



ICAO EUR/NAT and ACI EUROPE

REGIONAL GREEN AIRPORTS SEMINAR

**Hosted by the Ministry of Transport
Republic of Kazakhstan**



ICAO

ICAO ACT-SAF Programme



ICAO Secretariat

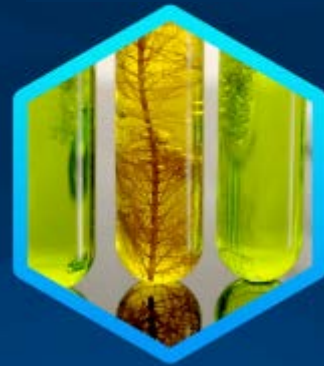


ICAO Global Framework on SAF, LCAF and other Aviation Cleaner Energies

Policy and Planning



Regulatory Framework



Implementation Support



Financing



- Supports global scale up of aviation cleaner energies – Collective Vision to reduce 5% CO₂ by 2030
- Provides clarity, consistency and predictability to all stakeholders on 1) policy and planning, 2) regulatory framework, 3) implementation support, and 4) financing – 4 Building Blocks
- Monitors the implementation progress on emissions reductions and means of implementation
- Aspiring to have cleaner energy production facilities in all regions by CAAF/4 (no later than 2028)
- To update the Vision at CAAF/4 on the basis of market developments

1. Policy and Planning

- Global aspirational **Vision** to reduce international aviation CO₂ emissions by **5% by 2030**
- Each State's **special circumstances and respective capabilities**
- **CAAF/4** no later than 2028, with a view to update Vision
- **Collaborative effort** across different stakeholders, and encourage **State policies, action plans and roadmaps**
- Implementation **monitored** and periodically **reviewed**

2. Regulatory Framework

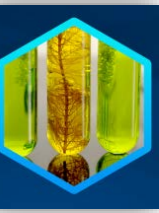
- **CORSIA eligibility framework as accepted basis** for SAF, LCAF and other aviation cleaner energies
- Increase the **number of SCS**, additional fuel production **pathways / life-cycle values**
- Parameters for **fuel accounting methodologies**, leveraging on CORSIA MRV system
- **Study of fuel accounting systems** to determine any possible ICAO role

3. Implementation Support

- **Robust, targeted and tailored** capacity -building and implementation support
- **Building on ACT-CORSIA and ACT-SAF programmes**
- Facilitate **partnerships**, and exchange of best practices
- Develop **policy toolkit/guidance** and support **State Action Plans**
- Support **feasibility studies, pilot projects**, which may facilitate access to investment
- Support **access to technology**

4. Financing

- **Advocacy and outreach** for greater investment in aviation cleaner energy projects, including UN and international financial community
- Welcome and request for **operationalization of ICAO Finvest Hub** to facilitate better access to public fund / private investment, to respond to Resolution A41-21, para 18. a)
- Expedite work to **consider the establishment of a climate finance initiative or funding mechanism under ICAO**, to respond to A41-21, para 18. b)



What are CORSIA Eligible Fuels?

CORSIA eligible fuel (CEF) is CORSIA sustainable aviation fuel (SAF) or CORSIA lower carbon aviation fuel (LCAF), which an operator may use to reduce its offsetting requirements

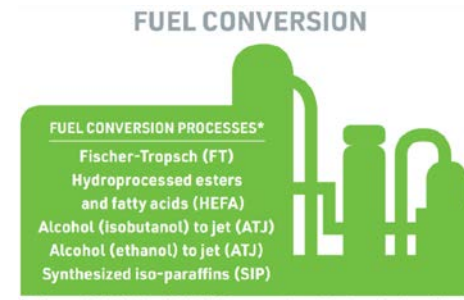
- SAF is defined as a **renewable or waste-derived aviation fuel** that meets the CORSIA Sustainability Criteria
- LCAF is defined as a **fossil-based aviation fuel** that meets the CORSIA Sustainability Criteria

CEF needs to be certified based on the CORSIA Sustainability Criteria, including its life-cycle emissions values, by an approved Sustainability Certification Scheme (SCS)

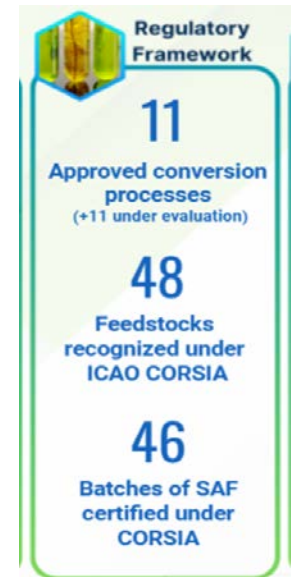
How can CORSIA Eligible Fuels be produced today?

More feedstocks and conversion processes will become available as the industry evolves.

Up-to-date information is available on the ICAO website

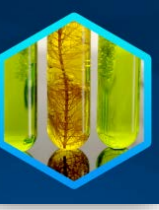


*Reference: ASTM 7566 and ASTM 1655 - ensures the technical specifications of the fuel



https://www.icao.int/environmental-protection/Pages/SAF_Feedstocks.aspx

<https://www.icao.int/environmental-protection/GFAAF/Pages/Conversion-processes.aspx>



The CORSIA Sustainability Criteria covers all major themes

First global approach to sustainability for an industry sector, applies to both SAF and LCAF



November 2022

CORSIA
Carbon Offsetting and Reduction Scheme for International Aviation



For more details, please refer to [ICAO document - CORSIA Sustainability Criteria for CORSIA Eligible Fuels](#)

Sustainability themes	
1.	Greenhouse Gases (GHG)
2.	Carbon Stock
3.	GHG emissions reduction
	permanence
4.	Water
5.	Soil
6.	Air
7.	Conservation
8.	Waste and chemicals
9.	Seismic and vibrational impacts (only for LCAF)
10.	Human and labour Rights
11.	Land Use Rights and Land Use
12.	Water use rights
13.	Local and social development
14.	Food security

Carbon-reduction themes

Environmental themes

Socio-economic themes

Carbon reduction themes applicable for batches of CEF produced by certified fuel producer **before 1 January 2024**

All themes applicable for batches of CEF produced by certified fuel producer **on or after 1 January 2024**

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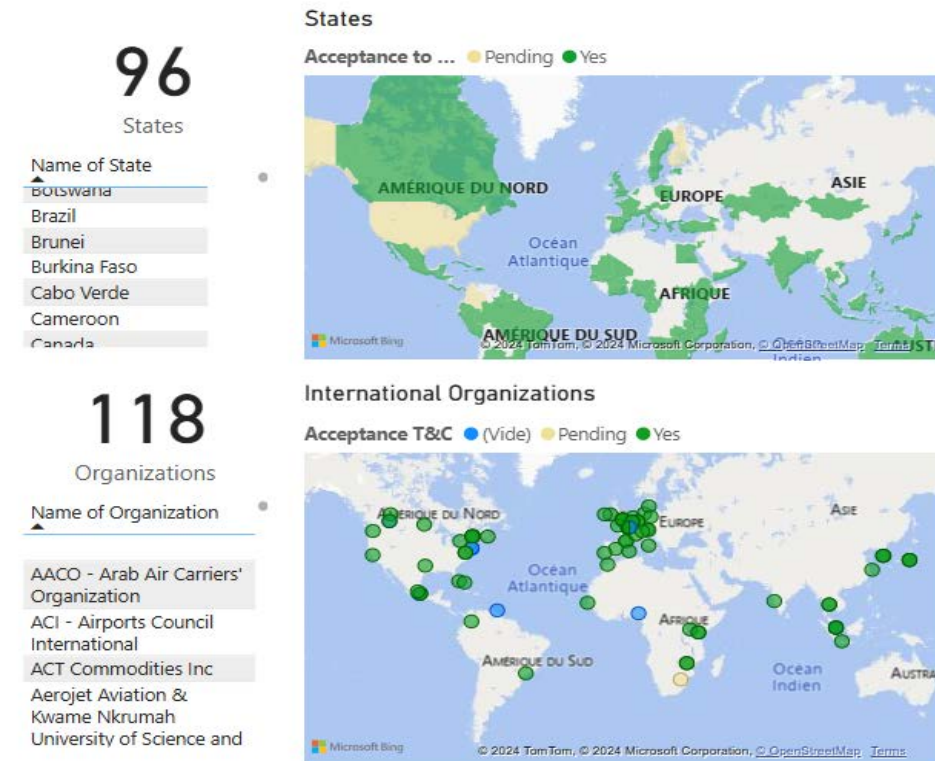


ACT SAF

ICAO Assistance, Capacity-building and Training for Sustainable Aviation Fuels (ICAO ACT-SAF)



Here you will find more information on ACT-SAF Participants* and Initiatives.



Purpose of ACT-SAF?

- provide tailored support for States in various stages of SAF development and deployment, facilitate partnerships and cooperation on SAF initiatives under ICAO coordination
- serve as a platform to facilitate knowledge sharing and recognition of all SAF initiatives around the globe.

How to become an ACT-SAF Partner?

<https://www.icao.int/environmental-protection/Pages/act-saf.aspx>



Background to ICAO ACT-SAF Programme

ICAO Assistance, Capacity-building and Training (ACT-SAF) programme was launched in June 2022, prior to the LTAG agreement by 41st Assembly:



ACT-SAF objectives:

- Create opportunities for States to develop full potential in SAF development / deployment
- Tailored support for States in various stages of SAF development / deployment
- Facilitate partnerships and cooperation
- Foster knowledge sharing and recognition of SAF initiatives around the world



SAF TRACKING TOOL FOR MONITORING PROGRESS



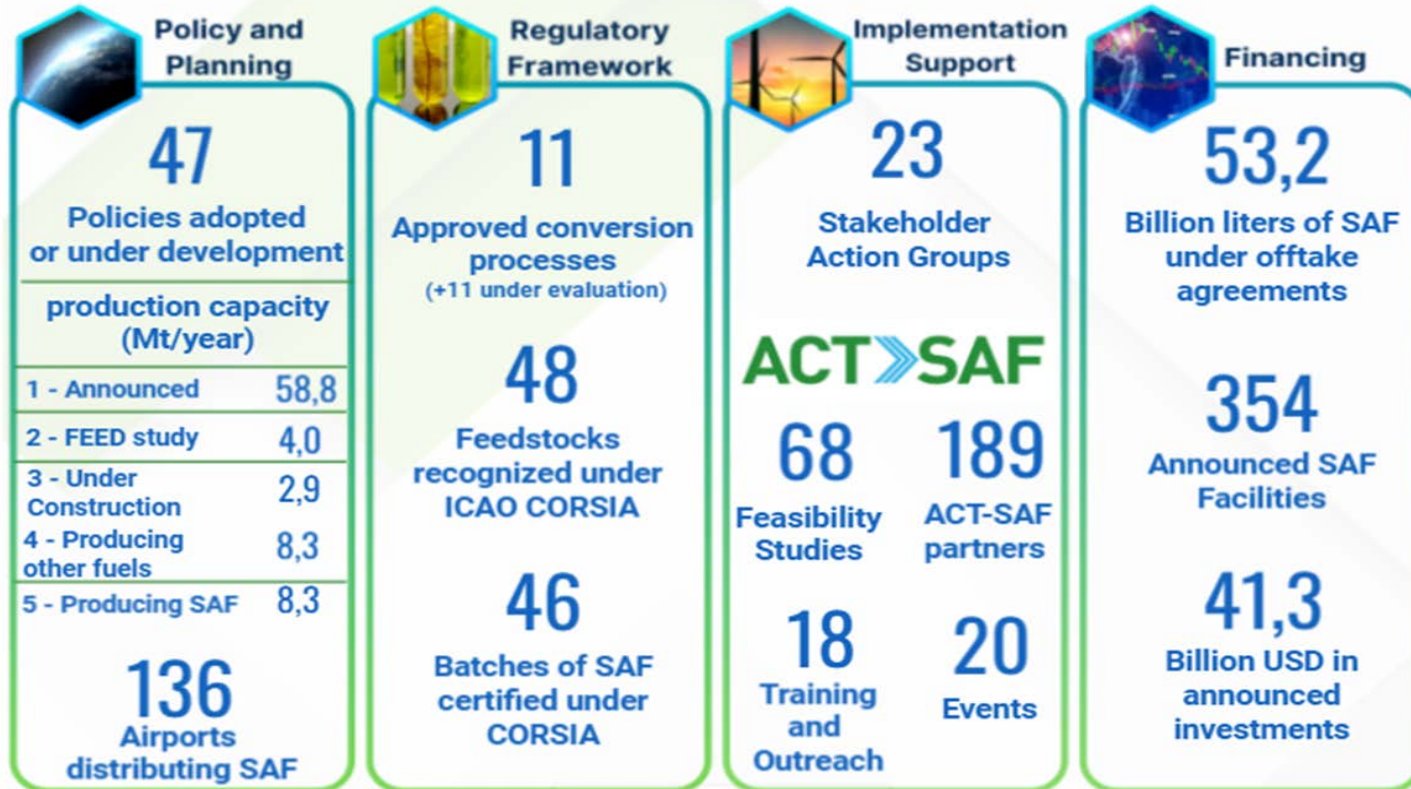
ICAO Cleaner Energy Tracker tools [\(click for details\)](#)

ICAO adopted a Vision to reduce CO₂ emissions in international aviation by **5 per cent by 2030** through the use of SAF, LCAF and other aviation cleaner energies.

This requires **23 million tonnes (Mt)** of cleaner energies use in international aviation on 2030 *(according to the LTAG report data).*

This aviation cleaner energy trackers monitors progress under the ICAO Global Framework on its four building blocks

[\(Click on each number to open the full Tracker\)](#)



ICAO SAF tracking tools to monitor progress and facilitate information exchange



Latest news [\(click for details\)](#)

Search Filter by State

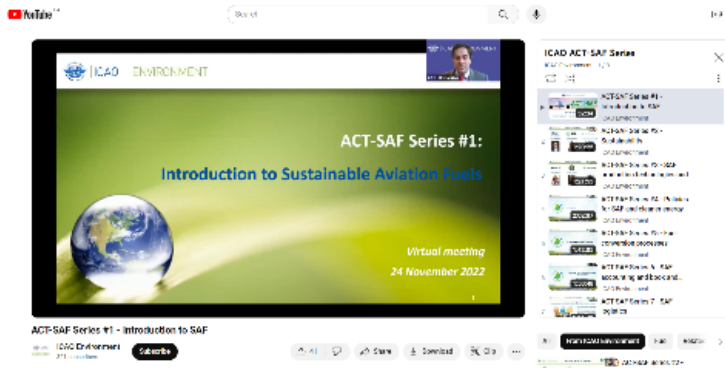
Date	Link
23 sept. 2024	AM Green Acquires Chempolis Next-Gen 2G Bio-Fuel Technology, To Invest \$1BN to Produce Sustainable Aviation Fuel (SAF)
23 sept. 2024	Air France-KLM and TotalEnergies Expand Sustainable Aviation Fuel Partnership with 1.5 Million-Ton Deal
23 sept. 2024	Aether Fuels Signs MOU with JetBlue
20 sept. 2024	China's C919 jet completes first commercial flight using sustainable aviation fuel
20 sept. 2024	Formula 1 makes first investment in Sustainable Aviation Fuel as part of long-term ultra-efficient logistics strategy
20 sept. 2024	Fiji Airways and partners to explore SAF production in the Pacific

ACT-SAF Training Series

ACT-SAF series offer comprehensive training to partners on an array of important SAF-related topics



- Online training, supported by experts from partner States and Organizations
- Partners benefit from immediate interactions with speakers, Q&A
- 14 sessions have been completed – more than 100 participants per session
- Training materials available in ICAO TV, YouTube and ICAO ACT-SAF website



ICAO TV All Videos Platform Sponsors Events Skytalks Interviews Search

ACT-SAF Series

10 Episodes

ICAO's ACT-SAF Series aim to deliver comprehensive training to ACT-SAF Partners on an array of important Sustainable Aviation Fuel's related topics, including SAF sustainability, policy, economics, financing, certification, and logistics. It empowers the ACT-SAF Partners with training

[Show more](#)

My list
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ACT-SAF Series

Coordination with ACT-SAF partners identified that many States need conceptual training on SAF.

To address that, ICAO is developing the ACT-SAF Series of training sessions, to be held on a monthly basis. This will allow delivering comprehensive training to ACT-SAF Partners on an array of important SAF-related topics, ranging from sustainability, to policy, economics/financing certification and logistics.

The ACT-SAF Series will empower the ACT-SAF Partners with training material designed with the support of Supporting States and Organisations from the air transport, fuels and finance sectors, as well as academics and actors with niche expertise such as SAF reporting under CORSIA.

Want to participate on the ACT-SAF Series? Join ACT-SAF now (click here to access the ACT-SAF Terms and Conditions). Participation is open to all States and Organizations interested in further action on SAF.

ACT-SAF Series	Date	Topics	Contributor(s)	Abstract	Video and Presentation
#1	25 November 2022	An introduction to SAF	ICAO	<ul style="list-style-type: none"> Introduction to ACT-SAF Basics of SAF 	 Download Presentation
#2	25 January 2023	SAF sustainability and reporting under CORSIA	ISCC RSB Verifavia	<ul style="list-style-type: none"> process for sustainability certification of SAF Reporting and verification of SAF Claims under CORSIA 	 Download Presentation

<https://www.icao.int/environmental-protection/Pages/ACT-SAF-Series.aspx>

Thank You

