Update on Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) and its Implementation



March 2023



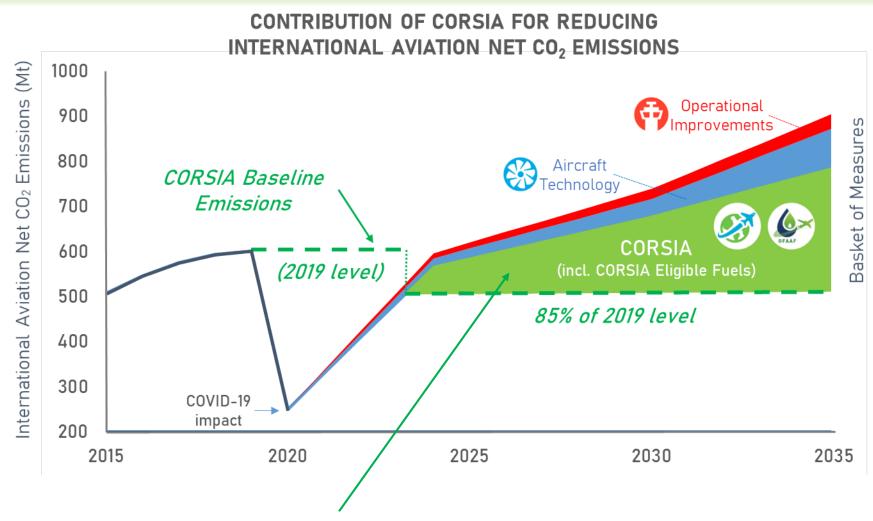






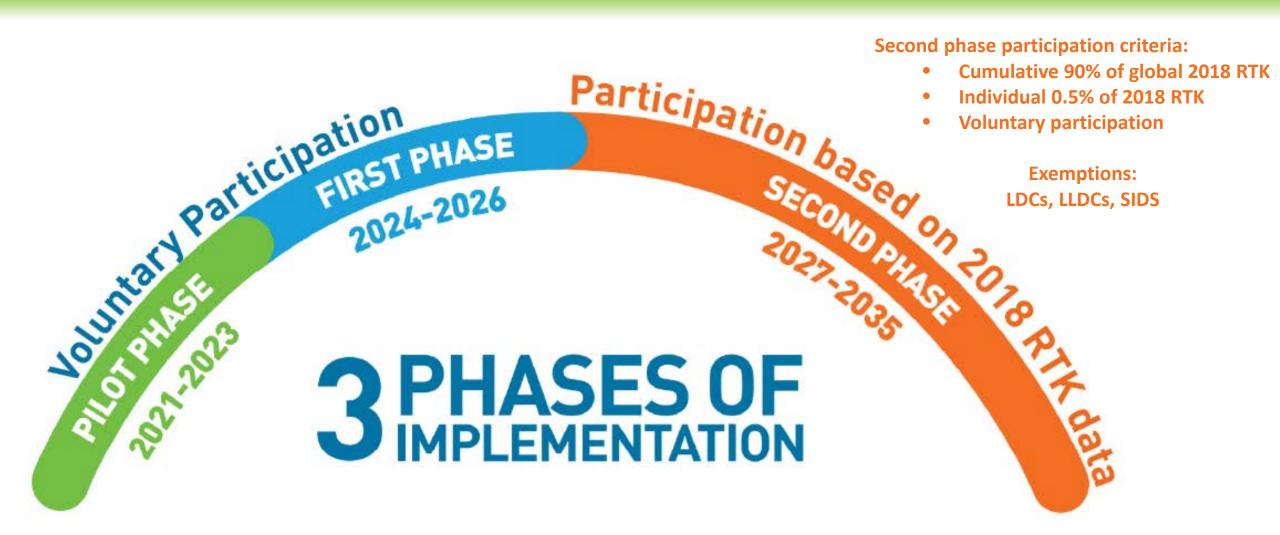






CORSIA addresses the remaining "emissions gap" to achieve Carbon Neutral Growth 2020

CORSIA Phased Implementation



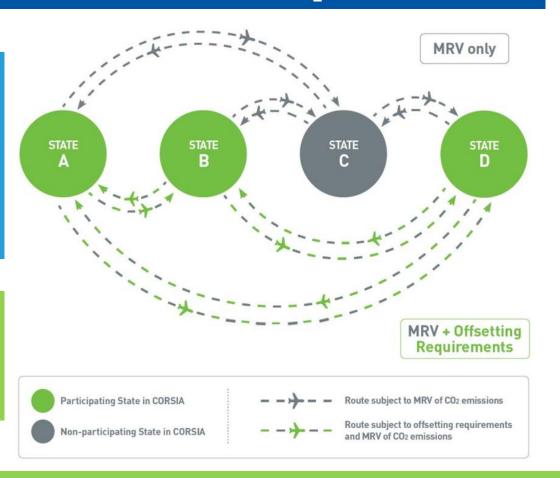
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CORSIA CO₂ MRV Requirements

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, 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



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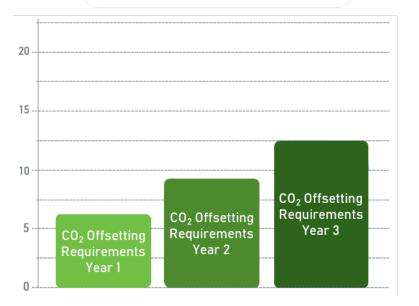




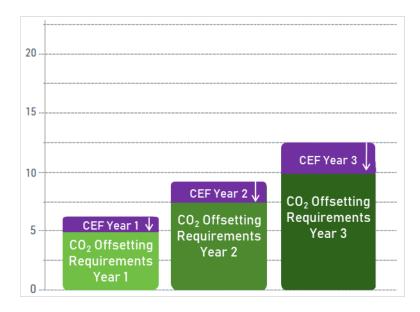
ENVIRONMENT CORSIA Eligible Fuels and Offsetting Requirements

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

CO2 Offsetting Requirements calculated by the State for each year



Emissions reductions claimed from the use of CORSIA Eligible Fuels (CEF)



Total Final CO₂ Offsetting Requirements for a 3-year Compliance Period





CORSIA Eligible Emissions Units and Offsetting Requirements

To fulfil its CORSIA offsetting requirements for a compliance period, an aeroplane operator must *purchase and cancel* CORSIA eligible emissions units (CEUs) equivalent to its **total final CO₂ offsetting requirements** (see previous slide):

- CEUs are generated by eligible CEU programmes that meet the CORSIA eligibility criteria (A)
- Operators purchase CEUs from the international carbon market (B)
- The cancellation of CEUs takes place within a registry designated by an eligible CEU programme (**C**)
- For transparency, cancellations are to be published on
 the registry's public website (D)



https://www.icao.int/environmental-protection/CORSIA/Pages/CORSIA-Emissions-Units.aspx

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Assembly Resolution A41-22 (CORSIA)

Based on the recommendations by the ICAO Council from the 2022 CORSIA review, the 41st Session of the ICAO Assembly adopted:

- Adjustments to CORSIA baseline emissions:
 - For pilot phase (2021 2023): 2019 CO₂ emissions (as per Council decision in June 2020)
 - From 2024 onwards: 85% of 2019 CO₂ emissions
- Changes to the percentage use of sectoral and individual operator's growth factors for the calculation of CORSIA offsetting requirements:
 - 100% sectoral and 0 % individual for 2021 2032
 - 85 % sectoral and 15% individual for 2033 2035



Use of 2019 emissions to determine new entrants



ENVIRONMENT CORSIA Periodic Review

- Periodic review of CORSIA every three years First 2022 review was completed prior to A41
- Allows the Council to make informed decisions on whether it is necessary to make adjustments to the next phase(s) of the scheme
- Special review by end of 2032 on termination of the scheme, its extension or any other improvements of the scheme beyond 2035
- At the request of A41, the Council to develop a methodology and timeline for future reviews

	Pilot Phase	9	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				
A41			A42			A43			A44		Review		A45	





2 CORSIA Implementation Updates



ICAO ENVIRONMENT

CORSIA Implementation Package



Assembly Resolution A41-22

Resolution A41-22: Consolidated statement of continuing ICAO policies and practices related to environmental protection - Carbon Offsetting and Reduction Scheme for International Astribus (COESIA)

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

Reculting that Assembly Recultation AVI. It requested the Council, with the support of Monders, no identify the major issues and problem, including for Monter's Store, and make a recommendation on a CMIMA scheme that appropriately addresses them and key design clements, including a means to take into account proceed circumstances and respective capabilities, and the machasisms for the implementation of the scheme from 2000 as part of a backet of measures which show the contraction of the scheme from 2000 as part of a backet of measures which show the contraction of the scheme from 2000 as part of a backet of measures which show the contraction factors active EVAV's global and the contraction factors active EVAV's global and the contraction of the scheme from 2000 as part of a backet of measures which are contracted in the contraction of the scheme for the contraction of the contraction of the scheme for the contraction of the contraction of the scheme for the contraction of the scheme for the contraction of the contraction of the scheme for the scheme for the scheme for the contraction of the scheme for the sche

Whereas Assentity 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 sostainable aviation facts to achieve ICAVs global apportunisal goals;

Recognizing that ICAO is the appropriate forum to address emissions from international aviation, and the significant amount of work undertaken by the Concell, its Climate and Environment Committee (CFC), its Technical Advisory Rody (TAR) and its Committee on Aviation Environmental Protection (CAIP) to support the implementation of CORSIA;

Welcoming the adoption of the first odition of Annex 16 - Environmental Protection, Volume IV - CORSA, the provisions of which include Monitoring, Reporting and Verification (MRV) procedures for CORSAs.

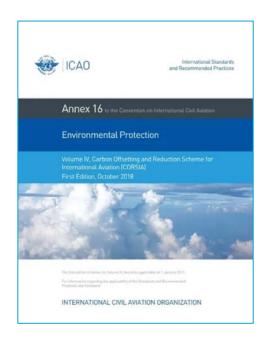
Also welcoming the publication of the second edition of Environmental Technical Manual (ETM,

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 ecoemial for the implementation of CIRSIA;

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;

Recognising the importance of a coroflusted approach for capacity building activities by ICAO and its Monther States, in cooperation with the aristion industry, to support the implementation of DISBA in particular through the ICAO colonistence, Coughly industring and Training for DISBA (ACT-CORSIA) programme that industring the CAO colonistence Coughly industring and Training for DISBA (ACT-CORSIA) programme arisenge (SAO). A particurally among States, which have been instrumed in the according implementation of MEV requirements by States and reporting of annual CV₂ ensistation to the CORSIA Central Registery.

Welcoming the increasing number of autoconcensents by Member States of their intention to voluntarily participate in CORSIA in the gibt phase from 3021, with the voluntary participation of 88 States for 2021, 107 States for 2022, and 118 States for 20224; Annex 16, Volume IV (1st edition)



2nd edition expected in 2023

Doc 9501 (ETM), Vol.

IV (CORSIA)

(2nd edition)



3rd edition expected in 2023

CORSIA Implementation Elements and ICAO CORSIA documents

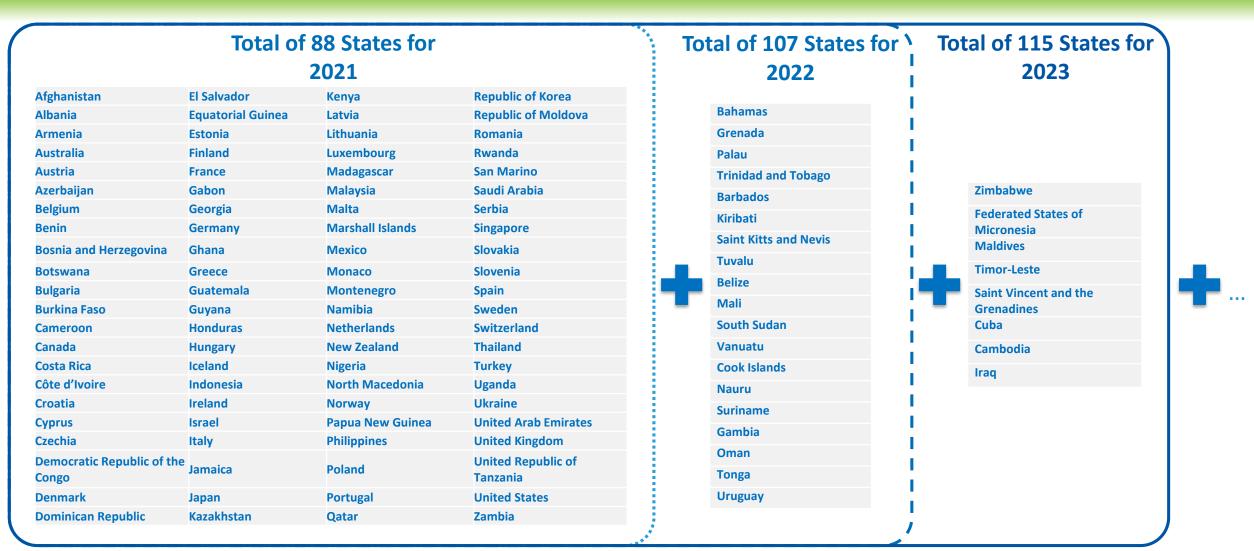




Regularly updated



ICAO ENVIRONMENT CORSIA Volunteer States for Pilot Phase



Available here: https://www.icao.int/environmental-protection/CORSIA/Pages/state-pairs.aspx



ENVIRONMENT More CORSIA Volunteer States for First Phase

 The 41st ICAO Assembly strongly encouraged all States to voluntarily participate in the pilot phase and the first phase (A41-22, paragraph 9 c))

 Sierra Leone, Seychelles and Solomon Islands are the latest States to announce their voluntary participation in CORSIA from 2024, bringing the total number of volunteer States to 118



- More States are expected to join CORSIA from 1 January 2024:
 - Deadline for informing ICAO: 30 June 2023

ICAO ENVIRONMENT CORSIA in Numbers

CORSIA Participation

118

Volunteer States

CORSIA Eligible **Emissions Units**

Eligible **Emissions Units** Programs¹

CORSIA Eligible Fuels

43

Feedctock Types

14

Sustainability

Themes²

Conversion Processes

Sustainability Certification Schemes¹

CORSIA Central Registry

608

Mtonnes of 2019 CO₂ Emissions³ 289

Mtonnes of 2021 CO₂ Emissions³

625

Aeroplane Operators 54

Verification **Bodies**

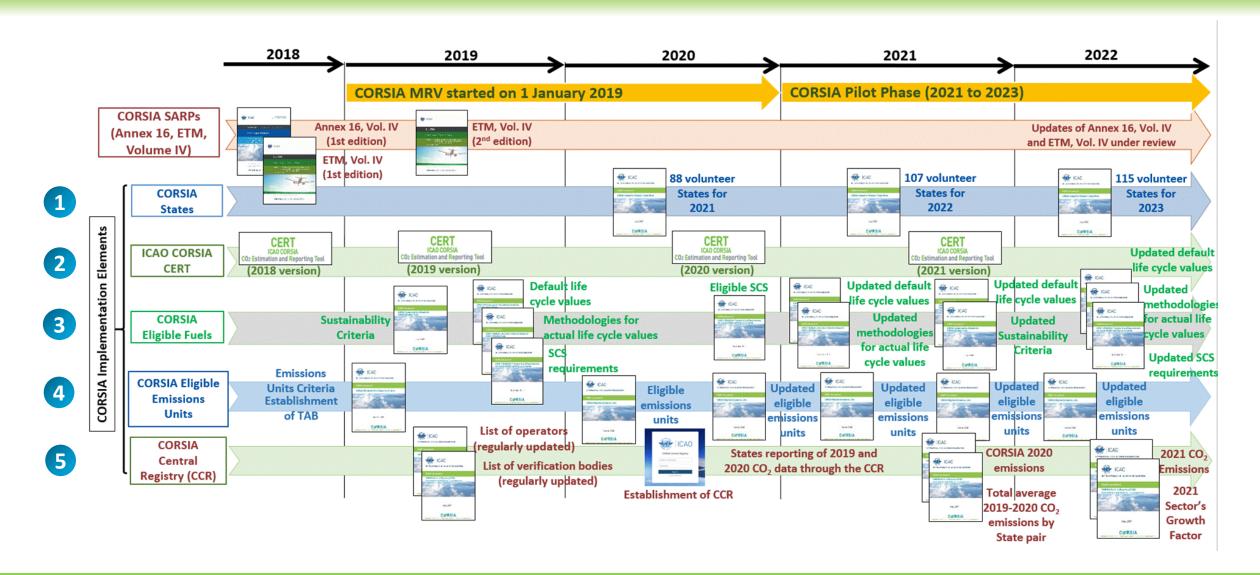
¹ For the Pilot phase (2021-2023)

² From 2024 onwards (2 Sustainability Themes applicable for the Pilot phase)

³ Totals include CO₂ emissions submitted by States through the CCR and emissions provided by ICAO to fill the emissions gaps

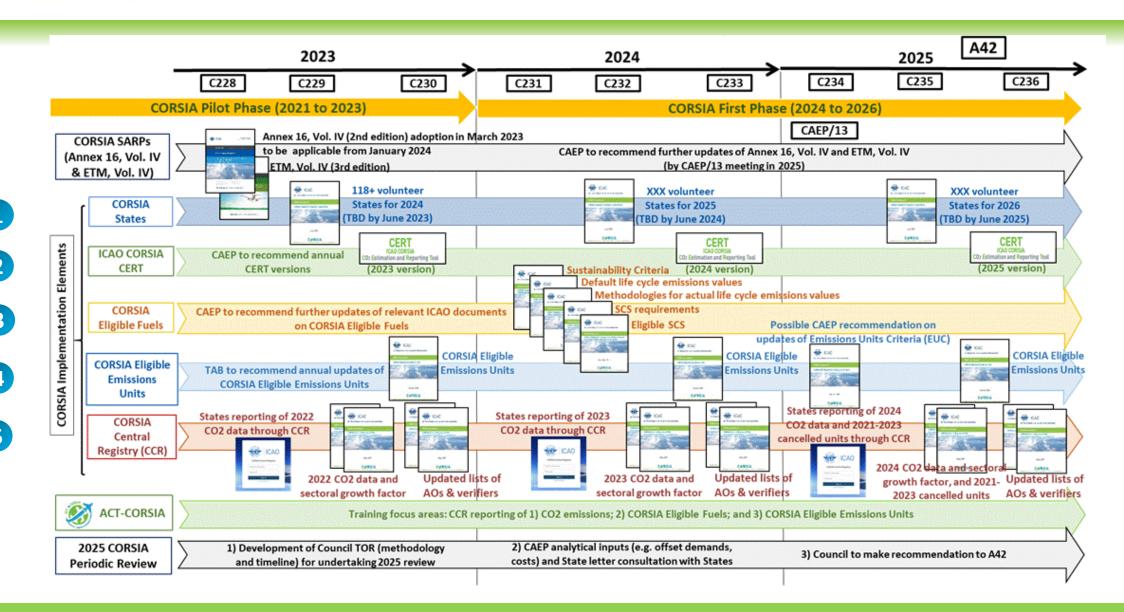


ICAO ENVIRONMENT CORSIA Implementation on Track





ICAO ENVIRONMENT 2023 to 2025 CORSIA Roadmap









ICAO ENVIRONMENT ACT-CORSIA Programme

- Since the launch in July 2018, the ICAO ACT-CORSIA (Assistance, Capacity-building and Training for CORSIA) Buddy Partnerships have proven to be an extremely successful modality
 - Training and assistance to support requesting States on various aspects of CORSIA implementation.

Measure of success: More than 96% of global CORSIA CO₂ emissions having been submitted annually by States through the CORSIA Central Registry (CCR) for the period 2019-2021.

ICAO ENVIRONMENT Coordinated / Tailored Approach

- In the context of ACT-CORSIA Buddy Partnerships, requesting States have benefited in different ways given the different levels of preparedness and readiness amongst them.
- Continue to consider and identify:
 - specific needs of requesting States;
 - appropriate measures to improve the effectiveness of the training activities; and
 - ways to adjust the delivery of training by offering tailored solutions, while maintaining the overall coordinated approach as per the request of the ICAO Assembly/Council.



ENVIRONMENT 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 - 2023): 17 supporting States and 119 requesting States

Use of the CORSIA Central Registry (CCR)

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.



