

ICAO EUR/NAT Environment Workshop

Hosted by the State Civil Aviation Agency of the Republic of Azerbaijan



ICAO



Session 3 - CORSIA

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ICAO Environment Officer

ICAO EUR/NAT

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3 CORSIA Implementation

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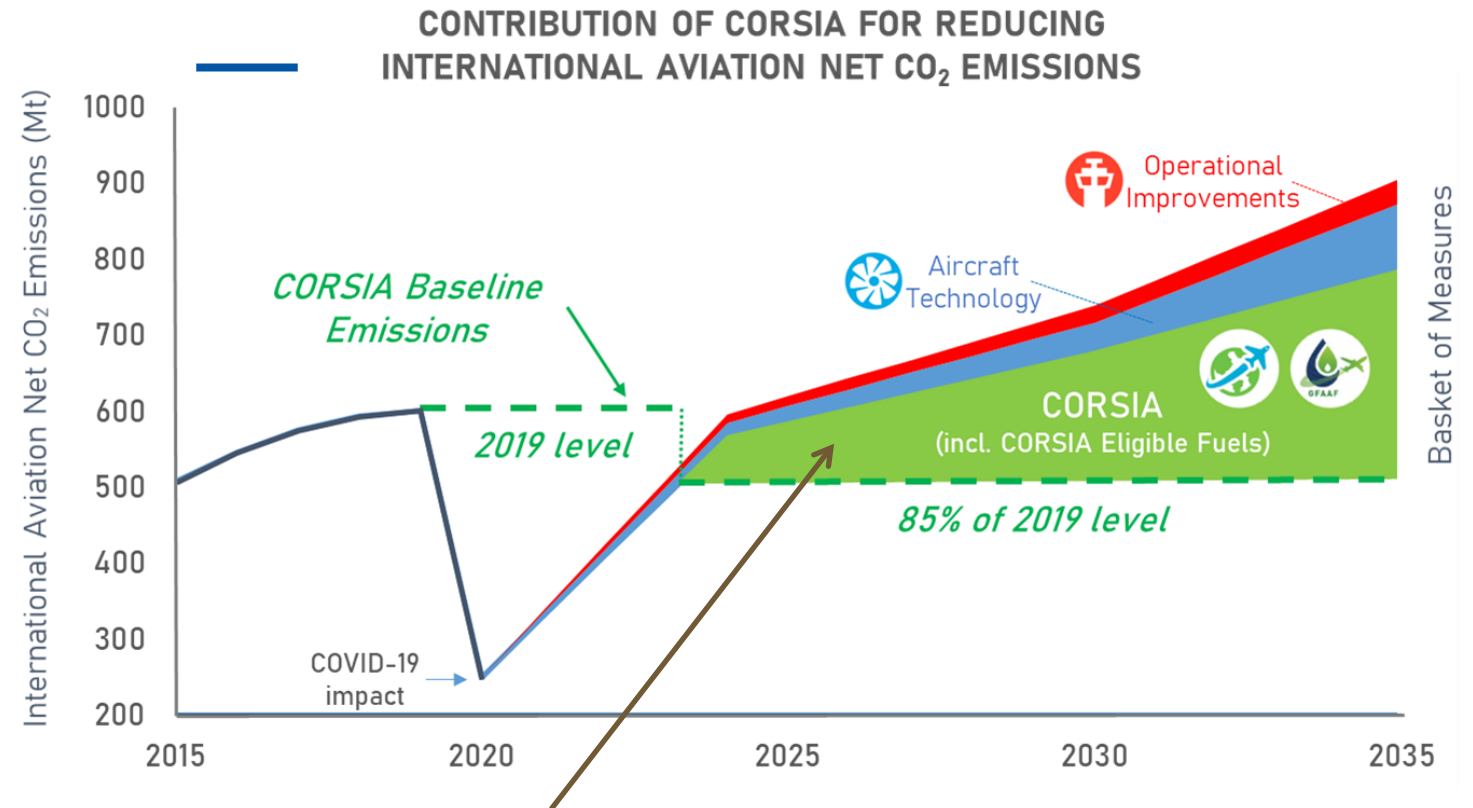
5 2025 CORSIA periodic review

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)



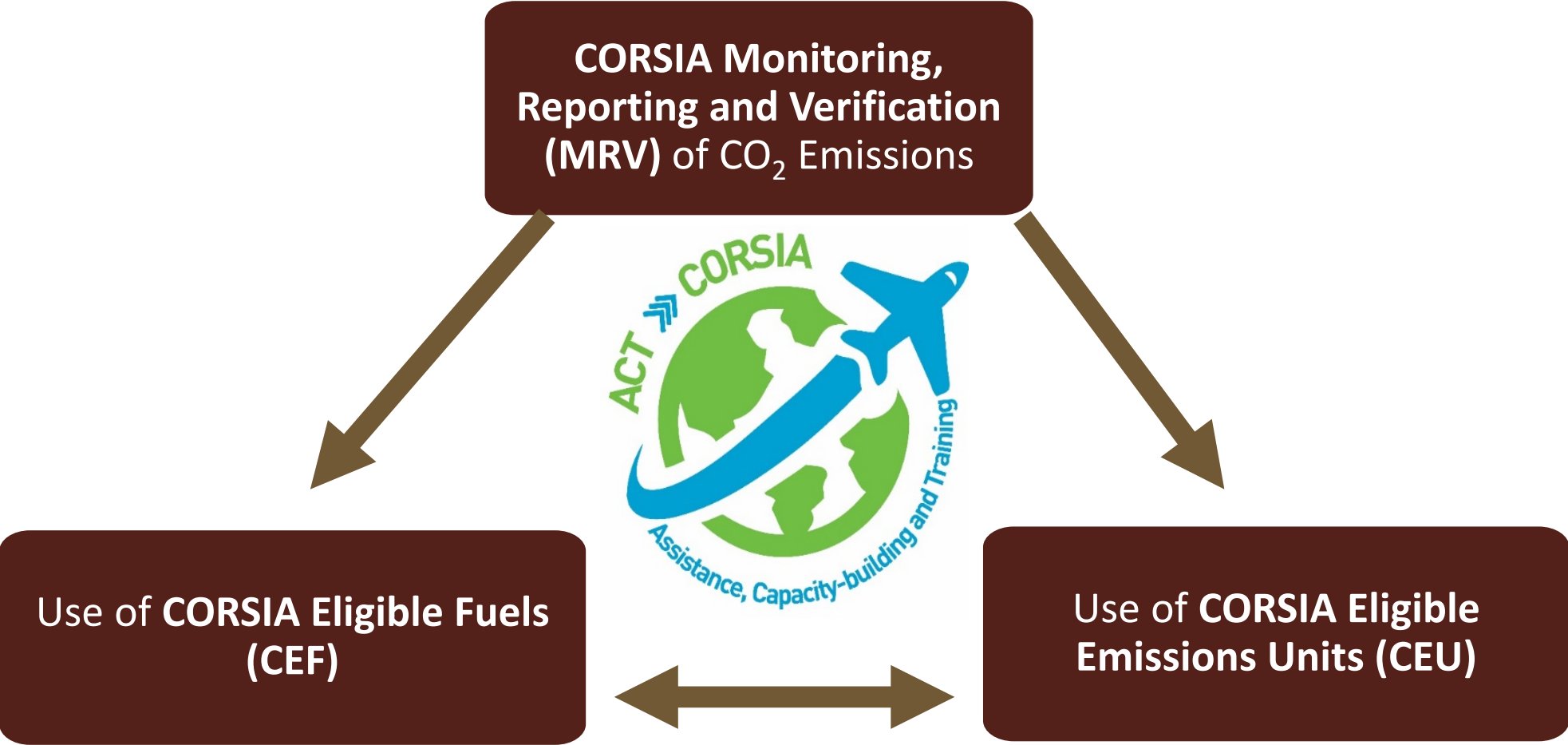
CORSIA addresses the remaining “emissions gap” to achieve CNG2020



Second phase participation criteria:

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

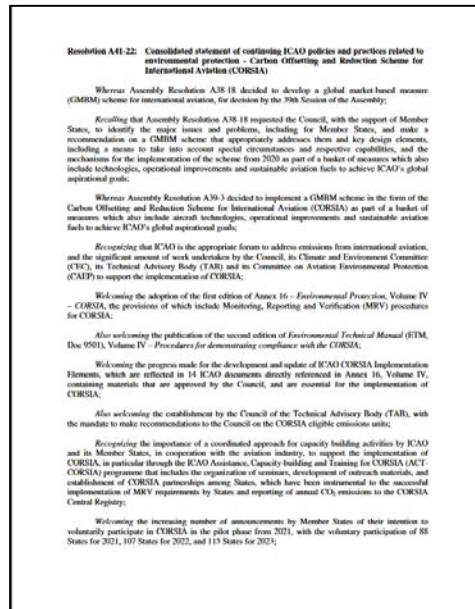
Exemptions: LDCs, LLDCs, SIDS



CORSIA offsetting requirements (until 2035) could be met by CEF or CEU

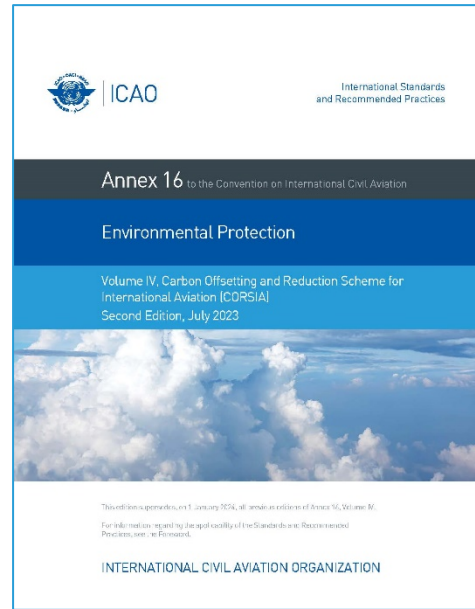
CORSIA Implementation Framework

Assembly Resolution A42-22



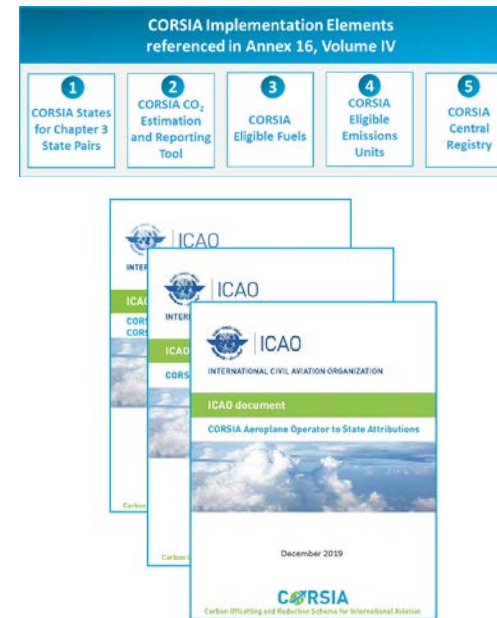
(overall ICAO policy on CORSA)

Annex 16, Volume IV (2nd edition)



(applicable from 1 January 2024)

CORSIA Implementation Elements and ICAO CORSA documents



(regularly updated)

Doc 9501 (ETM), Vol. IV (CORSA) (3rd edition)



(supports implementation of the 2nd ed. of Annex 16, Volume IV)

Assembly Resolution on CORSIA

Resolution A42-22: Consolidated statement of continuing ICAO policies and practices related to environmental protection - Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)

Whereas Assembly Resolution A38-18 decided to develop a global market-based measure (GMBM) scheme for international aviation, for decision by the 39th Session of the Assembly;

Recalling that Assembly Resolution A38-18 requested the Council, with the support of Member States, to identify the major issues and problems, including for Member States, and make a recommendation on a GMBM scheme that appropriately addresses them and key design elements, including a means to take into account special circumstances and respective capabilities, and the mechanisms for the implementation of the scheme from 2020 as part of a basket of measures which also include technologies, operational improvements and sustainable aviation fuels to achieve ICAO's global aspirational goals;

Whereas Assembly Resolution A39-3 decided to implement a GMBM scheme in the form of the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) as part of a basket of measures which also include aircraft technologies, operational improvements and sustainable aviation fuels to achieve ICAO's global aspirational goals;

Recognizing that ICAO is the appropriate forum to address emissions from international aviation, and the significant amount of work undertaken by the Council, its Climate and Environment Committee (CEC), its Technical Advisory Body (TAB) and its Committee on Aviation Environmental Protection (CAEP) to support the implementation of CORSIA;

Welcoming the adoption of the second edition of Annex 16 – *Environmental Protection, Volume IV – Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)*, the provisions of which include Monitoring, Reporting and Verification (MRV) procedures for CORSIA;

Also welcoming the publication of the third edition of *Environmental Technical Manual (ETM, Doc 9501), Volume IV – Procedures for demonstrating compliance with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)*;

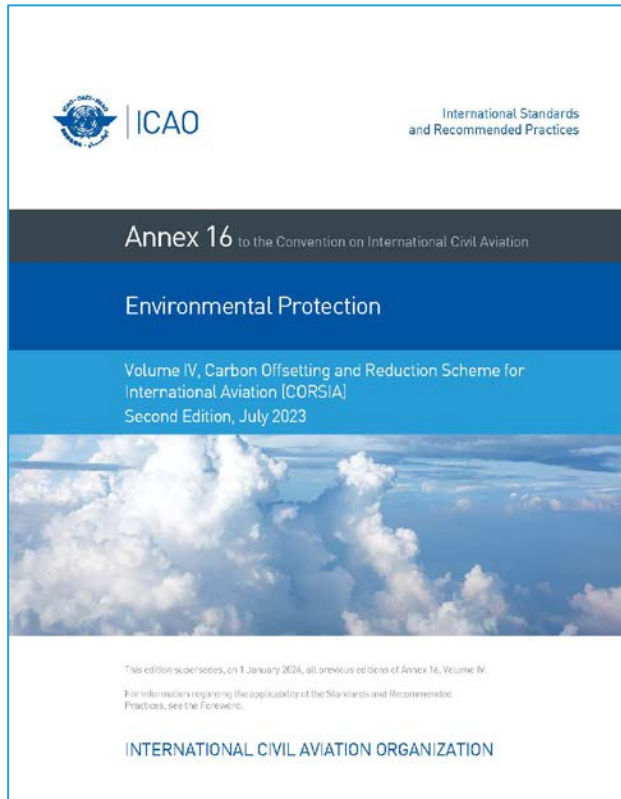
Welcoming the progress made for the development and update of ICAO CORSIA Implementation Elements, which are reflected in 14 ICAO documents directly referenced in Annex 16, Volume IV, containing materials that are approved by the Council, and are essential for the implementation of CORSIA;

Also welcoming the establishment by the Council of the Technical Advisory Body (TAB), with the mandate to make recommendations to the Council on the CORSIA eligible emissions units;

Recognizing the importance of a coordinated approach for capacity building activities by ICAO and its Member States, in cooperation with the aviation industry, to support the implementation of CORSIA, in particular through the ICAO Assistance, Capacity-building and Training for CORSIA (ACT-CORSIA) programme that includes the organization of seminars, development of outreach materials, and establishment of CORSIA partnerships among States, which have been instrumental to the successful implementation of MRV requirements by States and reporting of annual CO₂ emissions to the CORSIA Central Registry;

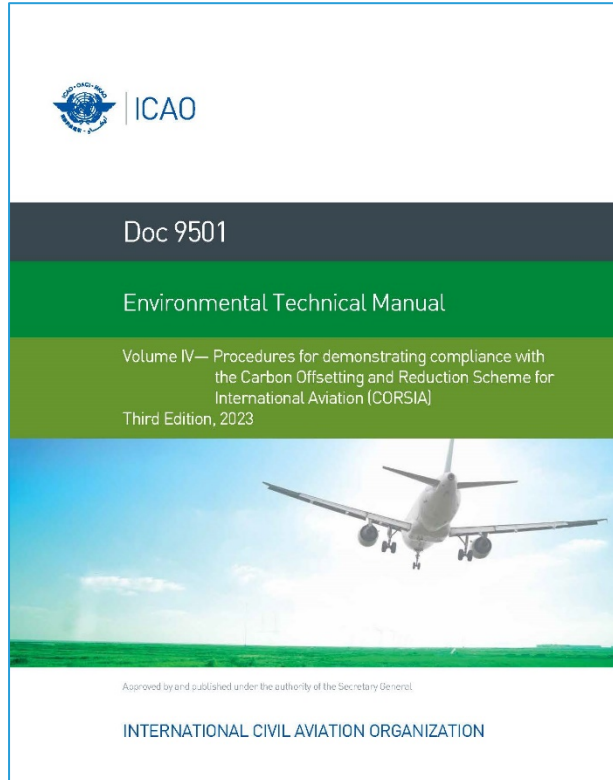
- Resolution currently in force: A42-22
 - Adopted by the 42nd Session of the ICAO Assembly in 2025
 - It supersedes previous Assembly Resolutions on CORSIA:
 - A39-3 (2016) – CORSIA agreement
 - A40-19 (2019)
 - A41-22 (2022)

Annex 16, Volume IV



- Edition currently applicable: second edition (applicable since 1 January 2024)
- **Next update** (third edition)
 - Expected to incorporate minor MRV-related adjustments recommended by the ICAO Council’s Committee on Aviation Environmental Protection (CAEP)
 - Distributed to States and relevant International Organizations (State letter 2025/66)
 - Expected to be applicable from 1 January 2027

Doc 9501 (Environmental Technical Manual), Volume IV



- Current edition (third) supports implementation of the second edition of Annex 16, Volume IV (i.e. from 1 January 2024)
- **Next update** (fourth edition):
 - Further guidance on matters related to CORSIA eligible fuels (CEFs)
 - New guidance on verification of emissions reduction claims from CEFs
 - New section on CEFs in the States' Order of Magnitude checklist
 - Restructuring of the CEF claims template to make it more user-friendly
 - Update of the Verification Report template to facilitate the review of CEF claims
 - Expected publication date: last quarter of 2025

CORSIA Implementation Elements and related ICAO documents

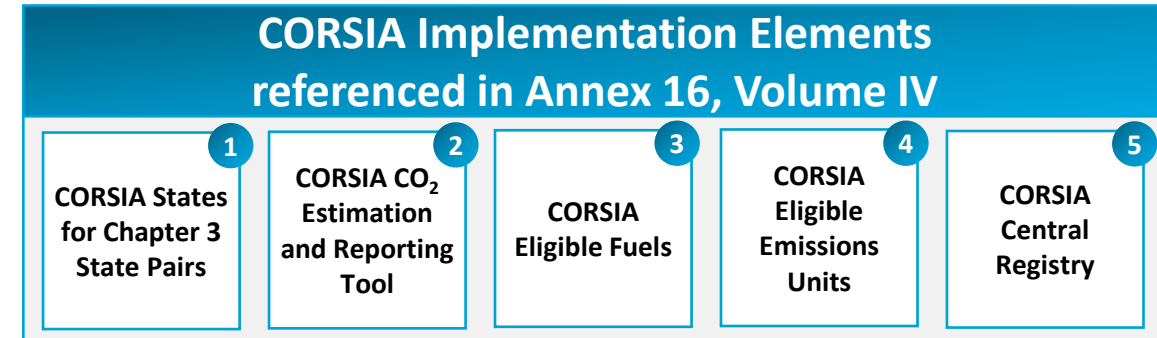


- 5 CORSIA Implementation Elements...

- ... reflected in 14 ICAO documents

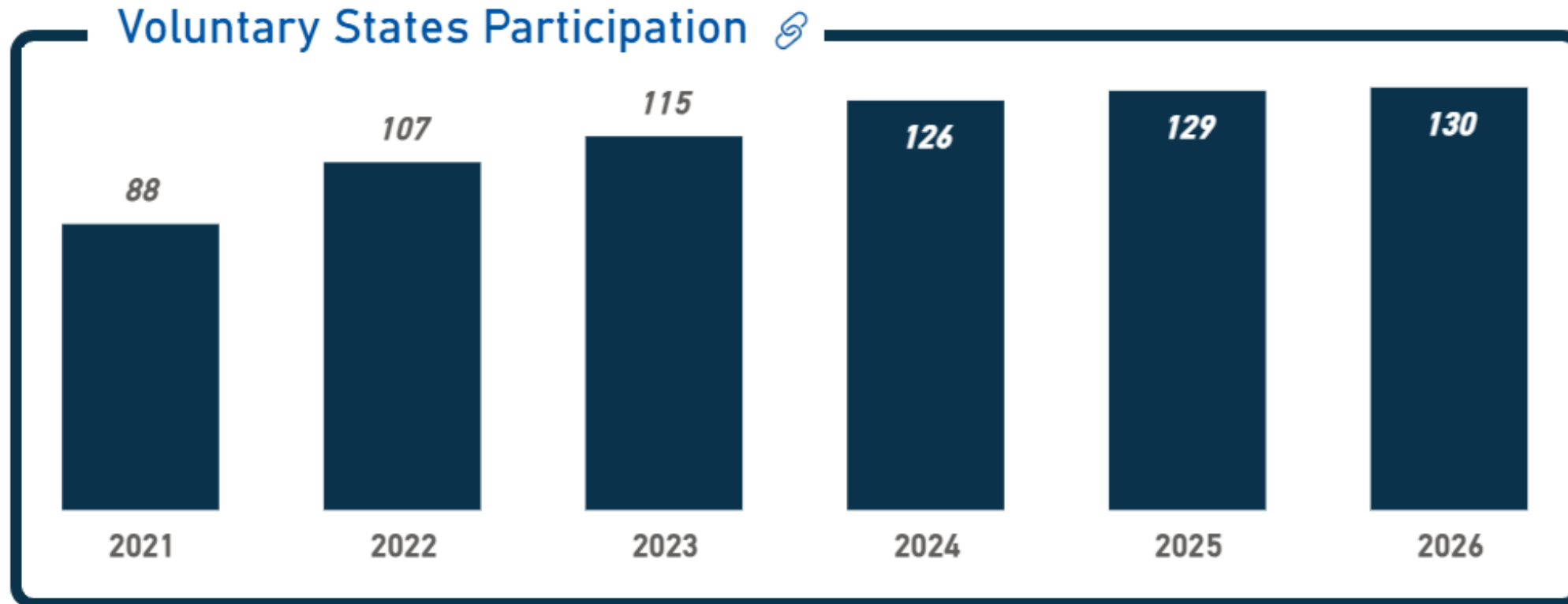
- Directly referenced in Annex 16, Volume IV

- Contain material approved by the ICAO Council for publication by ICAO to support Annex 16, Volume IV, and **essential for the implementation of CORSIA**



Note – All documents have been approved by the ICAO Council and are available on the ICAO website

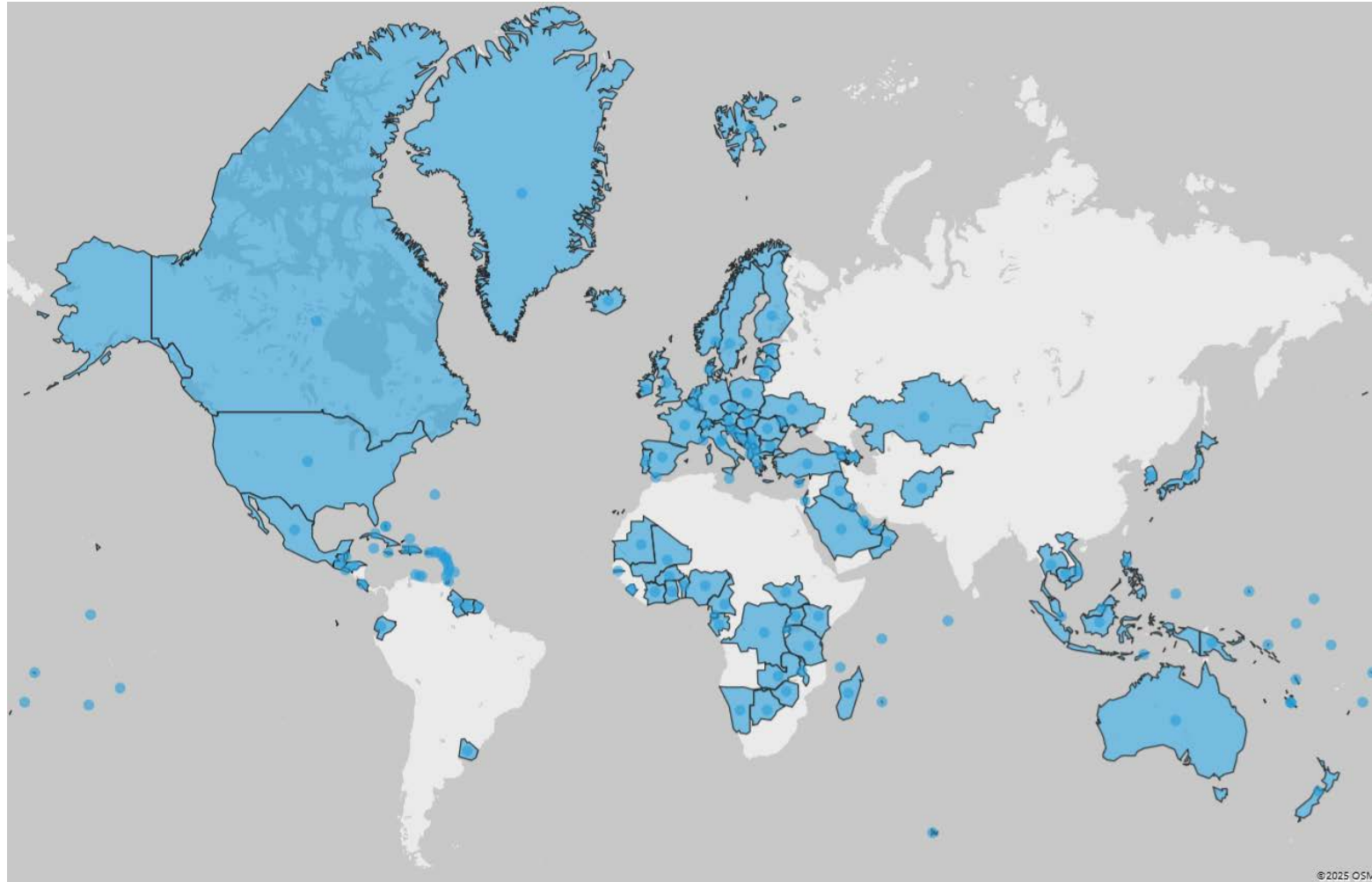
CORSIA Volunteer States



Available here: <https://www.icao.int/CORSIA/corsia-states-chapter-3-state-pairs>

CORSIA Volunteer States

130 States have confirmed voluntary participation in CORSIA in 2026



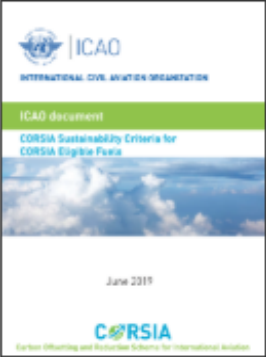




Available here: <https://www.icao.int/CORSIA/corsia-states-chapter-3-state-pairs>

CORSIA Eligible Fuels

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

- Current editions:

				
<u>CORSIA Eligibility Framework and Requirements for Sustainability Certification Schemes</u>	<u>CORSIA Approved Sustainability Certification Schemes*</u>	<u>CORSIA Sustainability Criteria for CORSIA Eligible Fuels**</u>	<u>CORSIA Default Life Cycle Emissions Values for CORSIA Eligible Fuels***</u>	<u>CORSIA Methodology for Calculating Actual Life Cycle Emissions Values</u>
Fourth Edition, June 2025	Third Edition, October 2024	Fourth Edition, June 2025	Seventh Edition, June 2025	Sixth Edition, June 2025

CORSIA Eligible Emissions Units

- **CORSIA Eligible Emissions Units (CEEUs)** are ‘*carbon offsets*’ that have been approved by the ICAO Council, upon recommendation the Technical Advisory Body (TAB) for their use in **CORSIA**.
- **CEEUs** shall meet the **CORSIA Emissions Unit Criteria (EUC)**
- Two ICAO documents referenced in Annex 16, Volume IV, approved by the ICAO Council:
 - *CORSIA Emissions Unit Eligibility Criteria*
 - *CORSIA Eligible Emissions Units*



CORSIA Eligible Emissions Unit Eligibility Criteria

- First edition (2019) – unchanged since then



- Information in this document to be **used by the Council’s Technical Advisory Body (TAB) in its assessment of CORSIA eligibility** of applicant emissions unit programmes

- The information in this document is not relevant for the purpose of purchasing and cancelling CORSIA Eligible Emissions Units, nor for the reporting of the said cancellation.



March 2019



CORSIA Eligible Emissions Units



ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

ICAO document

CORSIA Eligible Emissions Units



October 2024



Carbon Offsetting and Reduction Scheme for International Aviation



ICAO

- Edition currently applicable: 12th (October 2024)
- This document provides information on which emissions units are CORSIA-eligible and thus can be purchased and cancelled by aeroplane operators to meet their offsetting requirements in CORSIA
- Next expected update: to be published in November 2025
- Reminder: reporting on cancellation of CORSIA Eligible Emissions Units will take place for the first time in April 2028

Availability of CORSIA Eligible Emissions Units / Host Country Authorization

The **host country attestation*** is a key measure defined by the EUC to **avoid double claiming** of units used in CORSIA.


This is also a crucial factor that is linked to **the availability of CORSIA eligible emissions units**.

Through the attestation, **the host country confirms that CEEUs will be used in CORSIA** and are not counted toward any National Determined Contributions (NDCs) under Paris Agreement

ICAO Member States are encouraged to issue their authorization letters in advance of the **deadline** for aeroplane operators to cancel CEEUs for the first phase (**January 2028**).

* Also known as **host country ‘authorization’** under the UNFCCC Paris Agreement, Article 6.

A6.2-TMPL-RPTG-004



VOLUNTARY STANDARDIZED TEMPLATE^{1 2 3}
AUTHORIZATION OF USE OF THE INTERNATIONALLY TRANSFERRED MITIGATION OUTCOMES FROM A COOPERATIVE APPROACH
(Version 01.0)

PURPOSE

1. This document provides the information outlined in paragraph 5 of decision x/CMA.6 in relation to the authorization of the use of internationally transferred mitigation outcomes from a cooperative approach as referred to in decision 2/CMA.3, annex, paragraph 18. ^{4 5}
2. This document is:
 - The authorization referred to in decision 2/CMA.3, annex, paragraph 18; or
 - An attachment to the authorization referred to in decision 2/CMA.3, annex, paragraph 18.

I. ELEMENTS OF THE AUTHORIZATION OF USE OF THE INTERNATIONALLY TRANSFERRED MITIGATION OUTCOME FROM A COOPERATIVE APPROACH

A: ELEMENTS RELATED TO THE AUTHORIZATION PROCESS

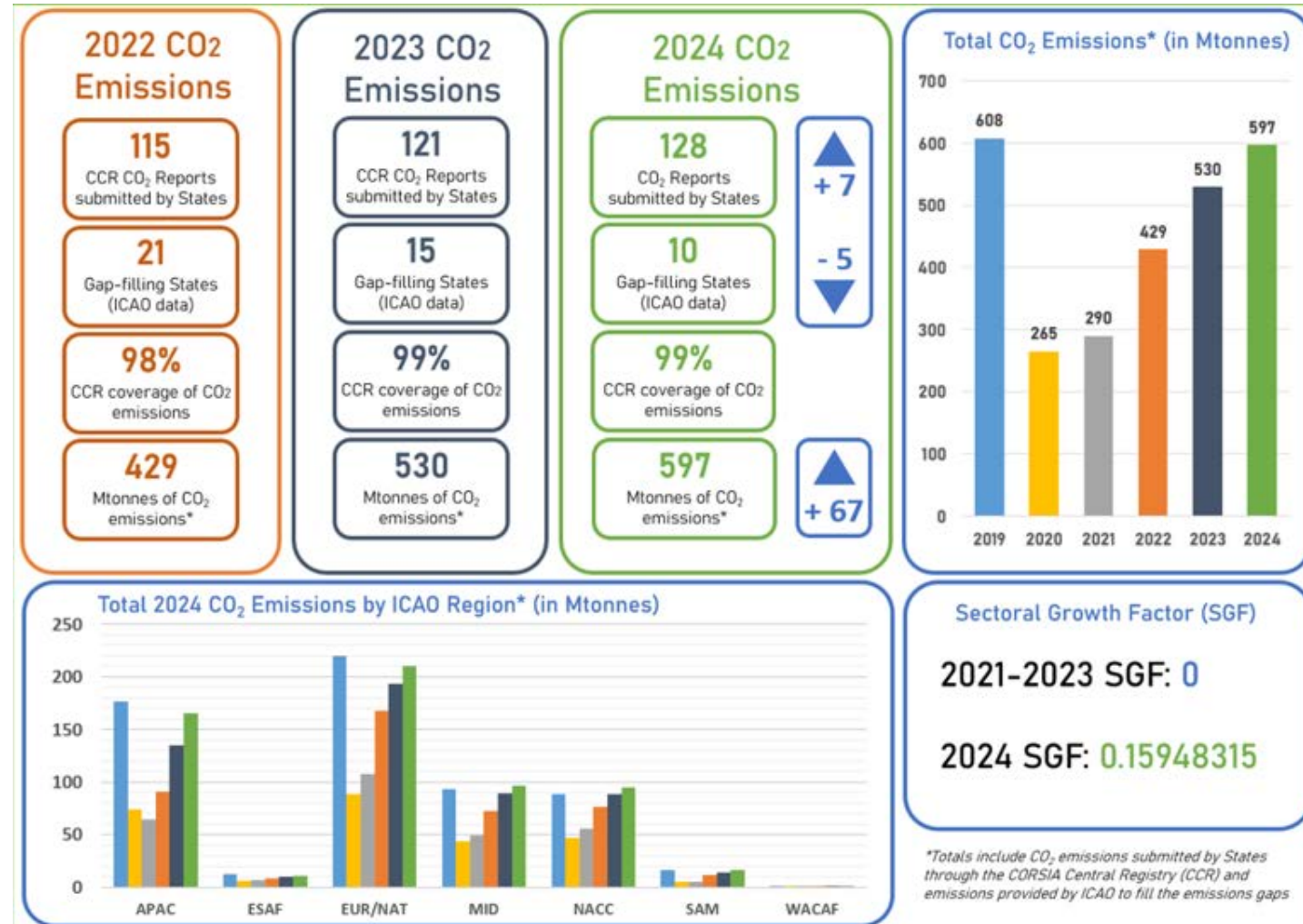
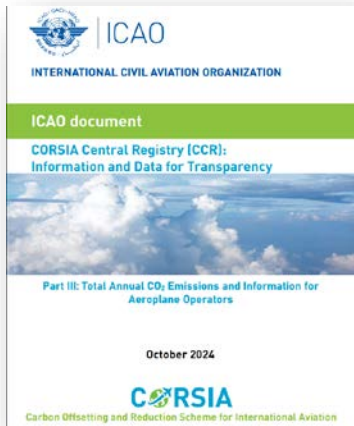
Party:	>> <i>Name of Party as per common nomenclatures.</i>
Authorization ID:	>> <i>ID of the authorization as per the tracking system of the authority that provides the authorization.</i>
Authorization date:⁶	Click or tap to enter a date.
Version:	01.0
Date of last change to the authorization, if applicable:	Click or tap to enter a date.
Effective date of the change to the authorization:⁷	Click or tap to enter a date.
Duration of the authorization:⁸	Start date: Click or tap to enter a date.

CORSIA Central Registry (CCR)

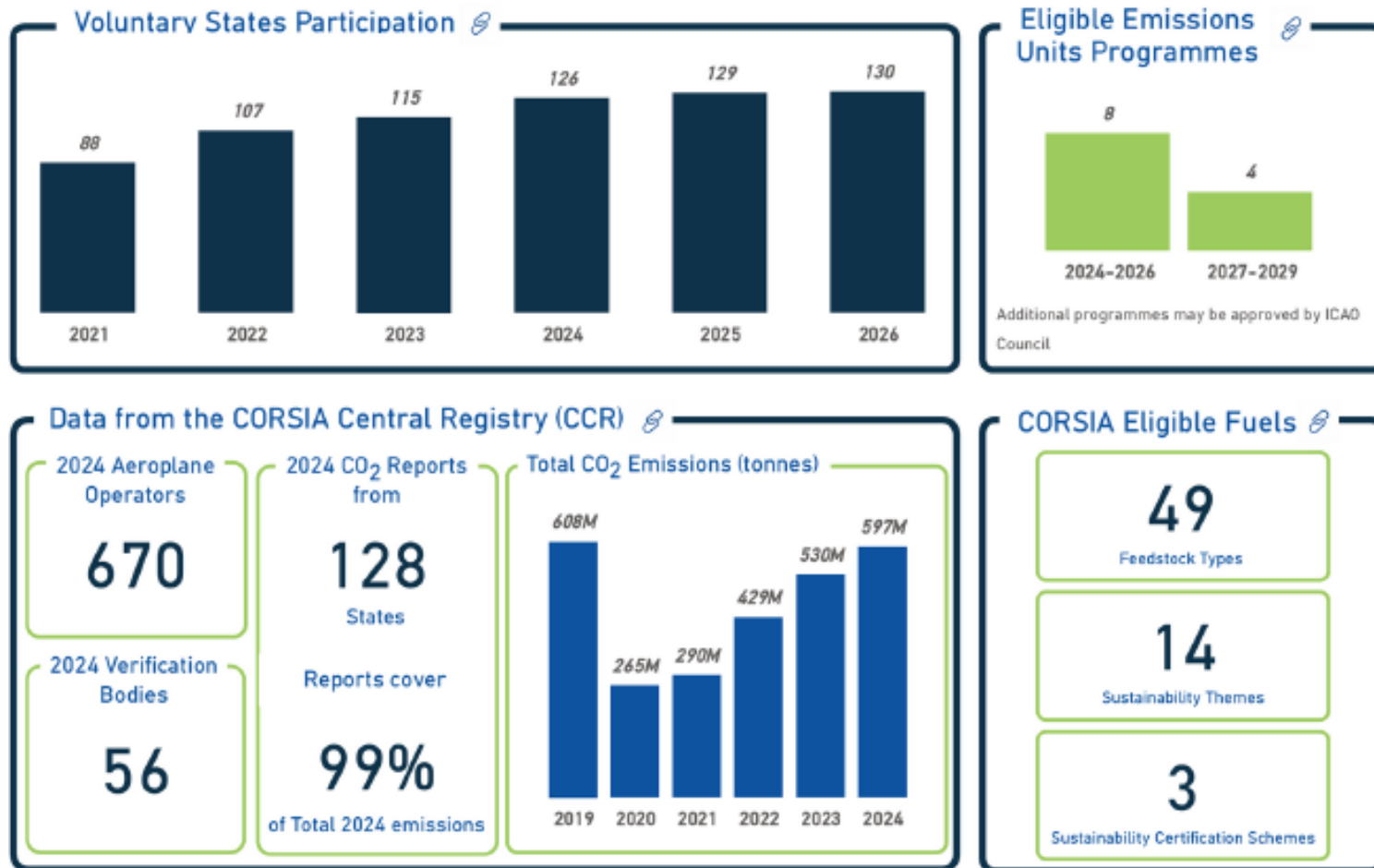


Unprecedented number of States reported 2024 CO₂ emissions through the CCR!

99% coverage maintained



CORSIA Implementation is On-track

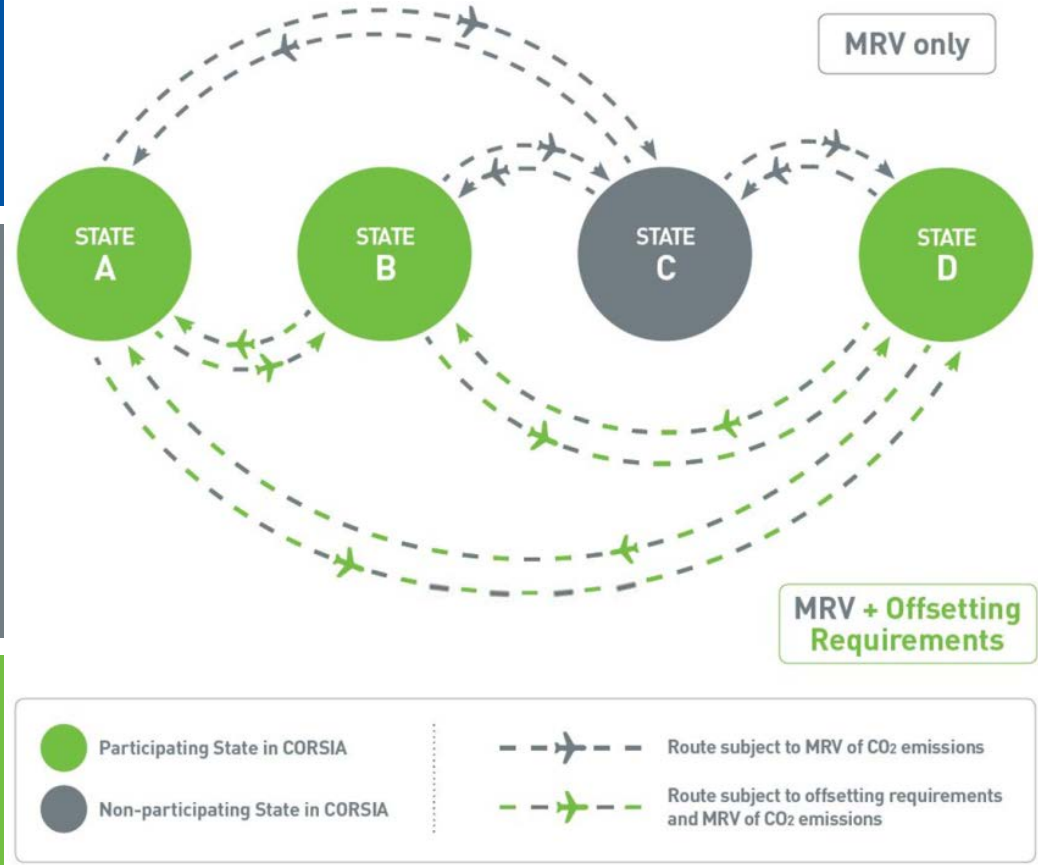


The information presented here is based on the currently applicable editions of the ICAO documents for CORSIA implementation directly referenced in Annex 16, Volume IV and available on the ICAO CORSIA public website.

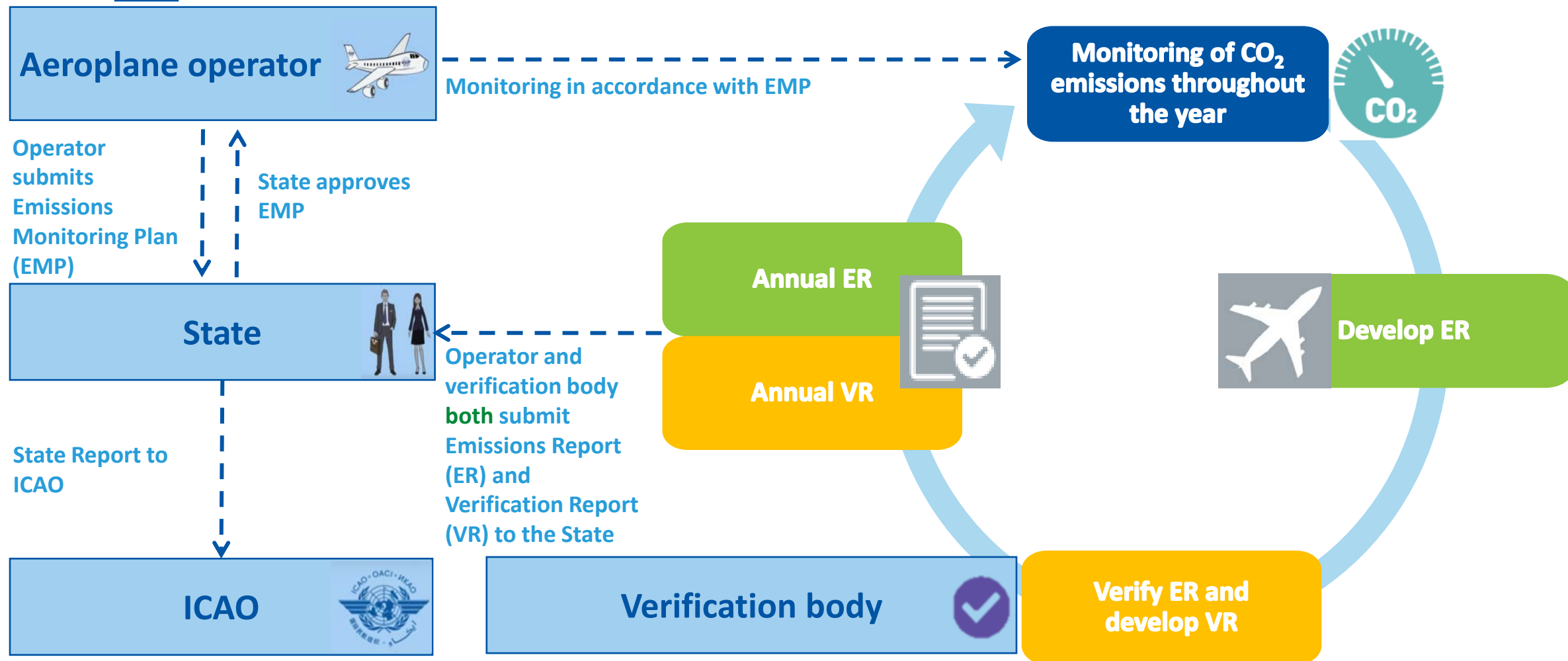
From 1 January 2019, all States with operators performing international flights have to establish a monitoring, reporting and verification (MRV) system for CO₂ emissions.

From 1 January 2019, all operators performing international flights have to monitor CO₂ emissions - operators with emissions more than 10,000 tonnes annually have to verify CO₂ emissions and report to State.

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



CORSIA CO2 MRV



CORSIA CO2 MRV

- 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.



CORSIA Central Registry (CCR)

A screenshot of the CORSIA Central Registry (CCR) website. At the top, it features the ICAO logo and the text "ICAO State : All" and "Role : CORSIA Focal Point". Below this is a navigation menu with a "Home" button. The main content area lists several reporting options: "Report Aeroplane Operators", "Report Verification Bodies", "Report CO2 Emissions", "Report CORSIA Eligible Fuels", "Report Cancelled Emissions Units", and "Service Request". At the bottom of the page, the CORSIA logo is displayed.

173

States have access to CCR

281

CCR Users Accounts

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 <i>(2024 AOs)</i>	30 Nov <i>(2025 AOs)</i>	30 Nov <i>(2026 AOs)</i>	30 Nov <i>(2027 AOs)</i>	30 Nov <i>(2028 AOs)</i>	30 Nov <i>(2029 AOs)</i>
Verification Bodies	30 Nov <i>(2024 VBs)</i>	30 Nov <i>(2025 VBs)</i>	30 Nov <i>(2026 VBs)</i>	30 Nov <i>(2027 VBs)</i>	30 Nov <i>(2028 VBs)</i>	30 Nov <i>(2029 VBs)</i>
CO ₂ Emissions	31 Jul <i>(2023 Emissions)</i>	31 Jul <i>(2024 Emissions)</i>	31 Jul <i>(2025 Emissions)</i>	31 Jul <i>(2026 Emissions)</i>	31 Jul <i>(2027 Emissions)</i>	31 Jul <i>(2028 Emissions)</i>
CORSIA Eligible Fuels*	31 Jul <i>(2023 CEF)</i>	31 Jul <i>(2024 CEF)</i>	31 Jul <i>(2025 CEF)</i>	31 Jul <i>(2024-2026 CEF)</i>	31 Jul <i>(2027 CEF)</i>	31 Jul <i>(2028 CEF)</i>
Cancelled Emissions Units					31 Jul <i>(2024 - 2026 CEUs)</i>	

ACT-CORSIA Programme

- **ICAO Assistance, Capacity-building and Training on CORSIA (ACT CORSIA)** was launched in July 2018, to provide States with the CORSIA implementation support
- ACT CORSIA is designed to support a **coordinated approach** to harmonize and promote coherence to all capacity building efforts for implementation of CORSIA Annex 16, Volume IV (*Resolution A42-22, paragraph 21*)
- ACT-CORSIA also allows to **monitor the global progress** on CORSIA implementation and enhance transparency



CORSIA NEWSLETTER

ACT-CORSIA

[CORSIA Buddy Partnerships](#)

[Examples of Good Practice](#)

» [Model regulations](#)

» [CO₂ Aggregation](#)

[Frequently Asked Questions](#)

[Brochure and Leaflets](#)

[Videos \(Navigating CORSIA\)](#)

[Seminars](#)

[Background Information](#)



ACT-CORSIA Programme



- ACT-CORSIA includes the organization of **seminars and training sessions**, development of **outreach materials** (e.g., brochure, leaflets, videos, newsletters) and establishment of **CORSIA buddy partnerships among States**, which have been instrumental to the successful implementation of MRV requirements
-
- Under ACT-CORSIA buddy partnerships, technical experts from **supporting States** are working together with CORSIA Focal Points of support-**requesting States** to provide on-site / remote training and follow-up on the required actions, in close coordination with the Secretariat (HQ and ROs)



ACT-CORSIA Buddy Partnerships

Different phases with specific focus areas in order to support necessary actions by States with different timelines

Phase I (Sep 2018 – Apr 2019): 15 supporting States and 98 requesting States

- Development and approval of Emissions Monitoring Plans
- Establishment of national/regional regulatory frameworks

Phase II (May 2019 – Apr 2020): 16 supporting States and 114 requesting States

- CO2 Emissions reporting and verification

Phase III (Apr 2020 – Dec 2024): 17 supporting States and 119 requesting States

Use of the CORSIA Central Registry (CCR)

Phase III (Jan 2025 – Ongoing): 16 supporting States and 125 requesting States

- Lessons learned and improved support to MRV

The focus areas of each Phase can form the basis for checklist to assess the progress made and milestones achieved in order to determine the need for a tailored approach to training.

ACT >>> CORSIA Phase III Assistance, Capacity-building and Training on CORSIA



- **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.
- First periodic review (2022) was completed prior to the 41st Session of the Assembly, and led to changes to the CORSIA design elements arising from the impacts of the COVID-19 pandemic on the international aviation sector.

Pilot Phase			First Phase			Second Phase								
2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Periodic Review #1			Periodic Review #2			Periodic Review #3			Periodic Review #4		Special Review			
A41 			A42			A43			A44			A45		

- **CORSIA is working as designed and anticipated. CORSIA implementation is on track.**
- Despite the lack of offsetting requirements during CORSIA's Pilot Phase, **markets started to develop and prepare** to meet potential and future demand for emissions reductions from CORSIA Eligible Fuels and CORSIA Eligible Emissions Units.
- **Offsetting requirements are expected during the First Phase of CORSIA (2024 – 2026).**
- Operators to make a decision on the mix of CORSIA Eligible Fuels and CORSIA Eligible Emissions Units used to address offsetting requirements.
- **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.**

Additional Information

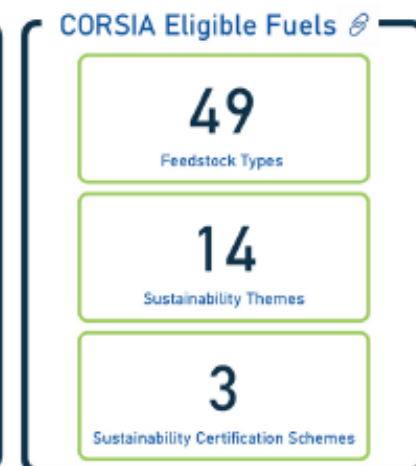
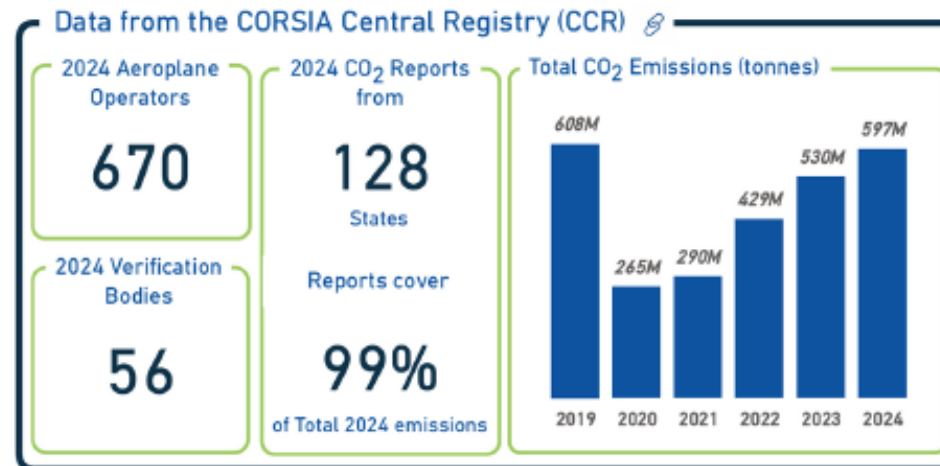
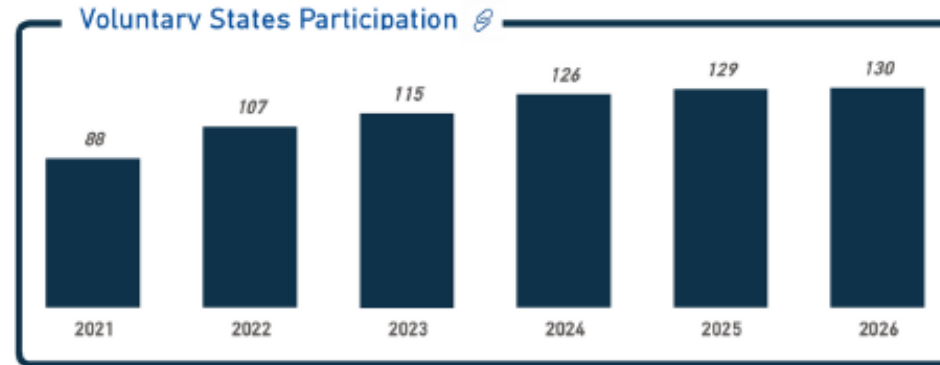
➤ CORSIA Homepage



➤ ICAO publishes monthly newsletters to update stakeholder on CORSIA Implementation



➤ CORSIA Frequently Asked Questions (FAQs)



The information presented here is based on the currently applicable editions of the ICAO documents for CORSIA implementation directly referenced in Annex 16, Volume IV and available on the ICAO CORSIA public website.

Thank You

