

REGIONAL GREEN AIRPORTS SEMINAR

Hosted by the Ministry of Transport of the Republic of
Uzbekistan

CORSIA Implementation





CORSIA

Blandine Ferrier
ICAO Environment Officer

International Civil Aviation Organization



United Nations Agency

Established in **1944**

Sets global standards and regulations for international civil aviation.

Support its **193 Member States** cooperate in managing and regulating international civil aviation

Support diplomatic and technical cooperation among States.

Enable a safe, secure, efficient, and environmentally responsible global aviation system.

Promote socio-economic development through air transport.

Develop and maintain Standards and Recommended Practices (SARPs) for aviation safety, security, efficiency, and environmental protection.

ICAO Strategic Plan (2026-2050)



**Every Flight is Safe
and Secure**



**Aviation is
Environmentally
Sustainable**



**Aviation Delivers
Seamless, Accessible, and
Reliable Mobility for All**



**No Country
Left Behind**



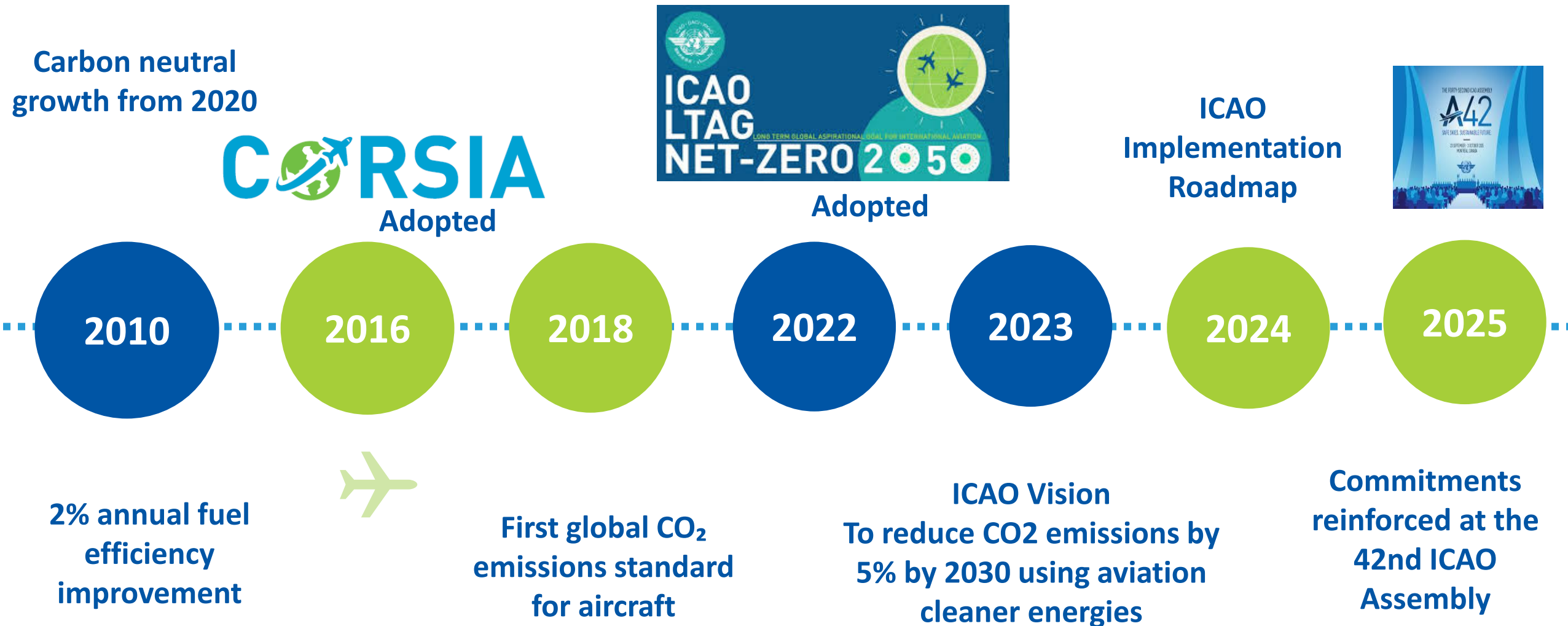
**The International Aviation
Convention and other
Treaties, Laws and
Regulations address all
Challenges**



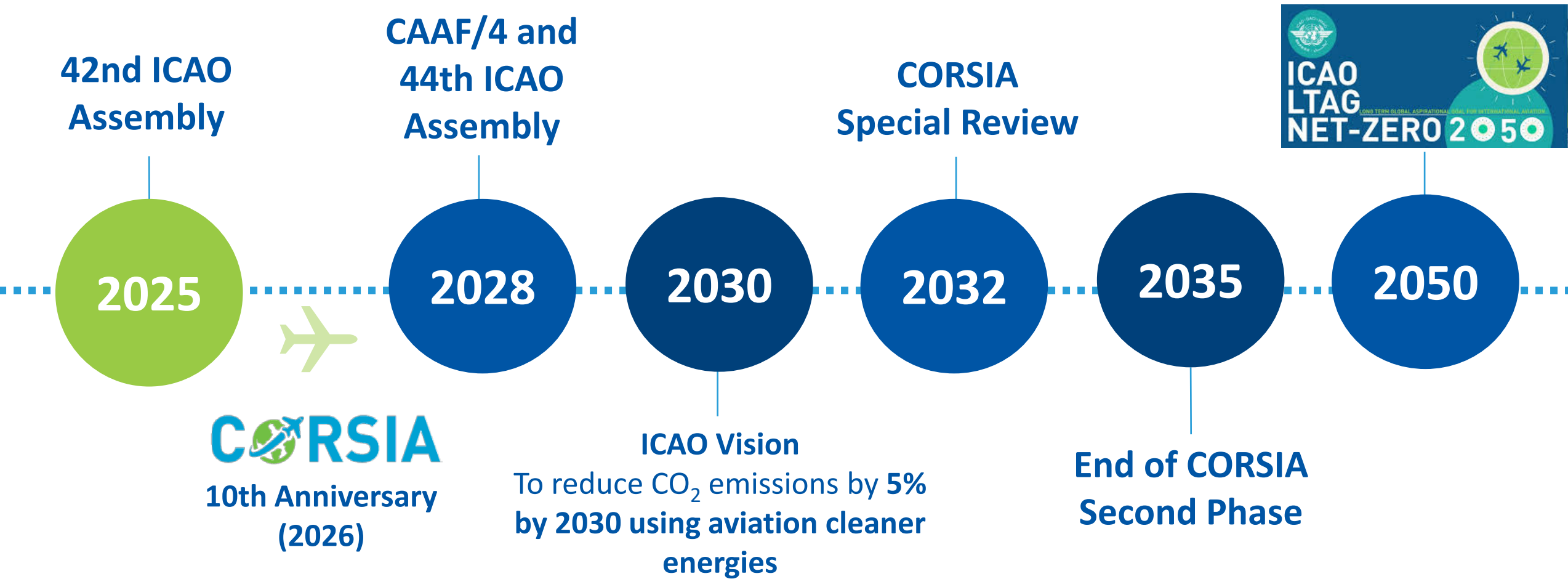
**The Economic Development
of Air Transport Assures the
Delivery of Economic
Prosperity and Societal Well-
Being for All**



ICAO Major Milestones in Environmental Protection



ICAO Major Milestones in Environmental Protection



1 Introduction

2 CORSlA Implementation Framework

3 CORSlA Implementation

4 ICAO ACT-CORSlA Programme

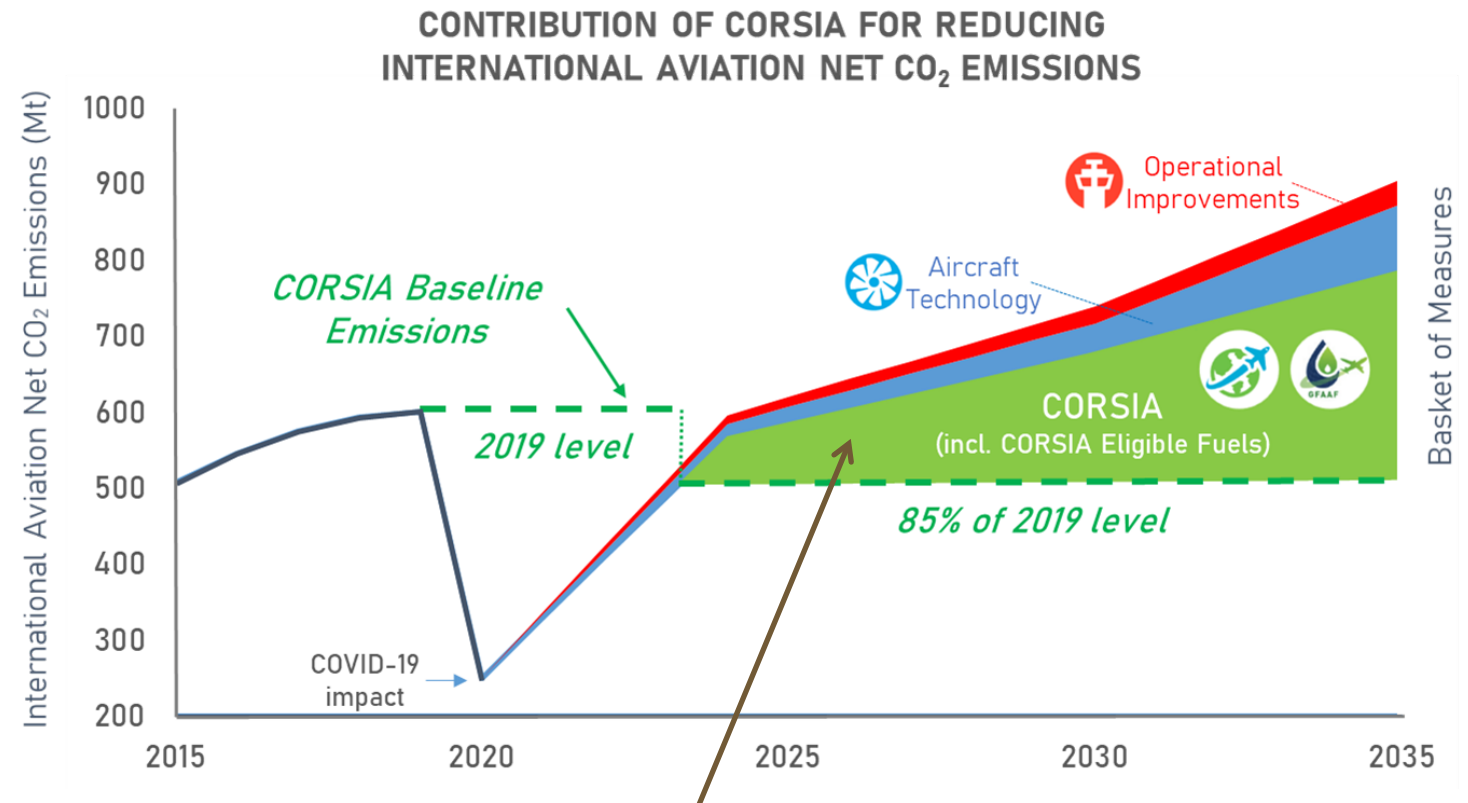
5 2025 CORSlA periodic review

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)

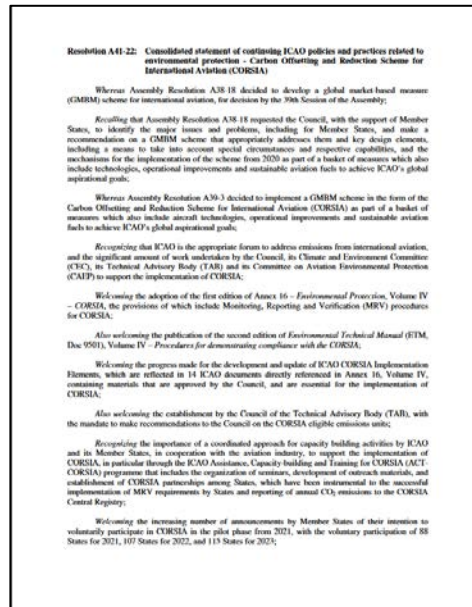


CORSIA addresses the remaining “emissions gap” to achieve CNG2020



CORSIA Implementation Framework

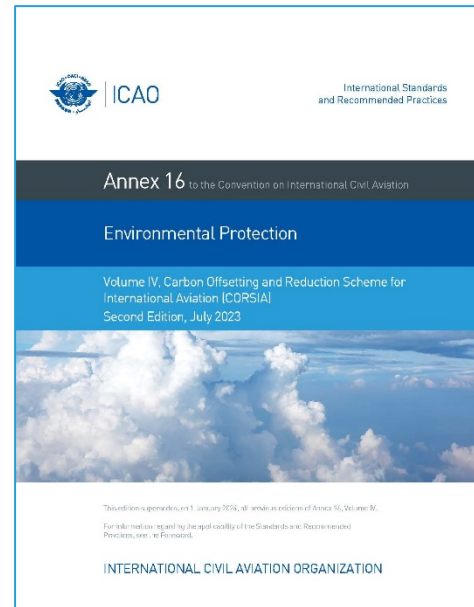
Assembly Resolution A42-22



Overall ICAO policy on
CORSIA

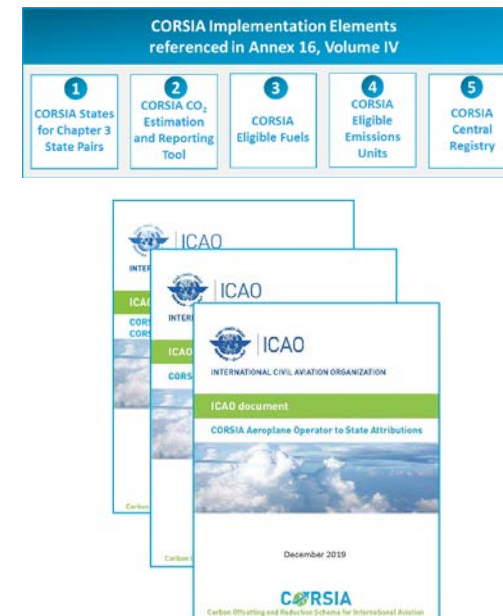
Annex 16, Volume IV (2nd edition)

*(current version up to 31 dec. 2026
Amendment 2 to edition 2 applicable from 1
Jan. 2027.)*



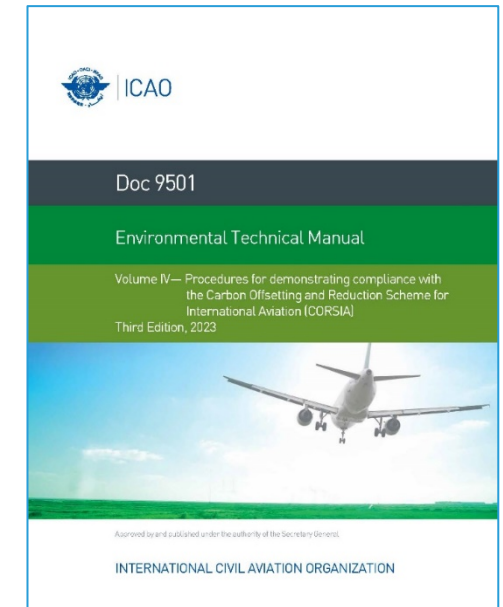
Standards and Recommended
Practices

CORSIA Implementation Elements and ICAO CORSIA documents



Essential information for CORSIA
implementation
(regularly updated)

Doc 9501 (ETM), Vol. IV (CORSIA) (4rd 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 Monitoring,
Reporting and Verification
(MRV) of CO₂ Emissions**

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



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

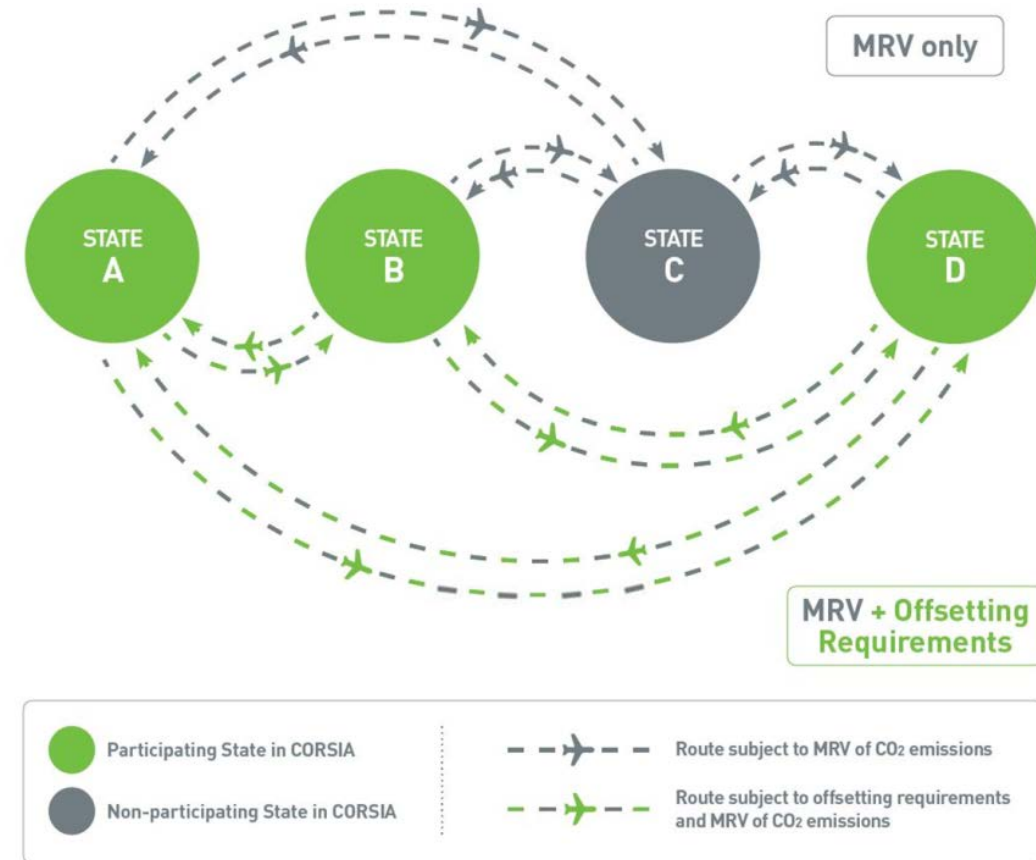
**Use of CORSIA Eligible
Emissions Units (CEU)**

CORSIA CO₂ MRV

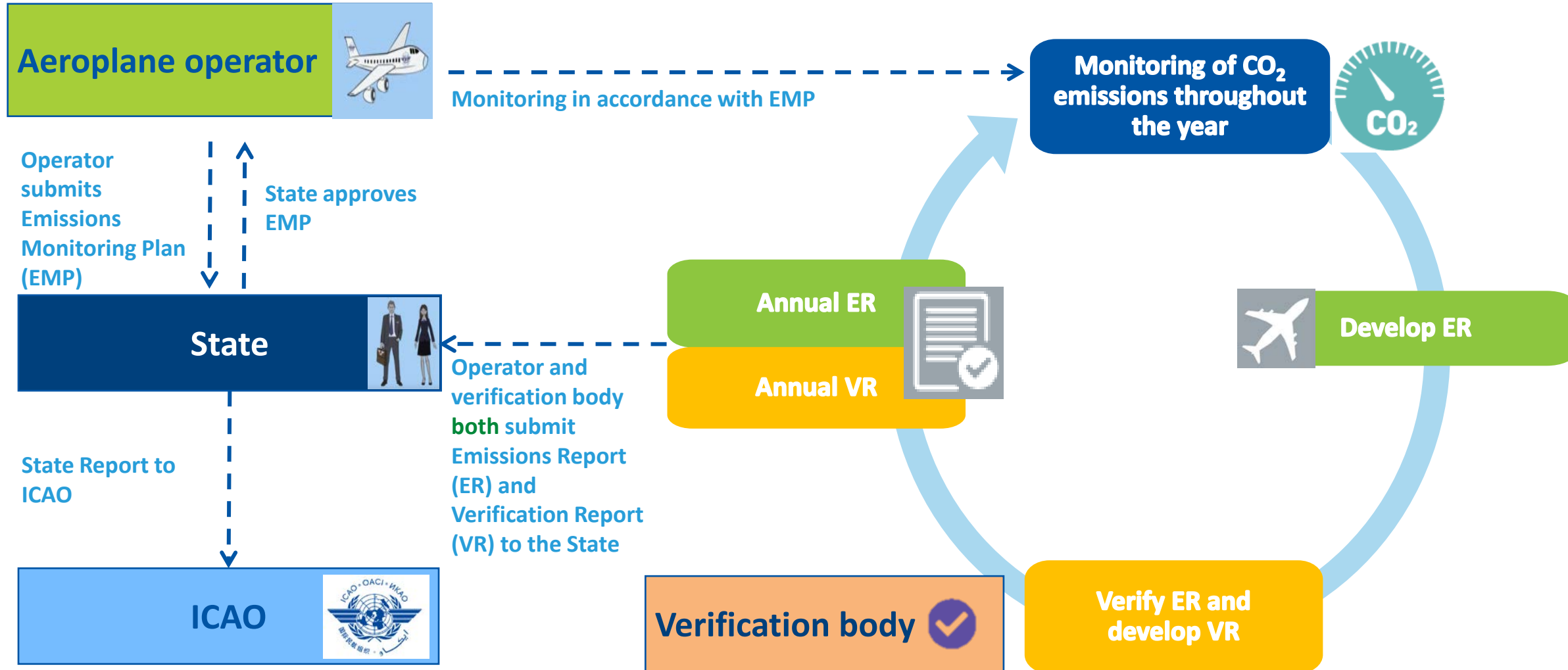
From 1 January 2019, all States with operators performing international flights have to establish a monitoring, reporting and verification (MRV) system for CO₂ emissions.

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



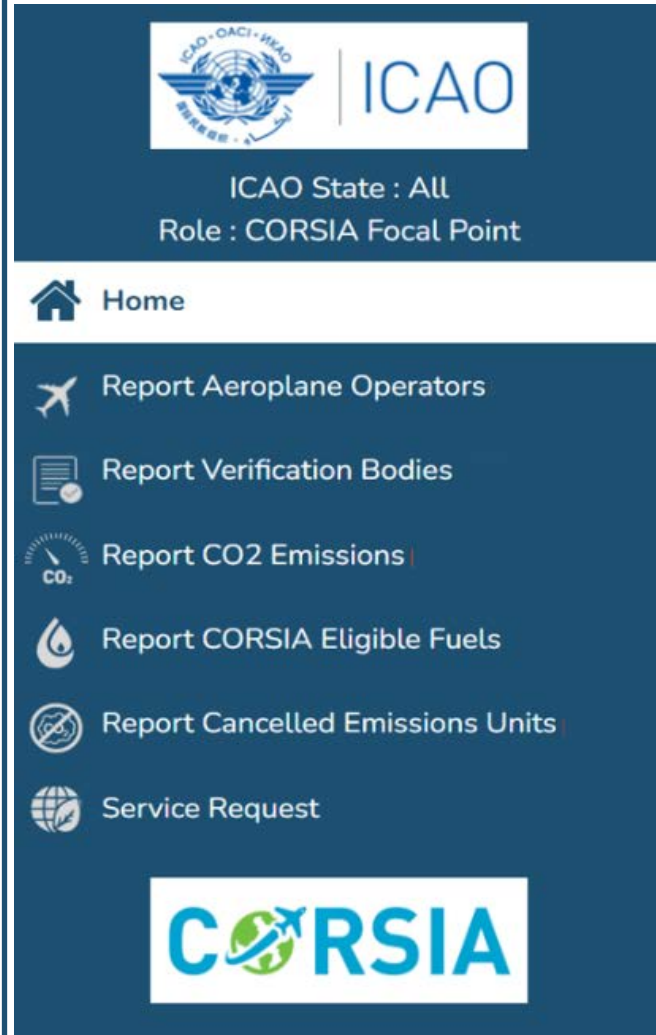
CORSIA CO2 MRV

- 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



173

States have
access to CCR

281

CCR Users
Accounts



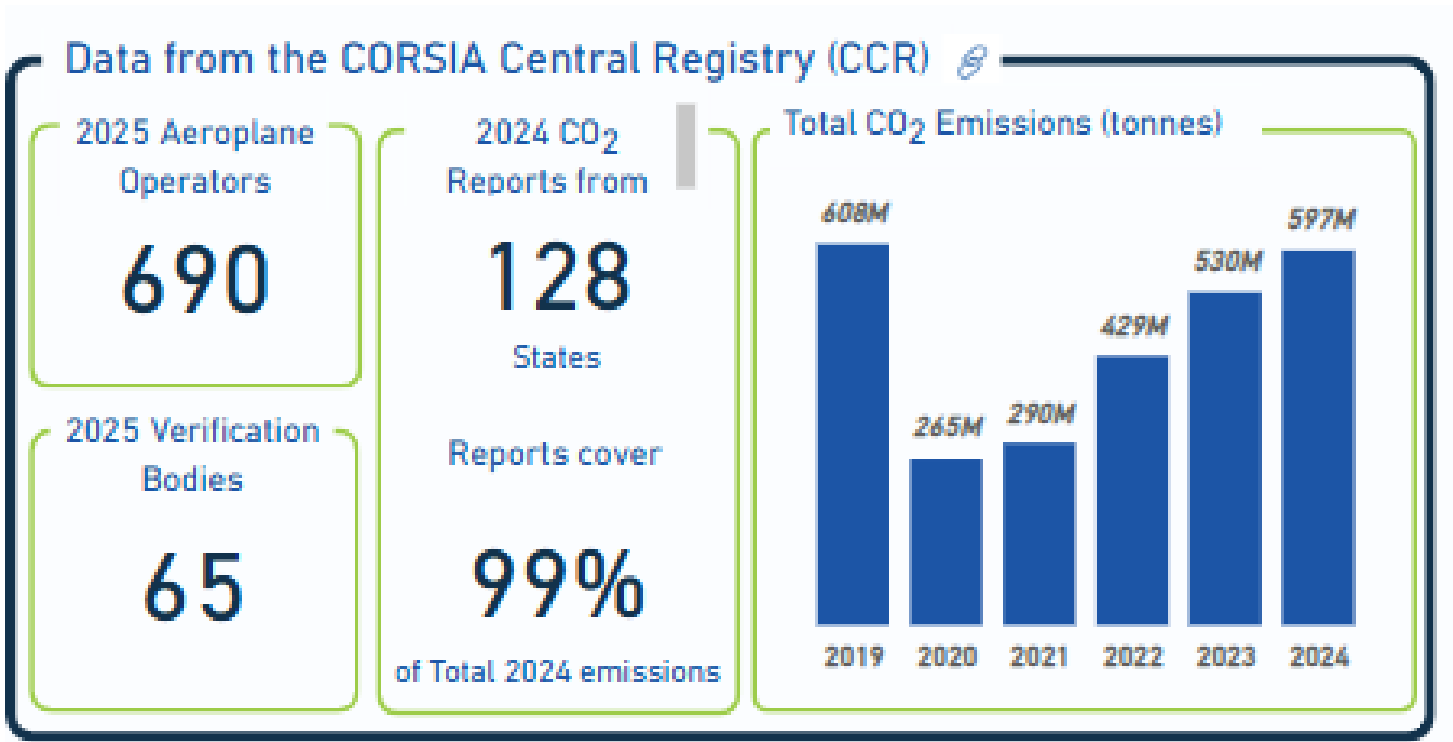
CORSA CO2 MRV

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

State Report	CORSA First Phase			CORSA 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)
CORSA 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 CEUs)	

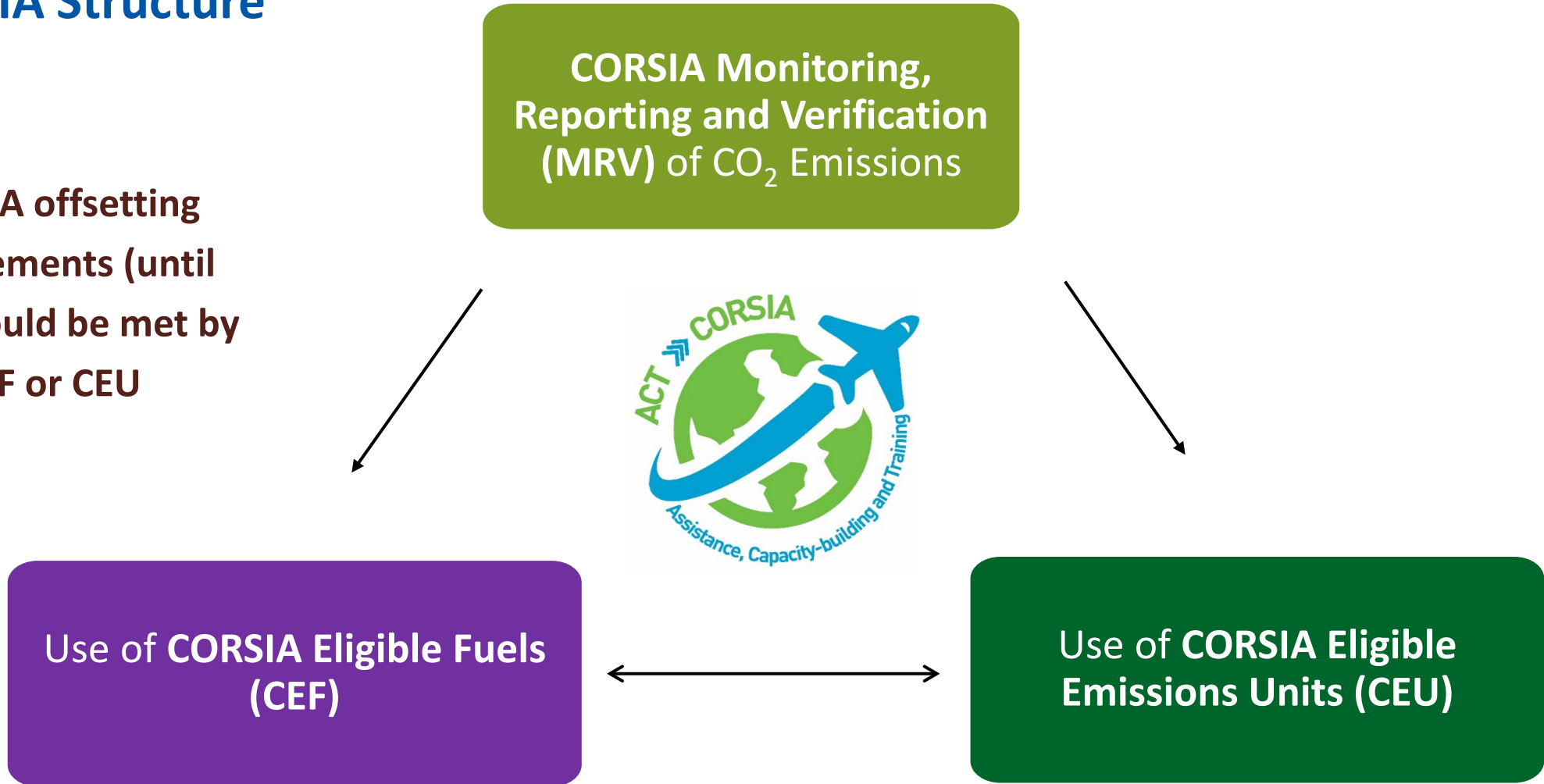
Overview of the Implementation of the CORSIA MRV System

In 2024, CORSIA’s Annual Sector Growth Factor was greater than zero for the first time since the start of CORSIA implementation (SGF2024=0.15405257)

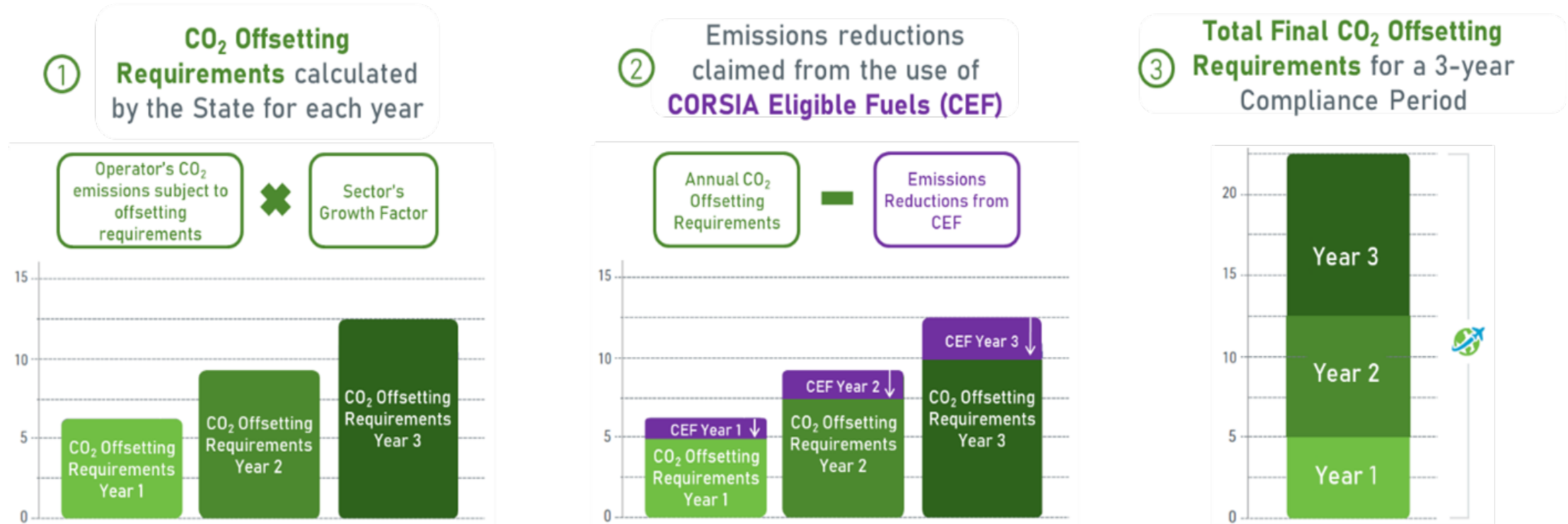


CORSIA Structure

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



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.

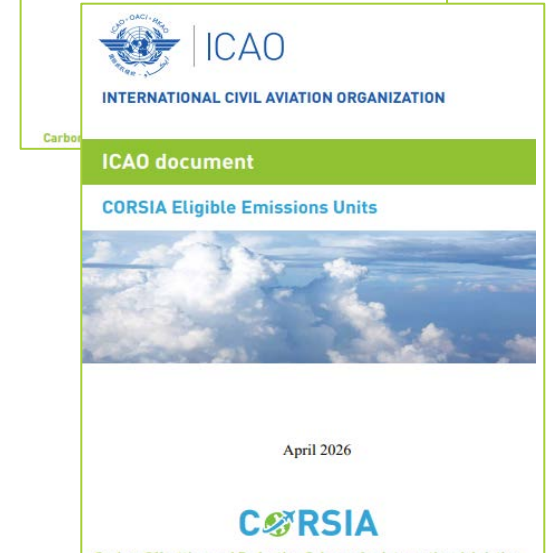
CEFs are either CORSIA sustainable aviation fuels (SAF) or CORSIA lower carbon aviation fuels (LCAF).

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



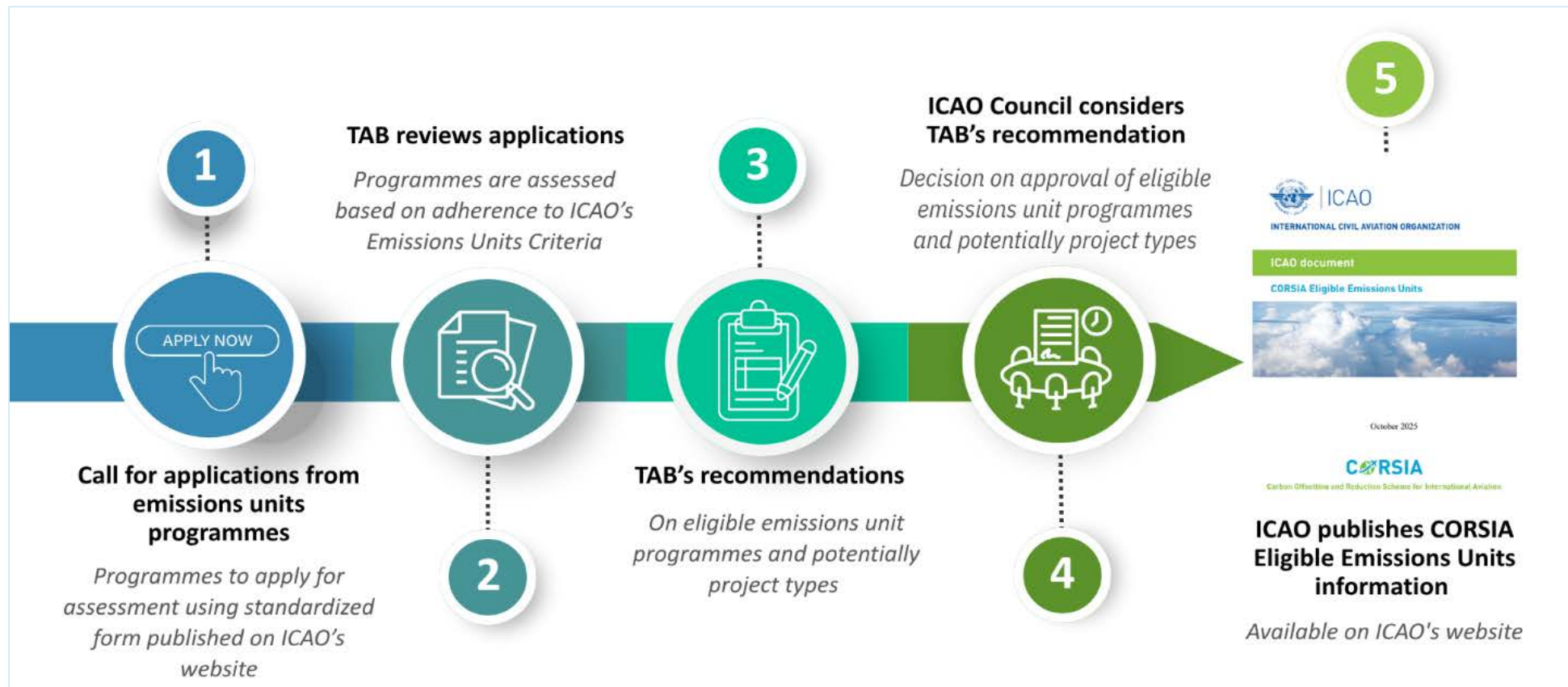
CORSIA Eligible Emissions Units

- **CORSIA Eligible Emissions Units (CEEUUs)** are ‘*carbon offsets*’ that have been approved by the ICAO Council, upon recommendation the Technical Advisory Body (TAB) for their use in CORSIA.
- **CEEUUs** 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 Units

ICAO process for approval of CORSIA Eligible Emissions Units



CORSIA Eligible Emissions Units Summary Table (April 2026)

Programme	2021 -2023 Compliance Period (Pilot Phase)	2024 -2026 Compliance Period (First Phase)	2027 – 2029 Compliance Period (in Second Phase)
American Carbon Registry	2016 – 2023 units ^{1,2}	2021 – 2026 units ^{1,2}	2021 – 2029 units ^{1,2}
Architecture for REDD+ Transactions	2016 – 2023 units ^{1,2}	2021 – 2026 units ^{1,2}	2021 – 2029 units ^{1,2}
BioCarbon Fund Initiative for Sustainable Forest Landscapes	2016 – 2020 units ¹	2021 – 2026 units ^{1,2}	
Cercarbono		Conditionally eligible ³	
China Certified Emission Reduction	2016 – 2020 units ¹		
Clean Development Mechanism	2016 – 2020 units ¹		
Climate Action Reserve	2016 – 2023 units ^{1,2}	2021 – 2026 units ^{1,2}	
Forest Carbon Partnership Facility	2016 – 2020 units ¹	2021 – 2026 units ^{1,2}	
Global Carbon Council	2016 – 2020 units ¹	2021 – 2026 units ^{1,2}	
Gold Standard	2016 – 2023 units ^{1,2}	2021 – 2026 units ^{1,2}	2021 – 2029 units ^{1,2}
Isometric		2021 – 2026 units ^{1,2}	
Joint Crediting Mechanism between Japan and Mongolia	Conditionally eligible ³		
SOCIALCARBON	2016 – 2020 units ¹		
Thailand Voluntary Emission Reduction Programme		2021 – 2026 units ^{1,2}	
Verra Verified Carbon Standard / Jurisdictional Nested REDD Programme	2016 – 2023 units ^{1,2}	2021 – 2026 units ^{1,2}	2021 – 2029 units ^{1,2}

Note: All Eligible Emissions Units must be generated from an activity that started its first crediting periods in 2016 or later.

¹ Subject to various exclusions as set out in the relevant section of the ICAO document titled “*CORSIA Eligible Emissions Units*”.

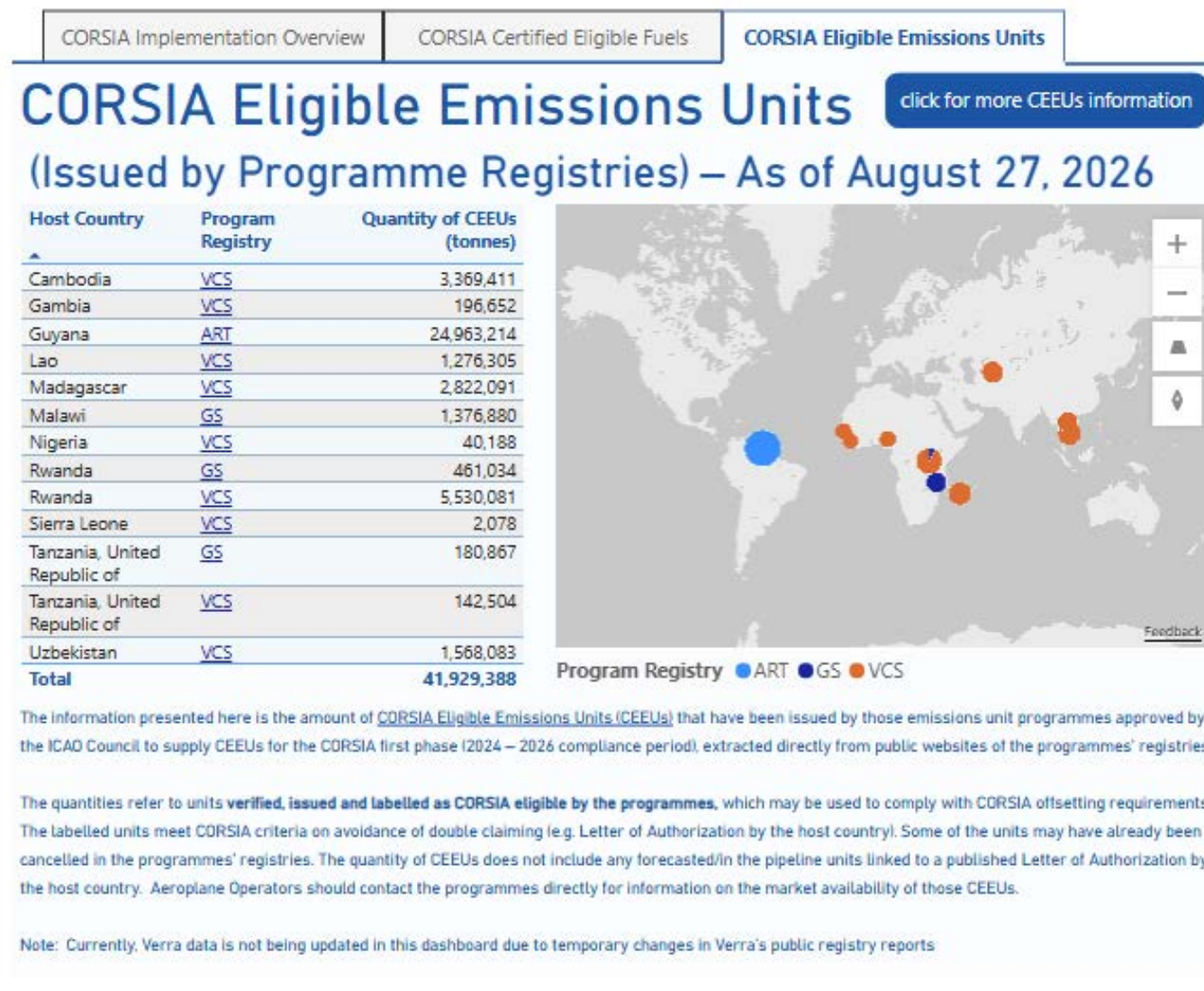
² Units with vintages from 2021 onward have specific requirements relating to host-Party attestations.

³ Pending further actions by the Programme.

More information available at: <https://www.icao.int/CORSIA/corsia-eligible-emissions-units>

CORSIA Eligible Emissions Units Dashboard

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



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 Eligible Fuels

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

Last Update: June/2026

- 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	Fourth Edition, June 2026	Fourth Edition, June 2025	Eighth Edition, November 2025	Seventh Edition, November 2025

CORSIA Eligible Fuels

Feedstocks recognized in CORSIA

2026

57

2022

42

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



0 Extensive standard updates in 2025

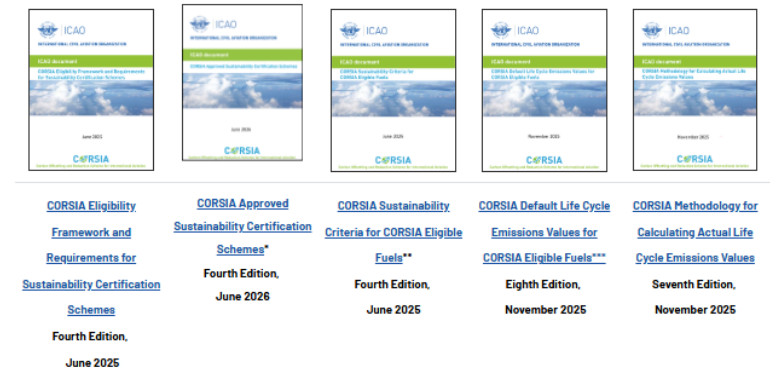
- 0 Electricity Sourcing
- 0 Carbon capture and Storage
- 0 Soil Carbon Accumulation
- 0 Multicropping

0 4 Sustainability Certification Schemes (Bonsucro in June 2026)

0 Ongoing evaluation of LCAF certification (ISCC)

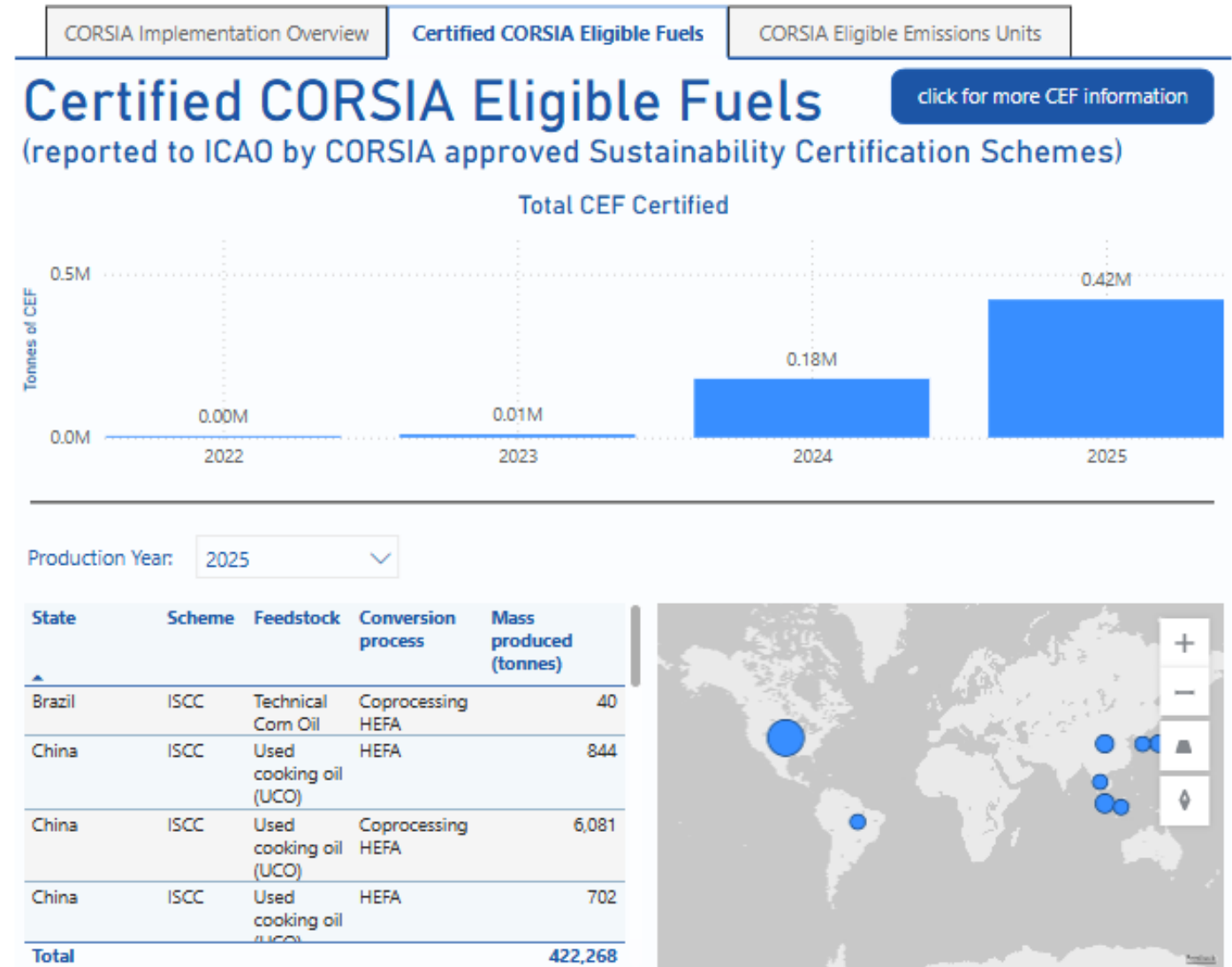
0 Five ICAO documents containing the information needed to claim emissions reductions from the use of CORSIA Eligible Fuels

Last Update: June/2026



CORSIA Eligible Fuels Dashboard

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





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

ACT  CORSIA  Phase III Assistance, Capacity-building and Training on CORSIA			
Australia Brunei Darussalam Nauru Papua New Guinea Sri Lanka Thailand	Canada/France Benin Burkina Faso Burundi Cameroon Central African Republic Chad Comoros Congo Côte d'Ivoire D. R. of Congo Djibouti Gabon Guinea Madagascar Mali Mauritania Mauritius Niger Senegal Togo	Kenya Eritrea Rwanda Somalia Nigeria Gambia Ghana Liberia Sierra Leone Sudan Qatar Bahrain Iran Iraq Jordan Kuwait Libya Oman Republic of Korea Lao People's D. R. Mongolia Pakistan Philippines Vietnam Singapore Cook Islands Kiribati Marshall Islands Nepal Palau Tonga Tuvalu	South Africa Botswana Eswatini Lesotho Malawi Namibia Zambia Zimbabwe Spain (facilitated by CODESNA) Bolivia Belize* Colombia Costa Rica* Cuba Equatorial Guinea Guatemala* Honduras* Mexico Nicaragua* Peru Paraguay El Salvador* Uruguay United Kingdom Bahamas Chile Timor-Leste United States Argentina Dominican Republic Ecuador Panama
Brazil Angola Cabo Verde Mozambique Sao Tome and Principe	Canada (facilitated by CAS909) Antigua and Barbuda Barbados Dominica Grenada Guyana Haiti Jamaica Saint Kitts and Nevis Saint Lucia Saint Vincent and the Grenadines Suriname Trinidad and Tobago	Japan Bangladesh Bhutan Cambodia Malaysia Myanmar	
France (facilitated by ACI) Algeria Morocco Tunisia	Kenya/United Kingdom Ethiopia Seychelles South Sudan Uganda United Republic of Tanzania		
Germany Albania Armenia Azerbaijan Belarus Georgia Kazakhstan North Macedonia Republic of Moldova Saudi Arabia Serbia Tajikistan Turkmenistan	Indonesia Fiji Samoa Solomon Islands Vanuatu		
 16 SUPPORTING STATES 125 REQUESTING STATES			

ICAO Global Aviation Training Programme

- **CORSIA Verification Course**
(updated in March 2026)
- **Three CORSIA-specific workshops**
(available in the second half of 2026)
 - CORSIA Overview
 - CORSIA Eligible Fuels
 - CORSIA Eligible Emissions Units





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.
- First 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.**

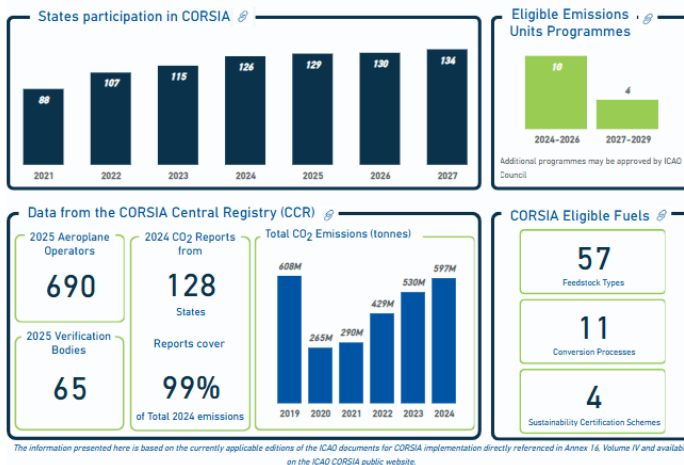
Pilot Phase			First Phase			Second Phase								
2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Periodic Review #1			Periodic Review #2			Periodic Review #3			Periodic Review #4					
A41			A42			A43			A44			A45		

To conclude

ICAO Assembly, A42-22, paragraph 18:

“Determines that the CORSIA is the only global market-based measure applying to CO₂ emissions from international aviation so as to avoid a possible patchwork of duplicative State or regional MBMs, thus ensuring that international aviation CO₂ emissions should be accounted for only once”

CORSIA Implementation Overview



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

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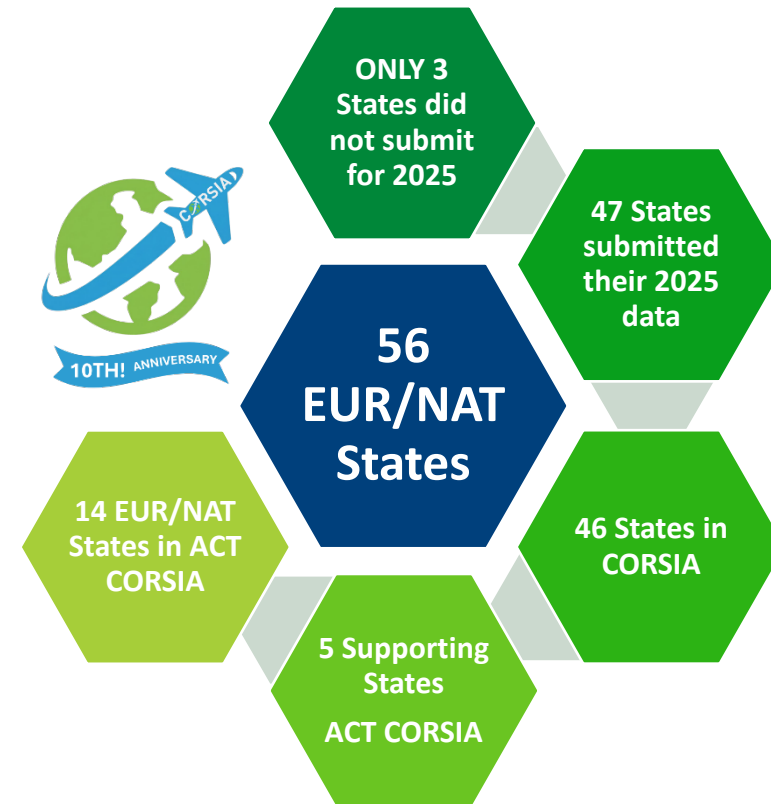
States participating in CORSIA in 2027

CORSIA Eligible Emissions Units (Issued by Programme Registries) – As of August 27, 2026

Host Country	Program Registry	Quantity of CEEUs (tonnes)
Cambodia	VCS	3,369,411
Gambia	VCS	196,652
Guyana	ART	24,963,214
Lao	VCS	1,276,305
Madagascar	VCS	2,822,091
Malawi	GS	1,376,880
Nigeria	VCS	40,188
Rwanda	GS	461,034
Rwanda	VCS	5,530,081
Sierra Leone	VCS	2,078
Tanzania, United Republic of	GS	180,867
Tanzania, United Republic of	VCS	142,504
Total		41,929,388

Program Registry: ART (blue dot), GS (green dot), VCS (orange dot)

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



Thank You

