

Thalesa

CRACKING THE CHEMICAL BACKBONE OF POST-FOSSIL FUELS BY DELIVERING SCALABLE, ETHANOL-BASED BIODIESEL AND SAF.

THALESA develops a patented technology to produce scalable, renewable diesel, SAF and Marine fuel components from ethanol. By chemically converting bioethanol into oxygenated fuel components, the project delivers fuel that can be blended into diesel without engine or infrastructure modifications. This approach expands the renewable feedstock base beyond limited vegetable oils and enables the use of widely available, including waste-derived, ethanol. The resulting fuels achieve greenhouse-gas reductions, improved cold-flow performance, and high compatibility with existing fuel standards.

THALESA addresses the rapidly growing demand for renewable fuels in road, marine transport and aviation and helps close the advanced biofuel supply gap driven by RED III and global decarbonization targets. The technology has reached TRL 6, with successful laboratory validation, fuel testing, and techno-economic assessment completed. The next step is pilot-scale demonstration and industrial deployment.

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