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CORSIA MRV Requirements

ICAO Secretariat



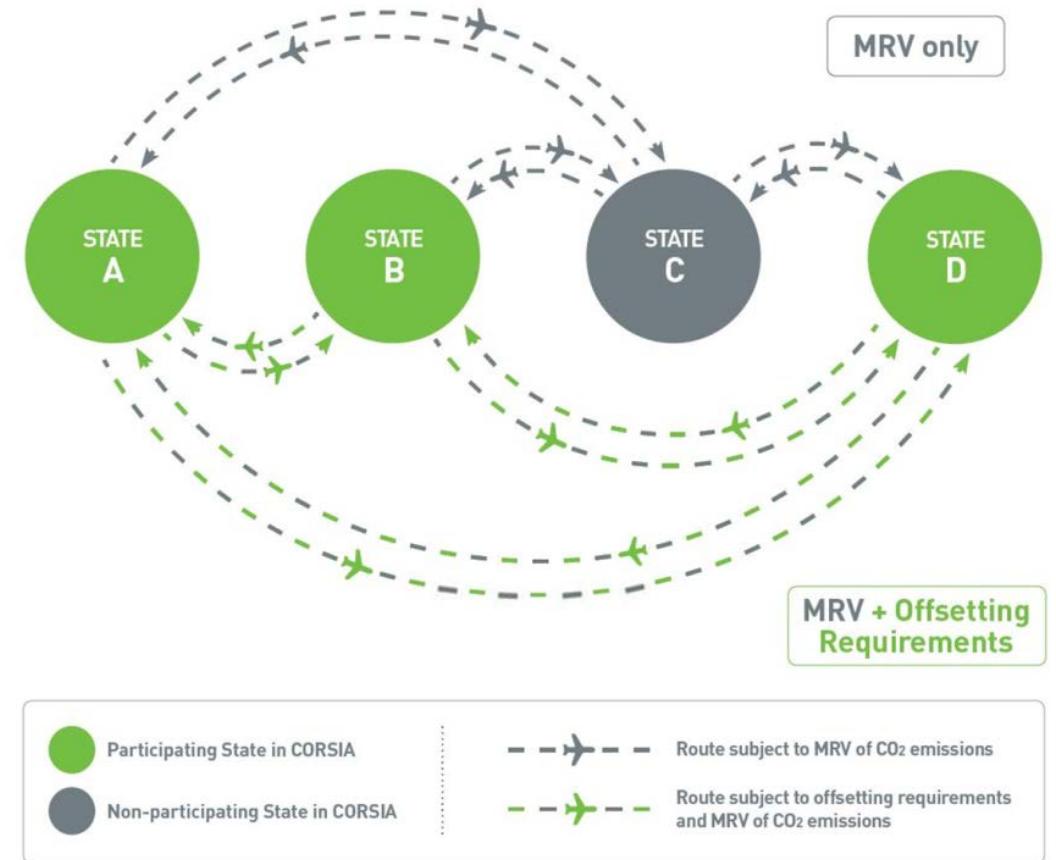
C  **RSIA**

CORSIA MRV Requirements

From 1 January 2019...

All operators that meet the SARPs requirements performing international flights have to undertake MRV for CO₂ emissions

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



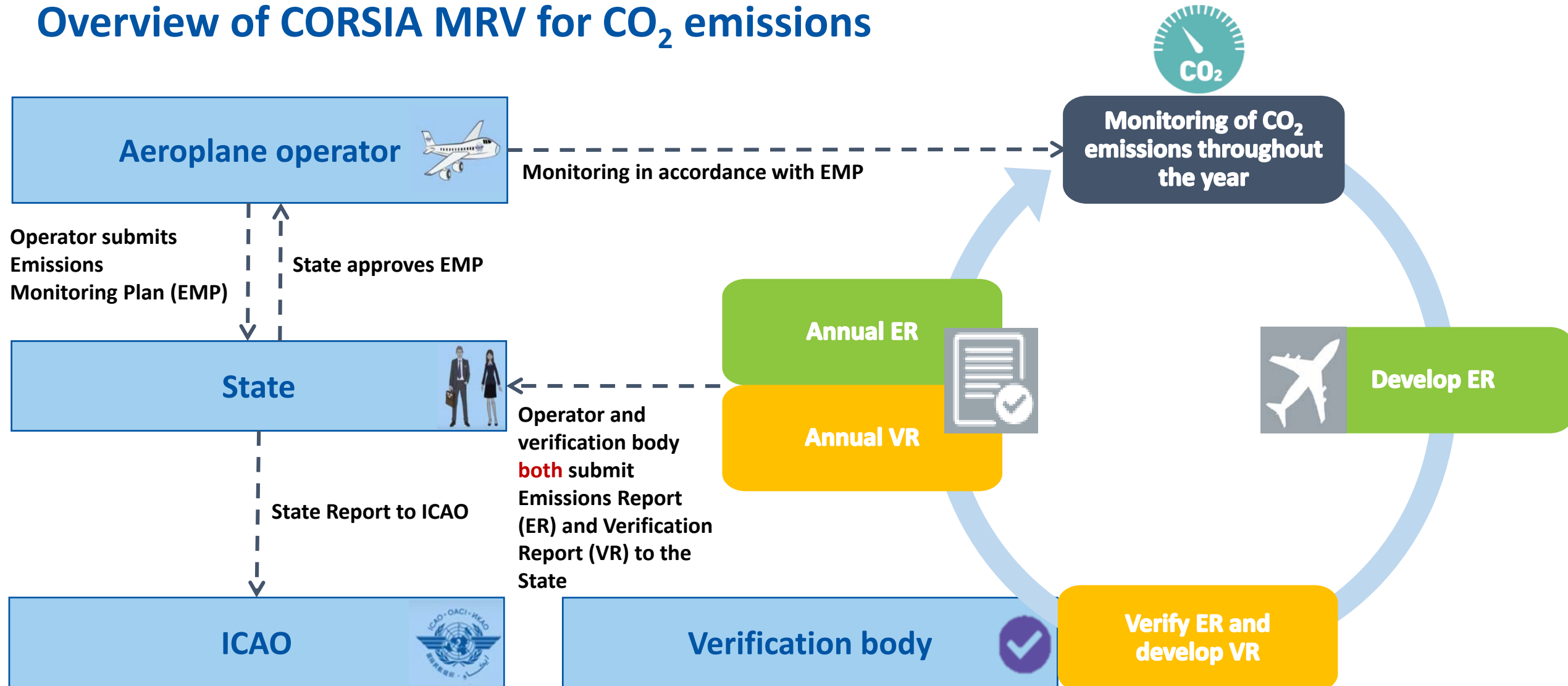
CORSIA MRV Requirements

- Under CORSIA, the MRV of CO₂ emissions has to be undertaken if these are generated:
 - From an operator that produces annual CO₂ emissions greater than 10,000 tonnes
 - From international operations on or after 1 January 2019
 - From the use of an aeroplane with a maximum certificated take-off mass of greater than 5,700 kg
 - With the exception of humanitarian, medical and firefighting operations

Reference: Annex 16, Volume IV, Part II, Chapter 2, 2.1

CORSIA MRV system— Overview

Overview of CORSIA MRV for CO₂ emissions



States' Reporting Requirements



List of attributed aeroplane operators



List of accredited verification bodies



CO₂ emissions



CORSIA eligible fuels



Cancelled emissions units

Timing of Reporting

Information type	Baseline		Pilot Phase			First Phase		
	2019	2020	2021	2022	2023	2024	2025	2026
Aeroplane Operators	✓	✓	✓	✓	✓	✓	✓	✓
Verification Bodies	✓	✓	✓	✓	✓	✓	✓	✓
CO ₂ Emissions		✓ <i>2019 data</i>	✓ <i>2020 data</i>	✓ <i>2021 data</i>	✓ <i>2022 data</i>	✓ <i>2023 data</i>	✓ <i>2024 data</i>	✓ <i>2025 data</i>
CORSIA Eligible Fuels*		<i>Optional</i> <i>2019 data</i>	<i>Optional</i> <i>2020 data</i>	✓ <i>2021 data</i>	✓ <i>2022 data</i>	✓ <i>2023 data</i>	✓ <i>2024 data</i>	✓ <i>2025 data</i>
Cancelled Emissions Units							✓ <i>2021-2023</i> <i>data</i>	

* *Information can be reported annually or once at the end of each three-year cycle.*

Data Gaps – CO₂ Emissions

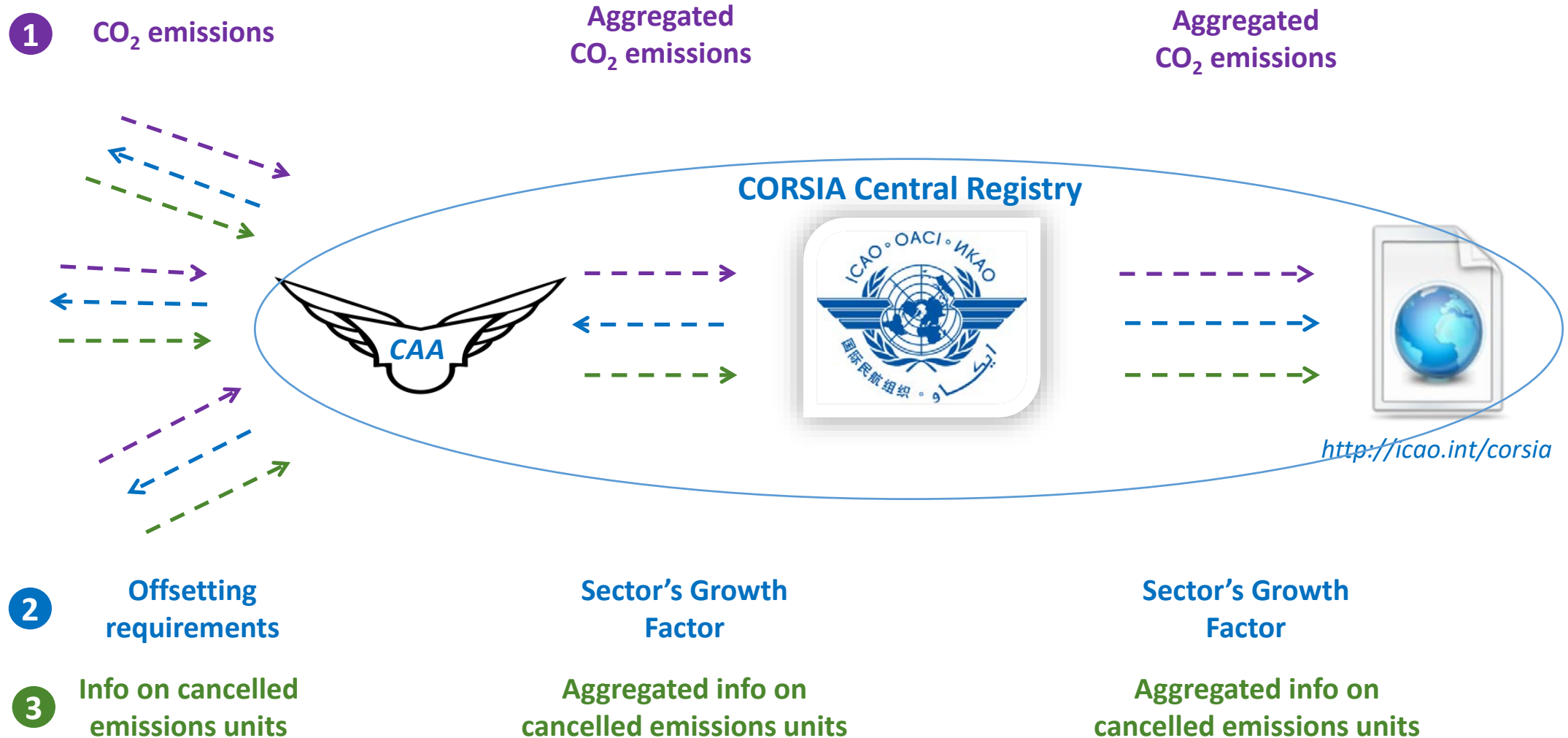
- If a State identifies a data gap in its review of the verified Emissions Report submitted by the aeroplane operator and the verification body:
 - The State will provide guidance to the operator regarding the way to address the identified data gap
- If an aeroplane operator does not provide its annual Emissions Report in accordance with the timeline as defined in Annex 16, Volume IV, Appendix 1:
 - The State must engage with the operator to obtain the necessary information
 - If the above proves unsuccessful, then the State must estimate the operator's annual emissions using the best available information and tools (i.e. ICAO CORSIA CERT)

Data Gaps – CO₂ Emissions

- If a State does not submit CO₂ emissions data through the CCR, then ICAO will provide data in accordance with the provisions of Annex 16, Volume IV
 - The emissions gap is filled using traffic data (ADS-B) and the ICAO CORSIA CERT
 - The data will be used to estimate the total emissions for a specific year, and for the calculation of the Sector's Growth Factor that is used to determine the offsetting requirements of individual operators

Reference: Annex 16, Volume IV, Part II, Chapter 2, 2.5.2.2

CORSIA General Information Flow



Key Features of the CCR

The CORSIA Central Registry (CCR) has been implemented as an online and user-friendly web application that is hosted using Cloud services

One CCR account per State

- Authorized users only (nominated by the State)
- Access to only one State account

Secure interface

- Password protection - Authentication protocol
- Confidential data

Simple info/data entry

- Data entry through predefined forms
- Manual (one by one) and bulk upload possible

Traceability and data integrity

- Time-stamped and recorded actions (who, what, when)
- No deletions; in case of re-submission, archive previous version

States reporting through the CCR

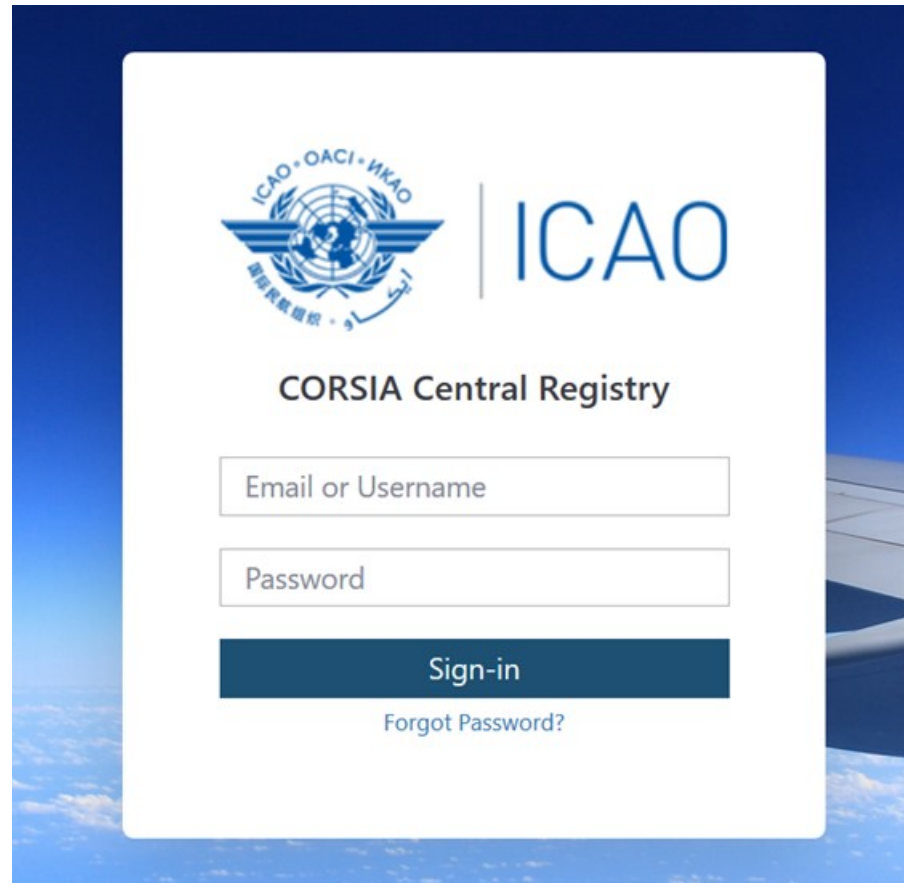
Status as of 19 November 2021

174
CCR States
Accounts

252
CCR Users
Accounts

617
Aeroplane
Operators reported

64
Accredited
Verification Bodies
reported



117
2019 CO₂ Reports
in CCR

586
Mtonnes of 2019
CO₂ submitted

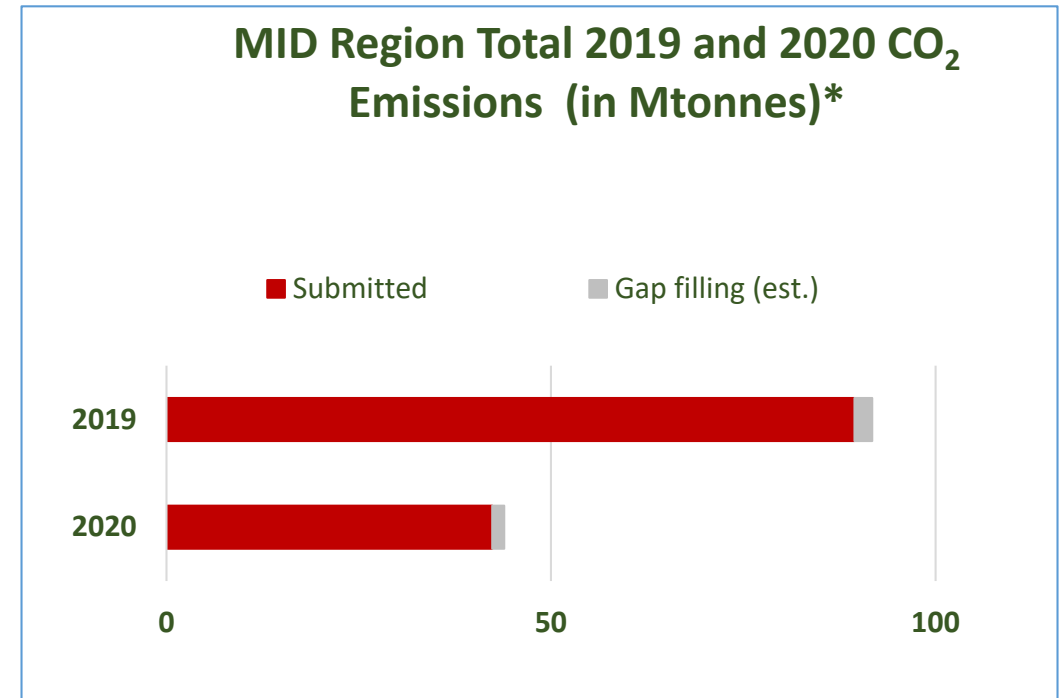
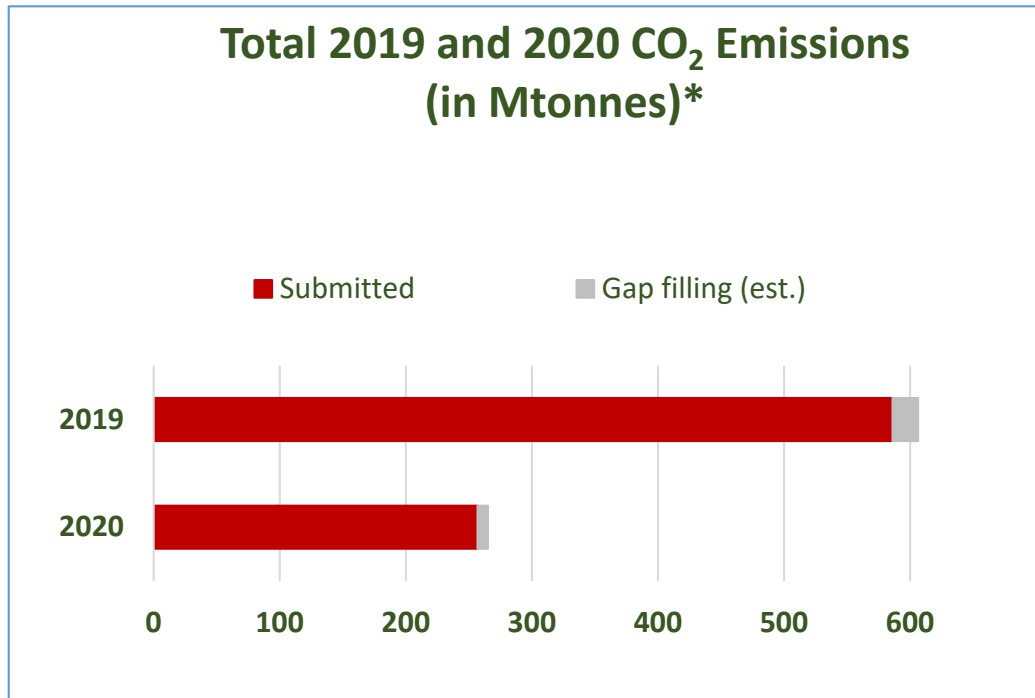
107
2020 CO₂ Reports
in CCR

257
Mtonnes of 2020
CO₂ submitted

For CORSIA Newsletter, visit: www.icao.int/corsia

CO₂ Emissions Reporting (2019 & 2020)

Status as of 19 November 2021

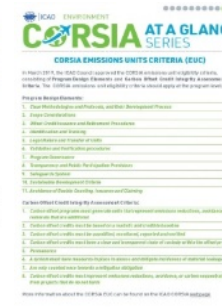
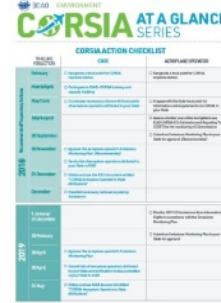
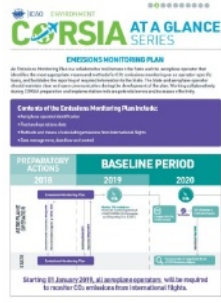
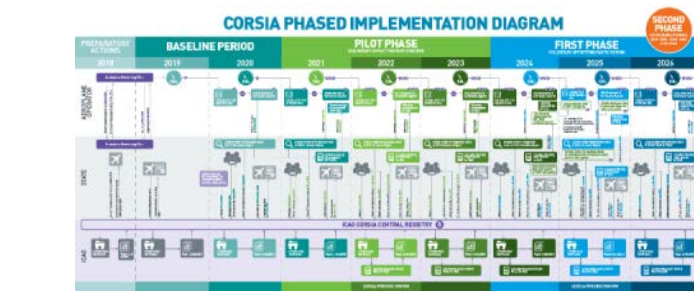
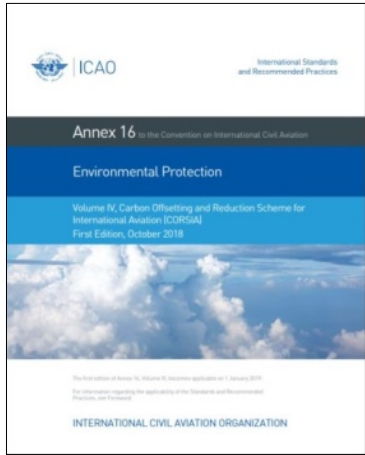


Upcoming 2021 Deadline

- By 30 November 2021, States are required to use the CCR in order to submit to ICAO updates to:
 - The list of operators attributed to them
 - The list of verification bodies accredited in them
- States need to provide information even if there are no changes to the information submitted for a previous year
 - Particularly important for aeroplane operators

2022 CORSIA Deadlines

Date	Activity
30 April 2022	Aeroplane operators and verification bodies to submit to States the verified Emissions Reports and associated Verification Reports for 2021 CO ₂ emissions.
1 May 2022 to 31 July 2022	States to conduct an order of magnitude check of the verified 2021 Emissions Reports, including any filling of data gaps in case of non-reporting by aeroplane operators.
30 June 2022	States to notify ICAO of any change in their decision to voluntarily participate in CORSIA for the pilot phase.
31 July 2022	Using the CCR, States to submit to ICAO aggregate 2021 CO ₂ emissions.
31 October 2022	States to use the 2021 Sector's Growth Factor and calculate the 2021 offsetting requirements for the aeroplane operators attributed to them.
30 November 2022	Using the CCR, States to update their list of aeroplane operators that are attributed to them, and the list of verification bodies accredited in them.



Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)

CORSIA News (click here to consult the complete list)

19-25 Jan 2019

Trinidad & Tobago and Jamaica received training under the ACT-CORSIA Buddy Partnership with Germany

CORSIA IMPLEMENTATION

- Assembly Resolution A39-3
- SARPs - Annex 16 Volume IV
- Environmental Technical Manual - Volume IV (New)
 - » Templates (New)
- ICAO CORSIA Implementation Elements
- CORSIA States for Chapter 3 State Pairs
 - » ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT)
 - » CORSIA Eligible Fuels
 - » CORSIA Eligible Emissions Units
 - » CORSIA Central Registry (CCR)

Additional Material for CORSIA Implementation



ACT CORSIA

- CORSIA Buddy Partnerships
- Model Regulations
- Frequently Asked Questions
- Brochure and Leaflets
- Videos
- Seminars
- Online Tutorials
- Background Information



For more information on CORSIA, please visit our website: <http://www.icao.int/corsia>



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North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

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Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok



THANK YOU