INTERNATIONAL CIVIL AVIATION ORGANIZATION



Session 1 –
CORSIA Implementation Overview

ICAO Regional Officers: Environment
M. Olivier Petit



ICAO Strategic Plan (2026-2050)

Every Flight is Safe and Secure

Aviation is Environmentally Sustainable

Aviation Delivers Seamless, Accessible, and Reliable Mobility for All



Strategic plan - Eng

Strategic plan - FR

No Country Left Behind

The International Aviation Convention and other Treaties, Laws and Regulations address all Challenges

The Economic Development of Air Transport Assures the Delivery of Economic Prosperity and Societal Well-Being for All

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ICAO Major Milestones in Environmental Protection

2010

Carbon neutral growth from 2020

2016

CORSIA

Adopted

2% annual fuel efficiency improvement

2018

First global CO_2 emissions standard for aircraft

2022

ICAO LTAG NET-ZERO 2050

Adopted

2023

ICAO Vision
To reduce CO_2 emissions by 5% by 2030 using aviation cleaner energies

CAAF/3 DUBAI

2024

ICAO Implementation Roadmap

2025



Commitments reinforced at the 42nd ICAO Assembly

ICAO Major Milestones in Environmental Protection

42nd ICAO Assembly

2025

CAAF/4 and 43rd ICAO Assembly

2028

CORSIA Special Review

2032

2035

End of CORSIA Second Phase

2050

ICAO LTAG NET-ZERO 2050

2030

ICAO Vision

To reduce CO_2 emissions by **5%** **by 2030 using aviation cleaner energies**

10th Anniversary (2026)

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1 Introduction

2 CORSIA Implementation Framework

3 CORSIA Implementation

4 ICAO ACT-CORSIA Programme

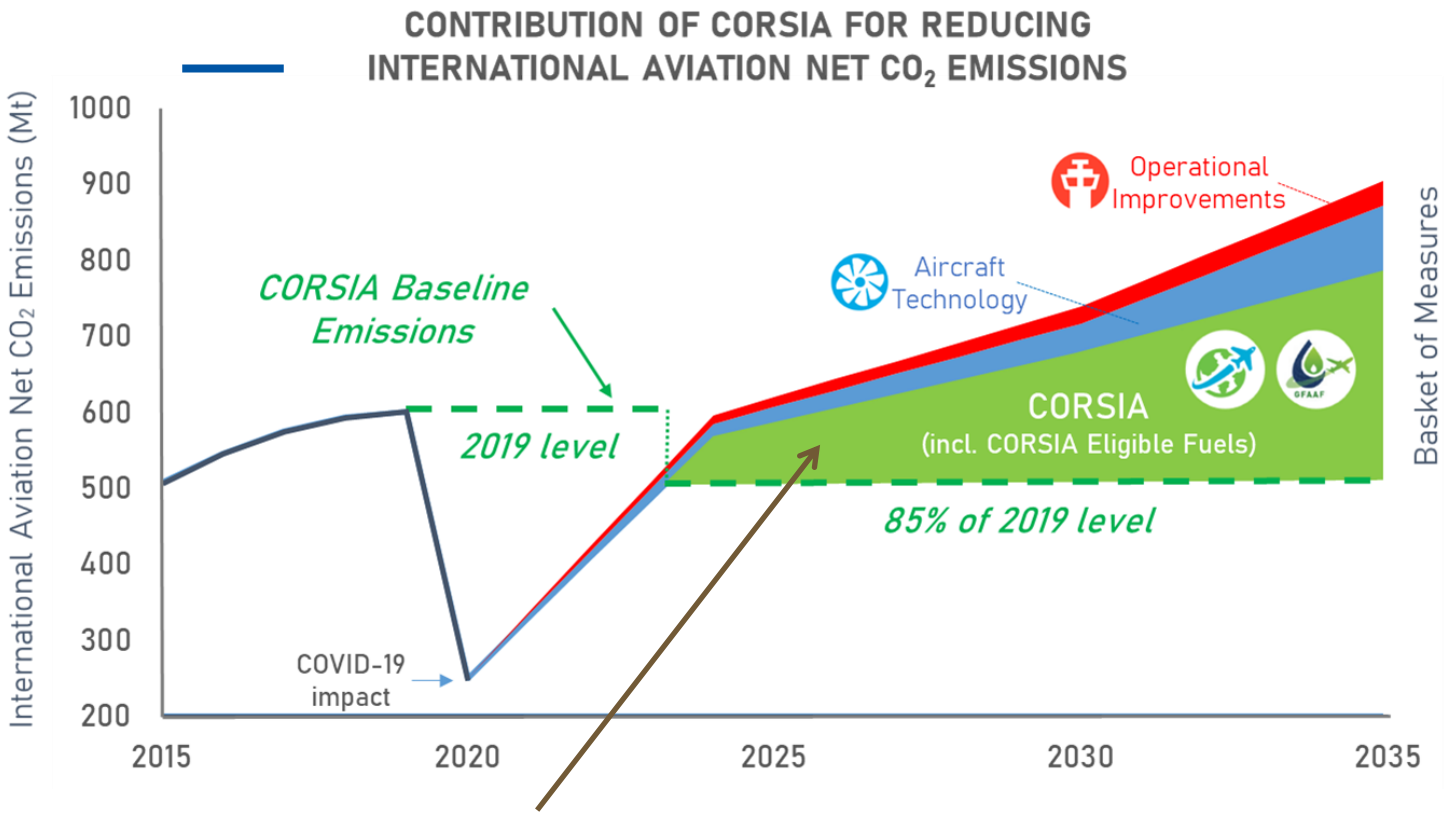
5 2025 CORSIA Periodic Review

The **first global market-based measure** for any industry sector

CORSIA **complements the other three elements in the ICAO basket of measures**:

- **technological innovations**
- **operational improvements**
- **sustainable aviation fuels**

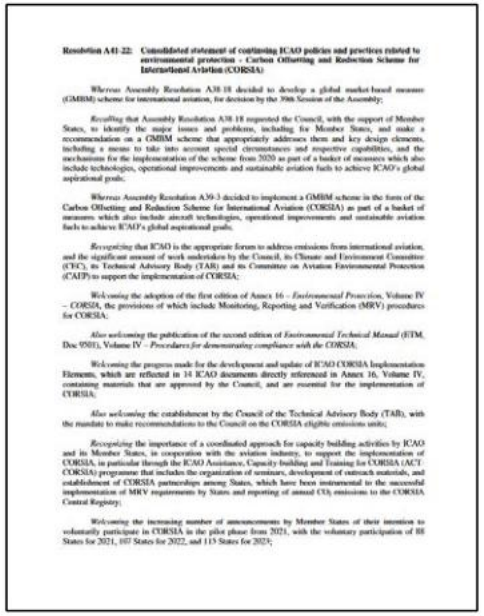
Objective: Achieve ICAO's global aspirational goal of carbon neutral growth from 2020 (CNG 2020)



CORSIA addresses the remaining "emissions gap" to achieve CNG2020

CORSIA Implementation Framework

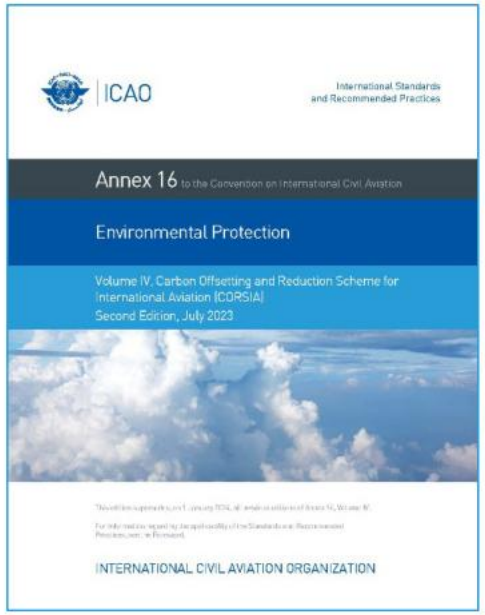
Assembly Resolution A42-22



Overall ICAO policy on CORSIA

Annex 16, Volume IV (2nd edition)

(current version until 31 Dec. 2026; Amendment 2 applicable from 1 Jan. 2027)



Standards and Recommended Practices

CORSIA Implementation Elements and ICAO CORSIA documents



Essential information for CORSIA implementation (regularly updated)

Doc 9501 (ETM), Vol. IV (CORSIA) (4th edition)



Guidance for the implementation of the SARPs

CORSIA Phased Implementation



Second Phase participation criteria:

- **Cumulative 90% of global 2018 RTK**
- **Individual 0.5% of 2018 RTK**
- **Voluntary participation**

Exemptions: LDCs, LLDCs, SIDS

134 **States participating in CORSIA in 2027**

CORSIA Structure

CORSIA offsetting requirements (until 2035) can be met by CEF or CEEUs

CORSIA Monitoring, Reporting and Verification (MRV) of CO_2 Emissions

Use of **CORSIA Eligible Fuels (CEF)**

Use of **CORSIA Eligible Emissions Units (CEEUs)**

ACT CORSIA – Assistance, Capacity-building and Training

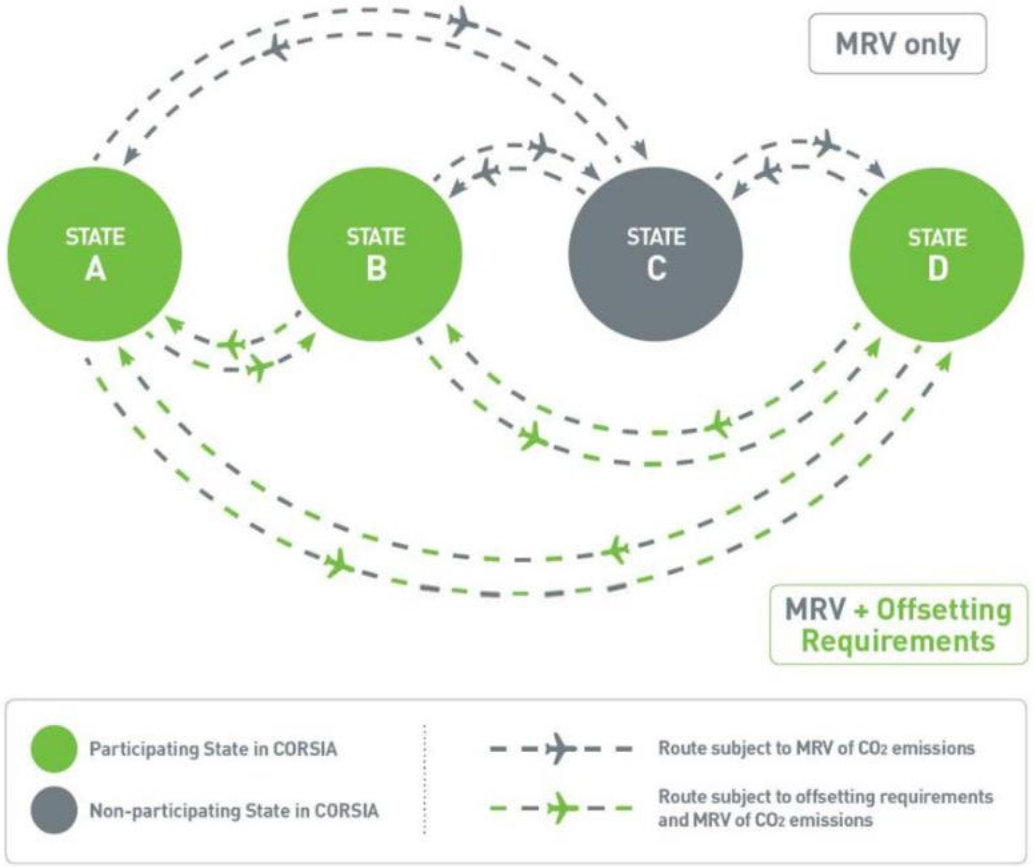
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CORSIA CO_2 MRV

From 1 January 2019, all States with operators performing international flights have to establish a monitoring, reporting and verification (MRV) system for CO_2 emissions.

From 1 January 2019, aeroplane operators with annual CO_2 emissions **greater than 10,000 tonnes** from international flights have to monitor, verify and report their CO_2 emissions to the State.

Operators performing international flights between States participating in CORSIA have to comply with the CORSIA offsetting requirements.



CORSIA CO_2 MRV

Aeroplane operator

Monitoring in accordance with EMP

Monitoring of CO_2 emissions throughout the year

CO_2

Operator submits Emissions Monitoring Plan (EMP)

State approves EMP

State

Annual ER

Annual VR

Develop ER

Operator and verification body both submit Emissions Report (ER) and Verification Report (VR) to the State

State Report to ICAO

ICAO

Verification body

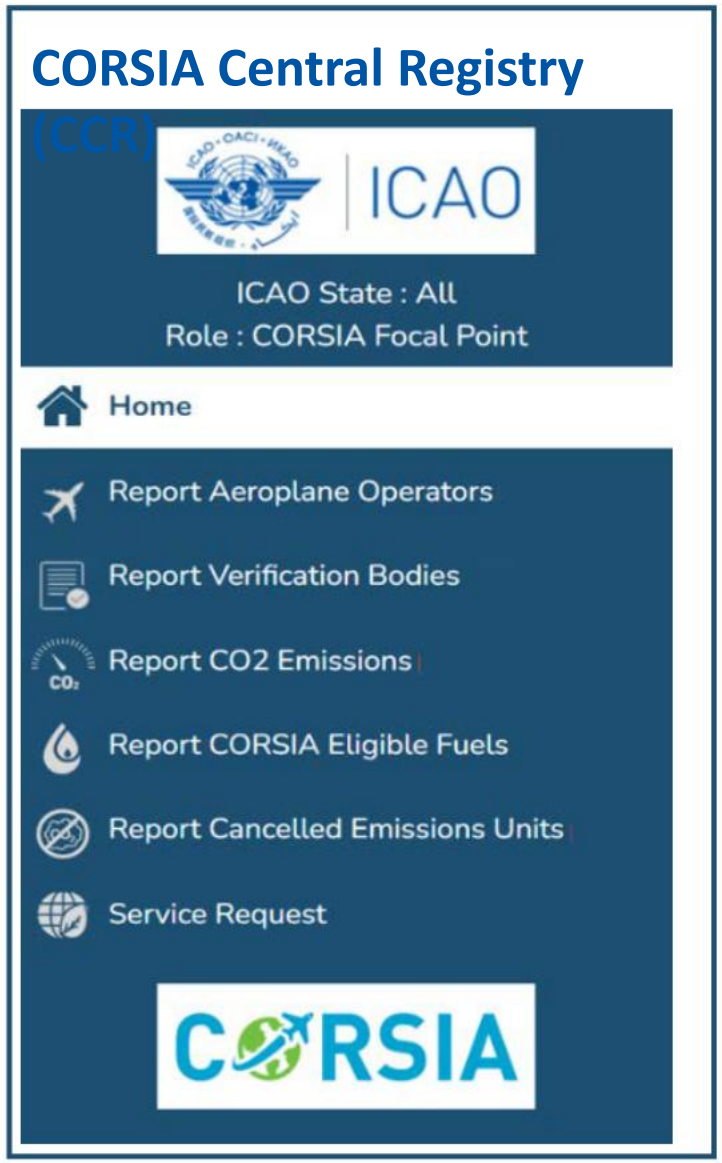
Verify ER and develop VR

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CORSIA CO_2 MRV

- The CORSIA Central Registry (CCR) is essential for the collection and publication of CORSIA data.
- The CCR allows:
  - States to submit information that is related to CORSIA, and
  - ICAO to compile information specific to the implementation and transparency of CORSIA.

Consolidated data from the CCR is published on the ICAO CORSIA website for public access.



173

States have access to CCR

281

CCR User Accounts

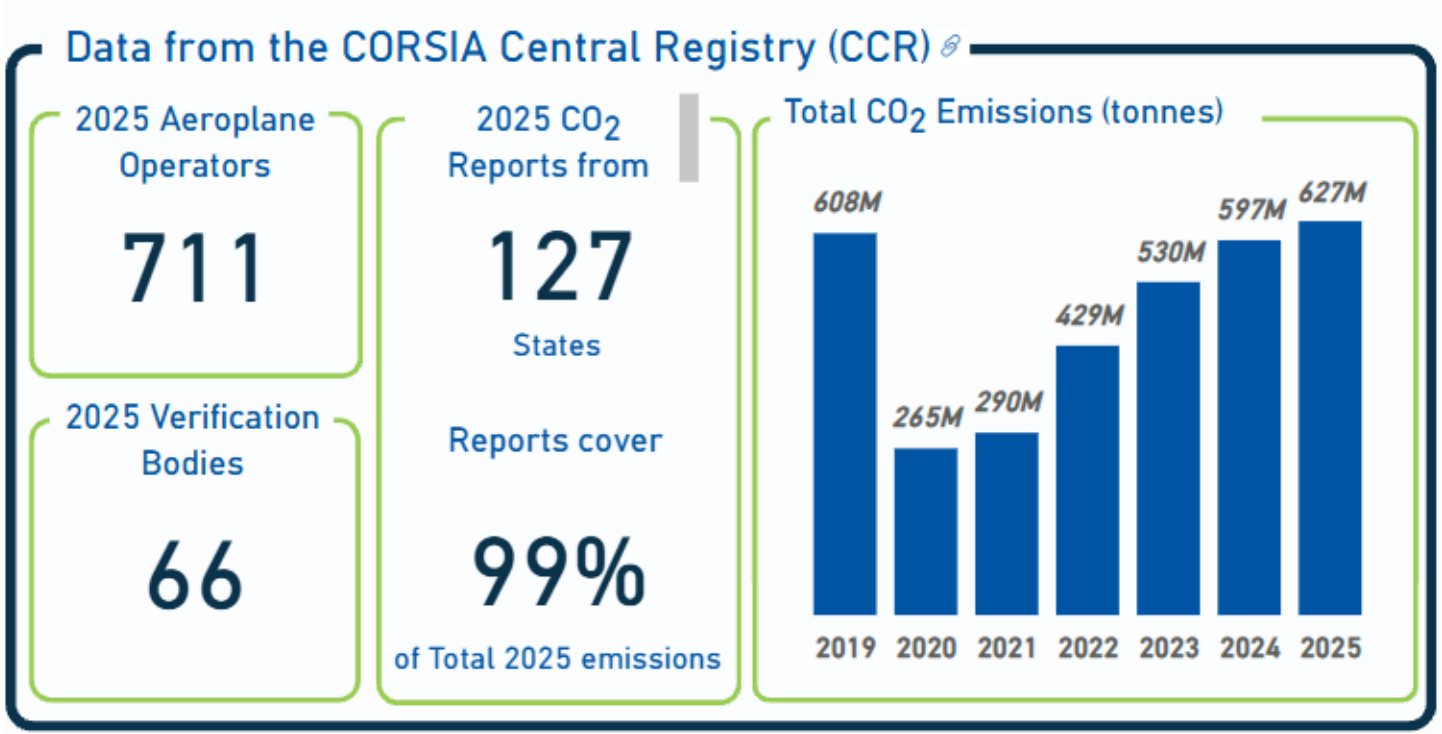
CORSIA CO_2 MRV

Information to be reported by States to ICAO through the CCR and associated deadlines

State Report	CORSIA First Phase			CORSIA Second Phase		
	2024	2025	2026	*2027*	*2028*	*2029*
Aeroplane Operators	***30 Nov*** *(2024 AOs)*	***30 Nov*** *(2025 AOs)*	***30 Nov*** *(2026 AOs)*	***30 Nov*** *(2027 AOs)*	***30 Nov*** *(2028 AOs)*	***30 Nov*** *(2029 AOs)*
Verification Bodies	***30 Nov*** *(2024 VBs)*	***30 Nov*** *(2025 VBs)*	***30 Nov*** *(2026 VBs)*	***30 Nov*** *(2027 VBs)*	***30 Nov*** *(2028 VBs)*	***30 Nov*** *(2029 VBs)*
CO_2 Emissions	***31 Jul*** *(2023 Emissions)*	***31 Jul*** *(2024 Emissions)*	***31 Jul*** *(2025 Emissions)*	***31 Jul*** *(2026 Emissions)*	***31 Jul*** *(2027 Emissions)*	***31 Jul*** *(2028 Emissions)*
CORSIA Eligible Fuels	***31 Jul*** *(2023 CEF)*	***31 Jul*** *(2024 CEF)*	***31 Jul*** *(2025 CEF)*	***31 Jul*** *(2024–2026 CEF)*	***31 Jul*** *(2027 CEF)*	***31 Jul*** *(2028 CEF)*
Cancelled Emissions Units					***31 Jul*** *(2024–2026 CEEUs)*	

Overview of the Implementation of the CORSIA MRV System

In 2024, CORSIA's Annual Sector's Growth Factor was greater than zero for the first time since the start of CORSIA implementation
(SGF 2024 = 0.15405257)



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CORSIA Structure

CORSIA offsetting requirements (until 2035) can be met through CEF or CEEUs

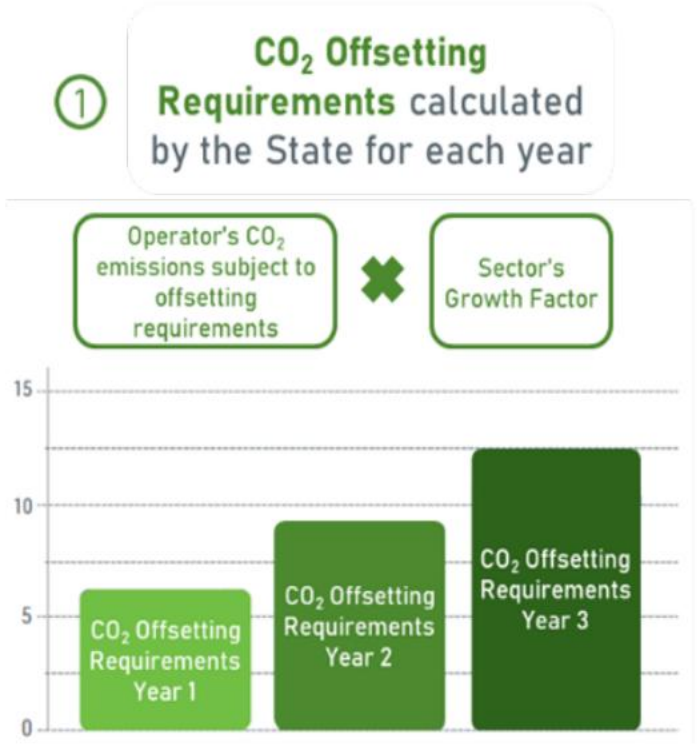
CORSIA Monitoring, Reporting and Verification (MRV) of CO_2 Emissions

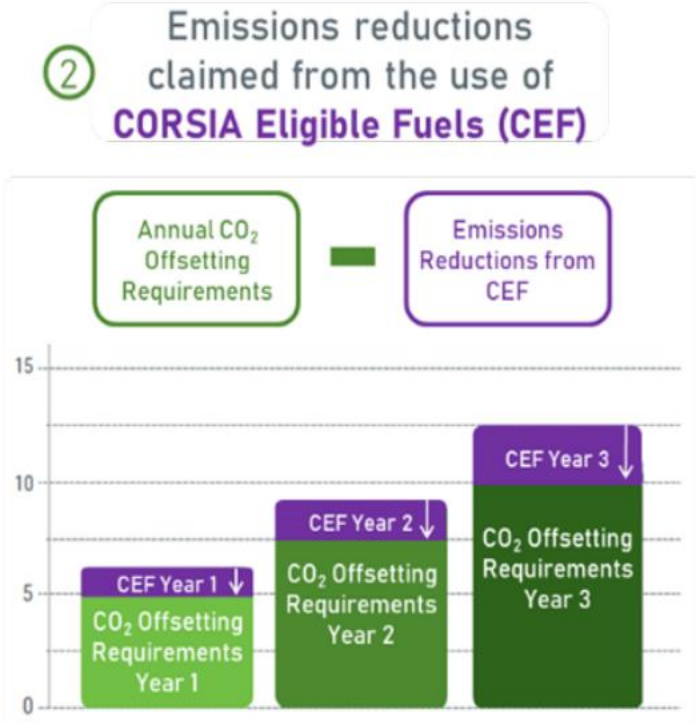


Use of **CORSIA Eligible Fuels (CEF)**

Use of **CORSIA Eligible Emissions Units (CEEUs)**

An aeroplane operator can reduce its CORSIA offsetting requirements by claiming emissions reductions from the use of CORSIA Eligible Fuels (CEF)







CORSIA Eligible Fuels (CEFs) can be used by an operator to reduce its offsetting requirements.

CEFs are either CORSIA sustainable aviation fuels (SAF) or CORSIA lower carbon aviation fuels (LCAF).

CEFs need to be certified based on the CORSIA Sustainability Criteria, including their life-cycle emissions values, by an approved Sustainability Certification Scheme (SCS).

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CORSIA Eligible Fuels

- Five ICAO documents containing the information needed to claim emissions reductions from the use of CORSIA Eligible Fuels

- Current editions:

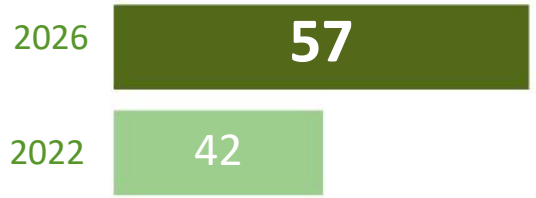
Last Update: June/2026



CORSIA Eligibility Framework and Requirements for Sustainability Certification Schemes	CORSIA Approved Sustainability Certification Schemes*	CORSIA Sustainability Criteria for CORSIA Eligible Fuels**	CORSIA Default Life Cycle Emissions Values for CORSIA Eligible Fuels***	CORSIA Methodology for Calculating Actual Life Cycle Emissions Values
Fourth Edition, June 2025	Fourth Edition, June 2026	Fourth Edition, June 2025	Eighth Edition, November 2025	Seventh Edition, November 2025

CORSIA Eligible Fuels

Feedstocks recognized in CORSIA



Regionally available feedstocks are being recognized under CORSIA
Facilitate production of SAF in all ICAO regions
Accelerated approval procedures in place



https://www.icao.int/CORSIA/feedstocks

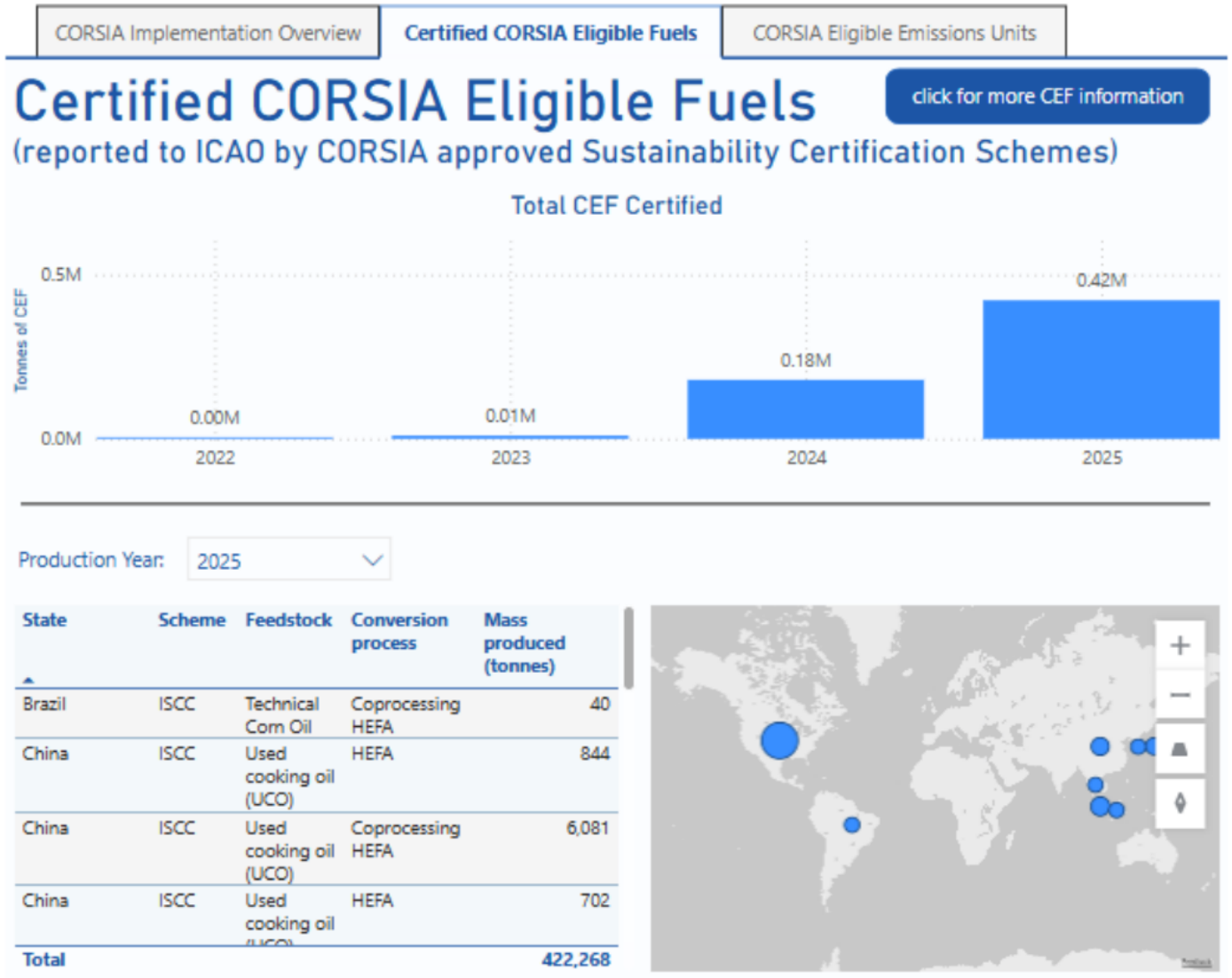
- **Extensive standard updates in 2025**
  - Electricity Sourcing
  - Carbon Capture and Storage
  - Soil Carbon Accumulation
  - Multicropping
- **Four Sustainability Certification Schemes** approved (including Bonsucro, June 2026)
- Ongoing evaluation of **LCAF certification (ISCC)**
- **Five ICAO documents** containing the information needed to claim emissions reductions from the use of CORSIA Eligible Fuels



https://www.icao.int/CORSIA/CORSIA-eligible-fuels/

CORSIA Eligible Fuels Dashboard

(available at https://www.icao.int/CORSIA)



CORSIA Periodic Review

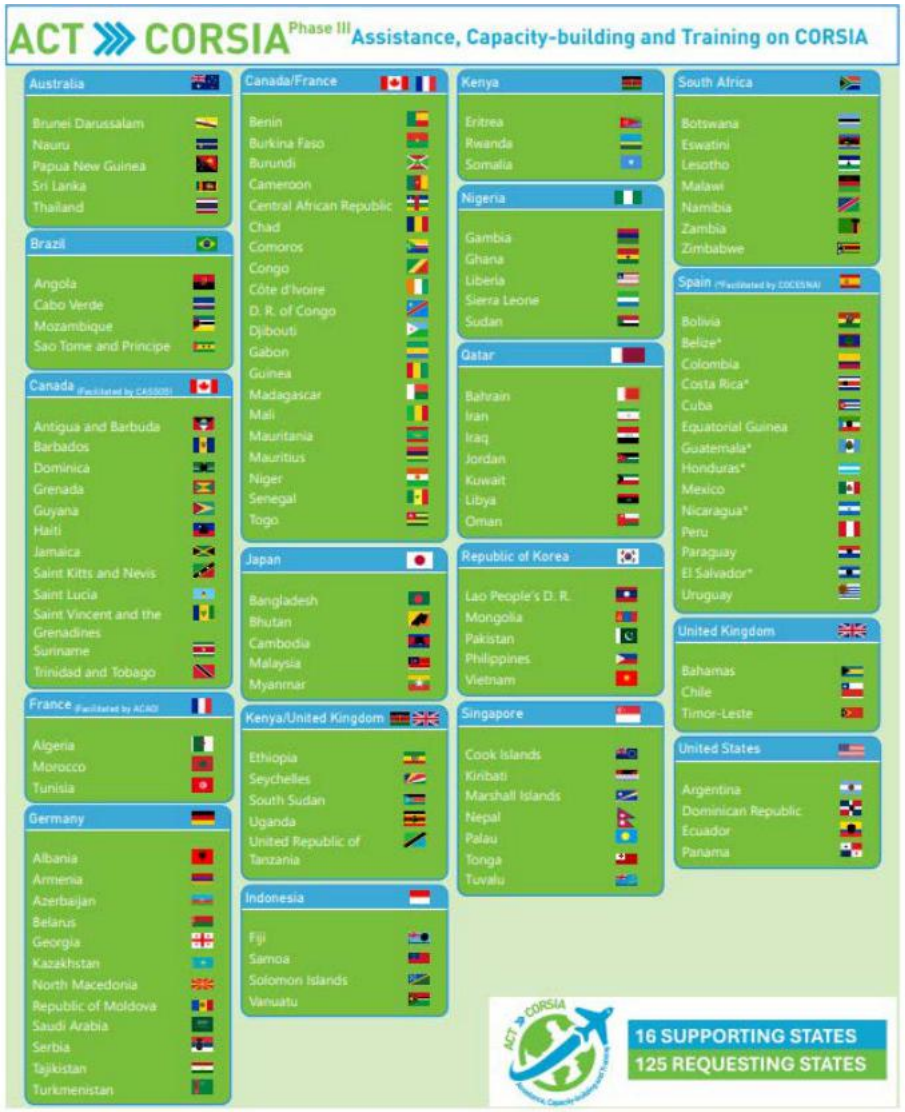
- **Periodic reviews of CORSIA** are undertaken by the ICAO Council every three years, with the technical support of its **Committee on Aviation Environmental Protection (CAEP).**

- It allows the Council to make **informed decisions** on whether it is necessary to make adjustments to the next phase(s) of the scheme.

- The first two periodic reviews (2022 and 2025) were completed and led to changes to the CORSIA design elements. **CORSIA implementation is on track.**

- **Programmes are expected to generate enough CORSIA Eligible Emissions Units** for the First Phase, but their **market availability is subject to countries' issuance of Letters of Authorization.**





ICAO Assistance, Capacity-building and Training on CORSIA (ACT-CORSIA) was launched in July 2018

ICAO Global Aviation Training Programme

- **CORSIA Verification Course**
  (updated in March 2026)

- **Three CORSIA-specific Workshops**
  (available on the GAT website)
  - CORSIA Overview
  - CORSIA Eligible Fuels
  - CORSIA Eligible Emissions Units



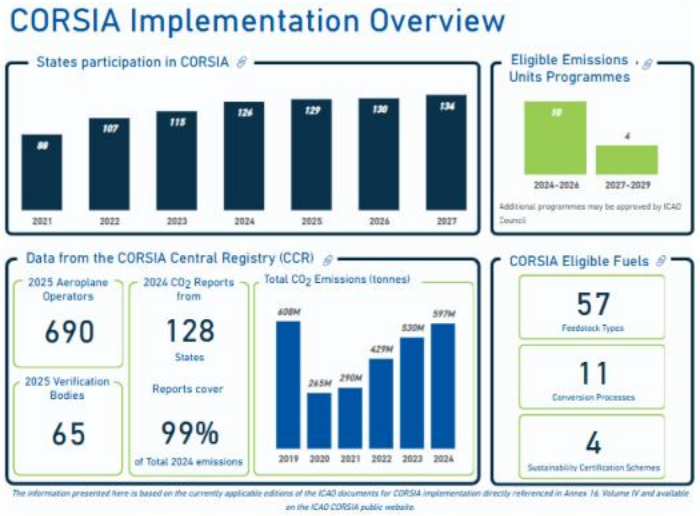


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To Conclude: Environmental Priorities for 2026–2028

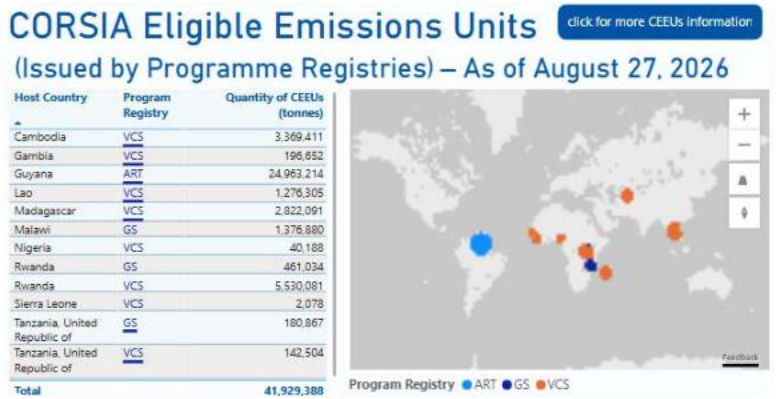
ICAO Assembly, A42-22, paragraph 18:

"Determines that the CORSIA is the only global market-based measure applying to CO_2 emissions from international aviation so as to avoid a possible patchwork of duplicative State or regional MBMs, thus ensuring that international aviation CO_2 emissions should be accounted for only once"

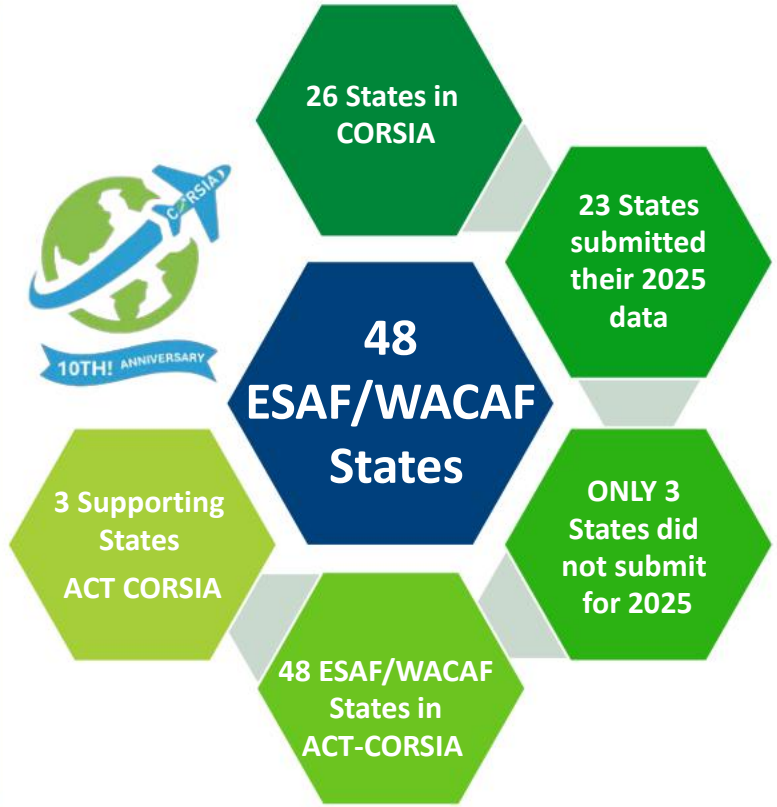


Expand States' participation **in CORSIA** to increase its environmental integrity.

134 **States participating in CORSIA in 2027**



Accelerate issuance of **Letters of Authorization** to facilitate access and availability of CORSIA Eligible Emissions Units to aeroplane operators.



Thank You



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