



Renewable energies

Biofuels and e-fuels

BIOFUELS AND E-FUELS

OUR STRENGTHS

- **Scientific and technical expertise** stemming from process development, present throughout the biofuel value chain
 - catalysis and biocatalysis,
 - chemical engineering,
 - process engineering,
 - dimensioning and design of pilot units and demonstrators, analysis.
- **Pilot units at the IFP-Lyon site and demonstrators** of the key building blocks in the biofuel production chain for application on an industrial scale
 - A value chain approach integrating
 - technical and economic aspects with cost and profitability analyses
 - foresight with demand evolution scenarios and impacts on resources (biomass, electricity CO₂, etc.)
 - **life cycle analyses (LCA)** with evaluation of the environmental impacts of each low-carbon fuel production process. This approach makes it possible to identify the levers for improving environmental performances and thus to guide R&D towards technologies with a lower impact on the environment.

[Read about IFPEN's solutions in the field of LCA](#)

- **A trusted third-party role:** technical and regulatory expertise, recognized and sought by the public authorities, the sector's industrial players and the press.

[Consult the road map relating to the decarbonization of the aviation sector](#)

[Read about Paris Air Lab 2023](#)

CONTACT



Jean-Philippe Héraud

Program manager

jean-philippe.heraud@ifpen.fr



Fundamental Research



News

July 2023

ONERA and IFPEN reinforce their collaboration

[Press release](#)

Life cycle analysis (LCA)

Biofuels and e-fuels

Hydrogen

High performance computing



Innovation and Industry

News

June 2023

Implantation of the BioTJet plant in Lacq: BioTfuelL® takes flight



Innovation and Industry

News

June 2023

E-fuel for air transport: IFPEN associated with the creation of the French sector

Press release

Biofuels and e-fuels

Biofuels and e-fuels: Our strengths

Link to the web page :