



**29<sup>th</sup> IRENA Council and related meetings**

# **Programmatic Discussion on Advancing Investments in Sustainable Aviation Fuels by ETAF Platform**

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**11-12 September 2025 | Abu Dhabi**

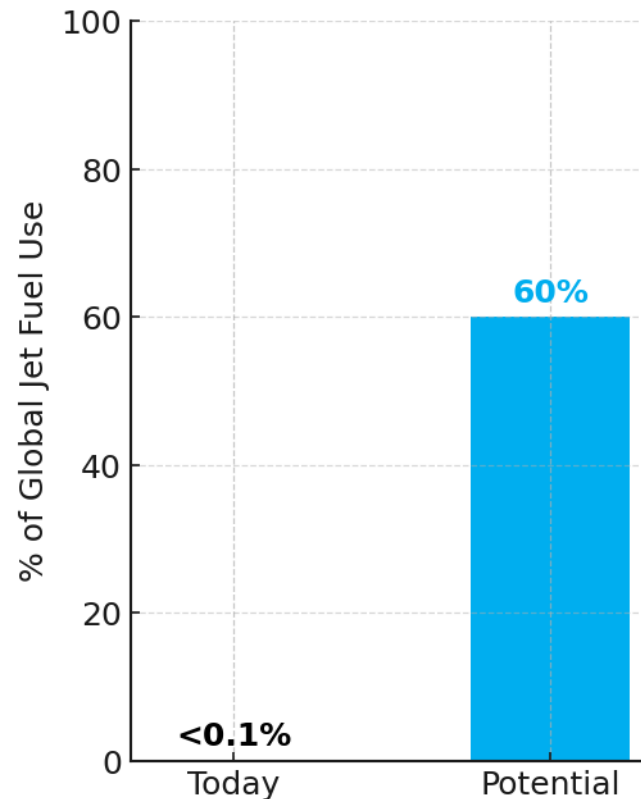
# The Case for Sustainable Aviation Fuel (SAF)

*SAF is a drop-in fuel compatible with existing aircraft and infrastructure, produced from sustainable feedstocks such as waste, residues, renewables, and hydrogen.*

## The Challenge

- Aviation = 2 - 3% global emissions, rising fast
- Long-haul flights hard to electrify
- SAF <0.1% of jet fuel today
- Costs 2 - 4x higher than fossil fuels

SAF share of jet fuel: today vs potential



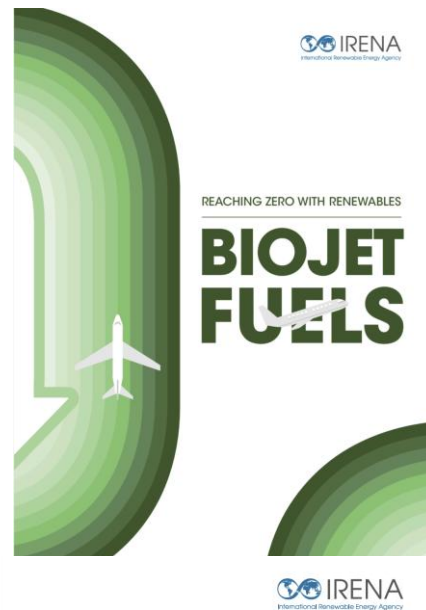
## The Opportunity

- Up to 80% CO<sub>2</sub> reduction
- No aircraft retrofits needed
- Feedstocks available at scale
- Strong policy momentum



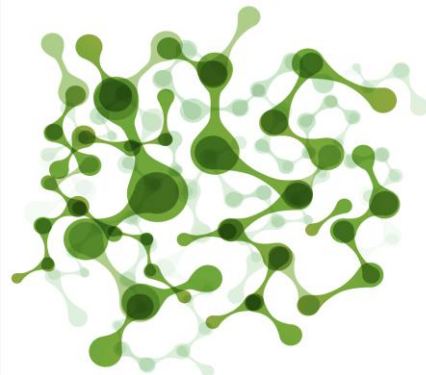
## DECARBONISING HARD-TO-ABATE SECTORS WITH RENEWABLES

PERSPECTIVES FOR THE G7



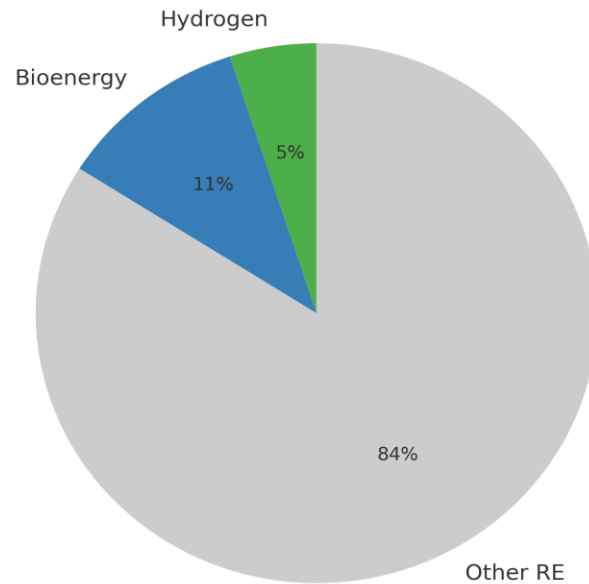
## Bioenergy for the energy transition

Ensuring sustainability and overcoming barriers



IRENA's knowledge work on SAF and bioenergy has laid the groundwork for action

- **Sustainable Aviation Fuels in Southeast Asia:** Assessed regional feedstock potential and policy pathways.
- **Biojet Fuels:** Global perspective on technology options, costs, and barriers.
- **Bioenergy for the Energy Transition:** Principles for sustainable bio-based energy and overcoming barriers.
- **Decarbonising Hard-to-Abate Sectors:** Positioned SAF within broader industrial and aviation decarbonisation.

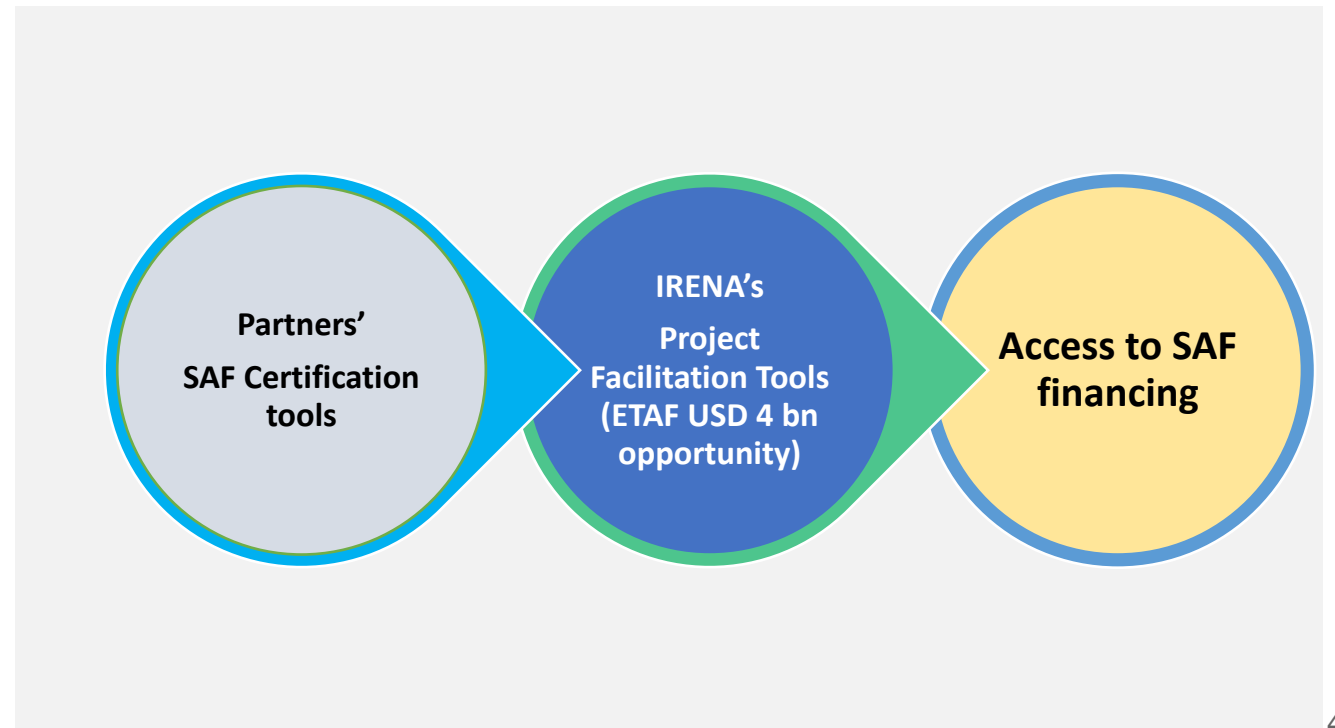


## ETAF is actively working to:

- Create a dedicated segment for SAF investments
- Provide technical and bankability support (readiness, feedstock, certification, offtake)
- Leverage USD 4+ billion from ETAF partners with de-risking solutions

## Why SAF needs urgent action within ETAF

1. Clean-fuel projects are underrepresented in financing pipelines (see chart).
2. No SAF projects have been received to date.
3. The closest have been non-SAF bioenergy (biomass, biogas, waste-to-energy) and a few hydrogen projects.



# ETAF Strong Partner Base: USD 4+ billion Available for SAF Projects





## 1. Blended Financing

- Lower project costs, mitigate financial risks, and enhance SAF project bankability to attract investors.

## 2. Equity Investments

- Provides Early-Stage Capital to Address the high upfront cost of SAF facilities, reducing developer reliance on debt.
- Support scalability and boosts investors confidence

## 3. Guarantees & Insurance Programs

- Mitigate risks associated with revenue, technology, and supply chain.
- Political risk, credit insurance, feedstock supply risk, EPC/O&M risks etc.

## 4. Technical Advisory Services:

- Advisory to improve the quality of project proposals.



### **Finalize operational framework**

Ensure all modalities are in place for smooth implementation.



### **Platform launch**

Official rollout of the dedicated SAF window under ETAF.



### **Open call for SAF projects**

Invite submissions, including potential pilot projects

## For Members:

- Share SAF project pipelines with the Secretariat for ETAF consideration
- Work with IRENA to align projects with national energy and climate priorities

## For Partners & Stakeholders:

- Join efforts to de-risk and finance SAF projects
- Support the creation of bankable supply chains for sustainable fuels



**Together: Ensure aviation becomes part of the climate solution and advance the energy transition through Sustainable Aviation Fuels.**

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谢谢

Thank you

Merci

Спасибо

Gracias