



Eolian

NEWSLETTER

Updates from EOLIAN November 2025



WEBINAR

A new generation of sustainable
wind turbine blades

11th December, 10:00-11:30 CET

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EOLIAN is pleased to announce its first stakeholder workshop. The event will provide an introduction to the project and its mission to develop a new generation of wind turbine blades offering longer lifetime, better maintainability and reliability, together with higher sustainability and recyclability.

The webinar takes place on Thursday 11th December at 10:00-11:30 CET.

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This event is aimed at research, industry and policy professionals interested in advancing sustainability and circularity in wind energy. Participants will learn about new vitrimer composite materials for manufacturing recyclable and repairable blades, technologies to enable structural health monitoring and de-icing, and the potential technical, economic and environmental benefits these EOLIAN innovations will bring to the wind energy industry. Guest speakers will offer insights from related EU-funded projects BLADE2CIRC and ECORES WIND.

Meet Our speakers

- **Marco Monti**, EOLIAN project coordinator, Proplast
- **Cristina Monteserin** and **Alazne Martinez** of Tekniker
- **Alessandre Milite** and **Riccardo Di Giovanni** of Politecnico di Milano
- **Claudia Vázquez Sanz** and **Xabier Munduate** of Norvento Enerxía
- **Leyre Hernández**, project coordinator of BLADE2CIRC
- **Aitziber Iturmendi**, project coordinator for ECORES WIND

[Meet the speakers](#)

EOLIAN's M18 General Assembly in Turkiye

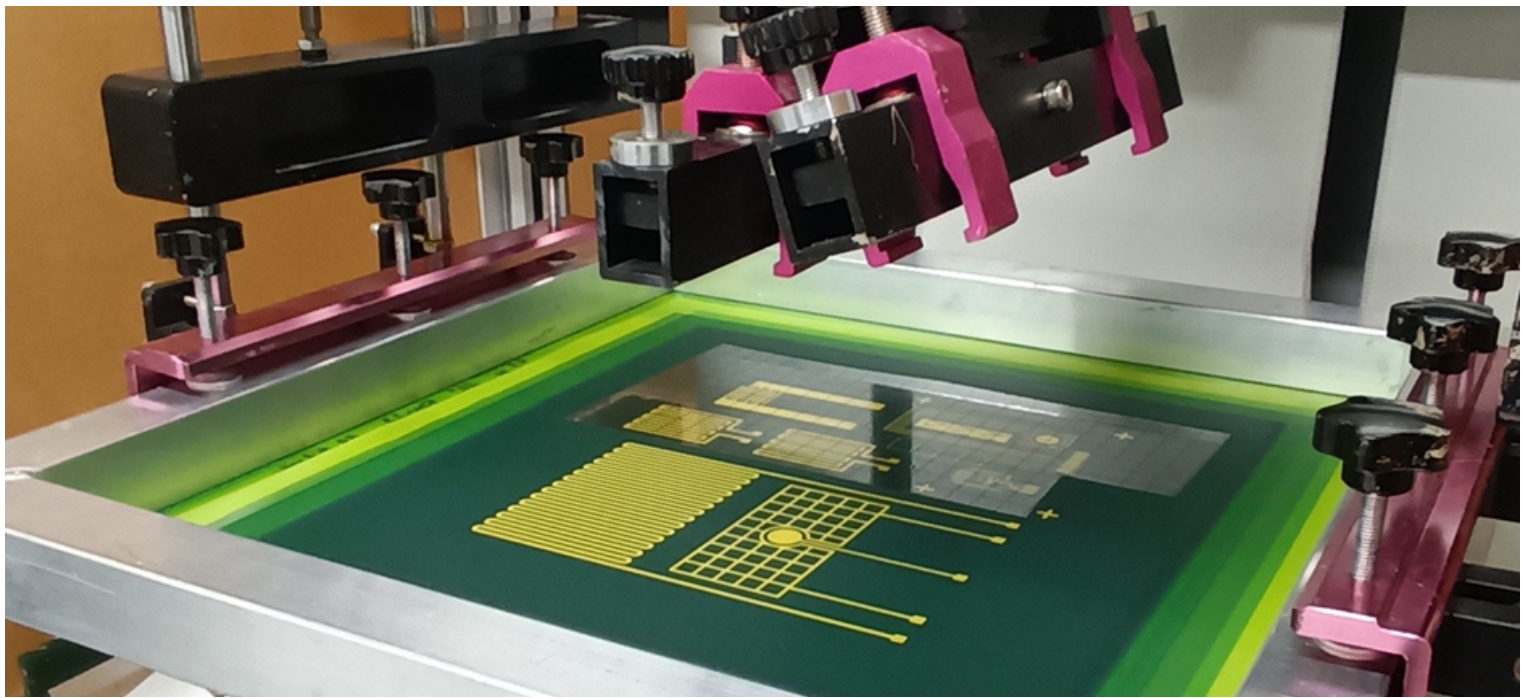


The EOLIAN team met in Istanbul on 25th November to celebrate the project's M18 milestone towards developing bio-based, repairable and recyclable vitrimer composites and advanced sensors for highly reliable and sustainable wind turbine blades. We thank EOLIAN partner Zorlu Enerji for hosting this event. Led by project coordinator Proplast, the meeting agenda included presentations from the project's Work Packages, focusing on a review of work performed over the past six months, and a look towards the next steps. The formal programme was followed by a social dinner, offering an opportunity to continue the discussions, and experience the local food and drinks!

Further news from the General Assembly will be available soon.

Meet our partners

TEKNIKER



Founded in 1981, TEKNIKER is a research and development centre, legally constituted as a private not-for-profit foundation. With 287 researchers and a turnover of €24 million in 2023, TEKNIKER is specialised in advanced manufacturing, surface engineering, ICTs for manufacturing, and product engineering.

In EOLIAN, TEKNIKER is the leader of Work Package 2: Development of advanced materials based on dynamic covalent bonds. This is focused on the development and characterisation of different types of bisphenol A-free epoxy systems containing dynamic covalent bonds, which give them properties such as reshapeability/reprocessability, repairability, and recyclability. In cooperation with Politecnico di Milano and Proplast, vanillin-based vitrimer composites reinforced with basalt fibres are being developed and their chemical recycling through dissolution studied.

TEKNIKER also leads Work Package 4: SHM technologies and operation and maintenance methodologies. This concerns the integration of sensors (corrosion and ice detectors) and actuators (heaters) into the composite material through an in-mould electronics approach.

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EVENTS

JEC FORUM DACH 2025

Business Meetings & Conferences

October 21-22, 2025 | DRESDEN
GERMANY

EOLIAN communication and dissemination lead **EuCIA** participated in JEC Forum DACH 2025 in Dresden.

Organised by JEC in partnership with AVK, this highly-focused composites event fosters innovation, business development and cross-border collaboration. An ideal opportunity to share information about EOLIAN and its mission to develop novel wind turbine blades based on vitrimer composites, as well as the PLEIADES project, which is exploring aerospace applications for vitrimer composites and where EuCIA is also a partner.

[Read more](#)

[Read More](#)

EURADH 2025

European Adhesion Conference

October 1-3, 2025 | VALENCIA
SPAIN

EOLIAN partner **Tekniker** took part in the EURADH (European Adhesion Conference) 2025 to showcase its latest advances in vitrimer resin formulations.

During the event in Valencia in October, Tekniker presented its innovative solutions designed to improve the recyclability of resins employed for adhesive systems.

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WIND BLADE MATERIALS INNOVATION AND SUSTAINABILITY FORUM

September 15-16, 2025 | ISTANBUL
TURKEY

Zorlu Enerji participated in the 9th Annual Wind Blade Materials Innovation and Sustainability Forum in Istanbul, organised by TBM Group.

In the presentation Bio-based, repairable and recyclable vitrimer composites, Zeynep Korkmaz, R&D Specialist, introduced the goals of the EOLIAN project:

- Development of smart, repairable and recyclable wind turbine blades using vitrimer composites;
- Integration of embedded sensors for structural health monitoring and anti-icing functions;
- Use of bio-based resin and basalt fibres to enhance sustainability;
- Design and testing of a vitrimer blade demonstrator;
- Reduction of maintenance costs and environmental impact across the blade life cycle.

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Zorlu Enerji is leading the project's exploitation activities.

About EOLIAN



Funded by
the European Union

EOLIAN – Bio-based, repairable and recyclable vitrimer composites and advanced sensors for highly reliable, sustainable wind blades – has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement no. 101147532.

Our partners: Proplast (project coordinator), AEP Polymers, Brunel Composites Centre (Brunel University London), Entelea, European Composites Industry Association (EuCIA), IRES, Norvento Enerxía, Politecnico di Milano, Tekniker, Zorlu Enerji.

Further information www.eolian-project.eu

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