



ICAO

ENVIRONMENT

ICAO Regional Seminar on CORSIA

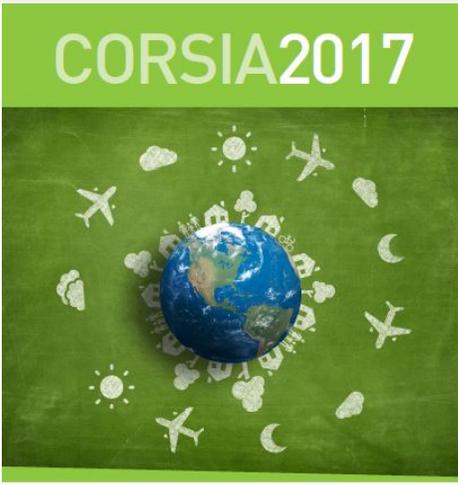
Session 6: Capacity building activities and next steps towards CORSIA implementation

ICAO Secretariat





CORSIA Capacity Building Activities



ICAO Seminar on the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)



- Capacity building and outreach:
 - Online tutorial on CORSIA
 - Updated FAQs
 - Additional CORSIA seminars, with support by AFCAC
 - 23 to 25 August 2017, Lagos, Nigeria
 - 28 to 30 August 2017, Lusaka, Zambia
 - Video on CORSIA implementation
 - CORSIA implementation brochure
 - Five leaflets "CORSIA at a Glance"
 - ICAO-Germany Small scale implementation project
- CORSIA Focal Points (State letter ENV 6/6 – 18/1 on 4 January 2018)
- ICAO Seminar on Carbon Markets, Montreal, 7-9 February 2018

Five online modules:

1. Introduction
2. CORSIA and Resolution A39-3 (Part 1)
3. CORSIA and Resolution A39-3 (Part 2)
4. Monitoring, Reporting, Verification System
5. Emissions Units and Registries



The screenshot shows the ICAO Environmental Protection website. The header includes the ICAO logo, the text "ICAO ENVIRONMENT", a search bar, and a "CONFLICT ZONES RISK INFORMATION" button. A navigation menu contains links for "About ICAO", "Global Priorities", "Meetings and Events", "Information Resources", "Careers", and "Subscribe". The main content area is titled "Online CORSIA Tutorial" and features a globe graphic with the text "MESSAGE FROM THE DEPUTY DIRECTOR, ENVIRONMENT" and "Jane Hupe". A sidebar on the left lists various environmental topics, with "Recent" highlighted. Below the globe, two numbered links are visible: "1. Introduction" and "2. CORSIA and Resolution A39-3 (Part 1)".

<https://www.icao.int/environmental-protection/Pages/Online-CORSIA-Tutorial.aspx>



The Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)

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ICAO CORSIA Implementation

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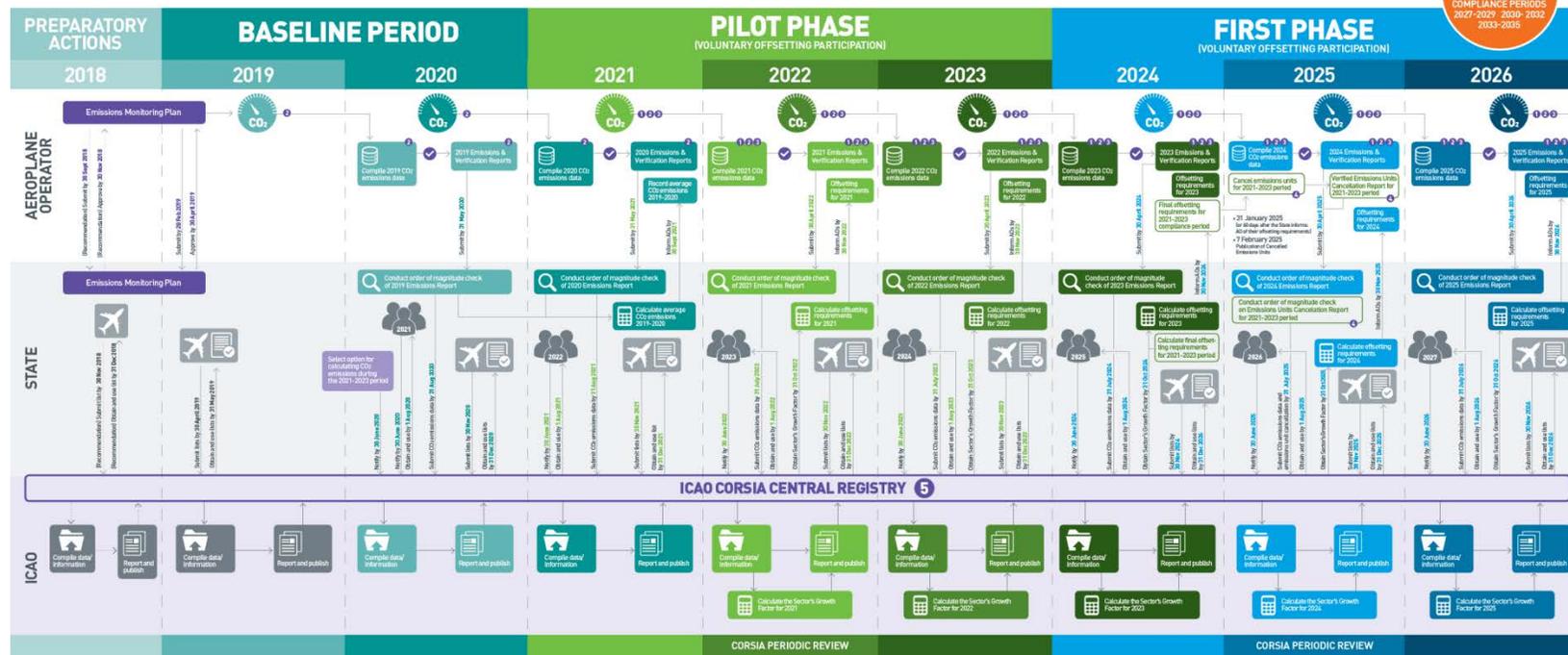
<https://www.icao.int/environmental-protection/Pages/market-based-measures.aspx>

CORSIA Implementation Plan Brochure

- English
- French
- Spanish
- Russian
- Arabic
- Chinese

CORSIA PHASED IMPLEMENTATION DIAGRAM

SECOND PHASE
COMPLIANCE PERIODS
2027-2029, 2030-2032, 2033-2035



CORSIA
CARBON OFFSETTING AND REDUCTION
SCHEME FOR INTERNATIONAL AVIATION
IMPLEMENTATION PLAN

(Funded by the Government of Sweden)

<https://www.icao.int/environmental-protection/Pages/market-based-measures.aspx>

"CORSA at a Glance" Leaflets

CORSA AT A GLANCE SERIES

Five one-page leaflets highlighting various topics on CORSA implementation:

1. Implementation Components
2. Emissions Monitoring Plan
3. Emissions Monitoring Options
4. Action Checklist
5. Offsetting Requirements Steps

CORSA IMPLEMENTATION COMPONENTS

Under the guidance of CORSIA, a series of components are being developed in close consultation with the necessary stakeholders. The Standards and Recommended Practices (SRPs) in Annex 16 Volume IV provides the necessary guidance for States to implement CORSIA, while the Environmental Protection (EP) Standard (EP) in Annex 17 provides the guidance on the process for CORSIA. The EP Standard is a key element of the CORSIA structure, which is not yet mandatory for States or operators, but contains essential information for implementation of CORSIA.

1 SARPs Annex 16 Volume IV

2 EP Standard

EMISSIONS MONITORING PLAN

An Emissions Monitoring Plan is a written document that describes the data and the methods for CO₂ emissions monitoring for an operator's fleet. It also describes the reporting of required information to the State. The State and the operator should maintain clear and open communication during the development of an agreed upon plan. Working collaboratively during CORSIA preparation and implementation reduces potential errors and increases efficiency.

CONTENTS OF THE EMISSIONS MONITORING PLAN INCLUDE:

- Aircraft operator identification
- Fleet and operations data
- Methods used for fuel measuring
- Methods and scope of all other emissions from international flights
- Data management, data flow and control

PREPARATORY ACTING BASELINE PERIOD

2018 2019 2020

Starting 01 January 2019, all airplane operators are required to monitor CO₂ emissions from international flights.

EMISSIONS MONITORING OPTIONS

An airplane operator shall monitor and report its fuel use from international flights to determine its annual CO₂ emissions, in accordance with an eligible monitoring method approved by the State in which it is licensed. To simplify the estimation and reporting of CO₂ emissions from international flights, for operators with low level of activity in fulfilling their monitoring and reporting requirements, ICAO has developed the CORSIA CO₂ Estimation and Reporting Tool (CERT).

ICAO CORSIA CO₂ ESTIMATION AND REPORTING TOOL (CERT)

CERT supports compliance operators:

- Estimating CO₂ emissions
- Reporting CO₂ emissions
- Generating Emissions Monitoring Plan and Emissions Report Templates

CERT also supports all airplane operators in determining if their CO₂ emissions are under the threshold to be exempt from the CORSIA reporting requirements to 100,000 tonnes of CO₂ annually.

Airplane operators who emit $100,000$ tonnes of CO₂ annually in 2019 and 2020 from international flights, are not eligible to use CERT to monitor and report emissions, and must choose one of the two eligible methods for fuel use reporting: fuel flow measurement and fuel use by quantity by weight method.

However, all airplane operators are able to use CERT to fill in any CO₂ emissions data gaps, regardless of their emissions levels.

Function Class	$\le 100k$ CO ₂	$100k-1000k$ CO ₂	> 1000k CO ₂
Preparation of Emissions Monitoring Plan	✓	✓	✓
CO ₂ Estimation & Reporting	✓	✓	Not Eligible to use CERT
Data Base	✓	✓	✓

CORSA OFFSETTING REQUIREMENT STEPS

The State calculates the offsetting requirements attributed to an airplane operator:

Operator's annual emissions × **Offset Factor** = **CO₂ offset requirements**

In a given year from 2021, the Offset Factor is a percent increase in the amount of emissions from the baseline, and is calculated by ICAO.

The Offset Factor changes every year taking into account both the sector's and the individual operator's emissions growth.

CO₂ offsetting requirements calculated by the State and operator

2 The operator reports the use of sustainable aviation fuels (SAF) for a 3-year compliance period.

3 The State accounts for the benefits from the use of SAF and informs the operator of its final CO₂ offsetting requirements for a 3-year compliance period.

CORSA ACTION CHECKLIST

THRESHOLD FOR ACTION	STATE	AIRPLANE OPERATOR
2018	1. Develop a CORSIA plan	1. Develop an Emissions Monitoring Plan
2019	1. Report CO ₂ emissions from international flights	1. Report CO ₂ emissions from international flights
2020	1. Report CO ₂ emissions from international flights	1. Report CO ₂ emissions from international flights
2021	1. Report CO ₂ emissions from international flights	1. Report CO ₂ emissions from international flights
2022	1. Report CO ₂ emissions from international flights	1. Report CO ₂ emissions from international flights

<https://www.icao.int/environmental-protection/Pages/market-based-measures.aspx>

Small Scale Implementation Project

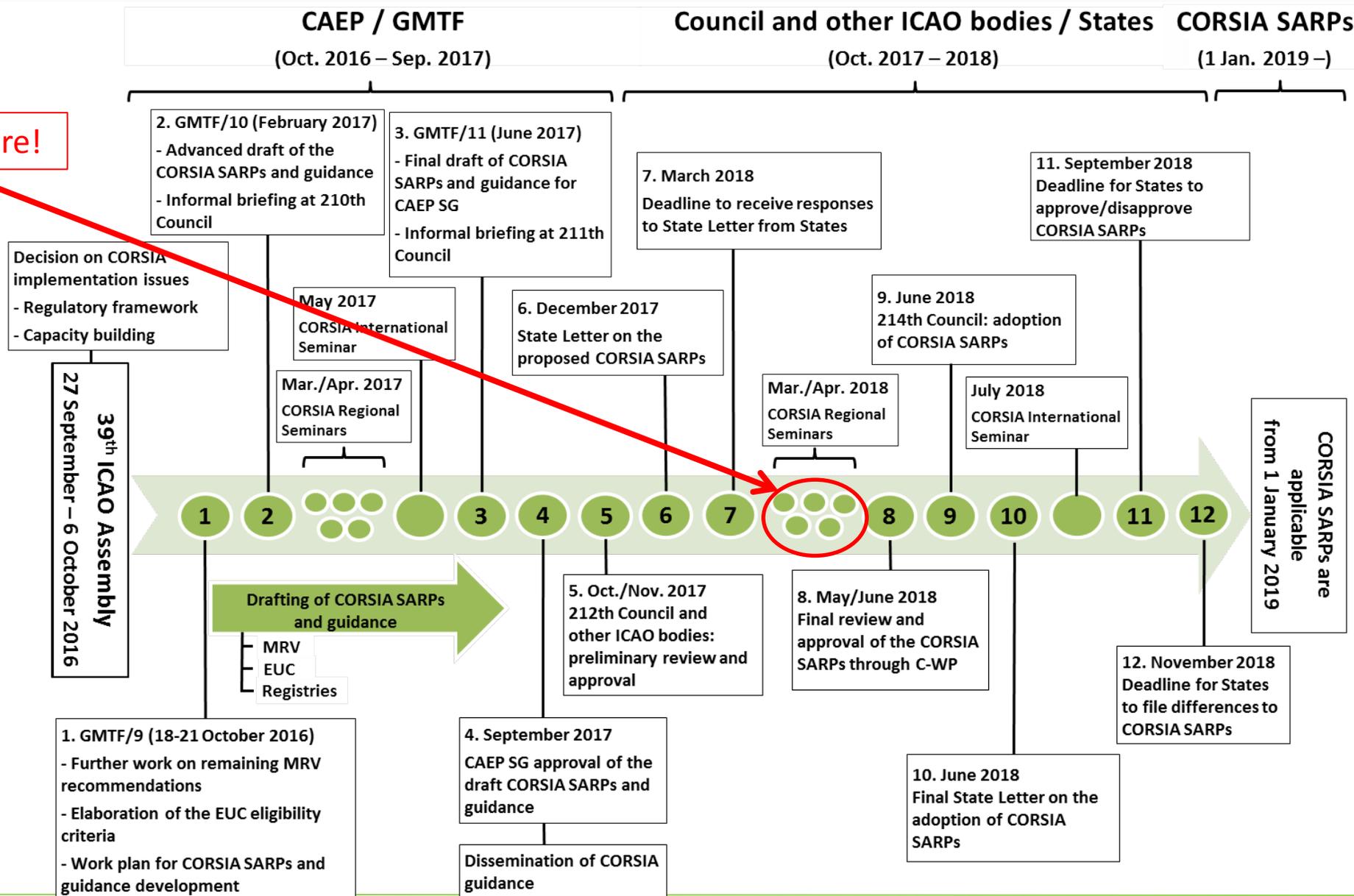
- ICAO – Germany partnership
- Regional participation:
 - Canada, Mexico, Germany, United Arab Emirates, Burkina Faso, Kenya, Japan
- Project key outcomes



- Successfully tested the MRV provisions of draft CORSIA SARPs and identify the best practices and lessons learned from the project
- Most participants assessed MRV provisions as simple or manageable
- Most participants assessed available guidance as very good or good

Development of CORSIA-related SARPs and Guidance

We are here!



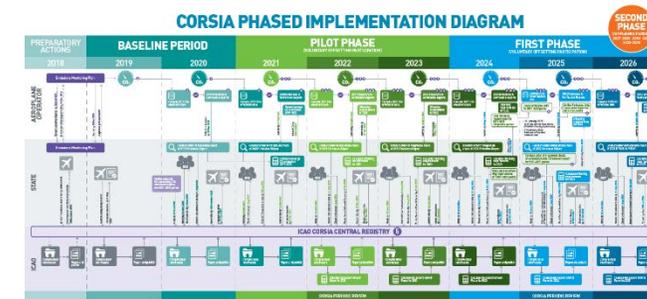
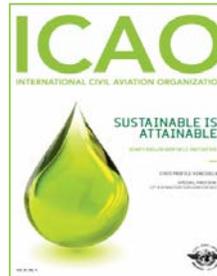
Key Milestones ahead for SARPs

- Mar – Apr 2018: Compilation of comments on the CORSIA SARPs from States and international organizations
- Apr – May 2018: Review and revisions, if any, to draft CORSIA SARPs
- Jun 2018: Council to adopt CORSIA SARPs
- July 2018: Publication of CORSIA ETM
- 2-3 July 2018: ICAO Seminar on CORSIA in Montreal
- Further training based on the adopted First Edition of Annex 16, Volume IV
 - Launching of the 2018 version of the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT)
 - Up-to-date information on the CORSIA Central Registry (CCR)



- Suggestions?

Thank you!



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