



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 CO<sub>2</sub>, 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](mailto: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

Our strengths

Link to the web page :