SUSTEPS

Project SUSTEPS overall objective is to identify systemic constraints and opportunities, generate new knowledge and propose best practice solutions for the scaling up of a sustainable algae-based biofuel value chain.

48 Months

10 Countries

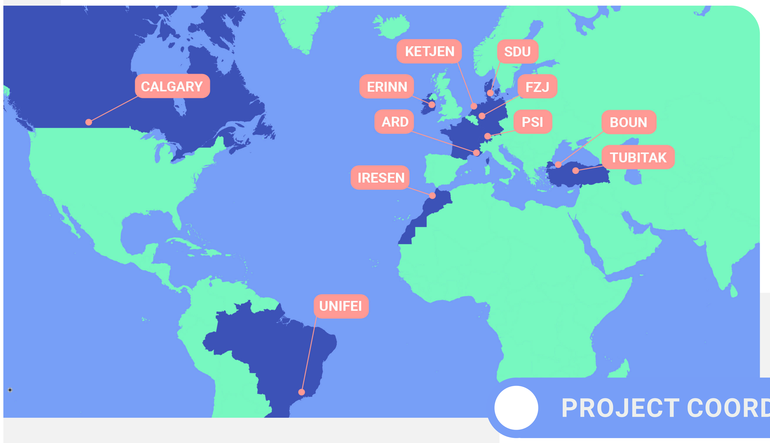
8 Work packages

11 Partners

Estimated Project Cost €3,000,000

PROJECT PARTNERS

TÜBİTAK · JÜLICH Forschungszentrum · Boğaziçi Üniversitesi 1863 · ARDITEC · SDU · Ketjen · ERINN INNOVATION



IRESEN · PAUL SCHERRER INSTITUT PSI · UNIFEI Universidade Federal de Itajubá · University of Calgary

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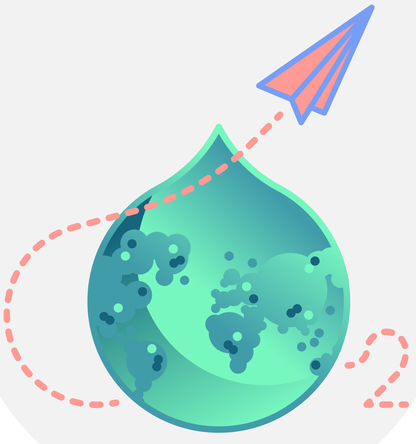

SUSTEPS aims to revolutionize renewable fuel technologies by advancing the algae-based biofuels value chain. The project's goal is to create technologies that meet the market's specifications for replacing fossil fuels in targeted sectors. This will pave the way for a cleaner and more sustainable energy future. By incorporating waste stream valorization and utilizing green hydrogen and biologically captured process flue gas (carbon capture), the integrated bio-thermo-chemical process is designed to be more efficient. The production of biofuels using microalgae as a raw material and CO_2 as a feedstock holds significant potential for positive environmental impact as well, consequently mitigating greenhouse gas levels in the atmosphere.

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PROJECT QR

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