

Sustainable Aviation Fuels at Airports
The Airport Enabling Role







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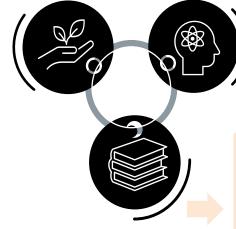
SAF – contributing to policies and EU/National Planning



Refueling and Logistics Coordination Facility

• Established in 2022, the alliance development and adoption of Sustainable Aviation Fuels (SAF) within the aviation sector:

Enhancing Sustainability



Facilitating Regulatory

Frameworks

Fostering Innovation

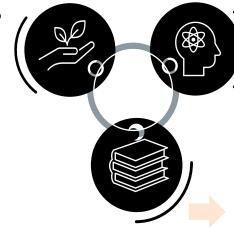
- Stakeholder Engagement
- Pilot Project
- Supply Chain Development
- Monitoring and Evaluation



National Observatory on SAFs

• In 2019, Enac established a "National Observatory on SAFs" with the aim of creating a roundtable participated by institutions:

Decarbonizatio n of Aviation



Development of a National Roadmap

Collaboration with Stakeholders

- 1. Roadmap for SAF: ENAC is developing
- and regulatory frameworks.
- 2. Stakeholder Workshops
- SAF implementation.
- Pilot Projects
- Regulatory Framework Development:
- Research and Innovation Support
- Monitoring and Reporting

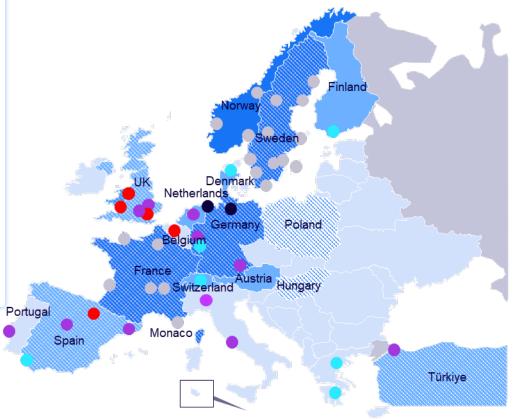


SAF Mandates across EU Countries



- Currently, national blending mandates are operational or in the process of being enacted in Norway, Sweden, France, and Germany. France, Germany, and Sweden have implemented supplementary non-regulatory measures.
- In the absence of a compulsory SAF mandate, as projected post-2025 according to EU Directives Fit for 55/Refuel EU, there is a lack of incentives for SAF production.
 Therefore, airlines encounter higher prices in countries without such mandates, opting for larger airports (hubs) like AMS and LHR, where SAF prices are comparatively lower







SAF blending mandate in place)

Base of Airline using SAF

Apt offering SAF occasionally

Other (e.g., manufacturer, military)

Apt regularly offering SAF

States where EU obligations will apply

Additional non-regulatory national measures

National blending mandate (promulgated/in force)

National blending mandate under assessment



What's up to Airports ? SAF...

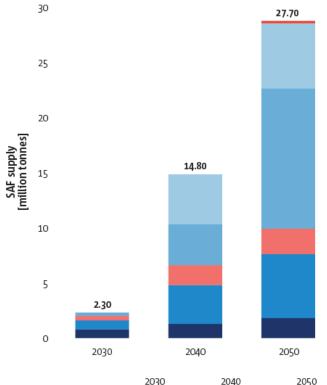


SAF supporting programs: 2024

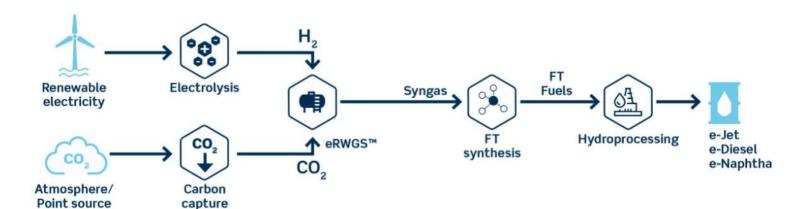
	LHR	AENA*	AMS*	DUS	SWE	BRU	SEA
SAF Incentive (€/t)	535	500	400	250	n/a	1,000	800
e-SAF Incentive (€/t)	No	1,000	1,000	No	No	1,000	n/a
SAF Incentive type	50% SAF premium price gap	Fixed	Fixed	Fixed	50% SAF premiu m price gap	Up to 80% SAF premium price gap	Fixed
Subsidy CAP	Not specifie d	n/a	Not specifie d	€100k/y r./ airline	Based on share of traffic	€200k/y ear/airlin e	n/a



ReFuelEU modelled SAF supply per production pathway in the EU27



	2030	2040	2050
Electricity	0.00	0.00	0.20
Gasification+FT	0.00	4.50	5.90
• PtL	0.30	3.70	12.70
Imports	0.40	1.80	2.30
ATJ	0.80	3.50	5.80
HEFA	0.80	1.30	1.80



Mandate ReFuel EU Aviation

2025 → 2% SAF

2030 → 6% SAF (0.7 % e-SAF)

2032 → 6% SAF (1.2 % e-SAF)

2035 → 20% SAF (5% e-SAF)

2040 → 34% SAF (10% e-SAF)

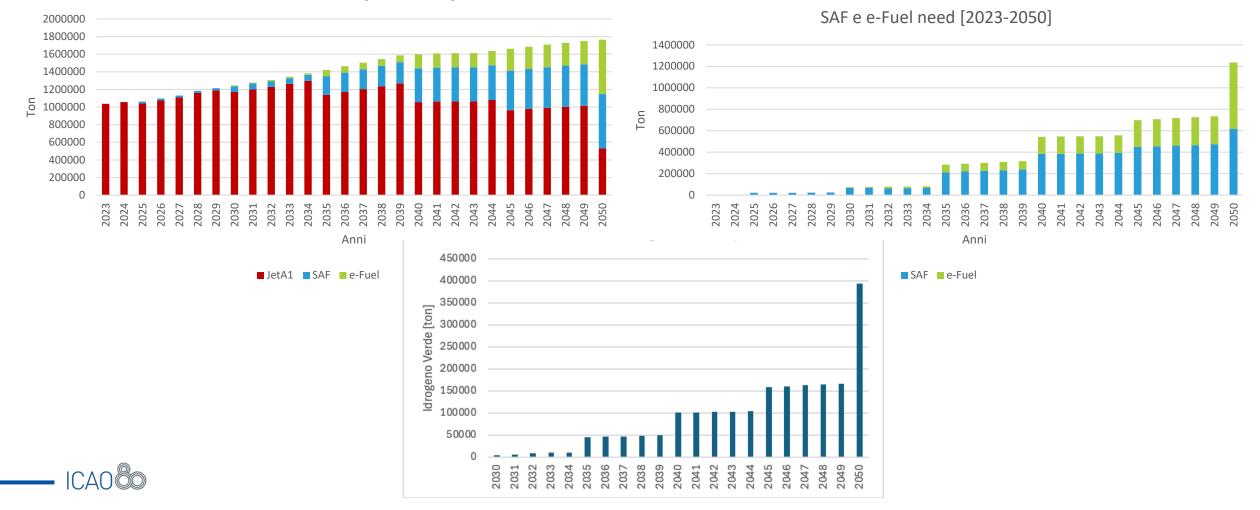
2045 → 42% SAF (15% e-SAF)

2050 -> 70% SAF (35% e-SAF)

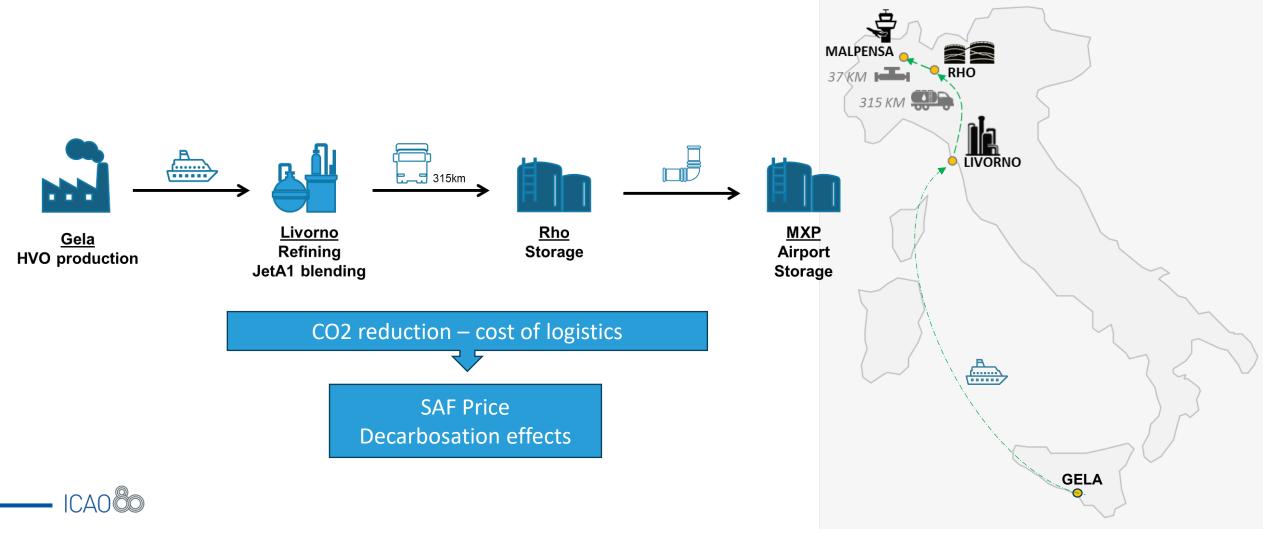


JET A1, SAF, eSAF long term, «as is» flight mix and technology

Jeta1, SAF e e-Fuel need [2023-2050]



SAF – The relevance of the supply chain for CO2 reduction and cost



SAF – Should Airports actively support SAF use? How



Support strategy

 The mandate is applied to Fuel Suppliers and Airlines. Airports are requested to facilitate



Support target

 Airport may decide to put money ONLY ON TOP of mandates, if useful to decarbonize Scope 3 emissions, ONLY for SAF supplied at the airport (no covered with any "book and claim" scheme)



SAF availability and adoption

- Foster cooperation with:
 - > ACI, EU, EASA to manage SAF data flows and reporting
 - > Fuel suppliers to wide and ensure SAF supplies



Thank You

ICAO Headquarters Montréal European and North Atlantic (EUR/NAT) Office Paris

> Middle East (MID) Office Cairo

Western and Central African (WACAF) Office Dakar

> Asia and Pacific (APAC) Office Bangkok

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