EASA
European Union Aviation Safety Agency

EU-CORSIA
Africa & Caribbean

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

EU CORSIA Africa and Caribbean

CORSIA Key elements, Offsetting and CORSIA eligible emissions units

Capacity building session for stakeholders from Namibia

Working for quieter and cleaner aviation.

Your safety is our mission.

22.07.2024 and 26.07.2024

EASA
European Union Aviation Safety Agency

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

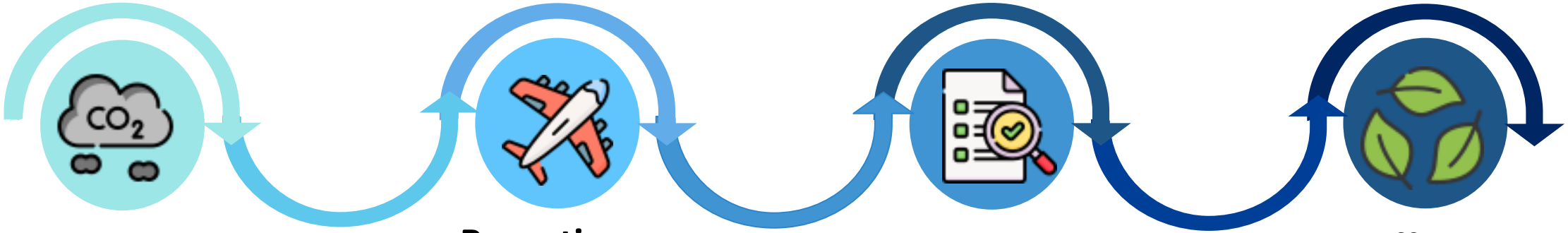
Overview of Offsetting Requirements

Your safety is our mission.

An Agency of the European Union

CORSIA

CORSIA (Carbon Offsetting and Reduction Scheme for International Aviation) is a global market-based mechanism developed by the International Civil Aviation Organization (ICAO) designed to address the environmental impact of carbon emissions from international civil aviation.



Monitoring

Monitoring plan for emissions reduction achieved

Reporting

Submission of emission report

Verification

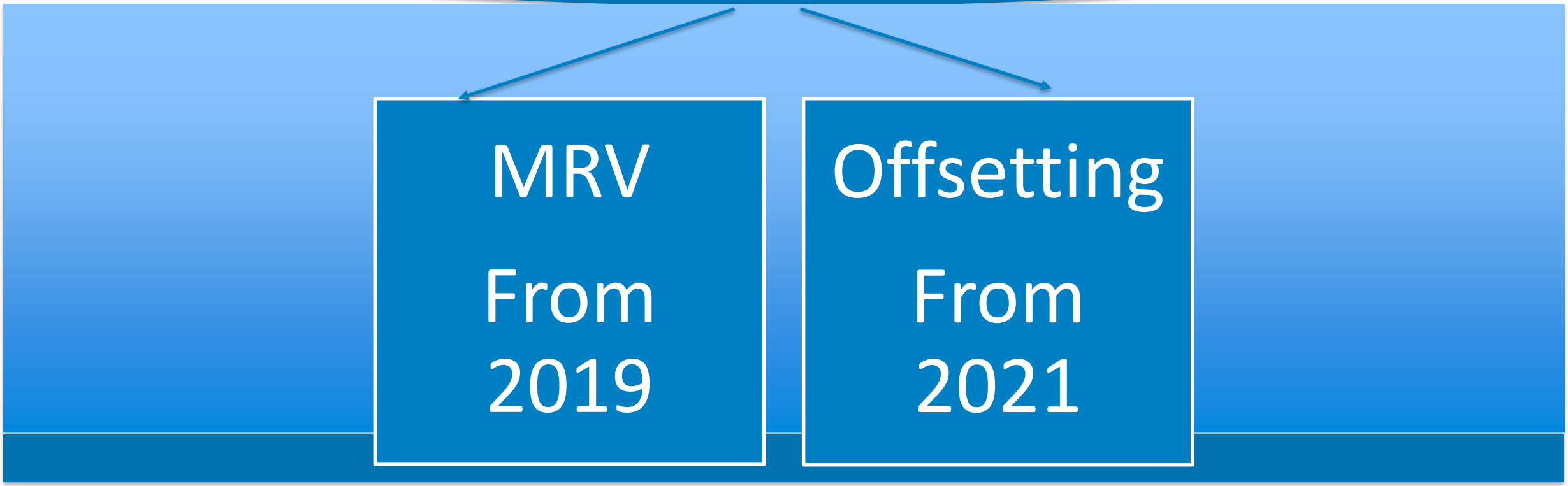
Verification of the reduced emissions

Offsetting

Compensation of exceeded emissions

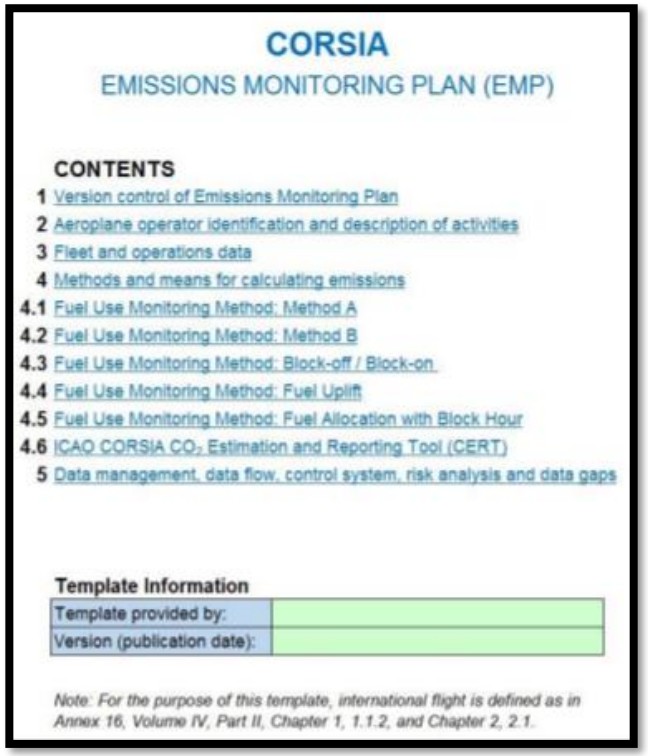
CORSIA Main Obligations

CORSIA sets up two kinds of main obligations, with different timetables but strongly related and interdependent



CORSIA MRV from 2019

→ Every year until the end of the mechanism (2035)



CORSIA

EMISSIONS MONITORING PLAN (EMP)

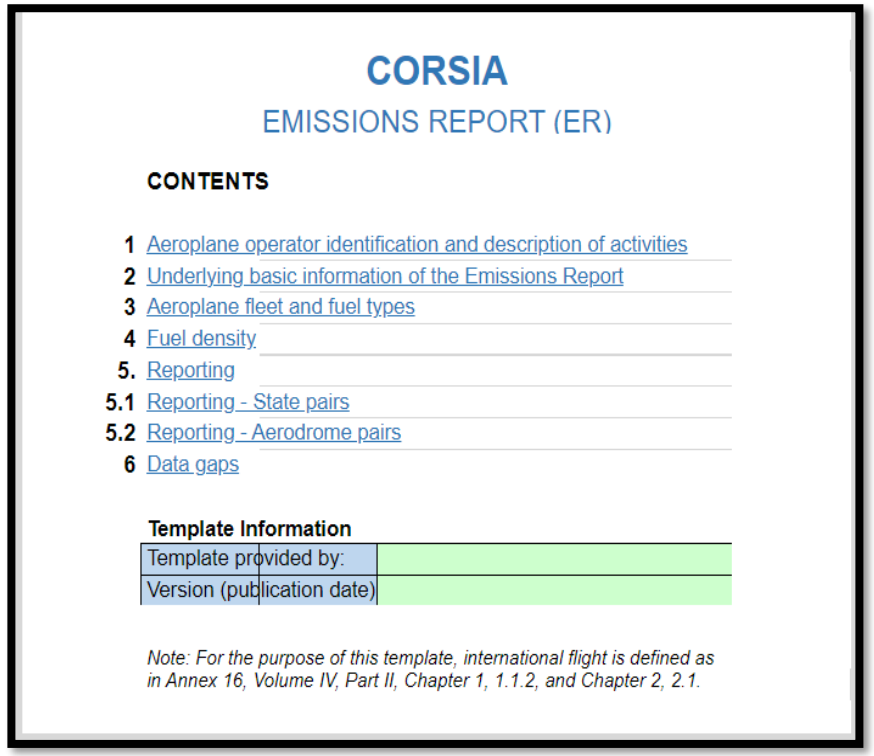
CONTENTS

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 CO_2 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.



CORSIA

EMISSIONS REPORT (ER)

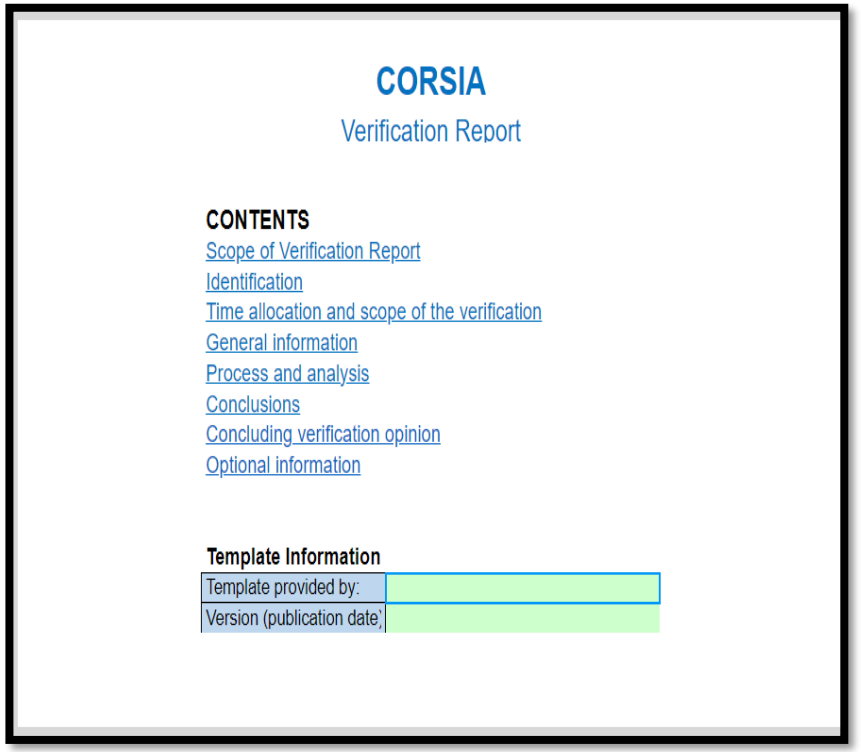
CONTENTS

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.



CORSIA

Verification Report

CONTENTS

Scope of Verification Report
Identification
Time allocation and scope of the verification
General information
Process and analysis
Conclusions
Concluding verification opinion
Optional information

Template Information

Template provided by:	
Version (publication date)	

MRV actions:who, what, when, how

ACTION	WHO	WHAT	WHEN	HOW
MONITORING	OPERATOR	CO2 emissions	Continuosly	Emissions Monitoring Plan
REPORTING	OPERATOR to SA	CO2 emissions	Annually	Emissions Report to SA
	STATE to ICAO	CO2 emissions	Annually	Through CCR to ICAO
VERIFICATION	OPERATOR	CO2 emissions	Annually	Pre-verification (recommended)
	VERIFIER	CO2 emissions	Annually	Verification Report
	STATE	CO2 emissions	Annually	Magnitude Check

CORSIA Offsetting from 2021

5.1 REPORTING - STATE PAIRS

Explanation: *Please complete the list underneath. <u>All</u> State pairs operated during the reporting year have to be reported.*

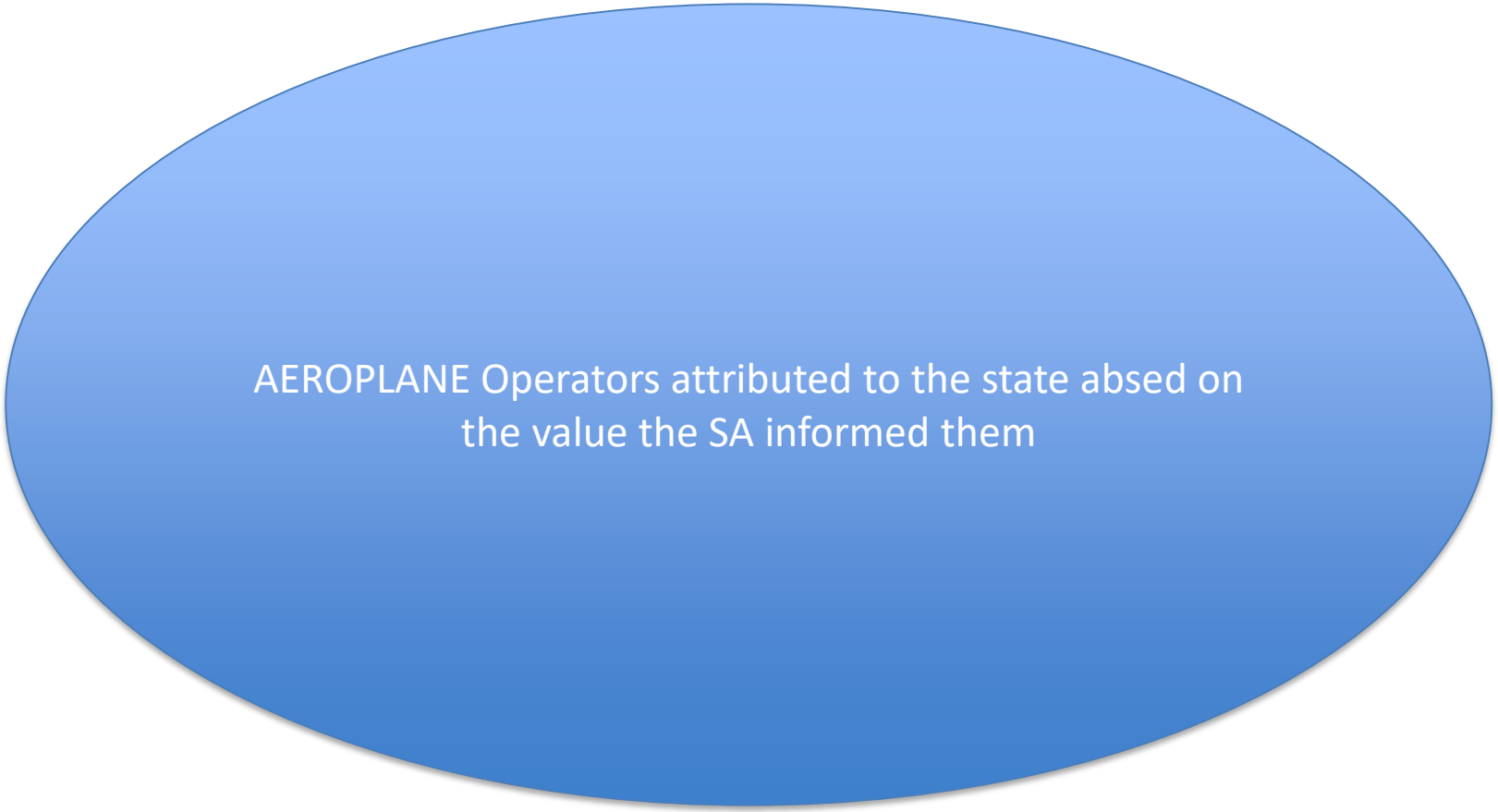
Note I: *Please report both directions between State pairs if applicable (A-B and B-A).*
Note II: *If you used different type of fuels on the same State pair with different fuel converstion factors, you need to create an identical State pair and report this portion of fuel separately. Please note, emissions from CORSIA eligible fuels are calculated with the fuel conversion factor(s) from corresponding aviation fuels.*
Note III: *Please also complete the CORSIA eligible fuels supplementary information to the Emissions Report, if CORSIA eligible fuels were used during the reporting period.*

New from 2021
Emissions

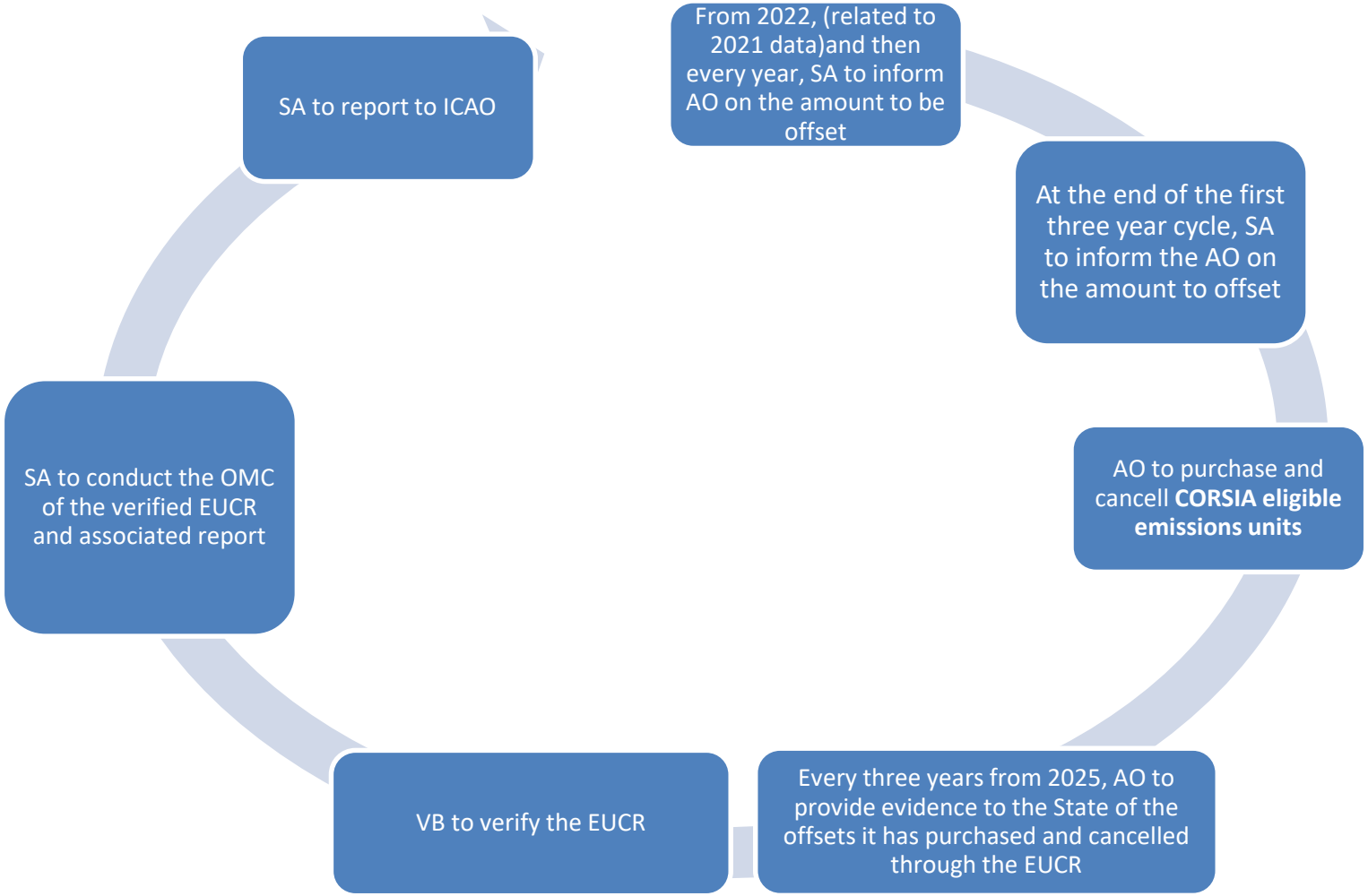
a) Summary of reported international flights and emissions

Total CO_2 emissions from international flights (in tonnes):	
Total CO_2 emissions from flights subject to offsetting requirements (in tonnes):	
Total number of international flights during reporting period:	
Total number of international flights subject to offsetting requirements:	
Total emissions reductions claimed from the use of CORSIA eligible fuels (in tonnes):	

Who has to offset under CORSIA?

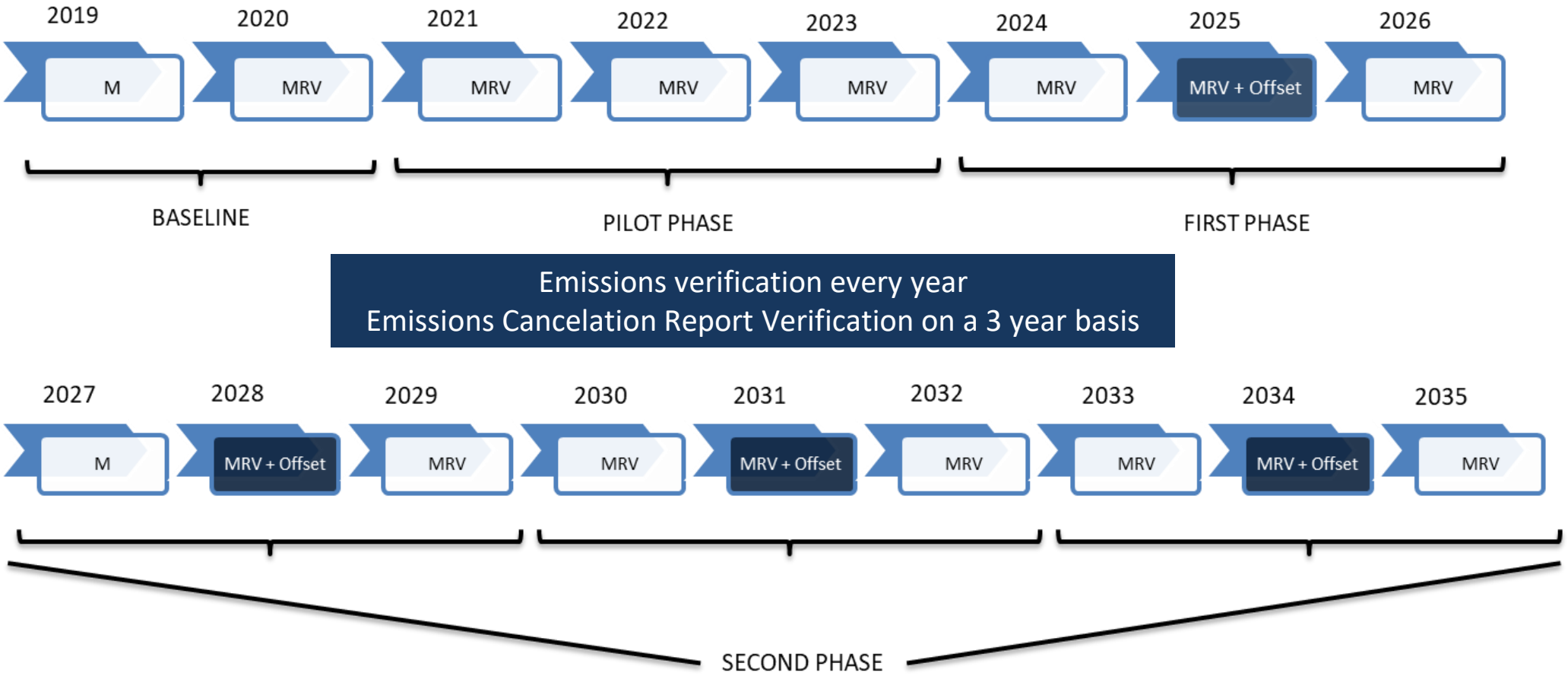


Offsetting actions: who, what, when



MRV and offsetting in the calendar

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



CORSIA Offsetting after ICAO A41

ICAO SECTOR GROWTH FACTOR

HOW TO CALCULATE CO_2 OFFSETTING REQUIREMENTS?

Operator's Annual CO_2 Offsetting Requirements = Operator's Annual CO_2 Emissions subject to Offsetting Requirements × Growth Factor *

* The Growth Factor changes every year taking into account the annual Sector's Growth Factor, which is calculated by ICAO, and (for 2033-2035) the individual operator's growth factor as shown below.

2021-2023	2024-2026	2027-2029	2030-2032	2033-2035
100% Sectoral	100% Sectoral	100% Sectoral	100% Sectoral	15% Individual 85% Sectoral

SA from the verified ER, second line

2021 SGF from the CCR, October 2022 - 88 states -

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]

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

Applying the formula for offsetting

From the 2021 ER of the AO

a) Summary of reported international flights and emissions

Total CO_2 emissions from international flights (in tonnes):	10.591
Total CO_2 emissions from flights subject to offsetting requirements (in tonnes):	8.797
Total number of international flights during reporting period:	530
Total number of international flights subject to offsetting requirements:	370
Total emissions reductions claimed from the use of CORSIA eligible fuels (in tonnes):	

2021 Sector's Growth Factor (SGF_y)	0.0[b]

AO annual offsetting requirements=8797x 0= 0 offsett

As reflected in Doc. “CORSIA States for Chapter 3 State Pairs”. 88 State joint CORSIA from 01.01.2021

ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

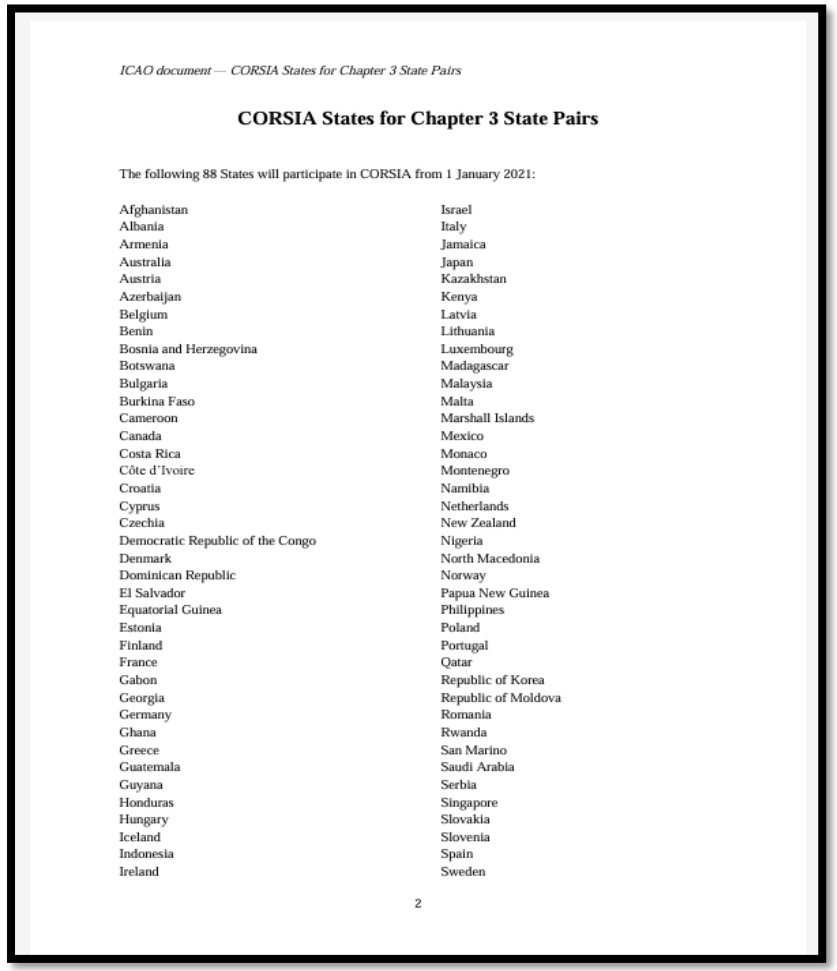
ICAO document

CORSIA States for Chapter 3 State Pairs

July 2020

CORSIA

Carbon Offsetting and Reduction Scheme for International Aviation



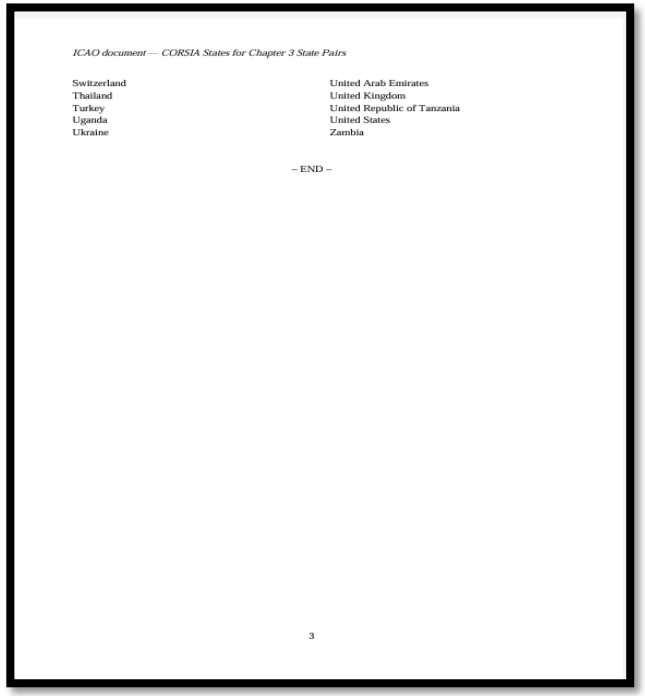
ICAO document — CORSIA States for Chapter 3 State Pairs

CORSIA States for Chapter 3 State Pairs

The following 88 States will participate in CORSIA from 1 January 2021:

Afghanistan
Albania
Armenia
Australia
Austria
Azerbaijan
Belgium
Benin
Bosnia and Herzegovina
Botswana
Bulgaria
Burkina Faso
Cameroon
Canada
Costa Rica
Côte d'Ivoire
Croatia
Cyprus
Czechia
Democratic Republic of the Congo
Denmark
Dominican Republic
El Salvador
Equatorial Guinea
Estonia
Finland
France
Gabon
Georgia
Germany
Ghana
Greece
Guatemala
Guyana
Honduras
Hungary
Iceland
Indonesia
Ireland
Israel
Italy
Jamaica
Japan
Kazakhstan
Kenya
Latvia
Lithuania
Luxembourg
Madagascar
Malaysia
Malta
Marshall Islands
Mexico
Monaco
Montenegro
Namibia
Netherlands
New Zealand
Nigeria
North Macedonia
Norway
Papua New Guinea
Philippines
Poland
Portugal
Qatar
Republic of Korea
Republic of Moldova
Romania
Rwanda
San Marino
Saudi Arabia
Serbia
Singapore
Slovakia
Slovenia
Spain
Sweden

2



ICAO document — CORSIA States for Chapter 3 State Pairs

Switzerland
Thailand
Turkey
Uganda
Ukraine
United Arab Emirates
United Kingdom
United Republic of Tanzania
United States
Zambia

– END –

3

2022 SGF from the CCR, October 2023 - 107 States -

Total 2022 CO_2 emissions for all State pairs subject to offsetting requirements (SE_y)	272,384,139[a]
Total 2019 CO_2 emissions for all State pairs subject to offsetting requirements in the year 2022 ($SE_{B,y}$)	346,755,570[a]
2022 Sector's Growth Factor (SGF_y)	0.0[b]

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

Applying the formula for offsetting

From the 2022 ER of the AO

a) Summary of reported international flights and emissions

Total CO_2 emissions from international flights (in tonnes):	10.591
Total CO_2 emissions from flights subject to offsetting requirements (in tonnes):	8.797
Total number of international flights during reporting period:	530
Total number of international flights subject to offsetting requirements:	370
Total emissions reductions claimed from the use of CORSIA eligible fuels (in tonnes):	

2022 Sector's Growth Factor (SGF_y)	0.0[b]

AO annual offsetting requirements=8797x 0= 0 offsett

As reflected in Doc. “CORSIA States for Chapter 3 State Pairs”. 107 State joint CORSIA from 01.01.2022

ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

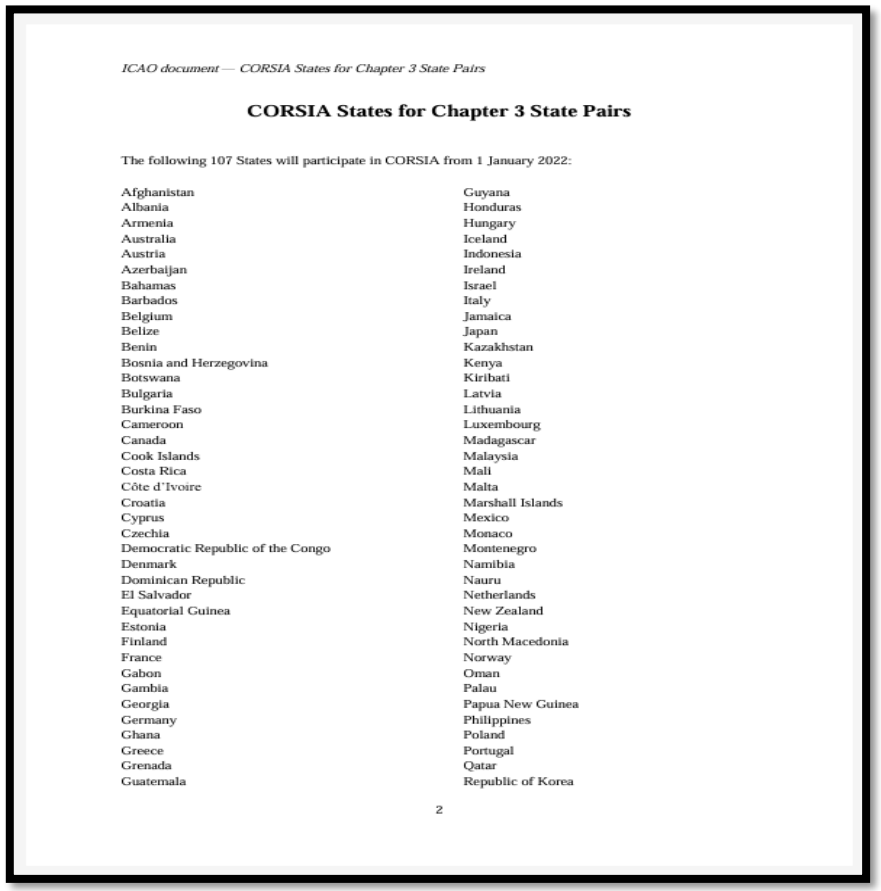
ICAO document

CORSIA States for Chapter 3 State Pairs

September 2021

CORSIA

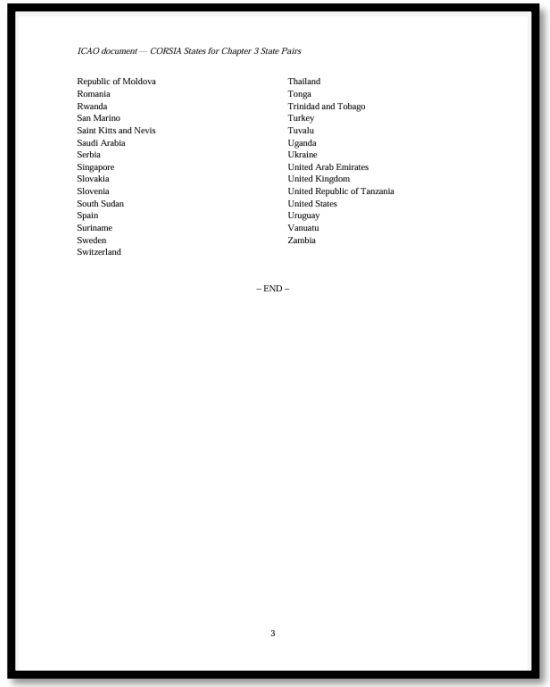
Carbon Offsetting and Reduction Scheme for International Aviation



CORSIA States for Chapter 3 State Pairs

The following 107 States will participate in CORSIA from 1 January 2022:

Afghanistan
Albania
Armenia
Australia
Austria
Azerbaijan
Bahamas
Barbados
Belgium
Belize
Benin
Bosnia and Herzegovina
Botswana
Bulgaria
Burkina Faso
Cameroon
Canada
Cook Islands
Costa Rica
Côte d'Ivoire
Croatia
Cyprus
Czechia
Democratic Republic of the Congo
Denmark
Dominican Republic
El Salvador
Equatorial Guinea
Estonia
Finland
France
Gabon
Gambia
Georgia
Germany
Ghana
Greece
Grenada
Guatemala
Guyana
Honduras
Hungary
Iceland
Indonesia
Ireland
Israel
Italy
Jamaica
Japan
Kazakhstan
Kenya
Kiribati
Latvia
Lithuania
Luxembourg
Madagascar
Malaysia
Mali
Malta
Marshall Islands
Mexico
Monaco
Montenegro
Namibia
Nauru
Netherlands
New Zealand
Nigeria
North Macedonia
Norway
Oman
Palau
Papua New Guinea
Philippines
Poland
Portugal
Qatar
Republic of Korea



Republic of Moldova
Romania
Rwanda
San Marino
Saint Kitts and Nevis
Saudi Arabia
Serbia
Singapore
Slovakia
Slovenia
South Sudan
Spain
Suriname
Sweden
Switzerland
Thailand
Tonga
Trinidad and Tobago
Turkey
Tuvalu
Uganda
Ukraine
United Arab Emirates
United Kingdom
United Republic of Tanzania
United States
Uruguay
Vanuatu
Zambia

– END –

2023 SGF from the CCR- 115 States

To be published by ICAO on the CORSIA website around the end of October 2024

As reflected in Doc. “CORSIA States for Chapter 3 State Pairs”. 115 State joint CORSIA from 01.01.2023

ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

ICAO document

CORSIA States for Chapter 3 State Pairs

July 2022

CORSIA

Carbon Offsetting and Reduction Scheme for International Aviation

CORSIA States for Chapter 3 State Pairs

The following 115 States will participate in CORSIA from 1 January 2023:

Afghanistan
Albania
Armenia
Australia
Austria
Azerbaijan
Bahamas
Barbados
Belgium
Belize
Benin
Bosnia and Herzegovina
Botswana
Bulgaria
Burkina Faso
Cambodia
Cameroon
Canada
Cook Islands
Costa Rica
Côte d'Ivoire
Croatia
Cuba
Cyprus
Czechia
Democratic Republic of the Congo
Denmark
Dominican Republic
El Salvador
Equatorial Guinea
Estonia
Finland
France
Gabon
Gambia
Georgia
Germany
Ghana
Greece
Grenada
Guatemala
Guyana
Honduras
Hungary
Iceland
Indonesia
Iraq
Ireland
Israel
Italy
Jamaica
Japan
Kazakhstan
Kenya
Kiribati
Latvia
Lithuania
Luxembourg
Madagascar
Maldives
Malaysia
Mali
Malta
Marshall Islands
Mexico
Micronesia (Federated Stat
Monaco
Montenegro
Namibia
Nauru
Netherlands
New Zealand
Nigeria
North Macedonia
Norway
Oman
Palau
Papua New Guinea

Philippines
Poland
Portugal
Qatar
Republic of Korea
Republic of Moldova
Romania
Rwanda
San Marino
Saint Kitts and Nevis
Saint Vincent and the Grenadines
Saudi Arabia
Serbia
Singapore
Slovakia
Slovenia
South Sudan
Spain
Suriname
Sweden
Switzerland
Thailand
Timor-Leste
Tonga
Trinidad and Tobago
Turkey
Tuvalu
Uganda
Ukraine
United Arab Emirates
United Kingdom
United Republic of Tanzania
United States
Uruguay
Vanuatu
Zambia
Zimbabwe

– END –

EASA
European Union Aviation Safety Agency

This project is funded by the European Union
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OFFSETTING WITH CORSIA ELIGIBLE EMISSIONS UNITS

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CORSIA Eligible Emissions Units-

CORSIA Eligible Emissions Units serve to offset the greenhouse gas footprint of international civil aviation by undertaking different activities that reduce or avoid GHG emissions.

While there are dozens of different activity types and many methodologies to quantify them, most emissions unit activities can be sorted into six broad categories:

(1) renewable energy;

(2) agriculture, forestry and land use (AFOLU);

(3) waste disposal;

(4) household devices;

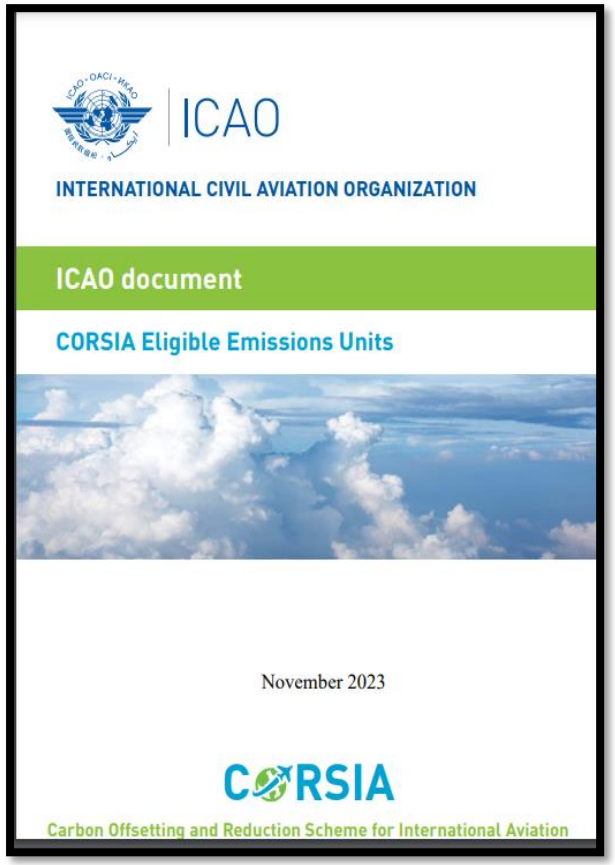
(5) chemical processes and industrial manufacturing;

(6) energy efficiency and fuel switching; and transportation

CORSIA and SAF/CEF

The AO can offset its CO2 emissions under CORSIA using CORSIA eligible emissions units

ICAO Council determines CORSIA Eligible Emissions Units as recommended by the Technical Advisory Body (TAB)



CORSIA Emissions Unit Eligibility Criteria

Program Design Elements

- 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

CORSIA Eligible Emissions Units (EEU) Criteria

CORSIA Eligible Emissions Units (EEU) are identified by:

1. Emissions Unit Programme
2. Eligibility Timeframe: Eligible for cancellation for use toward CORSIA offsetting requirements in the compliance period:
    1. Pilot phase (2021 – 2023)
    2. First phase (i.e., 2024 – 2026)
3. Vintage Criteria: Issued to activities that started their first crediting period from 1 January 2016 and in respect of emissions reductions that occurred through 31 Dec 2020
4. Scope of Eligibility: Linked to activity and/or unit types, methodologies, programme elements, and/or procedural classes

Source: ICAO document — CORSIA Eligible Emissions Units

Example from the GSF documents

Vintage

Gold Standard projects that have a first crediting period start date on or after 01 January 2016 are eligible to supply credits for CORSIA, for credits with vintages between 01 January 2016 and 31 December 2020.

Microscale

Microscale projects that use the Gold Standard Validation and Verification Fund are not eligible to supply credits to the CORSIA scheme.

Land Use and Forestry

Planned Emission Reductions (PERs) are not eligible under CORSIA. Gold Standard VERs from certain Afforestation/Reforestation activities are not eligible, but credits from soil carbon, agriculture, and livestock projects may be eligible.

CORSIA Eligible Programmes for the 2021 -2023 Compliance Period (Pilot Phase)

- American Carbon Registry (ACR)
- Architecture for REDD+ Transactions (ART)
- BioCarbon Fund for Sustainable Forest Landscapes (ISFL)
- Clean Development Mechanism (CDM)
- China GHG Voluntary Emission Reduction Program (CCER)
- Climate Action Reserve (CAR)
- Forest Carbon Partnership Facility Program (FCPF)
- Global Carbon Council (GCC)
- The Gold Standard (GS)
- SOCIALCARBON
- Verified Carbon Standard (VCS)

Note: The emission reduction occurred from a project, registered under any of the cited programmes, between a period of 01/01/2016 to 31/12/2020 are only eligible for pilot phase, only if the projects have their first crediting period from 01/01/2016.
For ACR and ART it is up to 31/12/2023.

EASA

CORSIA Eligible Programmes for the 2024 -2026 Compliance Period (First Phase) – Vintage Criteria

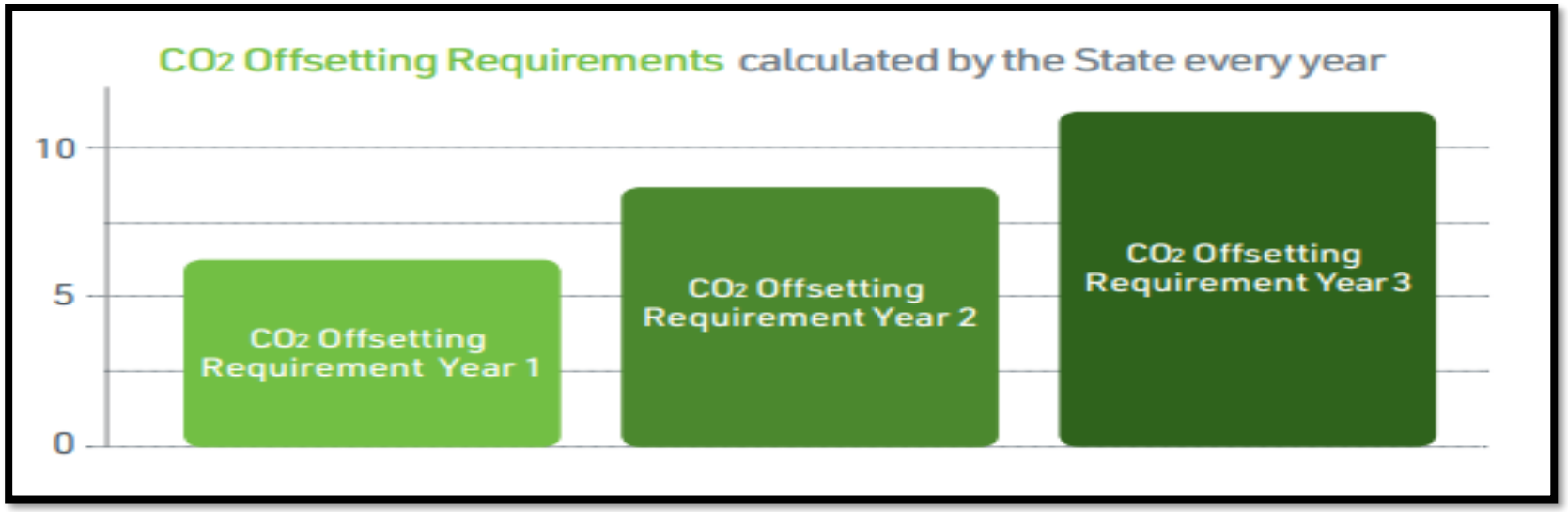
- American Carbon Registry (ACR)
- Architecture for REDD+ Transactions (ART)

Note: The emission reduction occurred from a project, registered under any of above mechanism, between a period of 01/01/2021 to 31/12/2026 are only eligible for first phase, only if the projects have their first crediting period from 01/01/2016.

CORSIA-OFFSETTING

The State calculates the offsetting requirements attributed to an aeroplane operator.

Operator's annual emissions subject to offsetting requirements **X** Growth Factor **=** CO_2 offseting requirements



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European Union Aviation Safety Agency

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

CORSIA Eligible Fuels – to be deducted from the amount to be offset if…..

Your safety is our mission.

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CORSIA and SAF/CEF

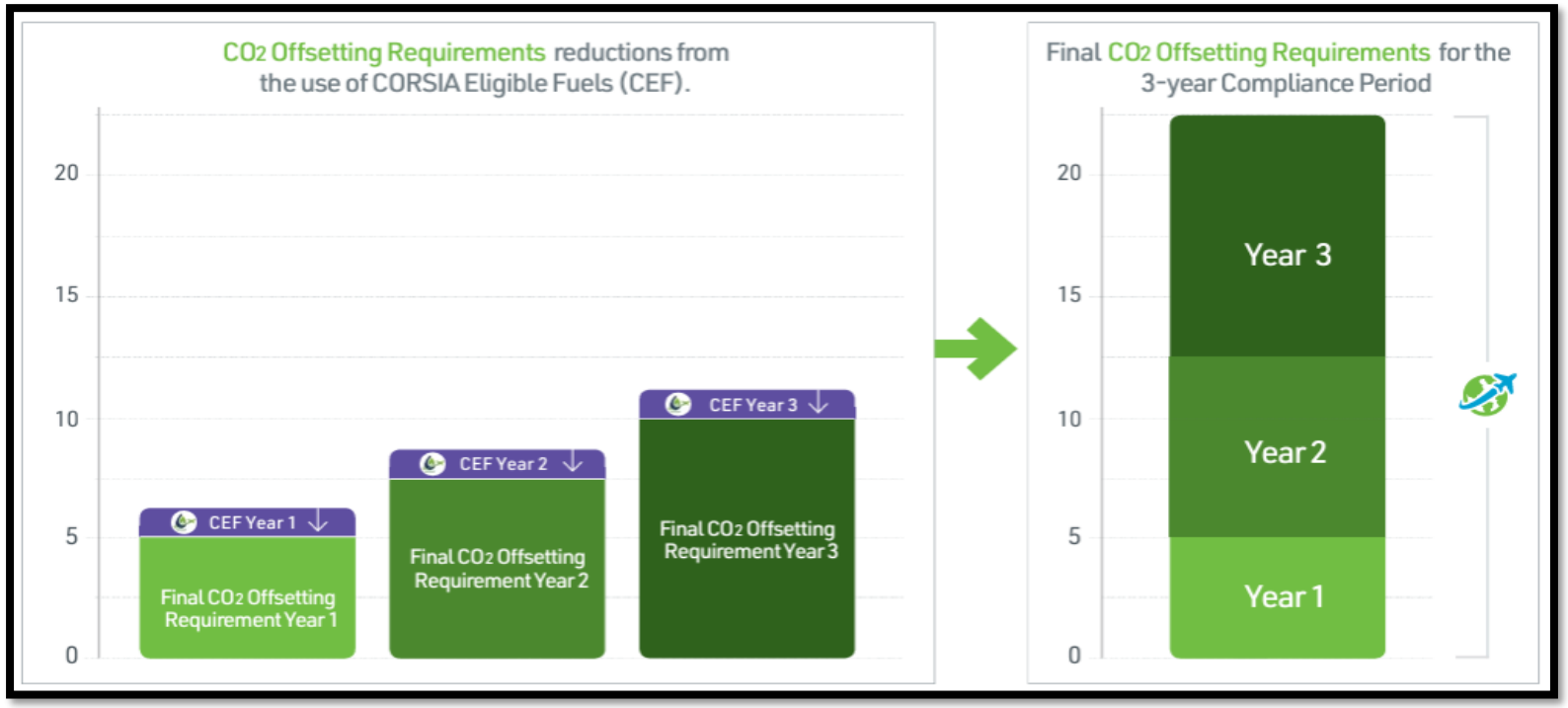
Aeroplane under “CORSIA” can offset emissions growth over the threshold by

i) buying tradeable carbon credits or

ii) deploying CORSIA-eligible fuels

CORSIA offsetting with CEF

If the **AO reports the use of CEF** for a 3-year compliance period, the SA accounts for the benefits from the use of CEF and inform the AO of its final CO2 offsetting requirements for the 3-year compliance period



CORSIA and SAF/CEF

What type of SAF can be CORSIA eligible?

-Lower-carbon aviation fuel (LCAF) -fossil fuel with reduced carbon intensity due to measures applied during fuel production-

-SAF: first- and second-generation biofuels from several feedstock families and production technologies

CORSIA and SAF/CEF

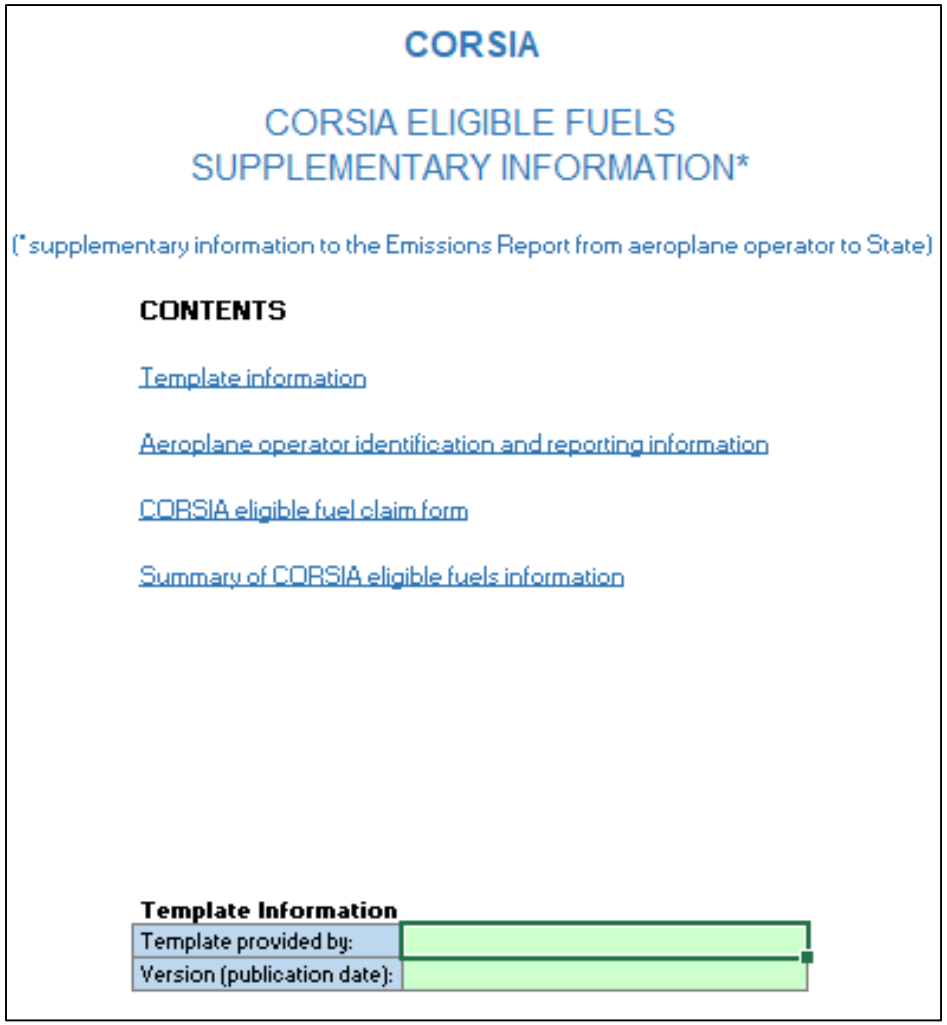
CORSIA eligibility criteria

1) GHG emissions reduction: fuels to demonstrate a 10% lifecycle emission reduction compared to conventional fossil fuels at 89 gCO2/MJ.
2) Eligibility criteria linked to impact categories, such as land conversion, water use and food security, as well as certification guidelines for fuel deliveries

CORSIA Eligible Fuels

- The AO to indicate in the ER if it uses CORSIA Eligible fuels to attach an additional CORSIA Eligible Fuels Supplementary Information

- In this template the AO should include
  - Emissions reductions claimed
  - Fuel type, mass and Life Cycle Emissions value (LCEF)
  - Evidence of compliance with Sustainability Criteria



CORSIA

CORSIA ELIGIBLE FUELS
SUPPLEMENTARY INFORMATION*

(* supplementary information to the Emissions Report from aeroplane operator to State)

CONTENTS

Template information

Aeroplane operator identification and reporting information

CORSIA eligible fuel claim form

Summary of CORSIA eligible fuels information

Template Information

Template provided by:	
Version (publication date):	

Template CEF supplementary information

AEROPLANE OPERATOR IDENTIFICATION AND REPORTING INFORMATION

a) Name of aeroplane operator

Please enter the name of the aeroplane operator. This name should be the legal entity carrying out the aviation activities.

a1) Address of the aeroplane operator

Please enter the address of the aeroplane operator.

Address:	
City:	
State/Province/Region:	
Postcode/ZIP:	
Country:	

b) Reporting year

Template CEF supplementary information

CORSIA ELIGIBLE FUEL CLAIM FORM

Note: for each claim of emissions reductions from the use of CORSIA eligible fuels, please replicate this form and fill sepa

Fuel Claim #:

a) Purchase date

Please enter the date when the neat CORSIA eligible fuel was purchased. Use the format yyyy-mm-dd.

b) Identification of the producer of the CORSIA eligible fuel

b1) Name of producer of the neat CORSIA eligible fuel

Please enter the name of the fuel producer.

b2) Address of the producer of the neat CORSIA eligible fuel

Please enter the address of the producer of the neat CORSIA eligible fuel.

Address:	
City:	
State/Province/Region	
Postcode/ZIP:	
Country:	

c) Fuel production

c1) Date of production of the neat CORSIA eligible fuel

Please enter the date of production of the neat CORSIA eligible fuel. Use the format yyyy-mm-dd.

c2) Location of the production of the neat CORSIA eligible fuel

Please enter the address of the production of the neat CORSIA eligible fuel.

Address:	
City:	
State/Province/Region	
Postcode/ZIP:	
Country:	

c3) Batch identification number:

c4) Mass of each batch of neat CORSIA eligible fuel produced

Please enter the total mass of each batch of neat CORSIA eligible fuel produced (in tonnes).

d) Fuel type

d1) Type of fuel

Please enter the type of fuel (i.e., Jet-A, Jet-A1, Jet-B, AvGas) for the purpose of computation of Life Cycle Emissions factors.

d2) Feedstock type

Please enter the information on the feedstock used to create the neat CORSIA eligible fuel.

d3) Conversion process

Please enter the conversion process (i.e., a type of technology used to convert a feedstock into neat CORSIA eligible fuel).

e) Portion of batch purchased (if needed)

e1) Percentage

If less than an entire batch of neat CORSIA eligible fuel is purchased, please enter the proportion of neat CORSIA eligible fuel batch purchased (in percentage terms).

e2) Mass of batch purchased

Please enter the mass of CORSIA eligible fuel batch purchased (in tonnes).

Template CEF supplementary information

f) Mass of neat CORSIA eligible fuel

Please enter the total mass of all batches of neat CORSIA eligible fuel included in the claim (in tonnes).

g) Sustainability documentation

Please provide evidence that the fuel satisfies the CORSIA Sustainability Criteria i.e., reference of attached valid certification document.

h) Life Cycle Emissions Values of the CORSIA eligible fuel

h1) Default or Actual Life Cycle Emissions value (LCEF)

Please enter the Life Cycle Emissions value (in gCO2e/MJ).

h2) Default or Actual Core Life Cycle Assessment (LCA) value

Please enter the Core Life Cycle Assessment (LCA) value (in gCO2e/MJ).

h3) Default Induced Land Use Change (ILUC) value

Please enter the Induced Land Use Change (ILUC) value (in gCO2e/MJ).

i) Intermediate purchaser 1 (if needed)

If the aeroplane operator claiming emissions reductions from the use of CORSIA eligible fuels is not the original purchaser of the fuel from the producer (e.g., the aeroplane operator purchased fuel from a broker or a distributor), include the identity and contact information of these purchaser(s).

i1) Name of the intermediate purchaser 1.

Please enter the name of the intermediate purchaser 1.

i2) Address of the intermediate purchaser 1.

Please enter the address of the intermediate purchaser 1.

Address:	
City:	
State/Province/Region	
Postcode/ZIP:	
Country:	

j) Intermediate purchaser 2 (if needed)

Please include the identity and contact information of the intermediate purchaser 2.

j1) Name of the intermediate purchaser 2.

Please enter the name of the intermediate purchaser 2.

j2) Address of the intermediate purchaser 2.

Please enter the address of the intermediate purchaser 2.

Address:	
City:	

Template CEF supplementary information

k) CORSIA eligible fuel shipper

k1) Name of the CORSIA eligible fuel shipper.

Please enter the name of the party responsible for shipping of the neat CORSIA eligible fuel to the fuel blender.

k2) Address of the CORSIA eligible fuel shipper.

Please enter the address of the party responsible for shipping of the neat CORSIA eligible fuel to the fuel blender.

Address:	
City:	
State/Province/Region	
Postcode/ZIP:	
Country:	

l) Fuel blender

l1) Name of the fuel blender

Please enter the name of the party responsible for blending neat CORSIA eligible fuel with aviation fuel.

l2) Address of the fuel blender

Please enter the address of the party responsible for blending neat CORSIA eligible fuel with aviation fuel.

Address:	
City:	
State/Province/Region	
Postcode/ZIP:	
Country:	

m) Location of blending

Please enter the location where the neat CORSIA eligible fuel is blended with aviation fuel.

Address:	
City:	
State/Province/Region	
Postcode/ZIP:	
Country:	

n) Neat CORSIA eligible fuel received

n1) Date the neat CORSIA eligible fuel was received

Please enter the date the neat CORSIA eligible fuel was received by blender. Use the format yyyy-mm-dd.

n2) Mass of neat CORSIA eligible fuel received

Please enter the mass of neat CORSIA eligible fuel received (in tonnes).

o) Blend ratio of neat CORSIA eligible fuel and aviation fuel

Please enter the blend ratio of neat CORSIA eligible fuel and aviation fuel.

Template CEF supplementary information

p) Documentation demonstrating blending

Please provide documentation demonstrating that the batch or batches of CORSIA eligible fuel v
fuel (e.g., the subsequent Certificate of Analysis of the blended fuel).

q) Mass of neat CORSIA eligible fuel claimed

Please enter the mass of neat CORSIA eligible fuel claimed (in tonnes).

SUMMARY OF CORSIA ELIGIBLE FUELS INFORMATION

a) Summary of CORSIA eligible fuels (by fuel claim #)

Please provide a summary of the CORSIA eligible fuels claimed for the reporting year.

Fuel claim #	Fuel type			Total mass of neat CORSIA eligible fuel claimed (in tonnes)	Life cycle emissions values of the CORSIA eligible fuel	Emissions reduction from CORSIA eligible fuels claimed (in tonnes)
	Type of fuel	Feedstock type	Conversion process			
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

b) Summary of information of CORSIA eligible fuels claimed

b1) Total of emissions reduction from CORSIA eligible fuels claimed (in tonnes)

Please enter the sum of the values included in column "Emissions reduction from CORSIA eligible fuels claimed (in tonnes)" of the table above.

EASA
European Union Aviation Safety Agency

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CORSIA Eligible Emissions Units

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CORSIA Eligible Emissions Units

ICAO Council determines CORSIA Eligible Emissions Units as recommended by the Technical Advisory Body (TAB)

CORSIA Emissions Unit Eligibility Criteria

Program Design Elements

- 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

CORSIA Eligible Emissions Units (EEU) Criteria

CORSIA Eligible Emissions Units (EEU) are identified by:

1. Emissions Unit Programme
2. Eligibility Timeframe: Eligible for cancellation for use toward CORSIA offsetting requirements in the compliance period:
    1. Pilot phase (2021 – 2023)
    2. First phase (i.e., 2024 – 2026)
3. Vintage Criteria: Issued to activities that started their first crediting period from 1 January 2016 and in respect of emissions reductions that occurred through 31 Dec 2020
4. Scope of Eligibility: Linked to activity and/or unit types, methodologies, programme elements, and/or procedural classes

Example from the GSF documents

Vintage

Gold Standard projects that have a first crediting period start date on or after 01 January 2016 are eligible to supply credits for CORSIA, for credits with vintages between 01 January 2016 and 31 December 2020.

Microscale

Microscale projects that use the Gold Standard Validation and Verification Fund are not eligible to supply credits to the CORSIA scheme.

Land Use and Forestry

Planned Emission Reductions (PERs) are not eligible under CORSIA. Gold Standard VERs from certain Afforestation/Reforestation activities are not eligible, but credits from soil carbon, agriculture, and livestock projects may be eligible.

CORSIA Eligible Programmes for the 2021 -2023 Compliance Period (Pilot Phase)

- American Carbon Registry (ACR)
- Architecture for REDD+ Transactions (ART)
- BioCarbon Fund for Sustainable Forest Landscapes (ISFL)
- Clean Development Mechanism (CDM)
- China GHG Voluntary Emission Reduction Program (CCER)
- Climate Action Reserve (CAR)
- Forest Carbon Partnership Facility Program (FCPF)
- Global Carbon Council (GCC)
- The Gold Standard (GS)
- SOCIALCARBON
- Verified Carbon Standard (VCS)

Note: The emission reduction occurred from a project, registered under any of the cited programmes, between a period of 01/01/2016 to 31/12/2020 are only eligible for pilot phase, only if the projects have their first crediting period from 01/01/2016.
For ACR and ART it is up to 31/12/2023.

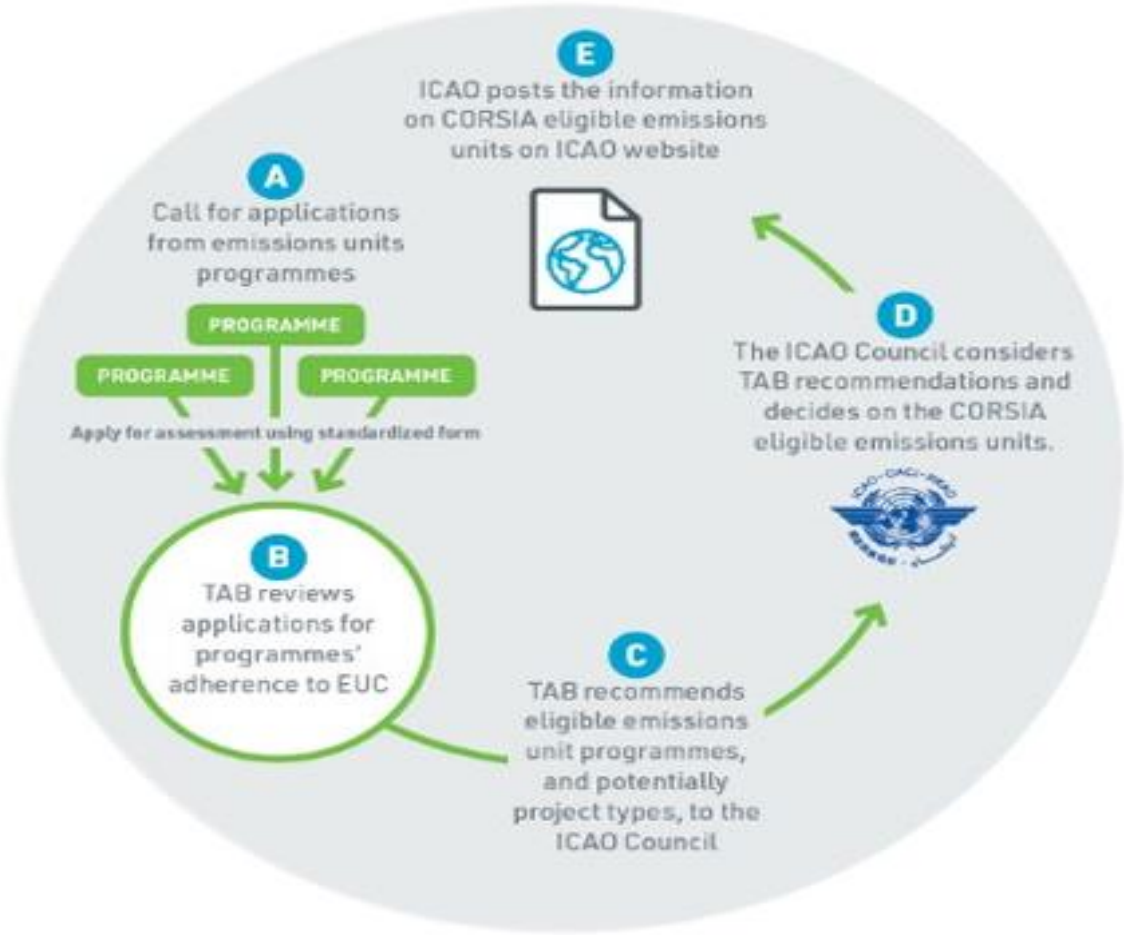
EASA

CORSIA Eligible Programmes for the 2024 -2026 Compliance Period (First Phase) – Vintage Criteria

- American Carbon Registry (ACR)
- Architecture for REDD+ Transactions (ART)

Note: The emission reduction occurred from a project, registered under any of above mechanism, between a period of 01/01/2021 to 31/12/2026 are only eligible for first phase, only if the projects have their first crediting period from 01/01/2016.

Process to determine CORSIA eligible emissions units



2024 Call for application

ICAO received **11 new requests** from the programme

1. Asia Carbon Institute
2. BioCarbon Standard
3. Carbon Asset Solutions Soil Carbon Methodology
4. C-Capsule
5. Ecosystem Restoration Standard
6. International Carbon Registry
7. Isometric
8. KCCI Carbon Standard (KCS) Program
9. POPLE
10. Puro.earth
11. Riverse

ICAO received **8 material updates** to previously-assessed programmes, submitted by April 30, 2024

1. BioCarbon Fund Initiative for Sustainable Forest Landscape
2. Cercarbono
3. Climate Action Reserve
4. Forest Carbon Partnership Facility
5. Global Carbon Council
6. Gold Standard
7. Premium Thailand Voluntary Emission Reduction Program
8. Verified Carbon Standard

2024 TAB WORK PROGRAMME

2024 TAB Work Programme

	Activities	2024											
		January	February	March	April	May	June	July	August	September	October	November	December
	1st Quarter 2024												
1.1	Call for applications - 2024 assessment cycle (5 February - 4 March 2024)												
1.2	ICAO webinar for 2024 applications (9 Feb 2024)												
1.3	2024 TAB Assessment cycle												
1.4	231st Council Session: Consideration of TAB recommendations - Fall 2023 assessment												
	2nd Quarter 2024												
2.1	Call for public comments - 2024 assessment cycle												
2.2	Deadline (15 April 2024) for programme change notification forms to be considered at 233rd Council Session (September 2024)												
	3rd Quarter 2024												
3.1	Deadline (15 August 2024) for programme change notification forms to be considered at 234th Council Session (March 2025)												
	4th Quarter 2024												
4.1	233rd Council Session: Consideration of TAB recommendations on programmes submitting programme change notification forms (submitted April 2024) and 2024 assessment cycle applications												

Note 1: The above TAB Work Programme and Timeline is subject to further changes.

Note 2: The call for applications for the 2024 assessment cycle, for the first phase of CORSIA, will open in the first quarter of 2024

CORSIA Eligible Emissions Units (EEU) Criteria

CORSIA Eligible Emissions Units (EEU) are identified by:

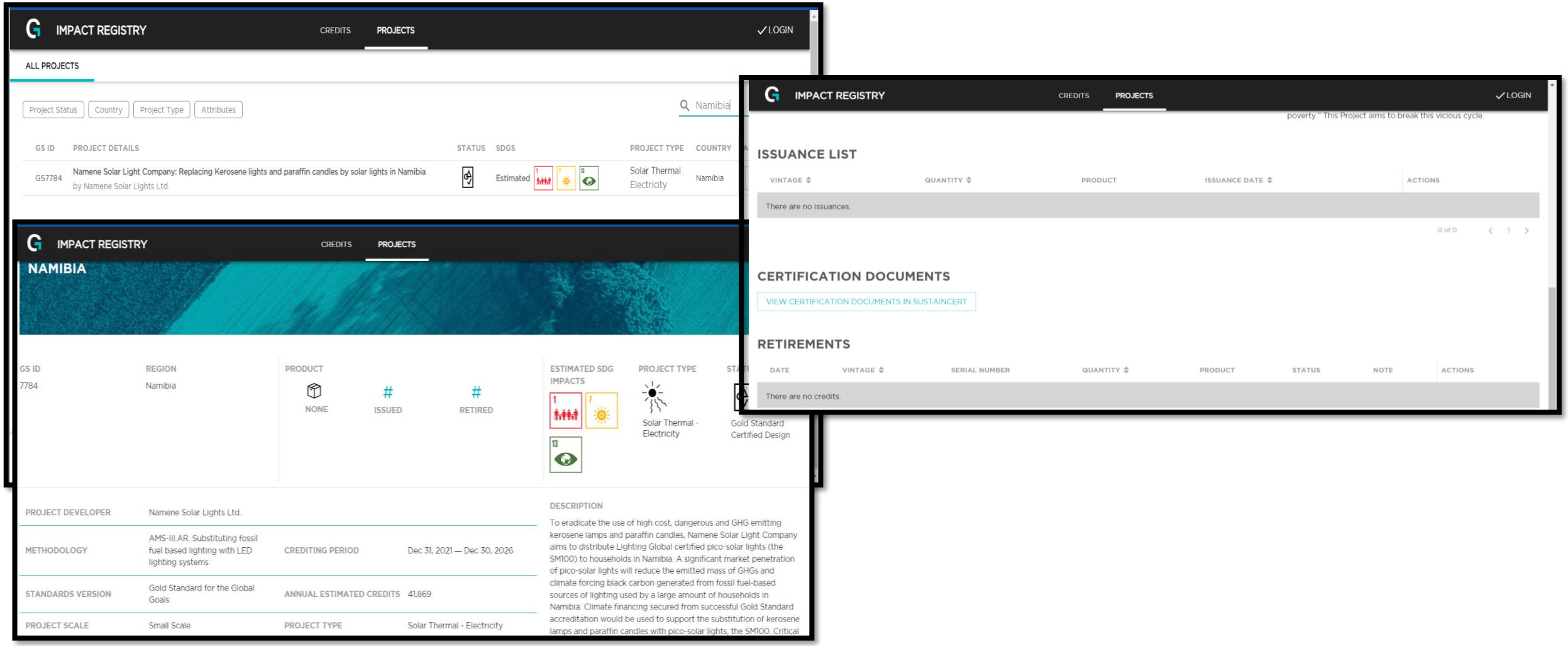
1. Emissions Unit Programme
2. Eligibility Timeframe: Eligible for cancellation for use toward CORSIA offsetting requirements in the compliance period:
    1. Pilot phase (2021 – 2023)
    2. First phase (i.e., 2024 – 2026)
3. Vintage Criteria: Issued to activities that started their first crediting period from 1 January 2016 and in respect of emissions reductions that occurred through 31 Dec 2020
4. Scope of Eligibility: Linked to activity and/or unit types, methodologies, programme elements, and/or procedural classes

Source: ICAO document — CORSIA Eligible Emissions Units

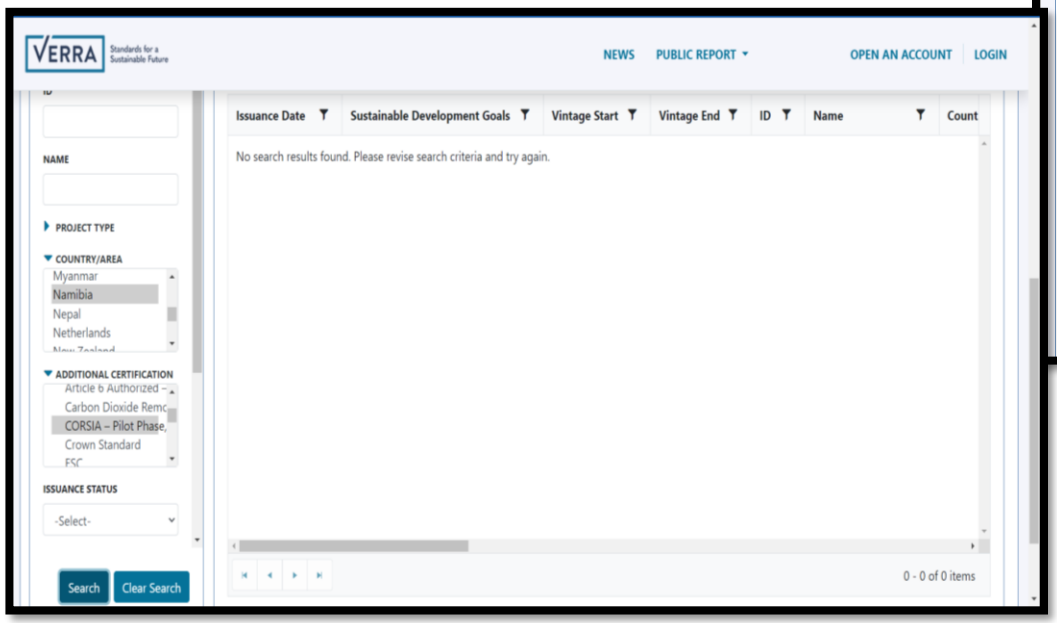
CORSIA Eligible Programmes – Vintage Criteria

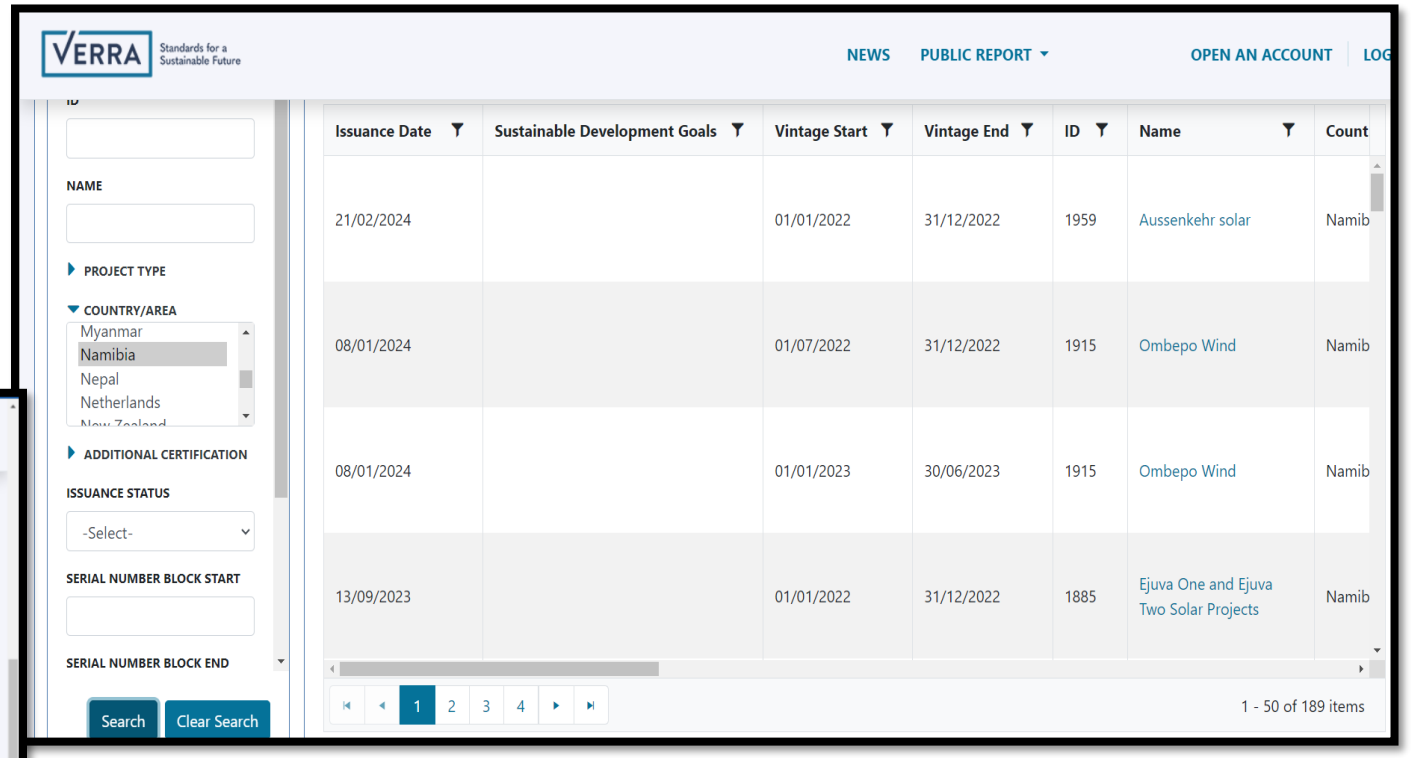
Programme	Pilot phase	First phase
ACR	The emission reduction occurred from a project, registered under any of these programmes, between a period of **01/01/2016 to 31/12/2023** are eligible for pilot phase, only if the projects have their first crediting period from 01/01/2016.	The emission reduction occurred from a project, registered under any of these programmes, between a period of **01/01/2021 to 31/12/2026** are eligible for first phase, only if the projects have their first crediting period from 01/01/2016.
ART		
ISFL	The emission reduction occurred from a project, registered under any of these programmes, between a period of **01/01/2016 to 31/12/2020** are only eligible for pilot phase, only if the projects have their first crediting period from 01/01/2016.	
CDM		
CCER		
CAR		
FCPF		
GCC		
GS		
SOCIALCARBON		
VCS		

GS registry: Namibia's project in the Gold Standards…but not CORSIA eligible



VCS: Namibia’s project in the Verra Registry





From the CORSIA eligible emissions units

Verified Carbon Standard (VCS)

Programme-designated Registry:	Verra Registry[3] https://verra.org/project/vcs-program/registry-system/
Eligibility Timeframe:	Eligible for cancellation for use toward CORSIA offsetting requirements in the 2021 – 2023 compliance period
Eligible Unit Dates:	Issued to activities that started their first crediting period from 1 January 2016[4] and in respect of emissions reductions that occurred through 31 December 2020
Scope of Eligibility:	Verified Carbon Units (VCUs), including any additional certifications, and with the exclusion of the following activity and/or unit types, methodologies, programme elements, and/or procedural classes:

d) California Early Action Offset Credits (EAOCs)

e) California Registry Offset Credits (ROCs)

f) VCUs issued to activities that have not reported their sustainable development contributions or co-benefits in the course of applying the Climate, Community and Biodiversity (CCB) Standards or the Sustainable Development Verified Impact Standard (SD VISta Standard), or according to other default list(s) of sustainable development criteria that the VCS clearly identifies for such use

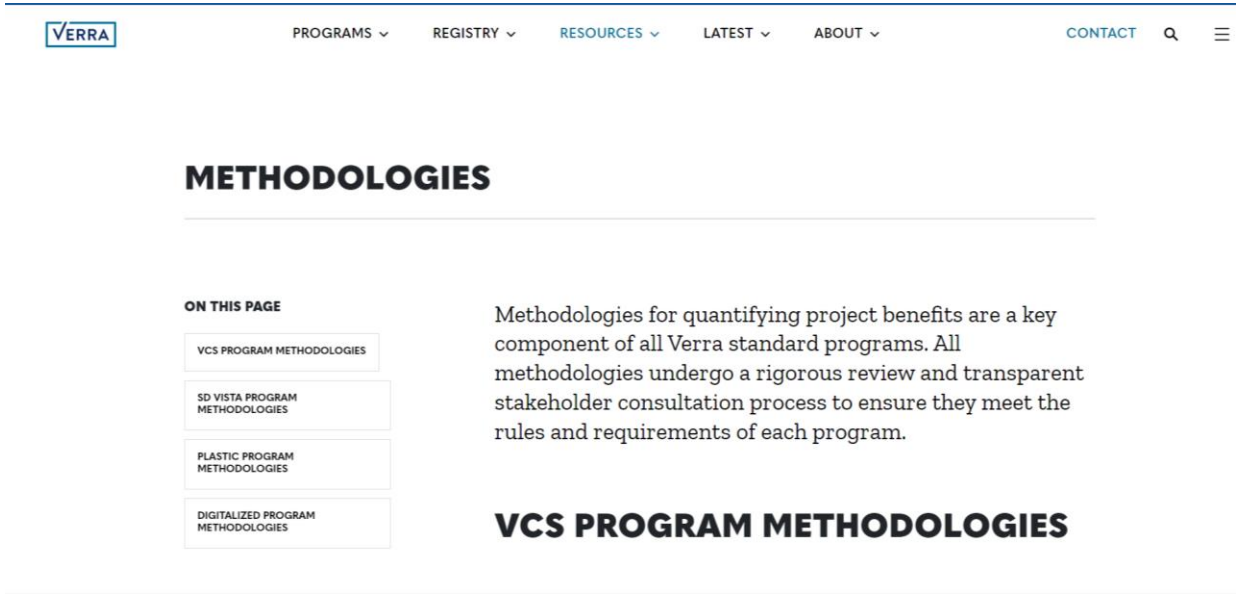
g) VCUs issued to project-level activities, including projects following the VCS Jurisdictional and Nested REDD+ (JNR) framework, that are developed in REDD+ countries[5] and utilize methodologies within the programme's Sectoral Scope 14 and are estimated[6] to generate greater than 7,000 Verified Carbon Units (VCUs) / annum individually or grouped **with these allowable exceptions**:

   a. VCUs issued to project-level activities under a jurisdictional programme following Scenario 2a of the VCS JNR framework

   b. VCUs issued under a jurisdictional programme following Scenario 3 of the VCS JNR framework

   c. VCUs issued to project-level activities that utilize one of the following methodologies: VM0012, VM0017, VM0021, VM0022, VM0024, VM0026 (and VMD0040), VM0032, VM0033, VM0036, VM0041, VM0042.

VCU’s methodology

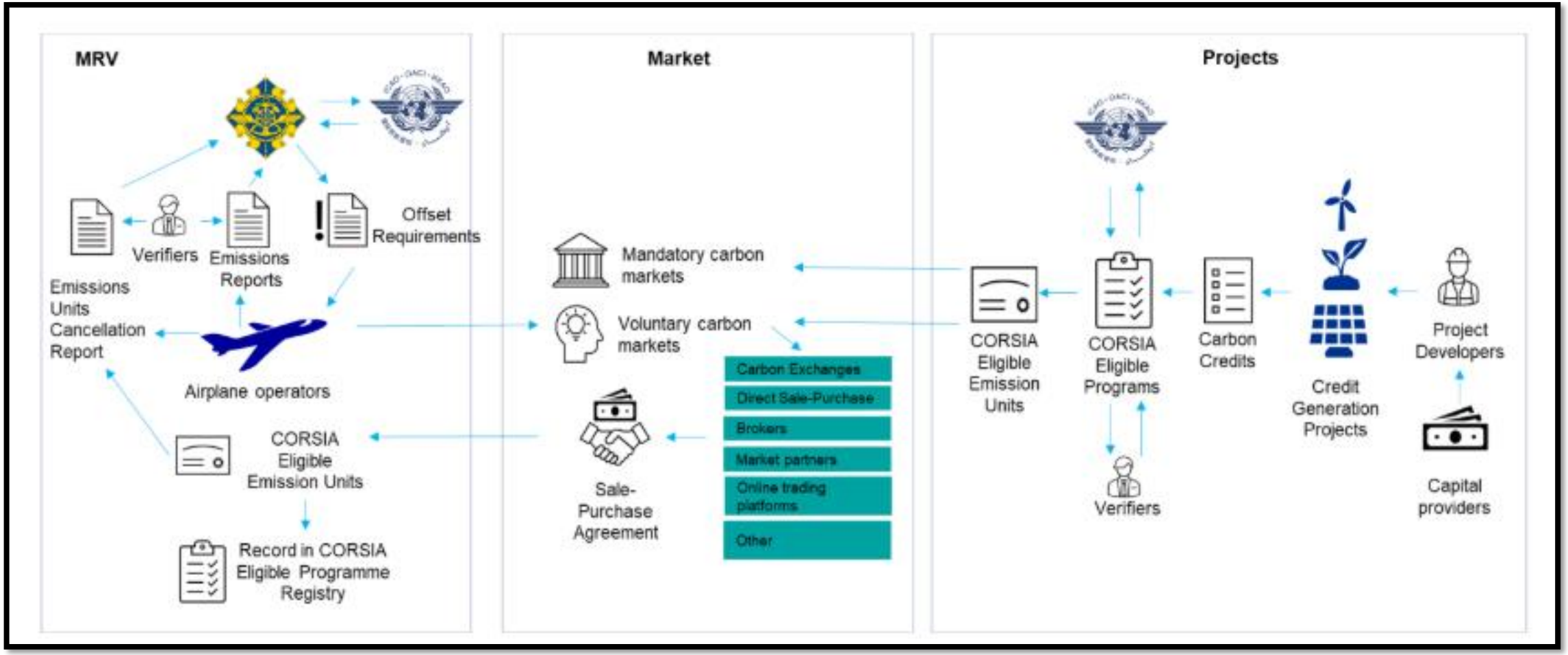


Example: scope of eligibility for CORSIA, GSF

The Gold Standard (GS)

Programme-designated Registry:	GSF Impact Registry[3] https://registry.goldstandard.org/projects?q=&page=1
Eligibility Timeframe:	Eligible for cancellation for use toward CORSIA offsetting requirements in the 2021 – 2023 compliance period
Eligible Unit Dates:	Issued to activities that started their first crediting period from 1 January 2016[4] and in respect of emissions reductions that occurred through 31 December 2020
Scope of Eligibility:	The Gold Standard verified emissions reductions (VERs), including any additional certifications, and with the exclusion of the following activity and/or unit types, methodologies, programme elements, and/or procedural classes: a) Planned Emission Reductions (PERs) b) Units issued from micro scale activities where an accredited entity has not carried out validation and verification c) VERs issued to all activities that are developed in REDD+ countries[5] and utilize methodologies in the programme's Land Use and Forestry & Agriculture categories and are estimated[6] to generate greater than 7,000 Verified Emissions Reductions (VERs) / annum individually or grouped, with the allowable exception of activities that utilize methodologies in the Soil Organic Carbon, Agriculture, and Livestock categories.

CORSIA OFFSETTING SCHEME



EASA
European Union Aviation Safety Agency

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

Discussion with the Ministry of environment and actions under carbon market for ITMO, ART 6 and opportunities under CORSIA to maximise synergies and promotion of CORSIA units

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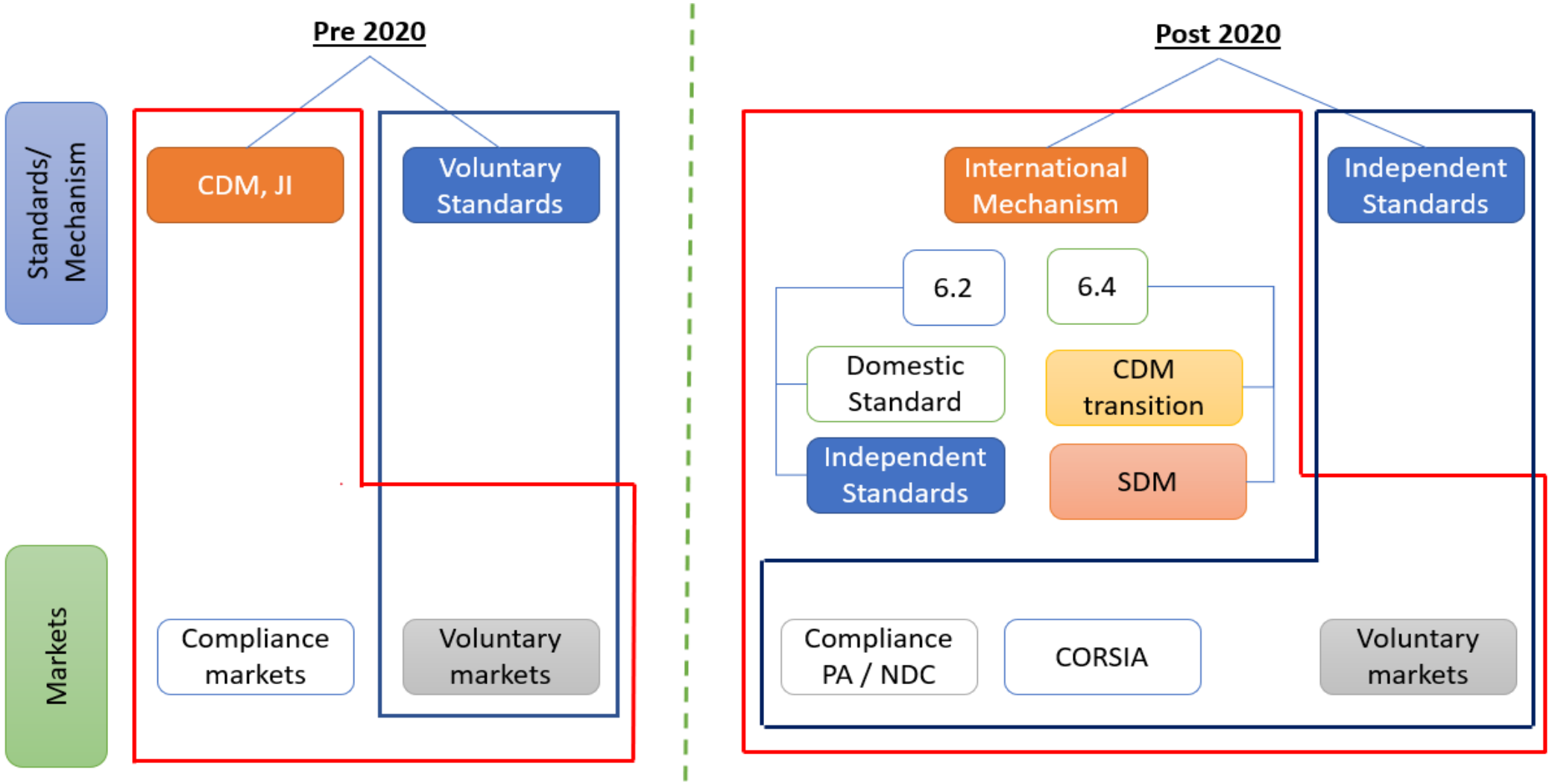
Pre-and post-2020 carbon market situation



CORSIA *Carbon Offsetting and Reduction Scheme for International Aviation*
NDC *Nationally Determined Contribution*
PA *Paris Agreement*
SDM *Sustainable Development Mechanism*

Carbon market profile, Namibia

-November 2023: **draft Carbon Market Framework (CMF) aimed at** setting up processes for developing and implementing carbon market activities in Namibia.

-CMF TO operationalise carbon crediting mechanisms under article 6,4 of the Paris Agreement

-Namibia's second updated NDCs have identified carbon markets as a strategy for mobilising climate finance to fund both adaptation and mitigation measures.

EASA
European Union Aviation Safety Agency

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and implemented by EASA

Thank you

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