ICAO MEMBER STATES PARTICIPATING IN CORSIA need to ensure that their aeroplane operators comply with the CORSIA offsetting requirements every three years, in addition to annual CO2 MRV.

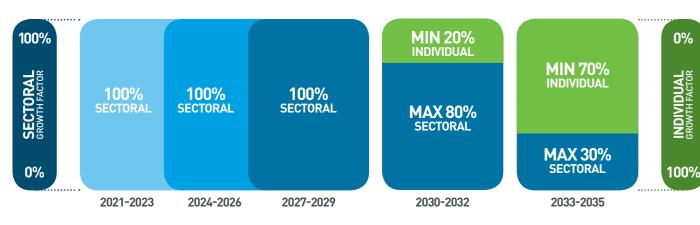


- Participation of States in the pilot phase (2021 to 2023) and first phase (2024 to 2026) is voluntary.
- For the second phase from 2027, all States with an individual share of international aviation activity in year 2018 above 0.5% of total activity or whose cumulative share reaches 90% of total activity, are included. Least Developed Countries, Small Island Developing States and Landlocked Developing Countries are exempt unless they volunteer to participate.

HOW TO CALCULATE CO2 OFFSETTING REQUIREMENTS?

Operator's annual emissions X Growth Factor = CO2 offsetting requirements

The Growth Factor changes every year taking into account both the sectoral and the individual operator's emissions growth. The Growth Factor is the percent increase in the amount of emissions from the baseline to a given future year, and is calculated by ICAO.



HOW OFFSETTING REQUIREMENTS UNDER CORSIA ARE MET

After the calculation of the offsetting requirements to be attributed to an aeroplane operator (see above):

- The operator reports the use of CORSIA Eligible Fuels for the compliance period.
- The State deducts the benefits from the use of CORSIA Eligible Fuels and informs the operator's final offsetting requirements for the 3-year compliance period.
- The operator purchases and cancels eligible emissions units equivalent to its final offsetting requirements for the
- The operator provides a validated Emissions Units Cancellation Report to the State, who checks the Report and informs ICAO.

CORSIA is a global market-based measure designed to offset international aviation CO2 emissions in order to stabilize the levels of such emissions from 2020 onwards (CNG2020). Offsetting of CO2 emissions will be achieved through the acquisition and cancelation of emissions units from the global carbon market by aeroplane operators.

WHY JOIN CORSIA?

The more States join CORSIA, and the earlier they join, the more emissions are covered, increasing the environmental

The more emissions are covered, more units will be needed, thus increasing opportunities to invest in emissio eduction projects, particularly in developing States.

States that voluntarily participate in the pilot phase of CORSIA will be given priority for capacity building and assistance

ICAO'S ASPIRATIONAL GOALS

ICAO has agreed on two aspirational goals for the international aviation sector:

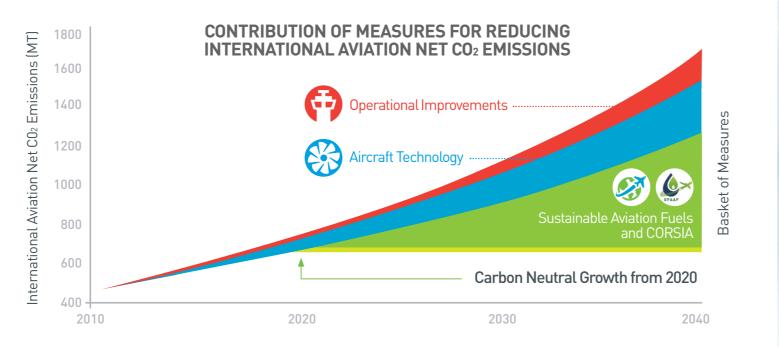
- 2% annual fuel efficiency improvement through 2050
- Carbon neutral growth from 2020 onwards (CNG 2020)

ICAO is also exploring a long-term goal.

ICAO'S BASKET OF MEASURES

ICAO has identified the following areas that can contribute to the attainment of the global aspirational goals:

- Aircraft related technology and standards
- Improved air traffic management and operational improvemen
- Development and deployment of sustainable aviation fuel
- CORSIA



SUSTAINABLE DEVELOPMENT GOALS ICAO's environmental work contributes to 14 out of the 17 United Nations SDGs



























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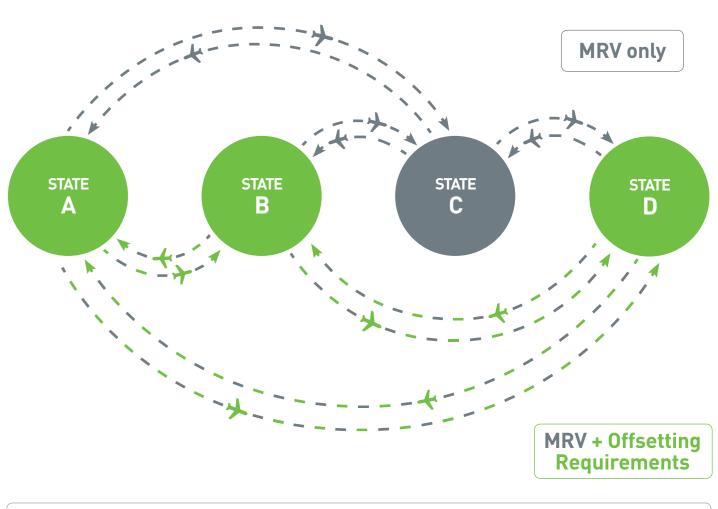


ALL ICAO MEMBER STATES with aeroplane operators conducting international flights are required to monitor, report, and verify (MRV) CO2 emissions from these flights every year from 2019, independent of their participation in CORSIA.

HOW DOES AN AEROPLANE OPERATOR MONITOR CO₂ EMISSIONS?

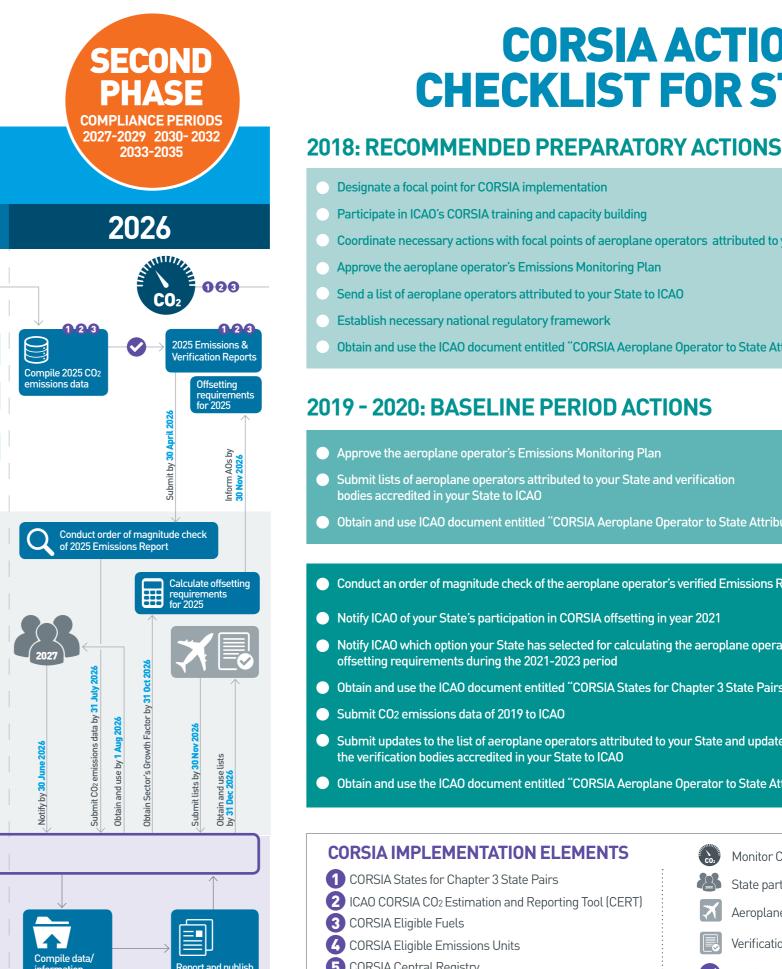
- An aeroplane operator shall monitor and record its fuel use from international flights in accordance with an eligible monitoring method approved by the State to which it is attributed, and shall use the same eligible monitoring method for the entire 3-year compliance period.
- An aeroplane operator can choose from five different eligible methods for fuel use monitoring. The methods are equivalent, there is no hierarchy for selecting a method.
- An aeroplane operator may choose to use the ICAO CORSIA CO2 Estimation and Reporting Tool (CERT), accessible through the ICAO CORSIA website.

CORSIA ROUTE-BASED APPROACH





CORSIA PHASED IMPLEMENTATION DIAGRAM



CORSIA ACTION CHECKLIST FOR STATES

Participate in ICAO's CORSIA training and capacity building Coordinate necessary actions with focal points of aeroplane operators attributed to your State Approve the aeroplane operator's Emissions Monitoring Plan Send a list of aeroplane operators attributed to your State to ICAO Establish necessary national regulatory framework March March May/J 30 No Decer	ary 2018 n/April 2018 lune 2018 vember 2018 vember 2018 nber 2018
Coordinate necessary actions with focal points of aeroplane operators attributed to your State Approve the aeroplane operator's Emissions Monitoring Plan Send a list of aeroplane operators attributed to your State to ICAO Establish necessary national regulatory framework May/J 30 No Decer	June 2018 vember 2018 vember 2018
Approve the aeroplane operator's Emissions Monitoring Plan Send a list of aeroplane operators attributed to your State to ICAO Establish necessary national regulatory framework Decer	vember 2018 vember 2018
Send a list of aeroplane operators attributed to your State to ICAO Establish necessary national regulatory framework Decer	vember 2018
Establish necessary national regulatory framework Decer	vember 2018 nber 2018
	nber 2018
Obtain and use the ICAO document entitled "CORSIA Aeroplane Operator to State Attributions" 31 De	
	cember 2018
	LINE ACTION
Approve the aeroplane operator's Emissions Monitoring Plan	ril 2019
 Submit lists of aeroplane operators attributed to your State and verification bodies accredited in your State to ICAO 	ril 2019
Obtain and use ICAO document entitled "CORSIA Aeroplane Operator to State Attributions"	y 2019

Conduct an order of magnitude check of the aeroplane operator's verified Emissions Report for 2019

- Notify ICAO of your State's participation in CORSIA offsetting in year 2021
- Notify ICAO which option your State has selected for calculating the aeroplane operator's offsetting requirements during the 2021-2023 period
- Obtain and use the ICAO document entitled "CORSIA States for Chapter 3 State Pairs"
- Submit CO2 emissions data of 2019 to ICAO
- Submit updates to the list of aeroplane operators attributed to your State and updates to the verification bodies accredited in your State to ICAO
- Obtain and use the ICAO document entitled "CORSIA Aeroplane Operator to State Attributions"

CORSIA	IMADI	EMENIT	LATION	MENITO
LURSIA	IMPI	FMFN		 -MFNIS

- 1 CORSIA States for Chapter 3 State Pairs
- 2 ICAO CORSIA CO2 Estimation and Reporting Tool (CERT)
- 3 CORSIA Eligible Fuels
- 4 CORSIA Eligible Emissions Units

5 CORSIA Central Registry

Monitor CO₂ emissions from international flights

1 June -31 August

30 June 2020

30 June 2020

1 August 2020

31 August 2020

30 November 2020

31 December 2020

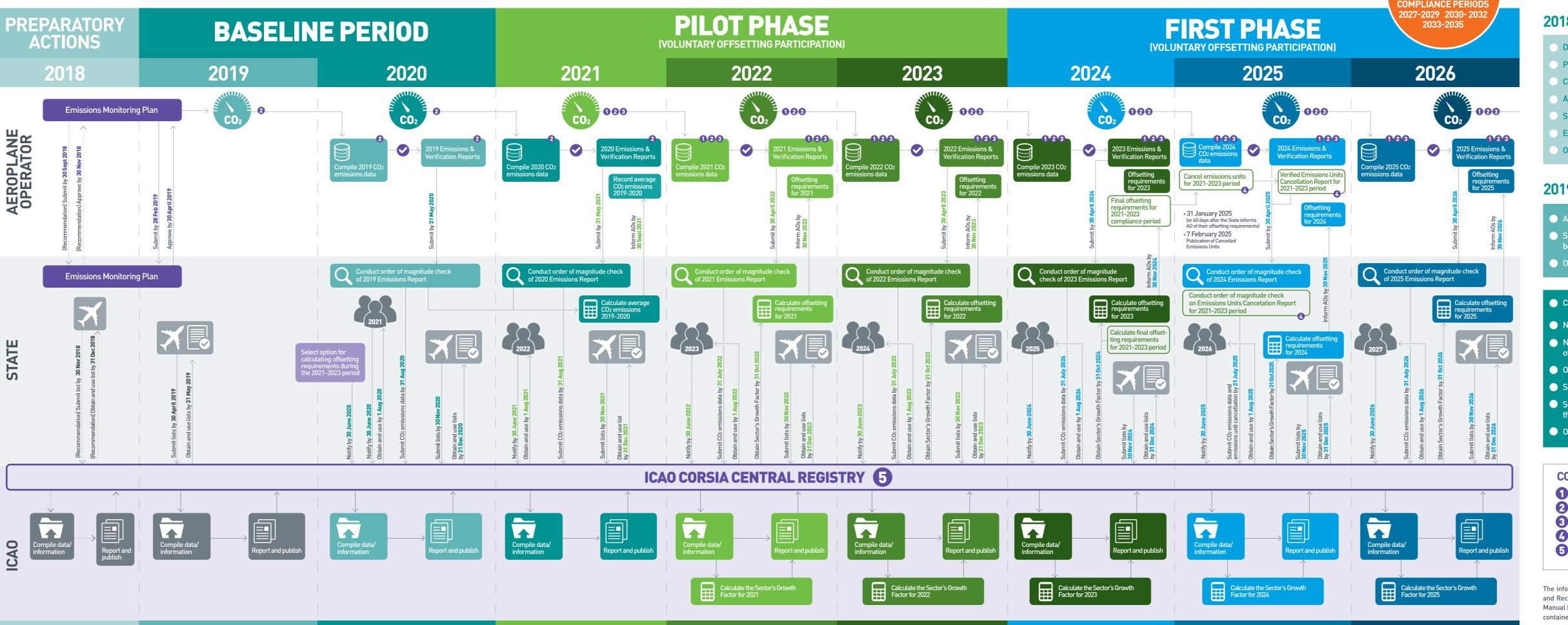
State participation in CORSIA in year 20XX

Aeroplane operator attributed to the State

Verification body accredited in the State

Verification

The information on actions for CORSIA implementation contained in this brochure is based on the First Edition of Annex 16, Volume IV (Standards and Recommended Practices relating to CORSIA) that became applicable on 1 January 2019, and the First Edition of the Environmental Technical Manual (DOC 9501), Volume IV. All reasonable efforts have been made to ensure accuracy, but ICAO makes no warranties in relation to the information contained herein and assumes no responsibility or liability arising in connection with its use or misuse.



CORSIA PERIODIC REVIEW