

ALGAESOL



“SUSTAINABLE AVIATION AND SHIPPING FUELS FROM MICROALGAE AND DIRECT SOLAR BES TECHNOLOGIES”

ALGAESOL project will develop and evaluate solutions for sustainable conversion of sunlight into fuels that can aid to **reduce aviation and shipping biofuel production costs up to 25%** and accelerate the replacement of fossil-based energy technologies.

To improve the efficiency of **converting solar energy, carbon dioxide (CO²) and organic wastes into renewable methanol (CH³OH), methane (CH⁴) and biooils**, ALGAESOL will:

- 🔴 Develop and improve cutting-edge bioelectrochemical system (BES) technology using a zero-waste approach
- 🔴 Increase biooil (microalgal lipids) production through improvements in microalgal pathways or photosynthetic bioconversion (bioelectrochemical technology, improved algal strains, cultivation protocols, harvesting and lipid extraction)
- 🔴 Improve purification yield and quality of biofuels from algal lipids
- 🔴 Employ novel simulation approaches and sustainability assessments to ensure enhanced sustainability (environmental, economic, social) of the developed fuels and market penetration



WWW.ALGAESOL.EU

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ambition is to contribute to a European secure and competitive fuel supply chain, by developing cost-effective, sustainable and renewable fuels for the transport sector.

Get in touch to find out more about ALGAESOL technology and material innovations!

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Project data

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Partners



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