

LCA4bio

Harmonised Life Cycle Assessment methods for sustainable and circular BIO based systems

PROJECT CONTRIBUTIONS:

To facilitate the green transition of the European industry, a more applicable and realistic environmental assessment of bio-based systems is being demanded as a way to demonstrate the improved performance of bio-based products versus its unsustainable counterparts, and identify the best available technologies, to promote the sustainability of industrial procedures and fulfil the zero-pollution objectives encouraged by the European Commission.

In this context, the LCA4bio project aims at:

Develope and validate a new set of methodologies to properly evaluate environmental impacts and circularity in bio-based systems, that can be applied in certification schemes, thus enabling the international trade of this type of products. Additionally, LCA4BIO:

Address the development of new prospective life cycle assessment methodologies via Integrated Assessment Models with manageable levels of uncertainty, for an accurate comparison between potential environmental impacts of emerging bio-based technologies and current systems in the market.

Involve different stakeholders in the bioeconomy value chain in a co-creation process that will permit to consider their requirements, and test the adequateness of the methodologies developed by the LCA4BIO partners.

The new approaches developed in **LCA4BIO** are expected to stimulate the growth of the European bio-based sectors that could lead to reduce the GHG emissions and other environmental impacts, and promote circularity processes along the economy and society.

This way, **LCA4bio** aims to contribute to a greener economy in Europe. The project is funded under the topic HORIZON-CL6-2023-ZEROPOLLUTION-01-4 with a funding amount of **3.464.061,25€**. **LCA4bio** is coordinated by Contactica and will last for 36 months, with a consortium formed by 10 partners from 7 different countries.

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