



Regional Climate Week

Latin America and the Caribbean

Panama City, Panama – 23-27 October 2023



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Introduction to national and international compliance carbon markets



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EU CORSIA AFRICA AND CARIBBEAN PROJECT



This project is funded by the European Union and implemented by EASA.

Monica Bonfanti
EU CORSIA Africa and Caribbean Project



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EU CORSIA AFRICA AND CARIBBEAN PROJECT

Capacity building for CO₂ mitigation from international aviation Africa and the Caribbean

Location(s) of the action:	Sub Saharan Africa and the Caribbean
Financed by	The European Union
Implementing partner	European Union Aviation Safety Agency
Start date End date	19 December 2019 12 January 2024

Now
extended
until 12
January
2025



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Overall Project Objective

The **overall objective** of this project is to mitigate greenhouse gas emissions from the civil aviation sector,

more specifically:

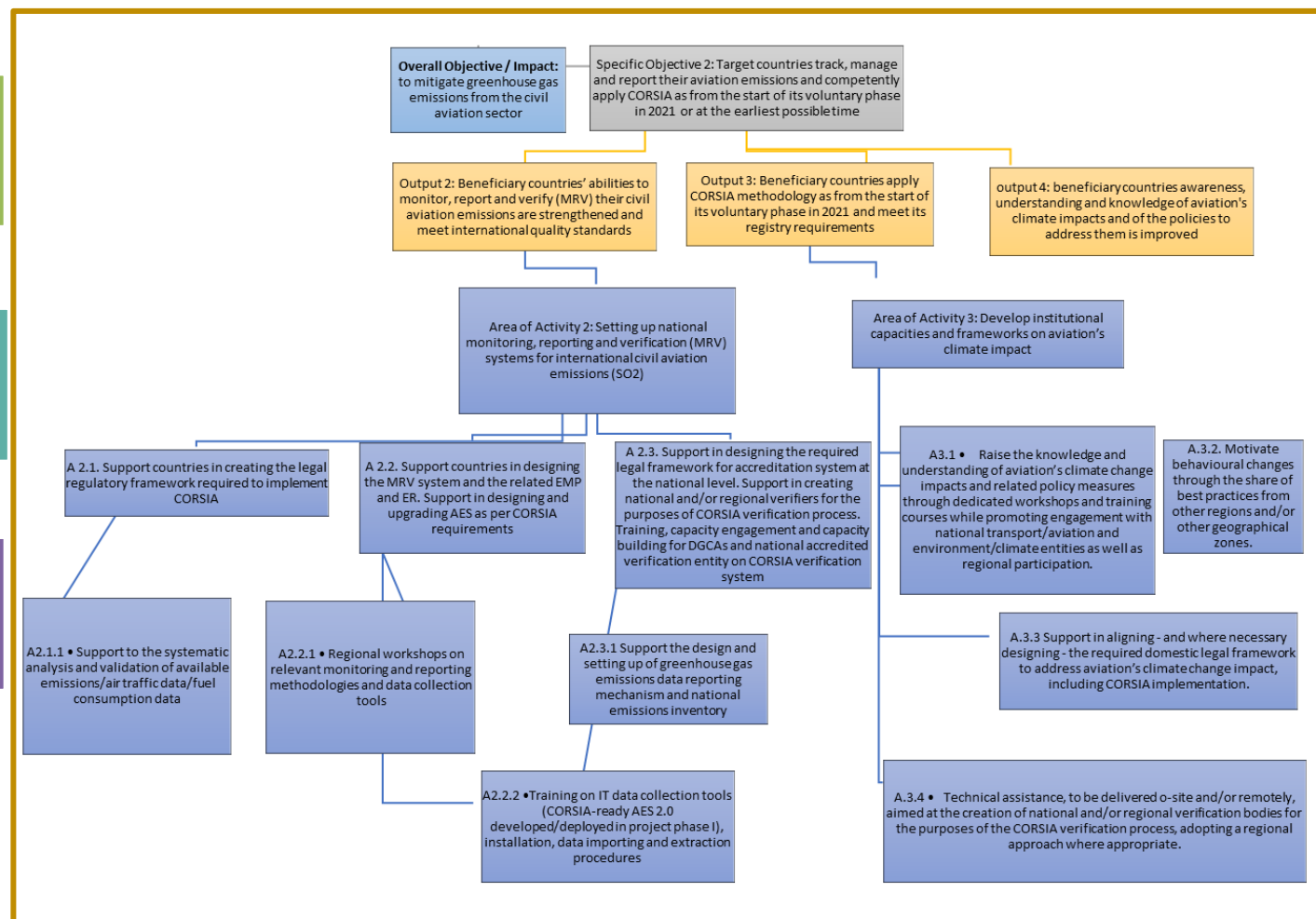
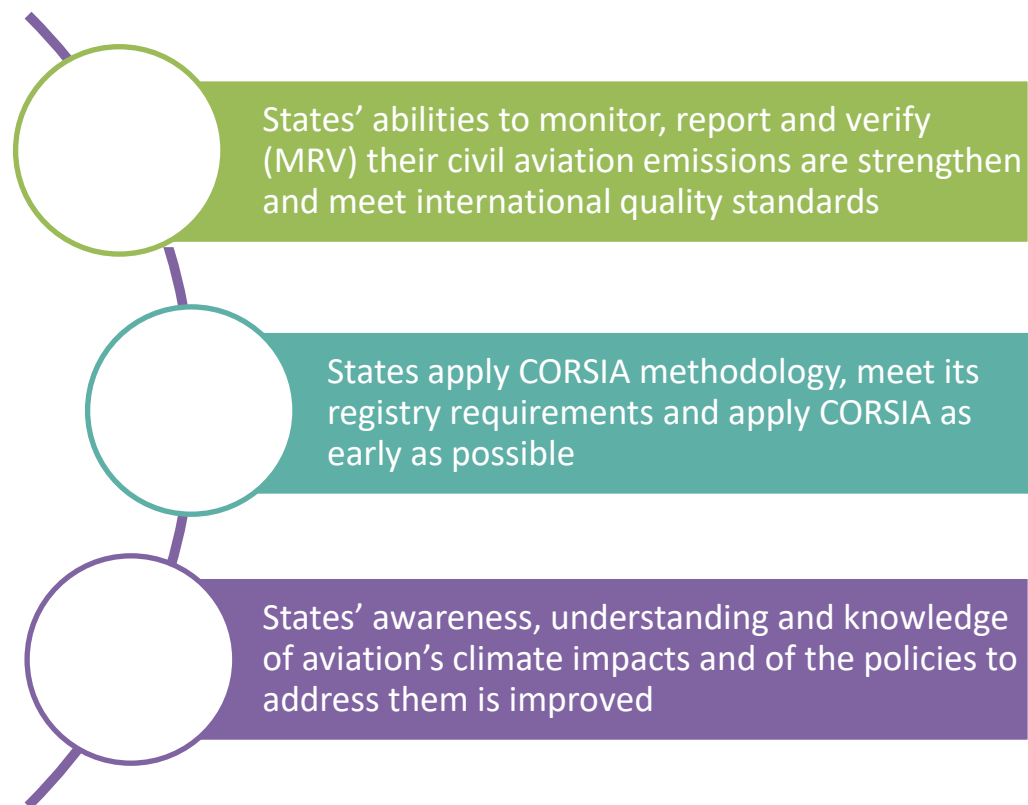
to assist specific states to meet their obligations under the Chicago Convention with regard to the United Nations Sustainable Development Goal (SDG) N° 13— Take urgent action to combat climate change and its impacts.



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Project Goals and Expected Results per area of activity



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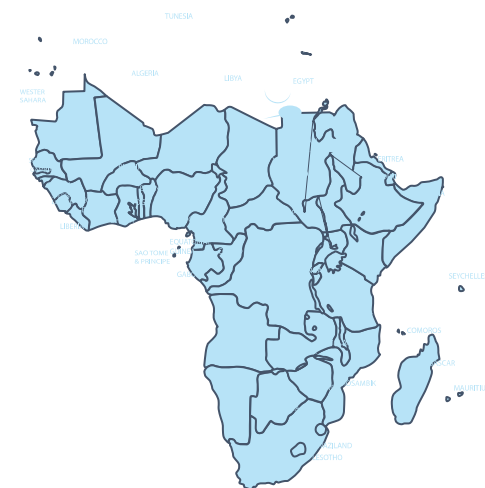
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Selection of STATES supported by the project

Angola Botswana
Cape Verde
Cameroon
Ethiopia Ghana Kenya
Malawi Mauritius
Mozambique
Namibia Nigeria
Rwanda Seychelles
South Africa
Sudan
UR of Tanzania
Uganda Zambia
Zimbabwe
The Gambia
South Sudan

Antigua and Barbuda
Bahamas Barbados
Belize Cuba
Dominican Republic
Guyana Jamaica
St. Lucia
Trinidad and Tobago
Grenada Haiti
Saint Kitts and Nevis
Suriname

Benin Burkina Faso
Burundi
Union of the
Comoros
Côte d'Ivoire DR
Congo
Equatorial **Guinea**
Gabon (ES)
Mali Mauritania
Madagascar **Niger**
Senegal Togo



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EU LAC Aviation Partnership Project (APP) II



This project is funded by the European Union and implemented by EASA.



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EU LAC APP II Key facts

			
Funded by the EU € 4.000.000	Includes: Argentina, Brazil, Chile, Colombia, Dominican Republic, Mexico, Panama LACAC, SRVSOP, CASSOS, ACSA	Coordinated with international partners	1 June 2022 31 May 2025



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Overall objective



Enhance the role of the EU as a global actor in the domain of civil aviation, promoting a level playing field on the aviation market through continued and new partnerships with Latin America and Caribbean key partner countries and at regional level



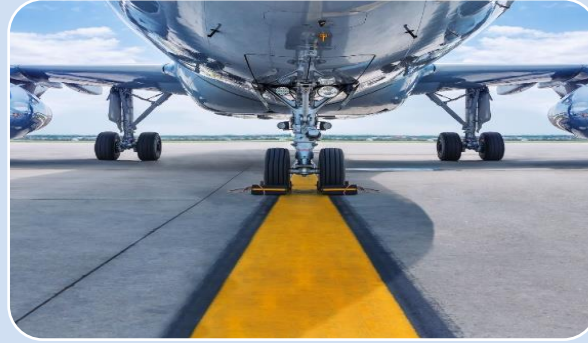
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Specific objectives



Strengthen institutional relations, deepen dialogue and cooperation between aviation authorities, encourage regional cooperation and support implementation of aviation agreements



Promote industrial exchanges and support EU competitiveness in those markets. Facilitate a more secure, more compatible and less restricted access for European industry



Increase mutual awareness of aviation best practices, promote EU standards, raise environmental protection efforts and encourage climate action.



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Bilateral activities - Environment



ACSA/COCESNA

Support in fulfilling CORSIA obligations
Participation in the GEPEJTA
National/
Regional Action Plan

COLOMBIA

CORSIA implementation
National Action Plan

MEXICO

Support in fulfilling CORSIA obligations

CHILE

Definition, implementation of a SAF roadmap.
Vuelo Limpio.
Mesa redonda
SAF and environmental capacity building

ARGENTINA

Process for accreditation of verifiers under CORSIA



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ICAO CORSIA



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ICAO CORSIA



ICAO CORSIA Website

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

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, independently of their participation in CORSIA.



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ICAO CORSIA



C

- Carbon Dioxide Emissions
- Fuel burnt * Emission Factor 3.16

O

- CORSIA is an **offsetting** scheme
- Emissions from one sector are compensated through emissions reductions elsewhere
1 offset = 1 tonne of CO₂ (tCO₂)



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ICAO CORSIA



RS

- CORSIA is a global Market Based Measure (MBM) aimed to help reduce emissions to achieve ICAO's goal of carbon neutral growth from 2020 (CNG 2020)
- It is complementary to aircraft technology, operational improvements and sustainable aviation fuels, and fills the gap these measures can't achieve

IA

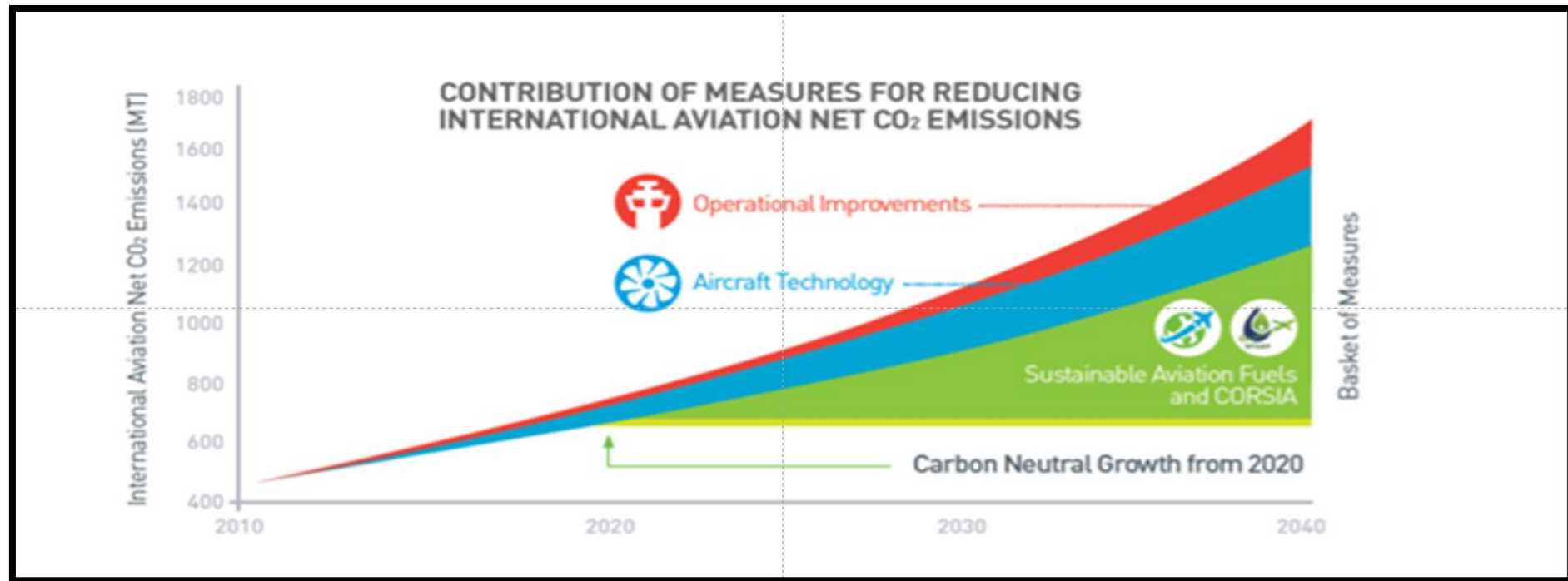
- CORSIA addresses emissions from international flights
- An international flight is when an aircraft departs from a one State and lands in a different State



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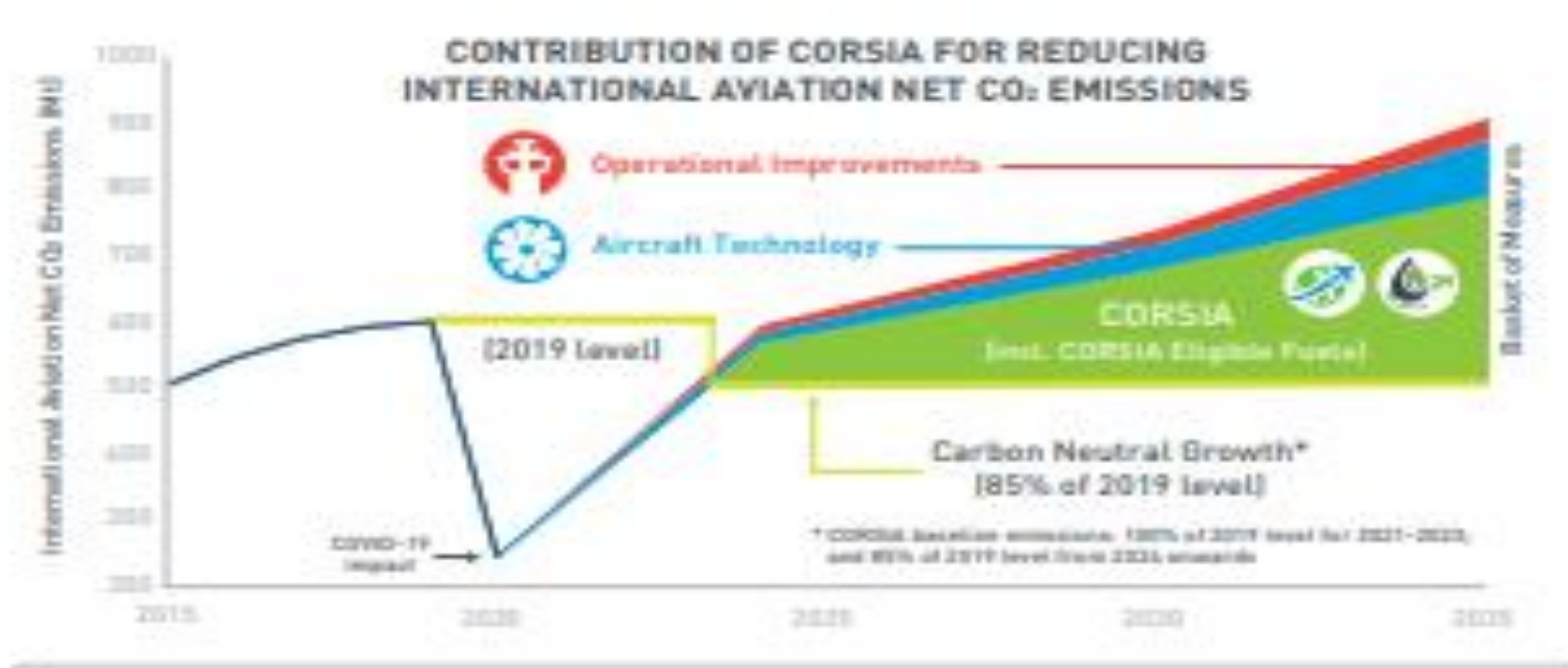
Role of CORSIA as a Reduction Scheme, Market -Based Measure- to decarbonise the aviation sector-



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Role of CORSIA as a Reduction Scheme, Market-Based Measure- to decarbonise the aviation sector-reflecting COVID 19 context

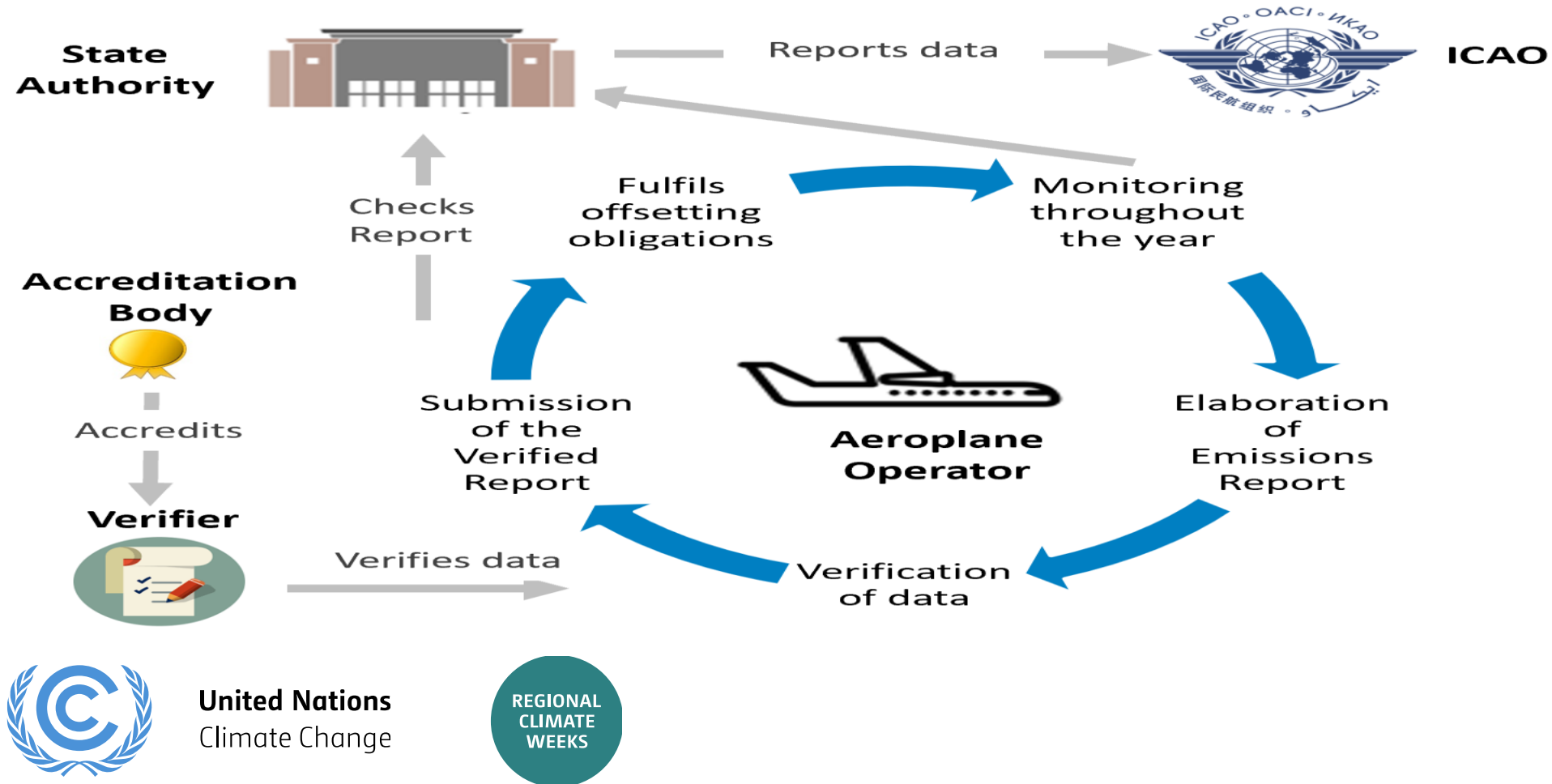


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Key features of the CORSIA scheme

- each actor has a role to play by a fixed deadline



CORSIA Actors and Roles

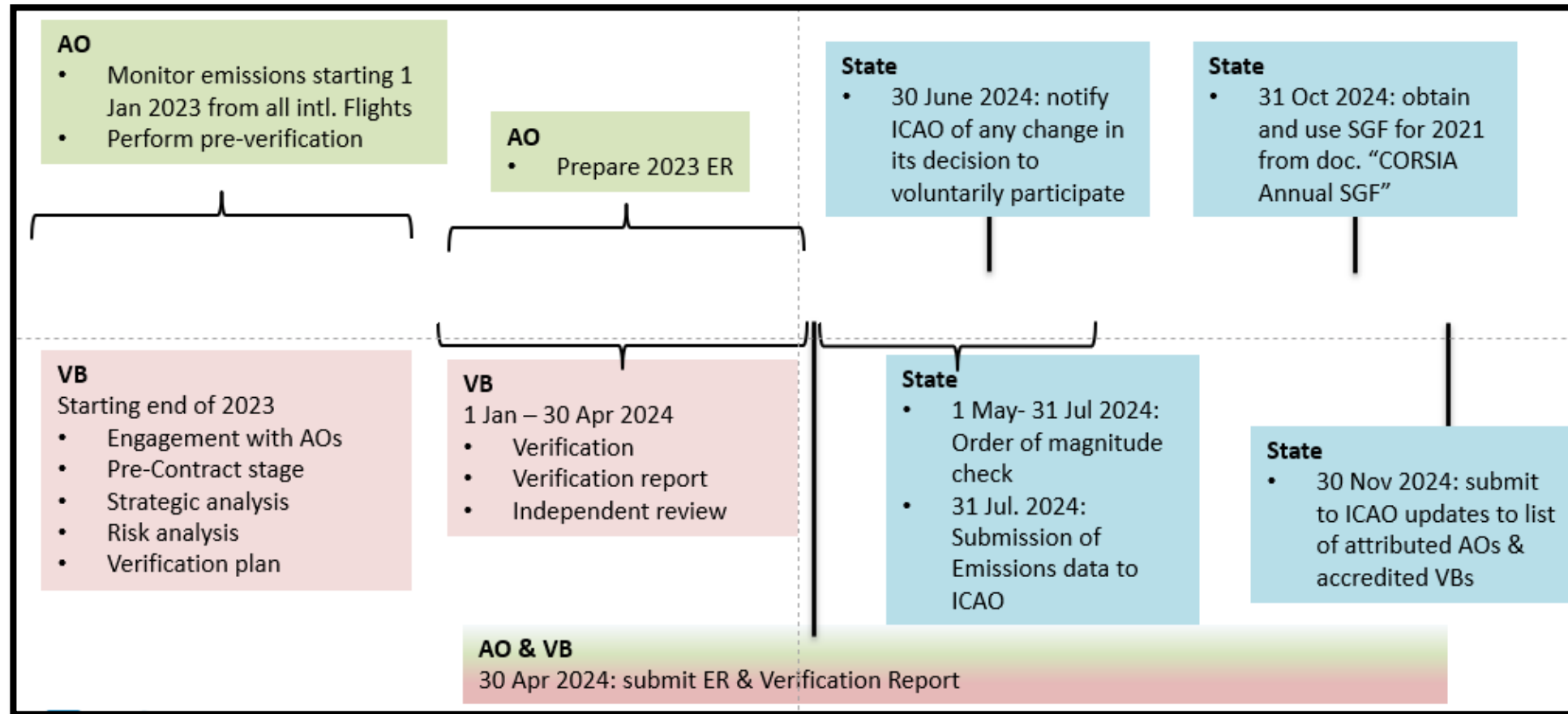
State Authorities	Aeroplane Operators	National Accreditation B. and Verification B.
<ul style="list-style-type: none">• Establish national regulatory framework• Submit list of attributed Aeroplane Operators and accredited Verification Bodies to ICAO• Approve the Aeroplane Operator Emissions Monitoring Plan• Perform Order of Magnitude Check of Aeroplane Operators Emissions Report and Emissions Cancellation Report• Submit CO₂ emissions data to ICAO	<ul style="list-style-type: none">• Prepare and submit the Emissions Monitoring Plan• Monitor and report emissions data according to their Emissions Monitoring Plan• Perform an internal pre-verification of the Emissions Report• Comply with offsetting requirements through submission of Emissions Cancellation Report	<ul style="list-style-type: none">• National Accreditation Bodies provide accreditation to Verification Bodies• Verification Bodies verify Emissions Reports and Emissions Cancellation Reports



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CORSIA deadlines (reflecting current context)



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CORSIA Reference Documents

SARPs Annex 16 Volume IV	ETM Volume IV (Doc 9501)	CORSIA Implementation Elements (5)	CORSIA National Regulation
			



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CORSIA Normative Document

Updated July 2023!

ICAO Standards and Recommended Practices (SARPs)



Annex 16 – Environmental Protection, Volume IV: CORSIA



SARPs lay down the responsibilities, requirements and timelines for AOs, State Authorities, NABs and VBs

SARPs establish additional verification requirements to those in the ISO standards, to customise them to CORSIA



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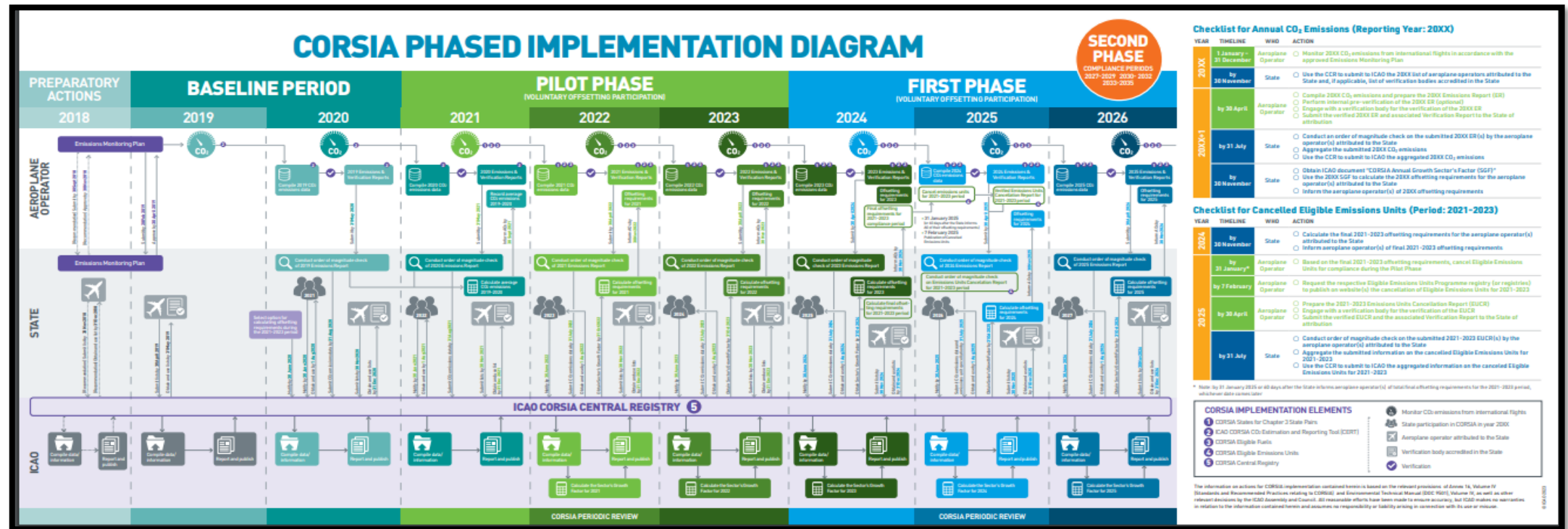
CORSIA KEY FEATURES



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CORSIA Phased implementation



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CORSIA Phased implementation

2021-2023: (Pilot Phase) States can voluntarily opt-in.

2024-2026: First Phase, States can also voluntarily opt-in.

“Voluntary Phase”

2027-2035: Second Phase, All states unless exempted (although they can volunteer to participate)

“Mandatory Phase”

→ Decision to be taken before 30 June every year, starting in 2020



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CORSIA Phased implementation

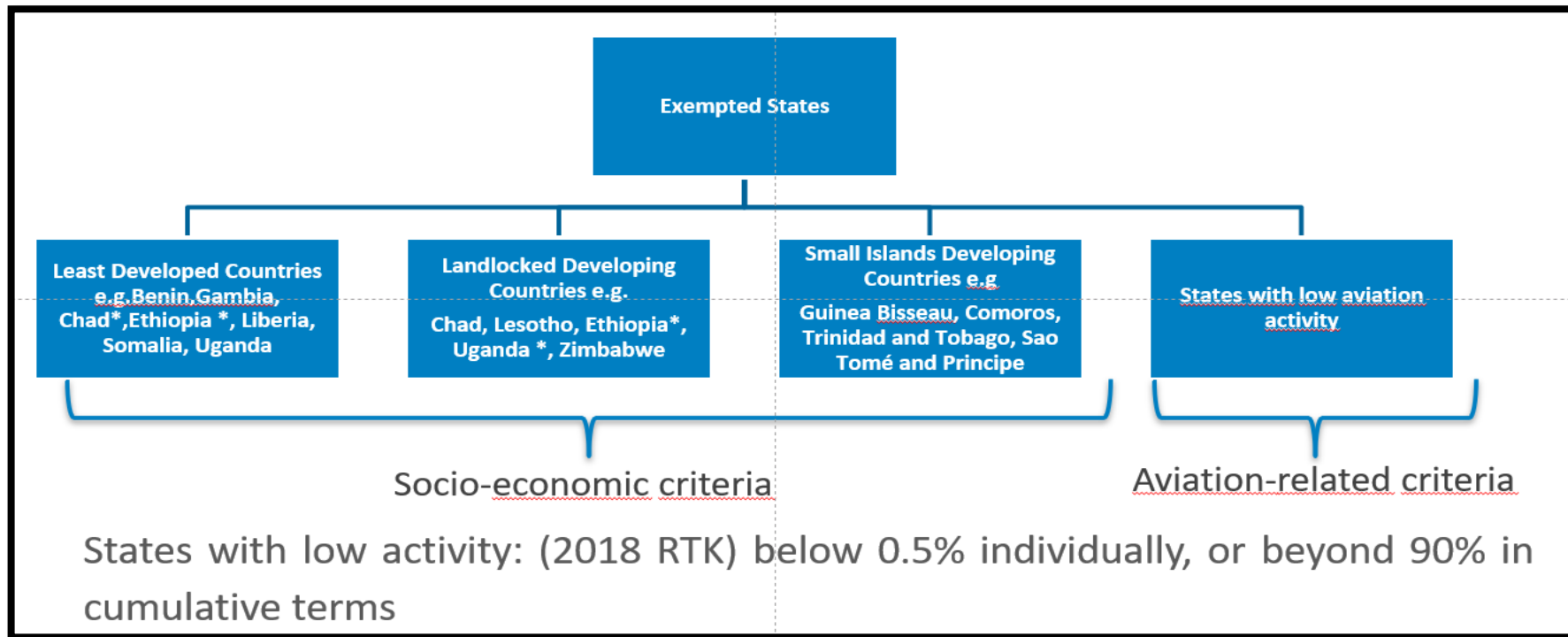
- **Participation** of States determines the coverage of emissions to be offset by CORSIA.
- **All States** need to implement CORSIA. All international flights to be monitored, verified and reported (unless the operator excluded)
- A flight covered by CORSIA for offsetting requirements if both States connecting the flight are participating
- A flight will not be covered by CORSIA for offsetting requirements if one or both of States connecting the flight are not participating
- **Equal treatment** on the same routes, regardless the nationality of the aeroplane operator



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States exempted from CORSIA applicability



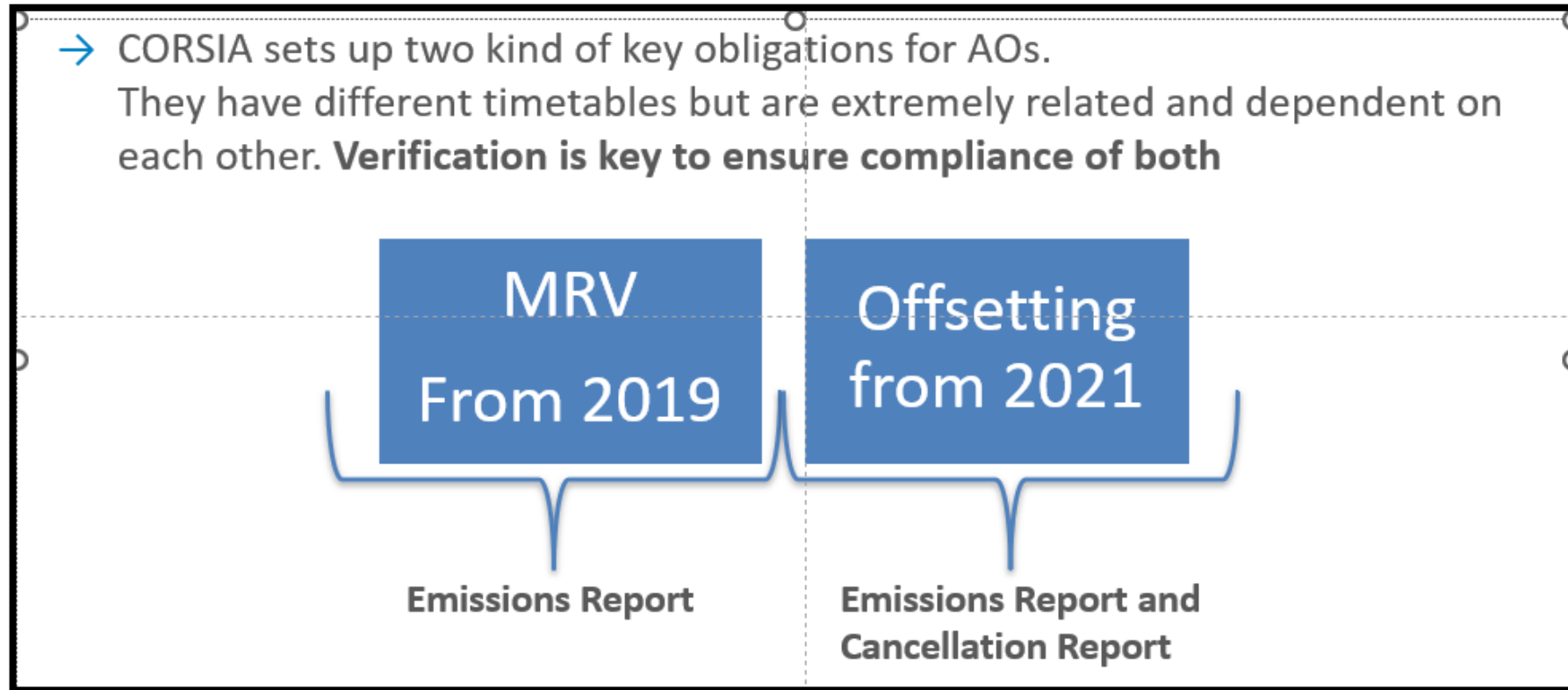
Key features: MRV, offsetting and MRV templates



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Key features of ICAO CORSIA- MRV and Offsetting

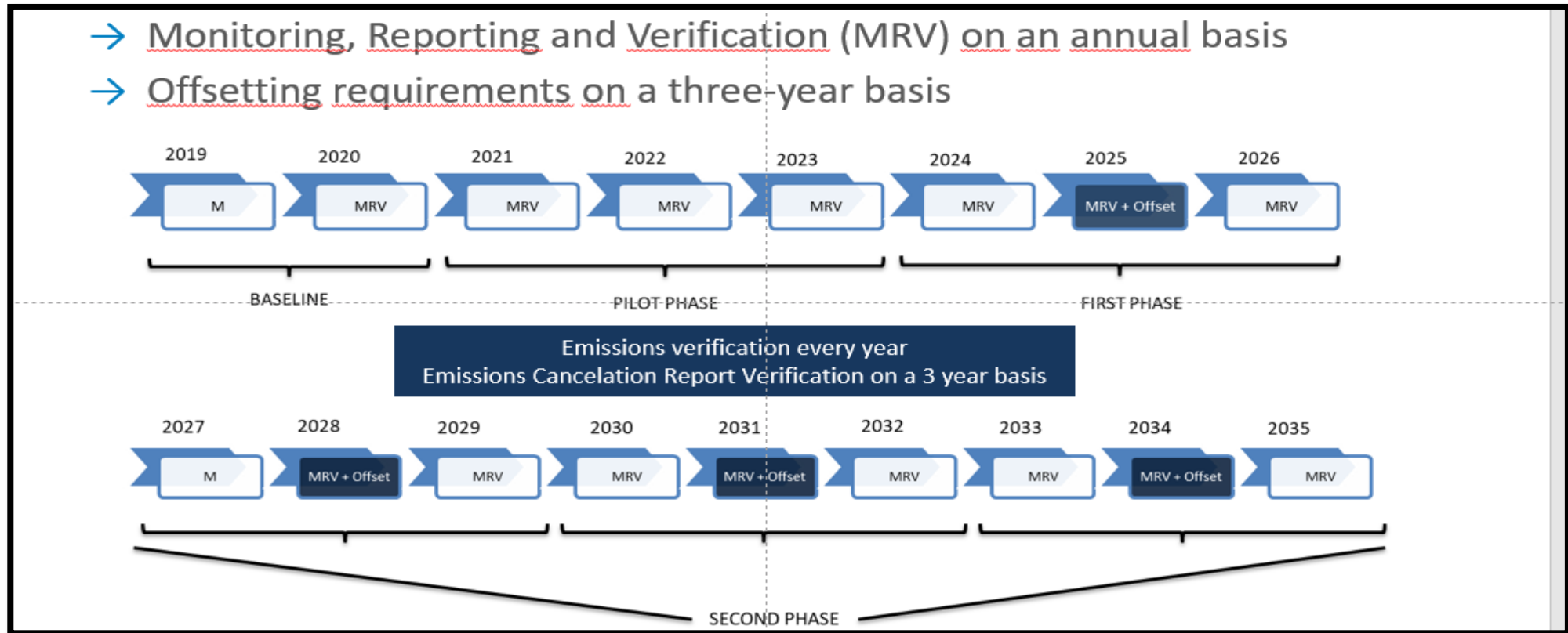


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Administration Procedures

- Monitoring, Reporting and Verification (MRV) on an annual basis
- Offsetting requirements on a three-year basis

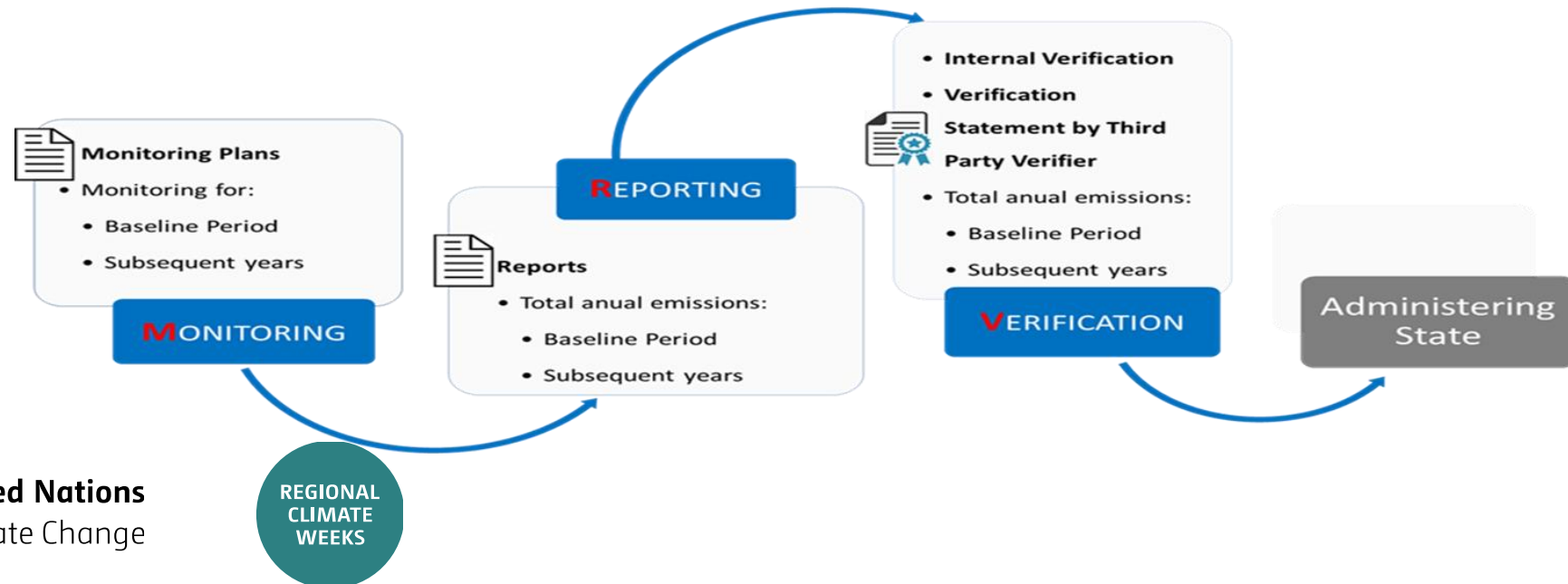


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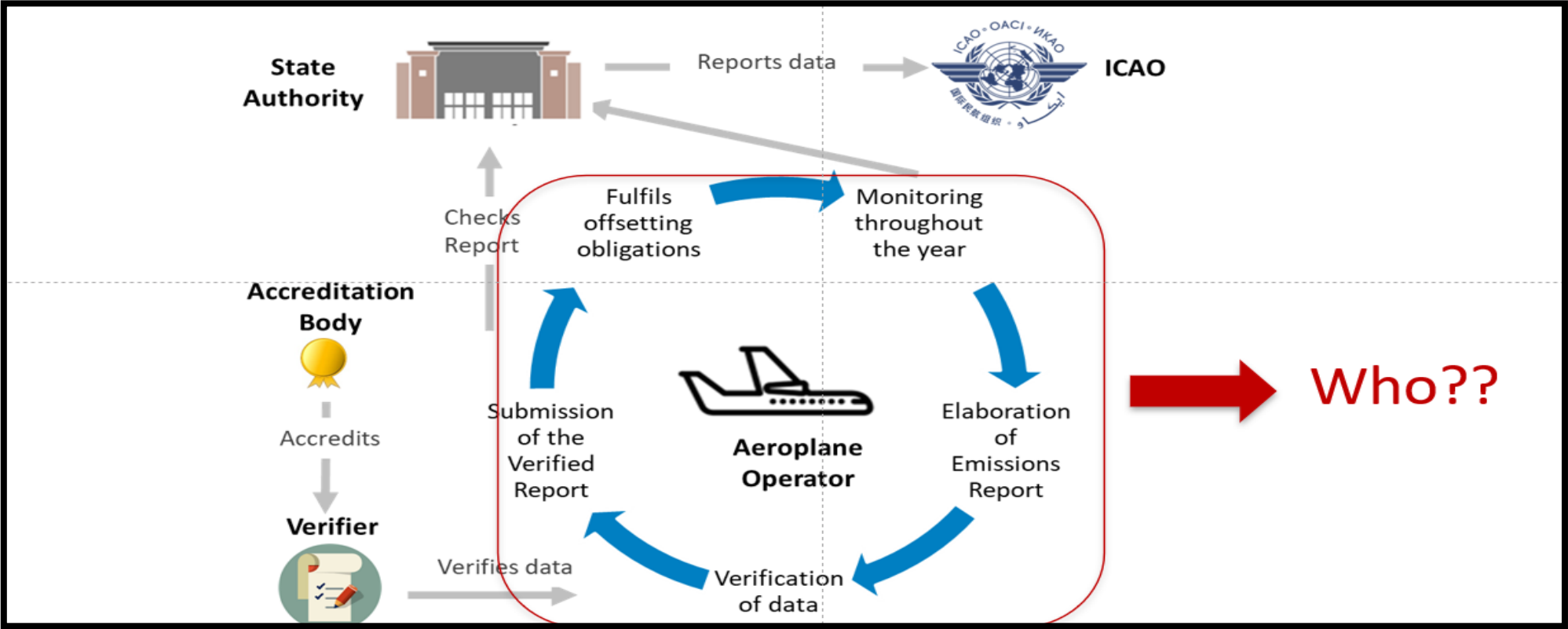


MRV under CORSIA

- A key component of CORSIA implementation
 - Needed to determine the CORSIA baseline
 - Needed to collect information on international aviation CO2 emissions on an annual basis and compare emissions from 2021 against the baseline emissions.
- Not all flights subject to offsetting requirements

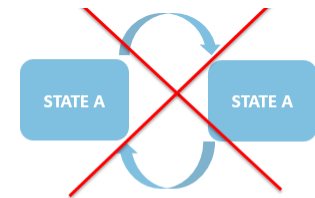
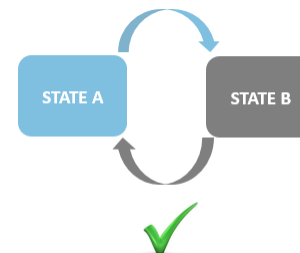


Applicability of MRV requirements



Applicability of MRV requirements

- MRV requirements apply to aeroplane operators that:
 - Use of airplane with Max. Certified take-off mass of 5,700 Kg.
Flights performed with smaller aircraft not accounted for.
All helicopters + aeroplanes with MTOM $\leq 5,700\text{kg}$ excluded
 - Performs international flights on or after 1/1/2019



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Applicability of MRV requirements

→ Excluding humanitarian, medical & firefighting

(Also the preceding or following flight if performed with same aeroplane and was required the humanitarian, medical or firefighting flight or to reposition the aeroplane for its next activity)

Civil operations: Scheduled flights, Non-scheduled flights, Cargo, Business aviation, General aviation are covered

Heads of State flights, Military, Customs and police not covered

→ **Considering all the above, it produces > 10,000 tonnes of CO₂**

Equivalent to aprox. 4 million litres of fuel



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M-Monitoring of CO2 Emissions

- All aeroplane operators with CORSIA MRV requirements are required to monitor, report and verify CO2 emissions from international flights every year starting on 1 January 2019
- The aeroplane operator **monitors and records fuel use** from international flights
- Requirement for the MRV of CO2 emissions is independent from CORSIA offsetting



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Monitoring of CO2 Emissions

- **Who monitors?:** The aeroplane operator
- **When?:** Every year. Starting in 2019
- **How?:** According to a CORSIA Fuel Monitoring Method or CORSIA Estimation Tool
- **Tool:** Emissions Monitoring Plan
- **Where to look:**
 - Annex 16 Volume IV Chapter 2 Appendix 2,3 and 4
 - ETM Doc 9501 Chapter 3.1 and Appendix 1.1

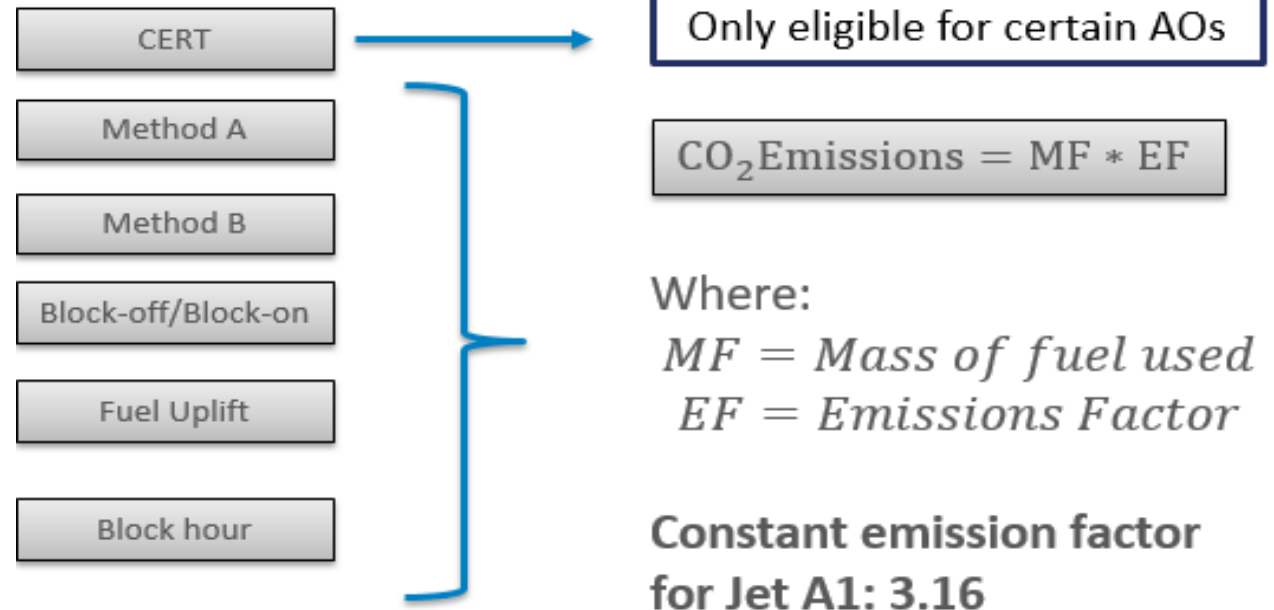


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How to monitor

- Two possible ways of monitoring, depending on volume of emissions of the operator:
 - Using one of the five CORSIA Fuel Use Monitoring Methods and then calculating CO₂ emissions from the fuel use.
 - ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT)



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EMP-Emissions Monitoring Plan

EMP: Tool by which the operator identifies the most appropriate means and methods for CO₂ emissions monitoring and record of fuel use (The AO can use alternative eligible fuel and claim their emissions reductions as long as they comply with the CORSIA sustainability criteria)

To be submitted only once unless there are material changes to the operator's procedures

CORSIA EMISSIONS MONITORING PLAN (EMP)

CONTENTS

- 1 [Version control of Emissions Monitoring Plan](#)
- 2 [Aeroplane operator identification and description of activities](#)
- 3 [Fleet and operations data](#)
- 4 [Methods and means for calculating emissions](#)
 - 4.1 [Fuel Use Monitoring Method: Method A](#)
 - 4.2 [Fuel Use Monitoring Method: Method B](#)
 - 4.3 [Fuel Use Monitoring Method: Block-off / Block-on](#)
 - 4.4 [Fuel Use Monitoring Method: Fuel Uplift](#)
 - 4.5 [Fuel Use Monitoring Method: Fuel Allocation with Block Hour](#)
 - 4.6 [ICAO CORSIA CO₂ Estimation and Reporting Tool \(CERT\)](#)
- 5 [Data management, data flow, control system, risk analysis and data gaps](#)

Template Information

Template provided by:	
Version (publication date):	

Note: For the purpose of this template, international flight is defined as in Annex 16, Volume IV, Part II, Chapter 1, 1.1.2, and Chapter 2, 2.1.



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R-Reporting

- **Who reports?:** The aeroplane operator and the State
- **When?:** Every year. Starting in 2020 (for 2019 data). Starting in 2020 the operator had to submit to the State a copy of a Verified Emissions Report and a copy of an associated Verification Report by 31 May (From 2022 it should be by 30 April)
- **Tools:**
 - Aeroplane Operator Emissions Report
 - State Report to ICAO through the CCR
- **Guidance:**
 - Annex 16 Volume IV Chapter 2 Appendix 5.
 - ETM Doc 9501 Chapter 3.2 and Appendix 1.2

CORSIA
EMISSIONS REPORT (ER)

CONTENTS

- 1 [Aeroplane operator identification and description of activities](#)
- 2 [Underlying basic information of the Emissions Report](#)
- 3 [Aeroplane fleet and fuel types](#)
- 4 [Fuel density](#)
- 5. [Reporting](#)
 - 5.1 [Reporting - State pairs](#)
 - 5.2 [Reporting - Aerodrome pairs](#)
- 6 [Data gaps](#)

Template Information

Template provided by:	
Version (publication date)	

Note: For the purpose of this template, international flight is defined as in Annex 16, Volume IV, Part II, Chapter 1, 1.1.2, and Chapter 2, 2.1.



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R-Reporting CEF (CORISIA Eligible Fuel)

- **CORISIA eligible fuel:** A CORISIA sustainable aviation fuel or a CORISIA lower carbon aviation fuel, which an AO may use to reduce its offsetting requirements.
- The AO to indicate in the ER if it uses CORISIA Eligible fuels to attach an additional CORISIA Eligible Fuels Supplementary Information
- In this template the AO should include
 - Emissions reductions claimed
 - Fuel type, mass and Life Cycle Emissions value (LSf)
 - Evidence of compliance with Sustainability Criteria

CORISIA
**CORISIA ELIGIBLE FUELS
SUPPLEMENTARY INFORMATION***
(* supplementary information to the Emissions Report from aeroplane operator to State)
CONTENTS
[Template information](#)
[Aeroplane operator identification and reporting information](#)
[CORISIA eligible fuel claim form](#)
[Summary of CORISIA eligible fuels information](#)

Template Information

Template provided by:	
Version (publication date):	



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V-Verification

- **Who verifies?:** The aeroplane operator (recommended) , a Verification Body and the State
- **When?:** Every year. Starting in 2020 (for 2019 data), now 2021 for 2020 data
- **Tools:**
 - Emissions Report and Verification Report (contains the verification statement and required supporting information)
 - Emissions Cancellation Report and Verification Report
- **Guidance:**
 - Annex 16 Volume IV Chapter 2 2.4. Appendix 6.
 - ETM Doc 9501 Chapter 3.3
 - ISO 14064-3-2019, ISO 14065:2020, 17029:2019



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CORSA	
Verification Report	
CONTENTS	
Scope of Verification Report	
Identification	
Time allocation and scope of the verification	
General information	
Process and analysis	
Conclusions	
Concluding verification statement	
Template Information	
Template provided by:	
Version (publication date):	

V-Verification

- Verification of CO2 emissions is to ensure that the data is accurate and free of errors
- The operator shall engage a VB, from the list of accredited bodies, within the ICAO document “CORSIA Central Registry (CCR): Information and Data for Transparency”, latest Version, December 2022
- The aeroplane operator is recommended to conduct a verification of its data before submitting it to the VB. It does not replace the requirement for third-party verification.
- The VB must be Accredited by a National Accreditation Body (NAB), who shall be working in accordance with ISO/IEC 17011:2017 (Conformity assessment — Requirements for accreditation bodies accrediting conformity assessment bodies)
- The VB is required to conduct the verification according to ISO Standard 14064-3:2019
- The State must perform an order of magnitude check of the Emissions Report



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CCR-Tool for the SA to report to ICAO

The screenshot displays the CCR-Tool for the SA to report to ICAO interface. On the left is a dark blue sidebar with the CORSIA logo and three menu items: 'Report CORSIA Eligible Fuels' (0), 'Report Cancelled Emissions Units' (0), and 'Service Request' (0). The main content area has a light blue background. At the top, there are two links: 'View ICAO State' and 'View CCR User Profile'. Below these are six report cards arranged in two rows of three. Each card has a title, a count, a search bar, and 'View' and 'Add' buttons. The reports are: 'Report Aeroplane Operators' (1), 'Report Verification Bodies' (0), 'Report CO2 Emissions' (0), 'Report CORSIA Eligible Fuels' (0), 'Report Cancelled Emissions Units' (0), and 'Service Request' (0). To the right of the top row of reports is a white box containing a list of dates and events, and a section titled 'User Guides' with four links to PDF guides. At the bottom of the interface, there is a footer with the text 'Property of ICAO | Email To: ccr@icao.int' and a row of links: 'Terms of Use Agreement', 'Privacy Policy', 'Third-Party Licenses', and 'Cookie Policy'.

Report CORSIA Eligible Fuels 0

Report Cancelled Emissions Units 0

Service Request 0

CORSIA

View ICAO State

View CCR User Profile

- 31 August 2020: Report CO2 Emissions for the year 2019
- 30 November 2020: Report aeroplane operators and verification bodies

User Guides

- CCR Quick Guide Series A.pdf
- CCR Quick Guide Series B.pdf
- CCR Quick Guide Series C.pdf
- CCR Quick Guide Series D.pdf

Report Aeroplane Operators 1

Search [] [Q]

View Add

Report Verification Bodies 0

Search [] [Q]

View Add

Report CO2 Emissions 0

Search [] [Q]

View Add

Report CORSIA Eligible Fuels 0

Search [] [Q]

View Add

Report Cancelled Emissions Units 0

Search [] [Q]

View Add

Service Request 0

Search [] [Q]

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CORSIA- Calculation of offsetting

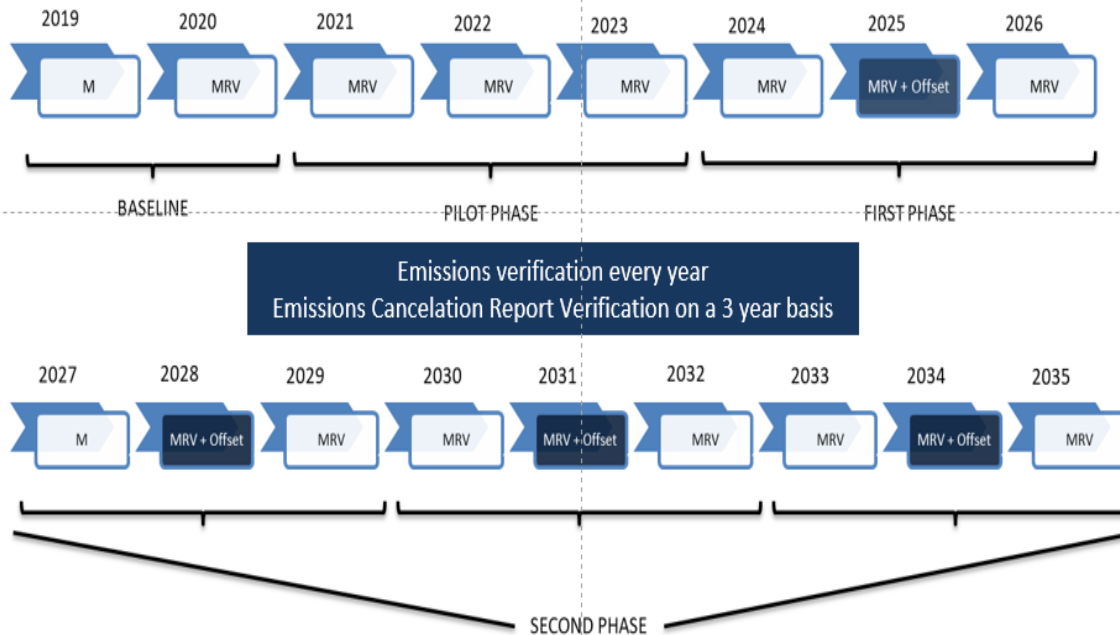


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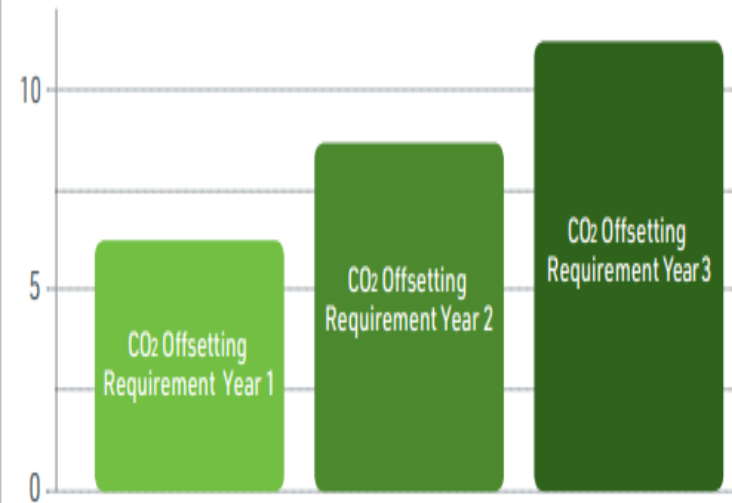
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Remember: offsetting 3-year compliance

- Monitoring, Reporting and Verification (MRV) on an annual basis
- Offsetting requirements on a three-year basis



CO₂ Offsetting Requirements calculated by the State every year



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Offsetting Formula

$$\text{Operator's annual emissions subject to offsetting requirements} \times \text{Growth Factor} = \text{CO}_2 \text{ offsetting requirements}$$

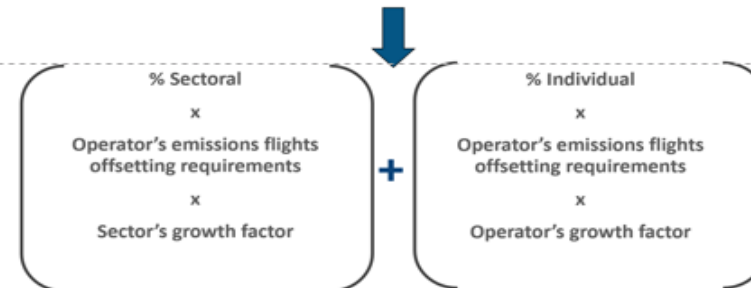
→ The total amount of emissions to be offset is distributed among individual AOs according to a formula and a dynamic calculation and based on the sectoral growth factor and the individual CO₂ emissions of the AO.

$$OR_y = \%S_y * (OE_y * SGF_y) + \%O_y * (OE_y * OGF_y)$$

where:

OR_y = Aeroplane operator's offsetting requirements in the given year y;
 OE_y = Aeroplane operator's CO₂ emissions covered by 3.1 in the given year y;
 %S_y = Per cent Sectoral in the given year y;
 %O_y = Per cent Individual in the given year y where %O_y = (100% - %S_y);
 SGF_y = Sector's Growth Factor; and
 OGF_y = Aeroplane operator's Growth Factor.

Offsetting obligation for the operator in a given year



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Offsetting Formula

$$\text{Operator's annual emissions subject to offsetting requirements} \times \text{Growth Factor} = \text{CO}_2 \text{ offsetting requirements}$$

Sectoral Growth Factor is calculated by ICAO every year based on the reported data by the States + with gap filling by ICAO (example for 2021 data. The one for 2022 to be published by ICAO end of October 2022).

Total 2021 CO ₂ emissions for all State pairs subject to offsetting requirements (SE_y)	167,142,002 ^a
Total 2019 CO ₂ emissions for all State pairs subject to offsetting requirements in the year 2021 ($SE_{B,y}$)	341,380,188 ^a
2021 Sector's Growth Factor (SGF_y)	0.0 ^b

This ICAO CORSIA document contains the Sector's Growth Factor (SGF) that will be used by each State in the calculation of the annual amount of CO₂ emissions required to be offset, by each aeroplane operator attributed to it, prior to consideration of the CORSIA eligible fuels, in accordance with Annex 16, Volume IV, Part II, Chapter 3, 3.2.

The 2021 SGF value (SGF_y) is provided in the table below and has been calculated using the formula in Note 1 to Annex 16, Volume IV, Part II, Chapter 3, 3.2.1:

$$SGF_y = \frac{(SE_y - SE_{B,y})}{SE_y}$$

where:

- y is the year 2021;
- B is the year 2019 according to Assembly Resolution A41-22, paragraph 11 b), which specifies that, during the pilot phase, the baseline of CORSIA will be based on the 2019 CO₂ emissions;
- SE_y is the total 2021 CO₂ emissions for all State pairs subject to offsetting requirements based on the participation of 88 States as per edition 1 of ICAO CORSIA document "CORSIA States for Chapter 3 State Pairs";¹
- $SE_{B,y}$ is the total 2019 CO₂ emissions for all State pairs subject to offsetting requirements in 2021 based on the participation of 88 States as per edition 1 of ICAO CORSIA document "CORSIA States for Chapter 3 State Pairs".¹



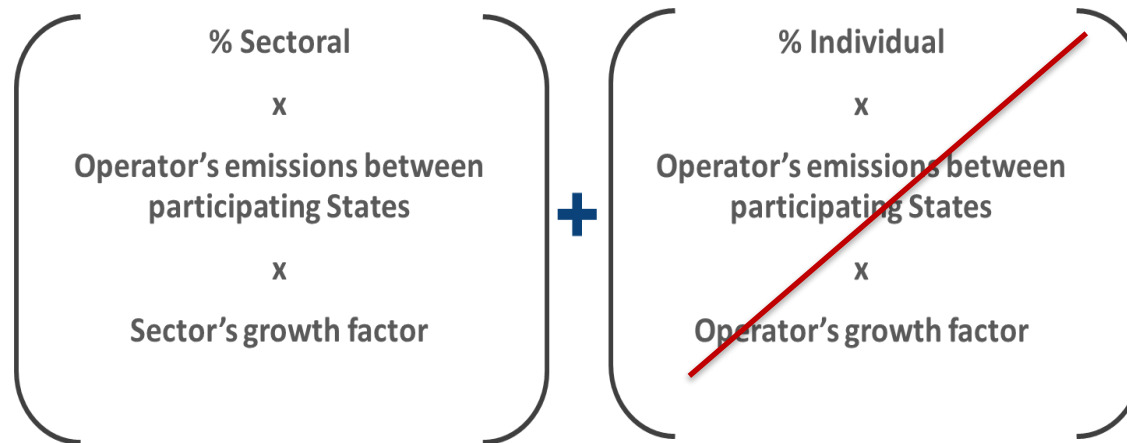
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Understanding the offsetting 'formula'

- 2021-2032: 100% sectoral 0% individual
- 2033-2035: 85% sectoral 15% individual

This means that from 2021 to 2032 there is only one part of the formula to use:

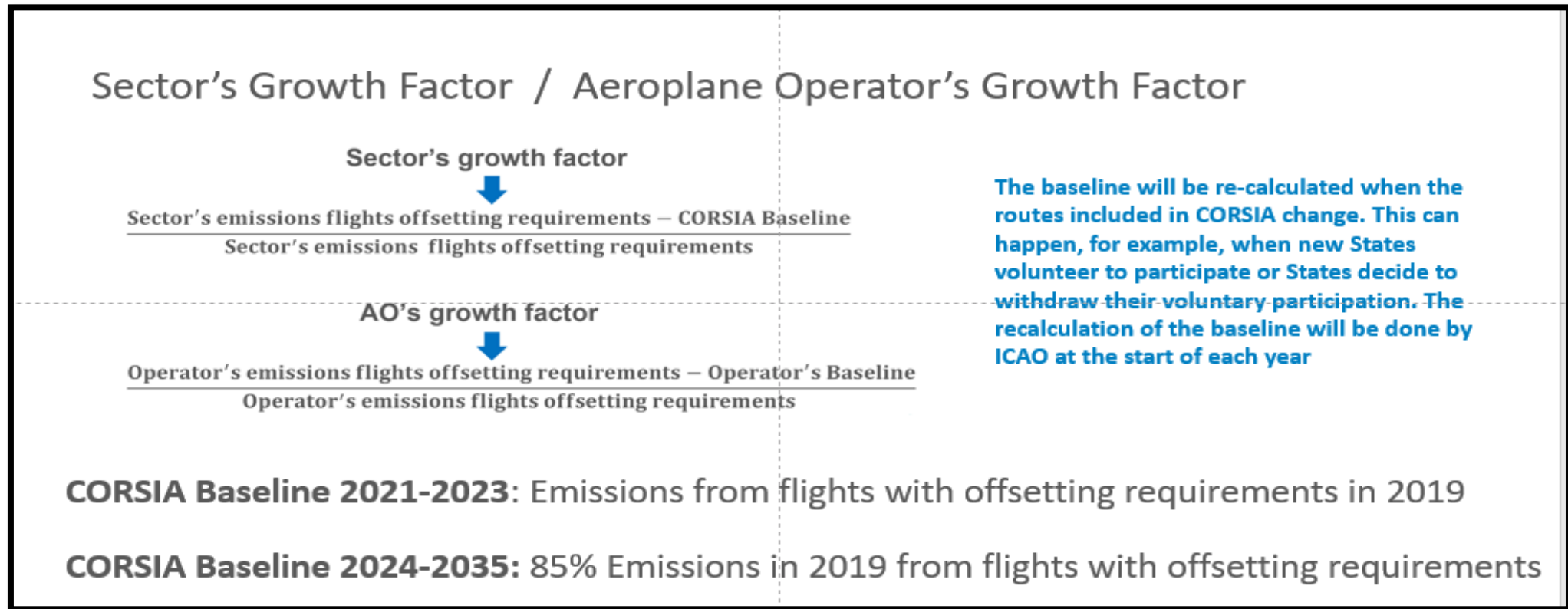
$$\left(\begin{array}{c} \% \text{ Sectoral} \\ \times \\ \text{Operator's emissions between} \\ \text{participating States} \\ \times \\ \text{Sector's growth factor} \end{array} \right) + \left(\begin{array}{c} \% \text{ Individual} \\ \times \\ \text{Operator's emissions between} \\ \text{participating States} \\ \times \\ \text{Operator's growth factor} \end{array} \right)$$




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Understanding the offsetting 'formula'



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Total Offsetting Requirements with CEF

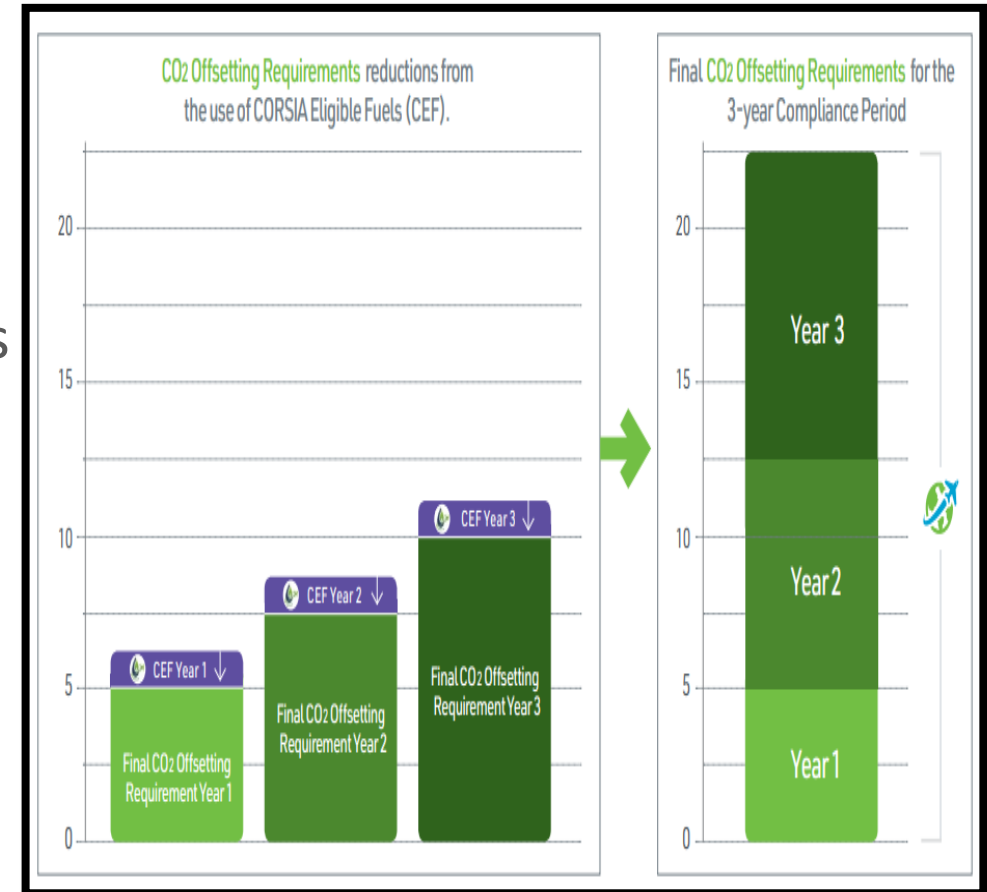
→ This is calculated **by State** as follows:

$$\text{FOR} = (\text{OR}_1 + \text{OR}_2 + \text{OR}_3) - (\text{ER}_1 + \text{ER}_2 + \text{ER}_3)$$

FOR : AO's total final offsetting requirements

OR: AO's offsetting requirements

ER: Emission reductions from the use of CEF



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An example calculation in 2025 (relating to 2024 emissions and the 85% baseline)- From the formula to the template-

a) Summary of reported international flights and emissions

Total CO ₂ emissions from international flights (in tonnes):	17.979
Total CO ₂ emissions from flights subject to offsetting requirements (in tonnes):	10.378
Total number of international flights during reporting period:	346
Total number of international flights subject to offsetting requirements:	127
Total emissions reductions claimed from the use of CORSIA eligible fuels (in tonnes):	

CORSIA baseline (85% 2019): (illustrative purpose) 290 MT CO₂

Sector emissions in 2024: (illustrative purpose) 310 MT CO₂

2021-2032: 100% sectoral 0% individual

Operator 'Y' emissions in 2024: 10,378 tCO₂

Sector Growth Factor = $\frac{310 - 290}{310} = 0.0645$

Calculation for operator 'Y' = 10,378 x 0.0645 = 669.381 offsets



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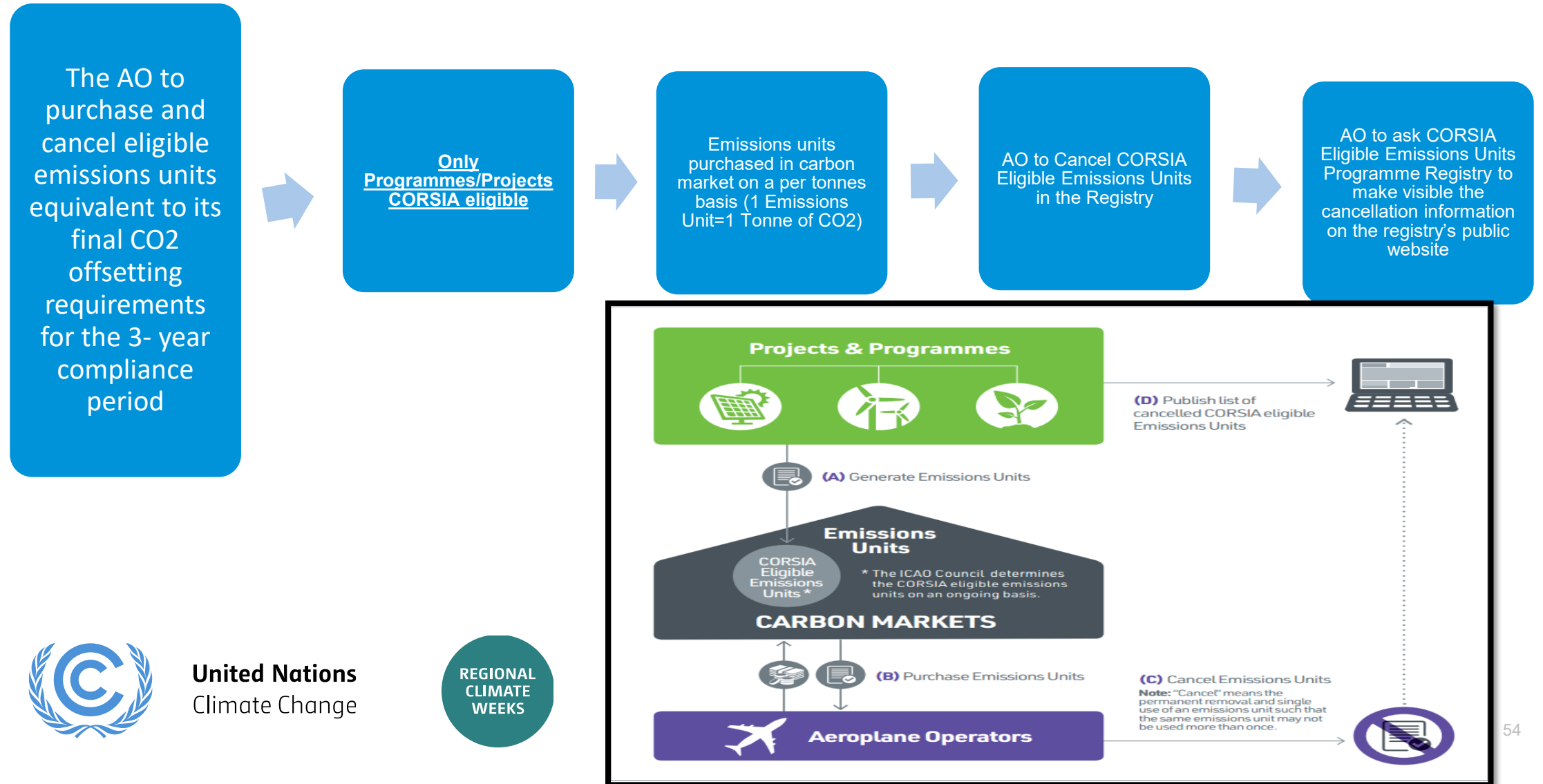
CORSIA Eligible Emissions Units



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WEEKS

Offsetting process: AO actions



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WEEKS

CORSIA Emissions Unit Eligibility Criteria

- Criteria against which programmes will be assessed
- Approved in March 2019 by ICAO Council
- Two types:

- 1) Program Design criteria
- 2) Offsetting criteria



ICAO document

CORSIA Emissions Unit Eligibility Criteria



March 2019

CORSIA
Carbon Offsetting and Reduction Scheme for International Aviation



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WEEKS

CORSIA Program and Offset Criteria

Programme Design Elements Assessment Criteria

Clear Methodologies and Protocols, and their Development Process
Scope Considerations
Offset Credit Issuance and Retirement Procedures
Identification and Tracking
Legal Nature and Transfer of Units
Validation and Verification procedures
Program Governance
Transparency and Public Participation Provisions
Safeguards System
Sustainable Development Criteria
Avoidance of Double Counting, Issuance and Claiming

Carbon Offset Credit Integrity Assessment Criteria

Are additional
Are based on a realistic and credible baseline
Are quantified, monitored, reported, and verified
Have a clear and transparent chain of custody
Represent permanent emissions reductions
Assess and mitigate against potential increase in emissions elsewhere
Are only counted once towards a mitigation obligation
Do no net harm

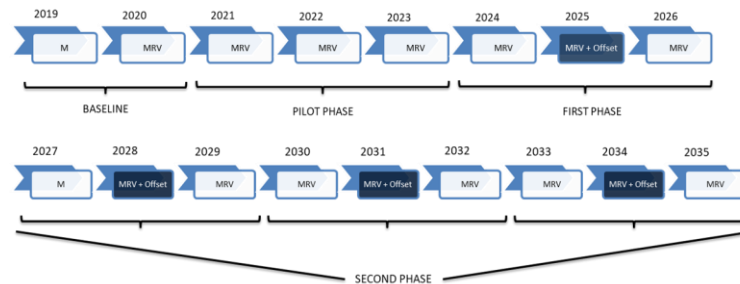


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Offsetting Requirements and Cancellation

- Aeroplane operators will meet their offsetting requirements by **purchasing and cancelling CORSIA eligible emissions units**
- Aeroplane operators will provide evidence to the State of the offsets it has purchased and cancelled every three years starting in 2025 by submitting to the State a **Verified Emission Units Cancellation Report (EUCR)**



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CORSIA Eligible Emission Programmes for the Pilot Phase (2021 – 2023)

1. American Carbon Registry
2. Architecture for REDD+ Transactions
3. China GHG Voluntary Emission Reduction Program
4. Clean Development Mechanism
5. Climate Action Reserve
6. Global Carbon Council
7. The Gold Standard
8. Verified Carbon Standard
9. Forest Carbon Partnership Facility Program



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Eligible Emission Units. Pilot Phase

Vintage and timeframe conditions for Pilot Phase offsetting requirements

Projects generating units must have started their first crediting period from
1 January 2016

Reductions must occur no later than 31 December 2020, inclusive *



***Note:** American Carbon Registry and Architecture for REDD+ Transactions
allows for emission reductions through 31 December 2023



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Eligible Emission Programmes. First Phase (Not definitive)

1. American Carbon Registry
2. Architecture for REDD+ Transactions



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TAB Work Programme and Timeline 2023

From 24 February to 31 March 2023, ICAO invited emissions unit programmes to apply for assessment by the Technical Advisory Body (TAB) against the CORSIA Emissions Unit Criteria (EUC) to supply CORSIA Eligible Emissions Units for the 2024 – 2026 compliance period (first phase).

ICAO received eleven responses to the call for applications.

1. [Biocarbon Fund Initiative for Sustainable Forest Landscapes](#)
2. [Biocarbon Registry](#)
3. [Carbonpath](#)
4. [Cercarbono](#)
5. [Forest Carbon Partnership Facility](#)
6. [International Carbon Registry](#)
7. [J-Credit](#)
8. [KCCI Carbon Standard](#)
9. [Premium Thailand Voluntary Emission Reduction Program](#)
10. [Riverse](#)
11. [Socialcarbon](#)



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TAB Work Programme and Timeline 2023

Activities	2023 TAB Work Programme and Timeline																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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1.1 ICAO opens the call for 2023 assessment cycle applications (24 Feb 2023)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

Note 1: The above TAB Work Programme and Timeline is subject to further changes.
Note 2: The call for applications for 2023 assessment cycle, for the first phase of CORSIA, will open in the first quarter of 2023.



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CORSIA Eligible Emissions Units

-examples of CORSIA Eligible projects-

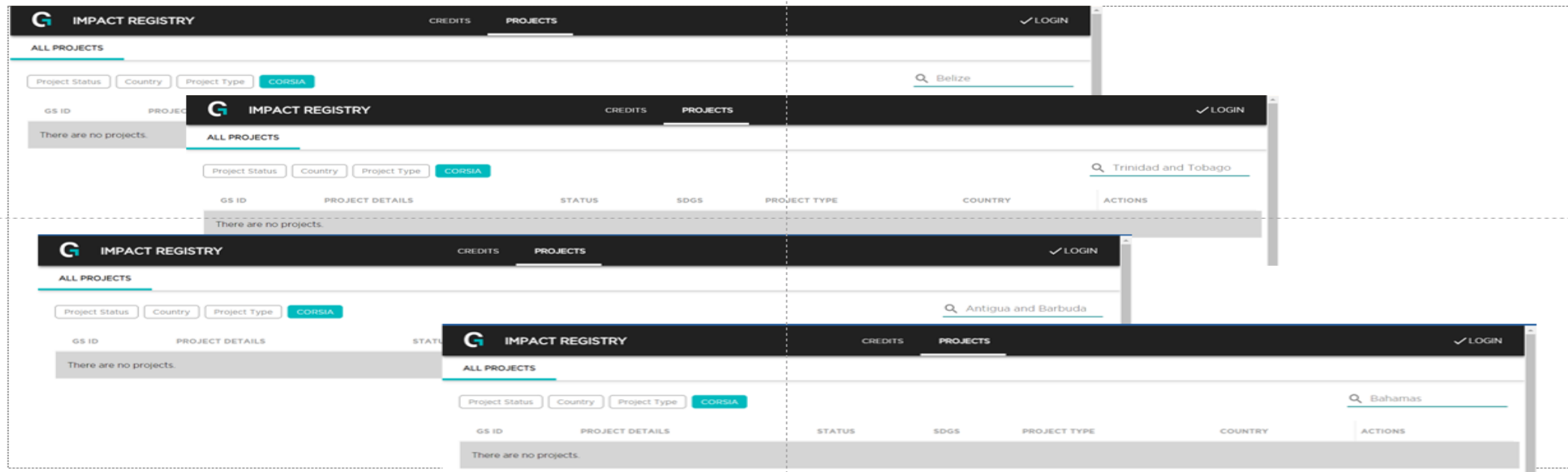


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Projects in the Caribbean-(CORSIA eligible)

GSF: in the Caribbean-no CORSIA eligible



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GSF- Guatemala CORSIA Eligible project

IMPACT REGISTRY

CREDITS

PROJECTS

✓ LOGIN

PROJECTO MIRADOR ENHANCED DISTRIBUTION OF IMPROVED COOKSTOVES IN LATIN AMERICA - SECOND VPA FOR DISTRIBUTION OF DOS POR TRES COOKSTOVES IN GUATEMALA

GS ID

10457

POA GS ID

1988

REGION

Guatemala

PRODUCT

VER

14409

ISSUED

14409

RETIRED

CERTIFIED SDG IMPACTS

1

2

3

4

5

7

8

13

PROJECT TYPE

Energy Efficiency - Domestic


Gold Standard Certified Project

STATUS

PROJECT DEVELOPER	Projecto Mirador		
METHODOLOGY	GS TPDTEC v 2	CREDITING PERIOD	May 13, 2019 — May 12, 2024
STANDARDS VERSION	Gold Standard for the Global Goals	ANNUAL ESTIMATED CREDITS	100,000
PROJECT SCALE	Large Scale	PROJECT TYPE	Energy Efficiency - Domestic
CORSIA	Eligible		

DESCRIPTION

Projecto Mirador Enhanced Distribution of Improved Cookstoves in Latin America (GS1988). The proposed large scale Voluntary PoA has been designed for distribution of Improved Cookstoves in Central America. It aims to disseminate technologies with strong social impacts to underserved, poor, rural populations of Central America in order to improve their living conditions in a sustainable way. The technologies selected in this PoA are improved cookstoves. The Project Developer upgraded from a stand-alone project to a Programme of Activities (PoA) where the present VPA assessed is the former stand-alone project implemented in Guatemala.



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REGIONAL CLIMATE WEEKS

65

GSF- Colombia CORSIA Eligible project

IMPACT REGISTRY

CREDITS

PROJECTS

✓


LOGIN

GS ID


4822

REGION

Colombia



PRODUCT



VER

224498


ISSUED

1274


RETIRED

CERTIFIED SDG IMPACTS


1




7




8



13




PROJECT TYPE



Small, Low - Impact Hydro

STATUS



Gold Standard Certified Project

PROJECT DEVELOPER

Environmental Business and Technologies Ltda'

METHODOLOGY

ACM0002 Grid-connected electricity generation from renewable sources


STANDARDS VERSION

Gold Standard for the Global Goals

PROJECT SCALE

Large Scale

CORSIA



Eligible

CREDITING PERIOD

Jan 29, 2023 — Jan 28, 2030

ANNUAL ESTIMATED CREDITS

51,535

PROJECT TYPE

Small, Low - Impact Hydro

DESCRIPTION

Barroso hydroelectric project is a run-of-river renewable small hydroelectric plant located at the left margin of the Barroso River in the municipality of Salgar, Department of Antioquia, with an effective power generation capacity of 18.69 MW and a predicted supply of 131.24 GWh per year to feed the National Interconnected System of Colombia.



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WEEKS

GSF- Perú CORSIA Eligible project

IMPACT REGISTRY

CREDITS
PROJECTS

GS ID
5107

POA GS ID
1005

REGION
Peru

PRODUCT
VER
203533
ISSUED
49148
RETIRED

CERTIFIED SDG IMPACTS

PROJECT TYPE
Energy Efficiency - Domestic
STATUS
Gold Standard Certified Project

PROJECT DEVELOPER	Livelihoods Fund SICAV SIF		
METHODOLOGY	GS TPDTEC v 2	CREDITING PERIOD	Nov 01, 2016 — Oct 31, 2023
STANDARDS VERSION	Gold Standard for the Global Goals	ANNUAL ESTIMATED CREDITS	69,466
PROJECT SCALE	Large Scale	PROJECT TYPE	Energy Efficiency - Domestic
CORSIA	Eligible		

DESCRIPTION
Dissemination of 30,000 Huancavelica and Ayacucho

IMPACT REGISTRY

CREDITS
PROJECTS

GS ID
4296

POA GS ID
1005

REGION
Peru

PRODUCT
VER
124822
ISSUED
30016
RETIRED

CERTIFIED SDG IMPACTS

PROJECT TYPE
Energy Efficiency - Domestic
STATUS
Gold Standard Certified Project

PROJECT DEVELOPER	MICROSOL SAS		
METHODOLOGY	AMS-I.C. Thermal energy production with or without electricity	CREDITING PERIOD	Jan 19, 2016 — Jan 18, 2023
STANDARDS VERSION	Gold Standard for the Global Goals	ANNUAL ESTIMATED CREDITS	32,677
PROJECT SCALE	Large Scale	PROJECT TYPE	Energy Efficiency - Domestic
CORSIA	Eligible		

DESCRIPTION
Dissemination of 9,544 improved cook-stoves in the regions of Pasco, Junin and the Amazonas in Peru, designed for families using a traditional cookstove or partially traditional cookstove.



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WEEKS

VERRA Registry- no projects in the Caribbean

The image displays four overlapping screenshots of the VERRA Project Search interface. Each screenshot shows the 'PROJECT SEARCH' sidebar with various filters. The main search results area is visible in the largest screenshot on the right, showing a message: 'No search results found. Please revise search criteria and try again.'

VERRA Standards for a Sustainable Future

NEWS PUBLIC REPORT OPEN AN ACCOUNT LOGIN

PROJECT SEARCH

PROJECT TYPE

COUNTRY/AREA

- Bahrain
- Bangladesh
- Belize
- Benin

ADDITIONAL CERTIFICATION

- Article 6 Authorized
- Carbon Dioxide Remc
- CORSIA – Pilot Phase
- Crown Standard
- FSC

Issuance Date **Sustainable Development Goals** **Vintage Start** **Vintage End** **ID** **Name** **Count**

VERRA Standards for a Sustainable Future

NEWS PUBLIC REPORT OPEN AN ACCOUNT LOGIN

PROJECT SEARCH

PROJECT TYPE

COUNTRY/AREA

- Denmark
- Djibouti
- Dominican Republic
- Ecuador

ADDITIONAL CERTIFICATION

- Article 6 Authorized
- Carbon Dioxide Remc
- CORSIA – Pilot Phase
- Crown Standard
- FSC

VERRA Standards for a Sustainable Future

NEWS PUBLIC REPORT OPEN AN ACCOUNT LOGIN

PROJECT SEARCH

PROJECT TYPE

COUNTRY/AREA

- Sri Lanka
- Sudan
- Suriname
- Switzerland

ADDITIONAL CERTIFICATION

- Article 6 Authorized
- Carbon Dioxide Remc
- CORSIA – Pilot Phase
- Crown Standard
- FSC

VERRA Standards for a Sustainable Future

NEWS PUBLIC REPORT OPEN AN ACCOUNT LOGIN

PROJECT SEARCH

PROJECT TYPE

COUNTRY/AREA

- Australia
- Bahamas
- Bahrain
- Bangladesh
- Belize

ADDITIONAL CERTIFICATION

- Article 6 Authorized
- Carbon Dioxide Remc
- CORSIA – Pilot Phase
- Crown Standard
- FSC

Issuance Date **Sustainable Development Goals** **Vintage Start** **Vintage End** **ID** **Name** **Count**


No search results found. Please revise search criteria and try again.



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WEEKS

Verra Registry- Latin America- Argentina


Standards for a Sustainable Future

[NEWS](#)
[PUBLIC REPORT](#)
[OPEN AN ACCOUNT](#)
[LOGIN](#)

Argentina

Australia

ADDITIONAL CERTIFICATION

Article 6 Authorized – Carbon Dioxide Remc

CORSIA – Pilot Phase, Crown Standard

ISSUANCE STATUS

-Select-

SERIAL NUMBER BLOCK START

SERIAL NUMBER BLOCK END

ISSUANCE DATE (FROM)

day/month/year

ISSUANCE DATE (TO)

Search

Clear Search

Issuance Date	Sustainable Development Goals	Vintage Start	Vintage End	ID	Name	Count
21/11/2022		12/11/2018	31/12/2018	1987	GENNEIA WIND PROJECTS IN ARGENTINA	Argent
21/11/2022		01/01/2019	31/12/2019	1987	GENNEIA WIND PROJECTS IN ARGENTINA	Argent
21/11/2022		01/01/2019	31/12/2019	1987	GENNEIA WIND PROJECTS IN ARGENTINA	Argent
21/11/2022		01/01/2019	31/12/2019	1987	GENNEIA WIND PROJECTS IN ARGENTINA	Argent

1


1 - 36 of 36 items



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Verra Registry- Latin America- Brazil


Standards for a Sustainable Future

[NEWS](#)
[PUBLIC REPORT](#)
[OPEN AN ACCOUNT](#)
[LOGIN](#)

PROJECT TYPE

COUNTRY/AREA

- Belize
- Benin
- Bolivia
- Brazil**

ADDITIONAL CERTIFICATION

- Article 6 Authorized – Carbon Dioxide Remo
- CORSIA – Pilot Phase,**
- Crown Standard

ISSUANCE STATUS

-Select-

SERIAL NUMBER BLOCK START

SERIAL NUMBER BLOCK END

[Search](#) [Clear Search](#)

Issuance Date	Sustainable Development Goals	Vintage Start	Vintage End	ID	Name	Count
01/06/2023		01/01/2018	31/05/2018	1804	Combio Renewable Biomass Project - Três Marias	Brazil
26/04/2023		01/10/2020	31/12/2020	1812	VTRM Renewable Energy	Brazil
15/03/2023		01/01/2018	31/05/2018	1804	Combio Renewable Biomass Project - Três Marias	Brazil
15/03/2023		01/01/2018	31/05/2018	1804	Combio Renewable Biomass Project - Três Marias	Brazil

1 2 3
1 - 50 of 130 items



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Verra Registry- Latin America- Colombia

VERRA
Standards for a Sustainable Future

NEWS PUBLIC REPORT ▾

OPEN AN ACCOUNT LOGIN

PROJECT TYPE

COUNTRY/AREA

Chile
China
Colombia
Comoros
Congo

ADDITIONAL CERTIFICATION

Article 6 Authorized –
Carbon Dioxide Remo
CORSIA – Pilot Phase,
Crown Standard

ISSUANCE STATUS

-Select-

SERIAL NUMBER BLOCK START

SERIAL NUMBER BLOCK END

Search Clear Search

Issuance Date ▾	Sustainable Development Goals ▾	Vintage Start ▾	Vintage End ▾	ID ▾	Name ▾	Count
16/03/2022		17/04/2017	31/12/2017	1797	El Molino-San Matias hydroelectric projects	Colom
16/03/2022		01/01/2018	31/12/2018	1797	El Molino-San Matias hydroelectric projects	Colom
16/03/2022		01/01/2018	31/12/2018	1797	El Molino-San Matias hydroelectric projects	Colom
16/03/2022		01/01/2019	31/12/2019	1797	El Molino-San Matias hydroelectric projects	Colom


1 - 9 of 9 items



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ART Registry- in the Caribbean

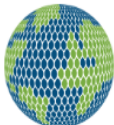
													
Home													
Credit Status													
Date Issued	Program ID	Program Name	Sovereign Program Developer	Standard Version	Vintage	Program Jurisdiction(s)	Program Country	HFLD	Removals	CORSIA Eligible	Credit Status	Quantity of Credits	Credit Serial Numbers
12/1/2022 8:05:12 PM	ART102	Guyana	Guyana Forestry Commission		2020		GUYANA	Yes		Yes	Issued	6,267,852	ART-GY-102-2020-1-1 to 6267852
12/1/2022 8:05:15 PM	ART102	Guyana	Guyana Forestry Commission		2019		GUYANA	Yes		Yes	Issued	2,500,000	ART-GY-102-2019-3-1 to 2500000
12/1/2022 8:05:15 PM	ART102	Guyana	Guyana Forestry Commission		2019		GUYANA	Yes		Yes	Issued	1,978,401	ART-GY-102-2019-3-2500001 to 4478401
12/1/2022 8:05:15 PM	ART102	Guyana	Guyana Forestry Commission		2018		GUYANA	Yes		Yes	Issued	4,752,244	ART-GY-102-2018-5-2500001 to 7252244
12/1/2022 8:05:15 PM	ART102	Guyana	Guyana Forestry Commission		2018		GUYANA	Yes		Yes	Issued	2,500,000	ART-GY-102-2018-5-1 to 2500000
12/1/2022 8:05:15 PM	ART102	Guyana	Guyana Forestry Commission		2017		GUYANA	Yes		Yes	Issued	2,500,000	ART-GY-102-2017-7-1 to 2500000
12/1/2022 8:05:15 PM	ART102	Guyana	Guyana Forestry Commission		2017		GUYANA	Yes		Yes	Issued	5,104,998	ART-GY-102-2017-7-2500001 to 7604998
12/1/2022 8:05:15 PM	ART102	Guyana	Guyana Forestry Commission		2016		GUYANA	Yes		Yes	Retired	1,400	ART-GY-102-2016-9-1 to 1400
12/1/2022 8:05:15 PM	ART102	Guyana	Guyana Forestry Commission		2016		GUYANA	Yes		Yes	Issued	5,367,104	ART-GY-102-2016-9-2500001 to 7867104
12/1/2022 8:05:15 PM	ART102	Guyana	Guyana Forestry Commission		2016		GUYANA	Yes		Yes	Retired	8	ART-GY-102-2016-9-1401 to 1408
12/1/2022 8:05:15 PM	ART102	Guyana	Guyana Forestry Commission		2016		GUYANA	Yes		Yes	Issued	2,498,592	ART-GY-102-2016-9-1409 to 2500000
1 - 11 : 11													
first prev goto next last													



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ART registry: Guyana- retired credits....BUT






















ART

Architecture for
REDD+ Transactions

Home

Retired Credits



Vintage 	Credit Serial Numbers 	Quantity of Credits 	Status Effective 	Program ID 	Program Name 	Program Type 	Standard Version 	Program Jurisdiction(s) 	Program Country 	Date Approved 	Account Holder 	Retirement Reason 	Retirement Reason Details 
2016	ART-GY-102-2016-9-1 to 1400	1,400	06/27/2023	ART102	Guyana	Forest Carbon			GUYANA	12/1/2022 8:05:15 PM	Hess Climate Initiative LLC	Contribution Towards Corporate Climate Pledge	Offsetting Business Travel for 2022
2016	ART-GY-102-2016-9-1401 to 1408	8	07/12/2023	ART102	Guyana	Forest Carbon			GUYANA	12/1/2022 8:05:15 PM	Hess Climate Initiative LLC	Contribution Towards Corporate Climate Pledge AND Host Country NDC	1408 for employee travel 2022

1 - 2 : 2

first

prev

goto

next

last

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Version 2.1.1

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American Carbon Registry

Project Credits Issued																
Date Issued	Project ID	Project Name	Project Developer	Project Type	Project Methodology/Protocol	Methodology/Protocol Version	Verified Removal	ARB Eligible	CORSIA Qualified	Vintage	Total Credits Issued	Credits Issued to Project	Credits Issued to Buffer Pool	Project Site Location	Project Site State	Project Country
05/12/2020	ACR485	Whirlpool HFO Amana 485	328	Industrial Process Emissions	Transition to Advanced Formulation Blowing Agents in Foam Manufacturing and Use	Version 1.0		No	Yes	2016	125,302	125,302	0	Amana	IOWA	US
03/25/2020	ACR514	HFC Emissions Reduction in Spray Foam by Replacement of HFC-245fa Blowing Agent with Solstice LBA® (HFO-1233zd(E)) 2016b	318	Industrial Process Emissions	Transition to Advanced Formulation Blowing Agents in Foam Manufacturing and Use	Version 1.0		No	Yes	2016	55,566	55,566	0	Houston	TEXAS	US
01/28/2020	ACR451	Foam Blowing Agent Project 002B	297	Industrial Process Emissions	Transition to Advanced Formulation Blowing Agents in Foam Manufacturing and Use	Version 1.0		No	Yes	2016	105,696	105,696	0	Rockford, Minnesota	MINNESOTA	US
10/07/2020	ACR446	Foam Blowing Agent Project 001B	297	Industrial Process Emissions	Transition to Advanced Formulation Blowing Agents in Foam Manufacturing and Use	Version 1.0		No	Yes	2016	63,104	63,104	0	Earth City	MISSOURI	US
05/03/2021	ACR479	Advanced Refrigeration US49 - ARS 001	True Manufacturing Co., Inc.	Industrial Process Emissions	Advanced Refrigeration Systems	Version 2.0		No	Yes	2016	199,624	199,624	0	O'Fallon	MISSOURI	US



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Carbon Border Adjustment Mechanism (CBAM)



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EU Carbon Border Adjustment Mechanism (CBAM): Basic principles

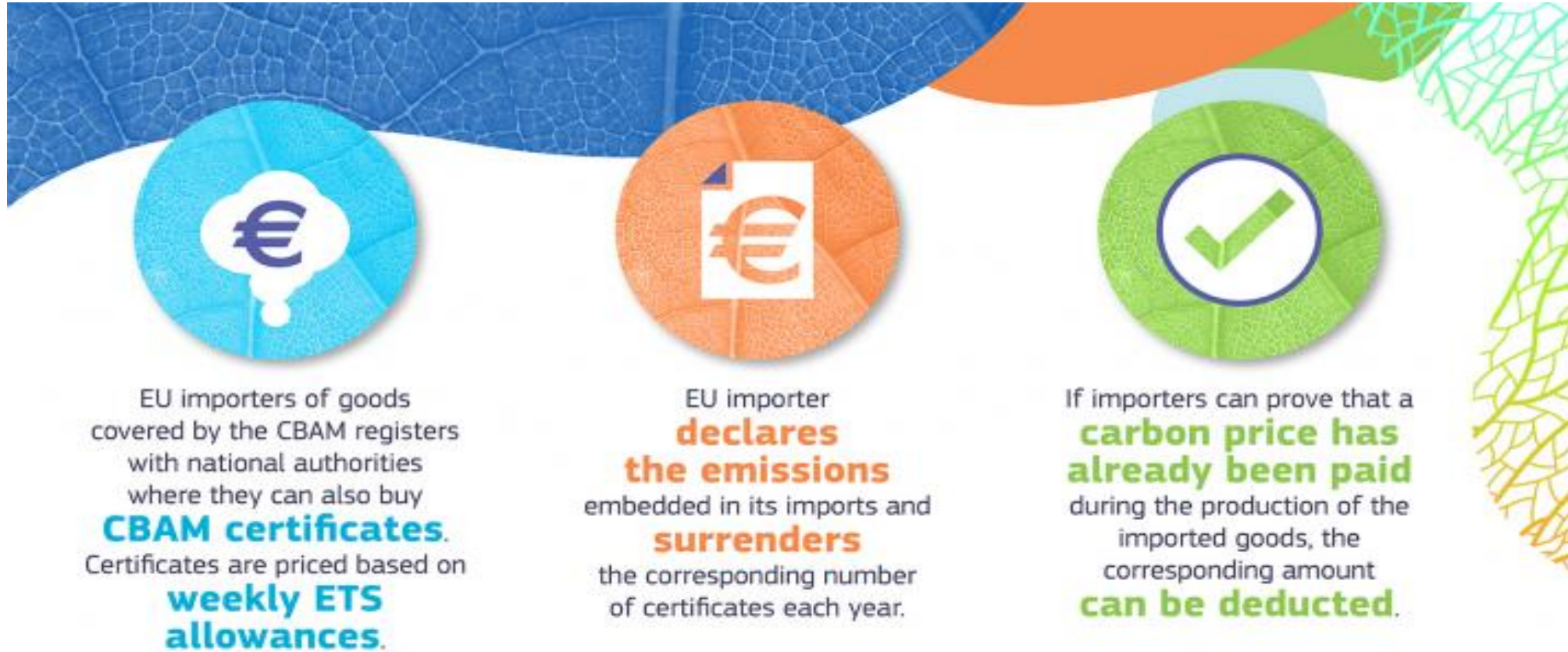
- Stated objective: The CBAM aims to help **reducing the risk of carbon leakage** (the risk of production shifting to jurisdiction with more lax climate policies) by encouraging producers in non-EU countries to **green their production processes**.
- Implementation: A tool to put an equivalent carbon price on the carbon emitted during the production of carbon intensive goods that are entering the EU.
- Its aim is that the EU's climate objectives (in its ETS) are not undermined and to encourage non-EU countries to adopt similar carbon pricing policies.



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How will CBAM work?



#EUGreenDeal



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State of play

- CBAM regulation officially **entered into force** the day following its publication in the Official Journal of the EU on 16 May 2023.
- **Implementing Regulation** was adopted by the Commission on 17 August 2023. This specifies reporting obligations and information sought from EU importers of CBAM goods, provisional methodology for calculating embedded emissions released during the production process of CBAM goods.
- The CBAM **transitional phase on 1 October 2023**, with the first reporting period for importers ending 31 January 2024.



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CBAM - Sectors

In the first Phase:



CEMENT



IRON & STEEL



ALUMINIUM



FERTILISER



ELECTRICITY



HYDROGEN



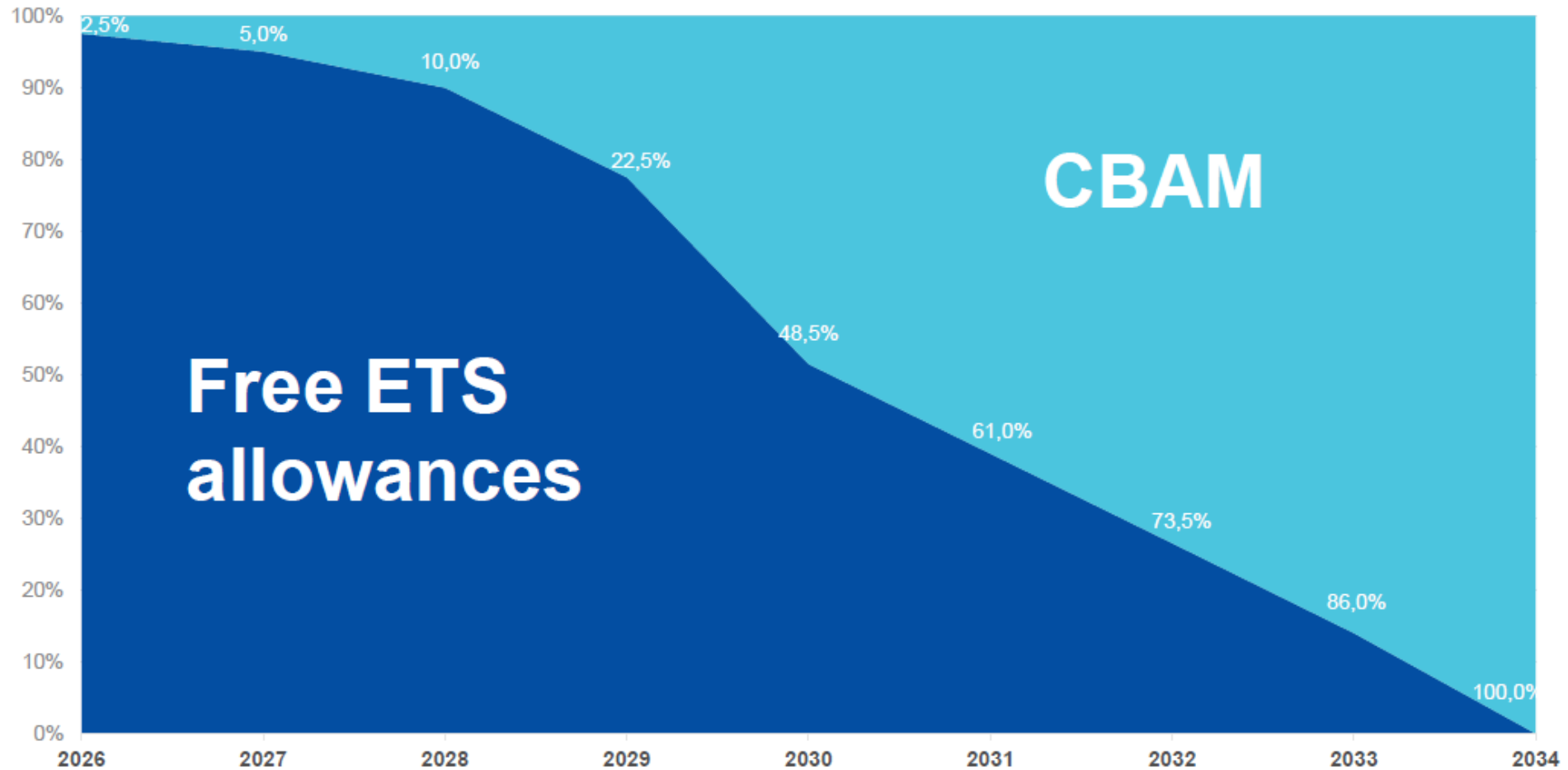
- Includes some precursors and downstream products
- **Selected on the basis of 3 criteria:**
 - *High risk of carbon leakage (High carbon emissions; High level of trade)*
 - *Covering more than >45% of CO2 emissions of ETS sectors*
 - *Practical feasibility*
- In a **second stage**, may be extended to other ETS sectors
 - *potentially include additional products (crude oil, polymers and organic chemicals, non-ferrous metals, etc.)*



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Phasing-out of free allocation / Phasing-in of CBAM



Reporting obligations in the transitional phase and what's coming later

Transitional phase October

2023 -December2025

- **CBAM report containing the following:**
 - Total quantity of goods imported during the preceding quarter
 - Total embedded direct and indirect emissions in those goods
 - The carbon price due in the country of origin for the embedded emissions

→ **Report to be submitted each quarter**

Draft methodology published for feedback between 13 June and 11 July 2023



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Post transitional phase

January 2026 onwards

- **CBAM declaration containing the following:**
 - Total quantity of goods imported during the preceding calendar year.
 - Total embedded emissions in those goods.
 - **Emissions to be verified by EU accredited verifier.**
 - **Total number of CBAM certificates to be surrendered.**
 - The carbon price effectively paid in the country of origin for the embedded emissions

→ **Declaration to be submitted each year.**

Internationally Transferred Mitigation Outcomes (ITMOs)



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Internationally Transferred Mitigation Outcomes (ITMOs)

- Refer to real, verifiable, additional emission reductions/removals as well as mitigation co-benefits resulting from adaptation actions and/or economic diversification plans
- Generated in respect of or representing mitigation from 2021 onwards
- Authorized by a participating Party towards NDC compliance or use for other international mitigation purposes e.g., CORSIA.
- Metrics in which ITMOs may be authorized and transferred could include units of tCO₂eq or non-GHG metrics (e.g., kWh of renewable energy, hectares of forest, policies, measures or qualitative targets) determined by the participating Parties in line with their NDCs.
- **Reporting on the non-GHG trade will have to include information on how it can be converted to CO₂e.*



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ITMOs and NDC Achievement

- ITMOs must be counted only once towards the achievement of NDCs – *apply an accounting measure i.e., Corresponding Adjustments that prevents two countries/entities from counting the same emissions reductions twice (e.g. once in host country and one in acquiring country).*
- Arrangements must be in place for a host party to authorize/track the use of ITMOs,
- A host country does not have to transfer all MOs from a mitigation activity - can keep a share for its own NDC achievement / enhance ambition.
- All authorised credits have a de facto expiration date, since they must be used (and adjusted for) in the NDC period in which they occurred.



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THANK YOU FOR ATTENDING



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