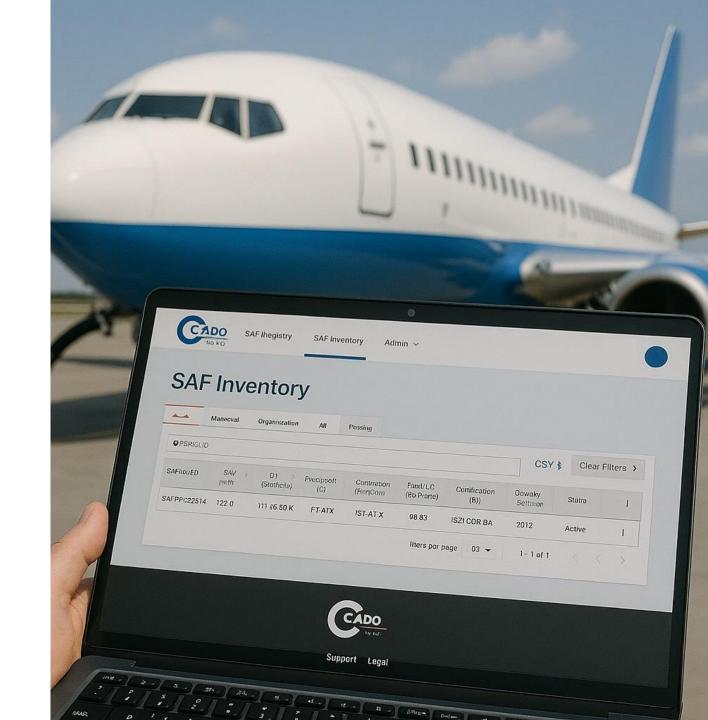


CADO SAF Registry Introduction

Kristyna Matoulkova SAF Registry Manager, IATA

Website (including login): <u>SAF Registry | CADO</u>

Contact: safregistry@cado.org



Facts about Sustainable Aviation Fuel (SAF)

- SAF = low carbon alternative to conventional jet fuel produced from wastederived or renewable feedstock
- Most significant decarbonization lever
- Challenge:
 - Insufficient supply not available in all geographical locations
 - High cost
- Solution:
 - Decouple physical SAF from its environmental attributes so that AO's and Corporates can claim the use of SAF without physically flying it (Book & Claim approach)
- The industry needs a trusted SAF Accounting system that will transparently track and account for these SAF environmental attributes -> <u>CADO SAF</u> <u>Registry</u>

65%

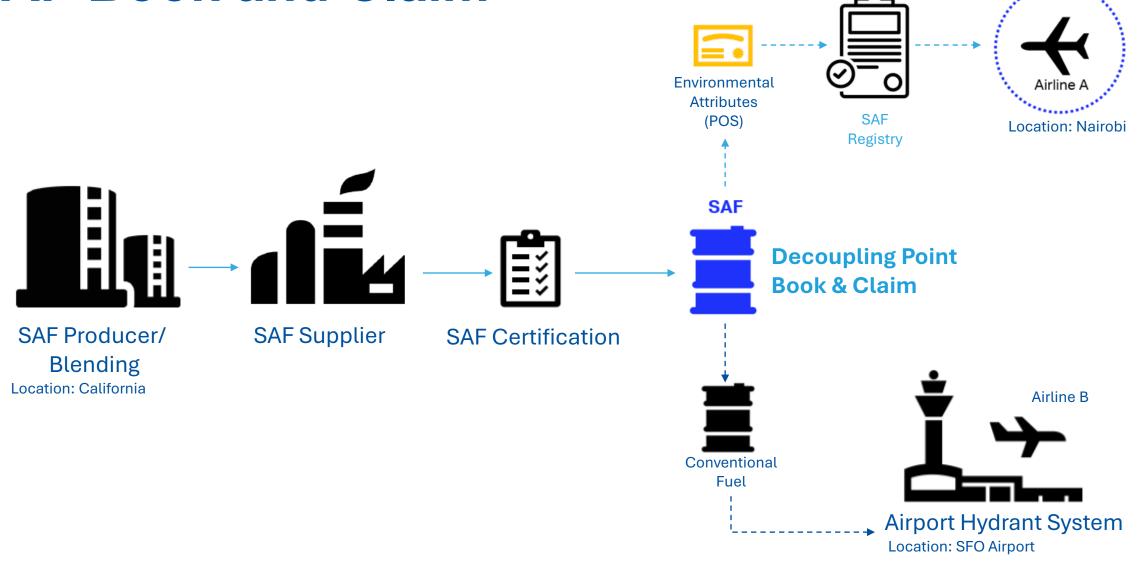
of aviation emissions expected to be abated using SAF by 2050

Source: IATA Net Zero Roadmaps



Environmental attributes

SAF Book and Claim



What is the CADO SAF Registry?

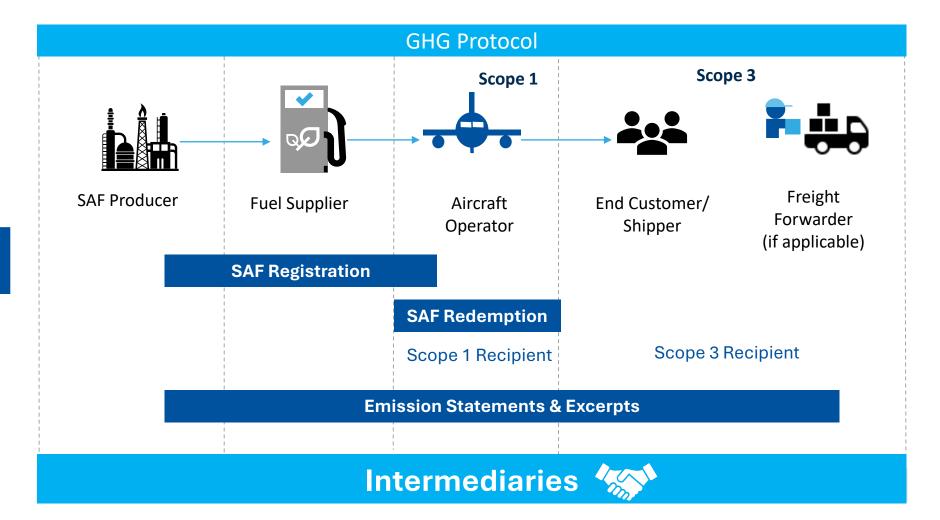
- Enables 'Book and Claim' approach. Ensures immutable tracking, recording, transfer, and accounting of SAF
- Managed by Civil Aviation Decarbonization Organization (<u>CADO</u>) to ensure impartiality

Design principles:

- Underpinned by <u>IATA Sustainable Aviation Fuel (SAF) Accounting & Reporting Methodology</u>, which complements **ICAO SARPs**
- Follows the natural SAF value chain in accordance with the GHG Protocol philosophy involves all stakeholders
- Ability to support existing regulations (starting with CORSIA) & enable authorities to verify compliance
- Flexibility in SAF transactions facilitates cost-sharing across the value chain
- Minimize costs and administrative burden throughout the SAF value chain
- Interoperability and coordinated data transfer with other registries to prevent double-counting



Example of SAF transactions in the Registry



REGISTRY PROCESS:



User group benefits:

Producers & Suppliers

- Improved market connectivity
- Simplification of the SAF registration process (parsing, register similar feature)
- Registration & transfer of environmental attributes (incl. option of predetermined Scope 3 allocation)
- Maintaining Scope 1 and Scope 3 attribution in accordance with the GHGP

Corporate Customers

- SAF investments possible where SAF is physically not available
- Scope 3 allocation of emissions reductions from SAF
- Facilitates substantiation and recognition of mitigation action
- Flexible inventory screen to manage env. attributes
- Download of Emission Statements and Emissions Excerpts

Aircraft Operators

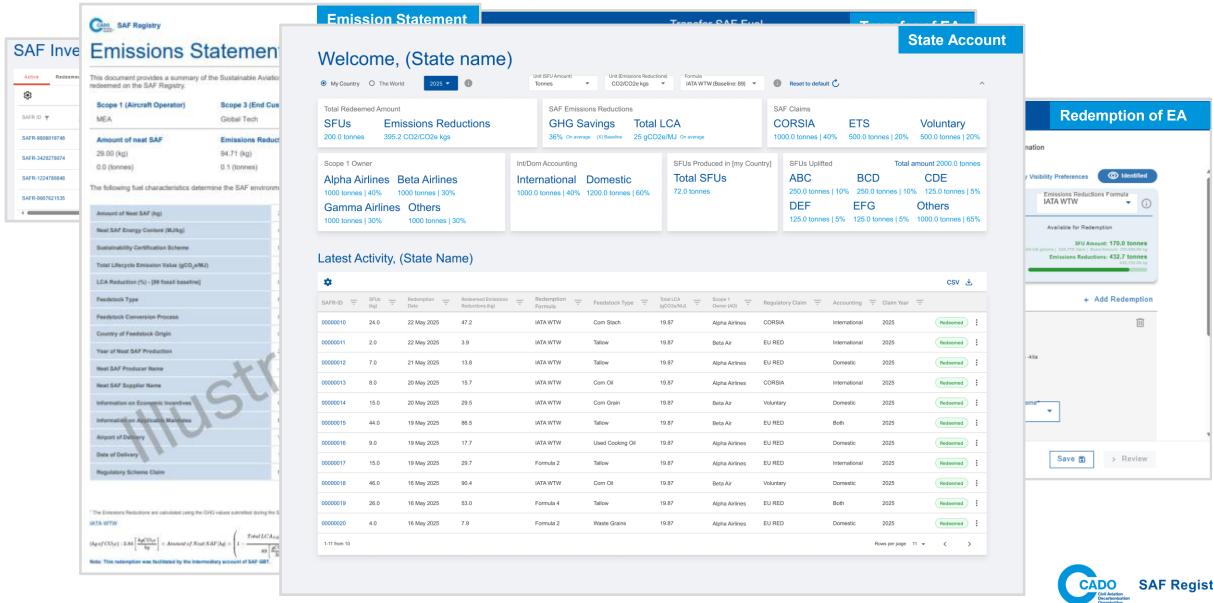
- SAF investments possible where SAF is physically not available
- Facilitation of SAF co-investment by corp. customers
- No orphaned Scope 1
- Allocation of Scope 3 to specific companies or per pax/shipment
- Future enhancements:
 - Third-party verification of SAF claims (Q4 2025)
 - Claiming of environmental attributes under voluntary and mandatory schemes (Q1 2026)

States

- Access to inventory with detailed overview of SAF redemptions by AOs in the state's jurisdiction
 - Monitor SAF usage and uplift
 - Track progress to national SAF targets
 - Verify compliance



A quick look at the system:



Useful links:

- SAF Registry website: <u>SAF Registry Home | SAF Registry</u>
- Access to the Registry: <u>SAFR SAF Registry Portal</u>
- SAF Registry User Manual: <u>saf-registry-user-manual.pdf</u>
- SAF Registry System Rules: <u>saf-registry-system-rules.pdf</u>
- IATA SAF Accounting and Reporting Methodology: <u>saf-accounting-reporting-methodology</u>
- Contact: <u>safregistry@cado.org</u>
- Book a session with SAF Registry Team: <u>Sustainability Programs</u>





Appendix



Outlook

Next releases:

Q4 2025 (planned for December 2025)

- New User Accounts:
 - Carbon Auditor can be invited by any system user to review and verify transactions
 - State can access an inventory & a dashboard including an overview of redemptions performed by Aircraft Operators headquartered in the State's jurisdiction
- Interoperability framework expanded
- Group Level User Management

Early 2026

- Claiming module
- Enhanced State account
- Regulatory claims toward selected schemes
- Enhanced allocation of Scope 3 emissions reductions to airline customers



SAF Registry Stakeholder Workshops

(Save the Date)

In-person workshops dedicated to key actors across the Sustainable Aviation Fuel (SAF) value chain to learn, connect, and shape the future of the SAF Registry.

Who is the in-person workshop for?

Producers, suppliers, airlines, freight forwarders, end customers, intermediaries, and others.

Why attend the workshop?

- Exclusive hands-on access to the SAF Registry in a testing environment
- Direct engagement SAF value chain stakeholders
- Understand SAF accounting in real-system setting

Where & when?

Host City	Dates	Event/Location
Hong Kong	23-24 October 2025	World Sust. Symposium (WSS)
Mexico City	20-21 November 2025	Aviation Energy Forum (AEF)
London	27 November 2025	Aviation Carbon

Interested in joining the in-person workshops?

Express your interest in upcoming sessions by clicking on the <u>link here</u> or scanning the QR code.





SAF Registry formulas

IATA WTW (kg of CO₂e)

$$3.84 \left[\frac{kgCO_2e}{kg} \right] \times Amount of Neat SAF \left[kg \right] \times \left(1 - \frac{Total \ LCA_{SAF} \left[\frac{gCO_2e}{MJ} \right]}{89 \left[\frac{gCO_2e}{MJ} \right]} \right)$$

Formula 2 (kg of CO₂e)

$$\frac{\textit{Neat SAF Energy Content }[\textit{MJ}] \times 90 \left[\frac{\textit{gCO}_2\textit{e}}{\textit{MJ}}\right] \times \textit{LCA}_{\textit{SAF}} \, \textit{Reductions} \, [\%]}{1000} \, , \textit{where LCA}_{\textit{SAF}} \, \textit{Reductions} \, [\%] = 1 \, - \, \frac{\textit{Total LCA}_{\textit{SAF}} \left[\frac{\textit{gCO}_2\textit{e}}{\textit{MJ}}\right]}{90 \left[\frac{\textit{gCO}_2\textit{e}}{\textit{MJ}}\right]}$$

Formula 3 (kg of CO₂e)

Formula 3 (kg of CO₂e)
$$\frac{\text{Neat SAF Energy Content }[MJ] \times 89 \left[\frac{gCO_2e}{MJ}\right] \times LCA_{SAF} \text{ Reductions }[\%]}{1000} \text{ , where } LCA_{SAF} \text{ Reductions }[\%] = 1 - \frac{\text{Total } LCA_{SAF} \left[\frac{gCO_2e}{MJ}\right]}{89 \left[\frac{gCO_2e}{MJ}\right]}$$

Formula 4 (kg of CO₂e)

Formula 4 (kg of CO₂e)

Neat SAF Energy Content [MJ] × 94
$$\left[\frac{gCO_2e}{MJ}\right]$$
 × LCA_{SAF} Reductions [%]

1000

Neat SAF Energy Content [MJ] × 94 $\left[\frac{gCO_2e}{MJ}\right]$ × LCA_{SAF} Reductions [%] = 1 - $\frac{Total\ LCA_{SAF}\left[\frac{gCO_2e}{MJ}\right]}{94\left[\frac{gCO_2e}{MJ}\right]}$

IATA TTW (kg of CO₂)
$$3.16 \left[\frac{kgCO_2}{kg} \right] \times Amount \ of \ Neat \ SAF \ [kg] \times \left(1 - \frac{Total \ LCA_{SAF} \left[\frac{gCO_2e}{MJ} \right]}{89 \left[\frac{gCO_2e}{MJ} \right]} \right)$$



System accounts & user roles (as of Oct 2025)

	Register SAF	Hold SFUs	Transfer SFUs	Redeem SFUs	Access emission statements/ excerpts	Obtain Scope 1/3
Fuel Producer	X	X	X		Х	
Fuel Supplier	Х	X	X		X	
Aircraft Operator	Х	X	Х	X	Х	Scope 1
Intermediary		(Reserve)		(Redeem on Command)	X	
Freight Forwarder		(Reserve)		(Redeem on command)	X	Scope 3
End Customer					X	Scope 3

