

PRESS RELEASE

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VIBES Project: Pioneering Sustainable Innovations in Thermoset Composites

The VIBES project has made substantial progress, highlighting its commitment to sustainability, innovation, and industry advancement. Among its key achievements are the development of bisphenol-free epoxy resins derived from biobased materials, enhanced with Biobased Bonding Materials (BBM) to improve recyclability, and the introduction of lignin-derived carbon fibres and flax fabrics as sustainable reinforcements for thermoset composites. Additionally, the project has pioneered a green recycling technology for thermoset composites, offering an eco-friendly chemical debonding solution.

These innovations have been successfully demonstrated across various industries. In construction, thermoset composite panels with glass and flax reinforcements were produced for diverse applications. In the naval sector, flax-reinforced panels performed well, meeting and, in certain aspects, surpassing expected standards. For aeronautics, recyclable flax-reinforced composites were validated for non-structural components.



Another significant milestone is the design of a cutting-edge recycling pilot plant, employing eco-friendly methods to revalorise thermoset composites from construction, naval, and aeronautics industries.

On November 13, 2024, the VIBES consortium gathered in Zaragoza, Spain, hosted by AITIIP, to review progress and plan for the project's final phase. Partner contributions captured during the meeting will be featured in an upcoming promotional video. A stakeholder roundtable held the next day provided valuable discussions on sustainable composites, innovative recycling, and alignment with EU circular economy policies, paving the way for future collaborations.



In its final phase, the project will focus on completing the recycling pilot plant, finalising the chemical debonding process and valorisation of components, concluding sustainability assessments, advancing innovation and business strategies, and enhancing communication, dissemination, and training initiatives.

Stay informed about the latest developments and updates from the VIBES project by visiting the official website at www.vibesproject.eu. Don't forget to subscribe to our newsletter and follow VIBES on social media to stay connected.



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