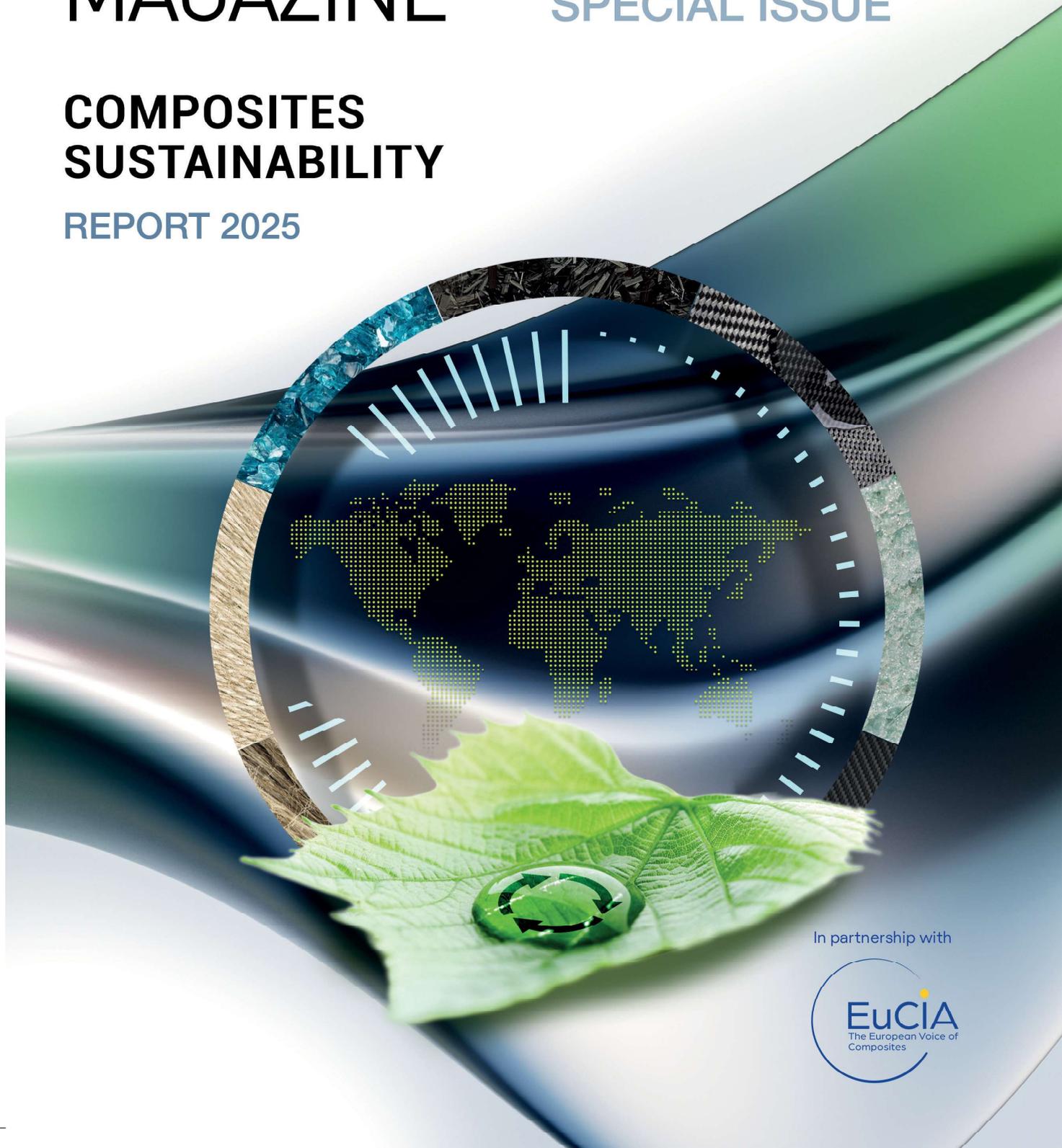
JEC COMPOSITES

MAGAZINE

SPECIAL ISSUE

COMPOSITES SUSTAINABILITY

REPORT 2025



In partnership with



AEMAC White Paper focuses on composites sustainability

In 2025 Spanish association AEMAC published a comprehensive document exploring the sustainability of composite materials. This article provides an introduction to the White Paper's objectives and content.

AEMAC (Asociación Española de Materiales Compuestos), the Spanish Association for Composite Materials, has recently published the first edition of the Sustainability of Composite Materials White Paper. The main purpose of this document is to compile and review technical developments in the field of composite materials sustainability. It is also serving as a means to coordinate and organise activities within the Spanish composites community, ultimately leading to proposing actions related to technical developments and upcoming Spanish and European legislation that could affect the future use of composite materials in the energy, transportation, defence, sporting goods, and other technical sectors.



The cover of the new AEMAC publication.

Developments and new approaches

The White Paper is composed of 25 chapters and 2 appendices. The content covers developments in composites reuse and recyclability (end of life and production) as well as new approaches in the materials field, including thermoset and

thermoplastic resins and natural fibres, new design concepts and manufacturing technologies, with a focus on reducing energy and auxiliary materials consumption, aiming to improve current sustainability across design, material production, part manufacturing and end-of-life of structures.

More than 20 research groups that comprise Spanish universities, technology research centres, and industries have contributed to the preparation of this White Paper. A technology working team has also been created to continuously monitor ongoing developments and to propose, if appropriate, new research activities and collaborations in this very relevant field to secure the sustainable expansion of composite applications in industry.

Further information

- **AEMAC Sustainability of Composite Materials White Paper:** <https://www.aemac.org/wp/wp-content/uploads/2025/03/Libro-Blanco-Materiales-Compuestos-1a-Ed.pdf>
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The condensate resulting from pyrolysis of a composite (right) and a carded yarn produced from recycled carbon fibre (left).

