

SOLRESS: Towards Safe and Sustainable Bio-Based Solvents from Second-Generation resources

A successful launch



The SOLRESS project officially kicked off on September 10-11, 2025 in Valencia, Spain, marking a major step toward the development of safer, sustainable, and high-performance bio-based solvents for European Industries. Funded by the Circular Bio-based Europe Joint Undertaking (CBE JU) with a contribution of €7 million under a total budget of €9.1 million, the project will run for 48 months under the coordination of AIMPLAS, Plastics Technology Centre (Spain).

Advancing Europe's transition to safer and more sustainable solvents

SOLRESS aims to develop an integrated biorefinery system to produce five key industrial solvents - ethyl acetate, ethyl lactate, butyl acetate, 2-MeTHF, and GVL - from second-generation biomass waste, including post-consumer coffee grounds and lignocellulosic feedstocks. Designed to meet industrial purity standards, these bio-based solvents will be tested in sectors such as paints and coatings, cosmetics and industrial material processing.

Project's ambition

The project's ambition is threefold:

- to replace the use of fossil, non-renewable raw material with sustainable bio-based feedstocks for key solvents;
- to provide Safe-and-sustainable-by-design (SSbD) alternatives to controversial solvents associated with high hazard and toxicity;
- to enhance the competitiveness and sustainability along the entire value chain.

Through the collaboration of leading industrial, research and innovation actors, SOLRESS will demonstrate how bio-based solvents can strengthen Europe's industrial resilience, reduce environmental impacts and create new opportunities across the chemical sector.

A multi-stakeholders project

SOLRESS is a collaborative project that unites expertise and innovation, bringing together 17 partners under the coordination of AIMPLAS (Spain):



About CBE JU

Within the framework of Horizon Europe, the Circular Bio-Based Europe Joint Undertaking (CBE JU) is a €2 billion public-private partnership between the European Union and the Bio-Based Industries Consortium (BIC). CBE JU supports innovation and market deployment in the bio-based sector by funding collaborative projects that bring together industry, research, and primary producers to accelerate the transition toward a circular and sustainable bioeconomy.

About Horizon Europe

Horizon Europe is the European Union's key funding programme for research and innovation. It aims to strengthen the EU's scientific and technological bases, boost Europe's competitiveness, and deliver on the EU's strategic priorities, including the green and digital transitions. Launched on 1 January 2021, Horizon Europe succeeds Horizon 2020 and supports projects across the entire innovation chain, from fundamental research to market deployment.

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Views and opinions expressed are however those of the authors only and do not necessarily reflect those of the European Union, the Horizon Europe or the HADEA. Neither the European Union nor the granting authority can be held responsible for them.

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