



ICAO

# INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY



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# Regional Environmental Performance

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JOINT ICAO/SADC SASO ENVIRONMENTAL WORKSHOP FOR SADC MEMBER STATES

Swakopmund Plaza, Namibia: 11-13 November 2025

# Key Performance Indicators

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## ICAO Business Plan (2023-2025)

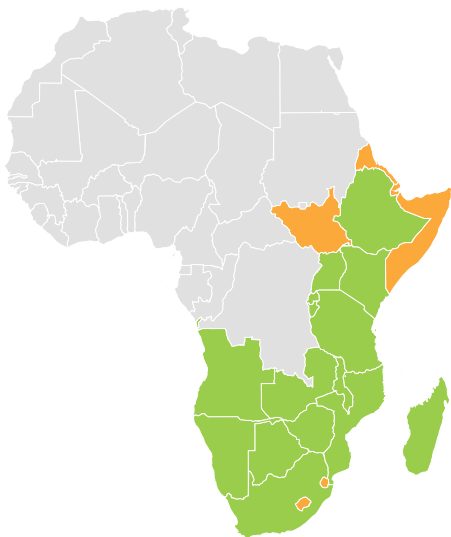
<https://www.icao.int/Meetings/a41/Documents/ICAO%20Business%20Plan%202023-2025%20V1.0%2025%20July%202022.pdf>

- STRATEGIC OBJECTIVE ENVIRONMENTAL PROTECTION
- Two KPIs used: Number of States that have:
  1. Volunteered to participate in the CORSIA
  2. Developed initial State Action Plans

**Note!:** New ICAO Strategic Plan (2026-2050)



■ Yes ■ No



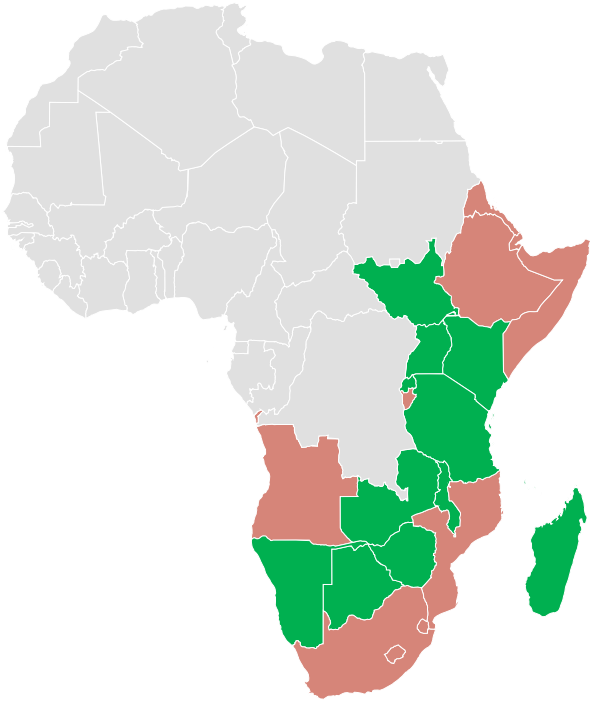
|                             | 67% 1st Ed | 2nd Ed | 3rd Ed |
|-----------------------------|------------|--------|--------|
| Angola                      | 1          |        |        |
| Botswana                    | 1          |        |        |
| Burundi                     | 1          |        |        |
| Comoros                     | 1          |        |        |
| Djibouti                    |            |        |        |
| Eritrea                     |            |        |        |
| Eswatini                    |            |        |        |
| Ethiopia                    | 1          |        |        |
| Kenya                       | 1          | 1      | 1      |
| Lesotho                     |            |        |        |
| Madagascar                  | 1          |        |        |
| Malawi                      | 1          |        |        |
| Mauritius                   | 1          | 1      |        |
| Mozambique                  | 1          | 1      |        |
| Namibia                     | 1          |        |        |
| Rwanda                      | 1          |        |        |
| Seychelles                  | 1          |        |        |
| Somalia                     |            |        |        |
| South Africa                | 1          |        |        |
| South Sudan                 |            |        |        |
| Uganda                      | 1          |        |        |
| United Republic of Tanzania | 1          |        |        |
| Zambia                      | 1          | 1      |        |
| Zimbabwe                    | 1          |        |        |
| Grand Total                 | 18         | 4      | 1      |

# State Action Plans (SAPs)

## Purpose and Scope

- Helps States assess and plan CO<sub>2</sub> reduction in international aviation, engage stakeholders, identify mitigation actions, and streamline policies.
- Includes identifying a national focal point, using ICAO tools and submitting/updating the SAP to ICAO.

No Yes



| State                       | Status |
|-----------------------------|--------|
| Angola                      | No     |
| Botswana                    | Yes    |
| Burundi                     | No     |
| Comoros                     | Yes    |
| Djibouti                    | No     |
| Eritrea                     | No     |
| Eswatini                    | No     |
| Ethiopia                    | No     |
| Kenya                       | Yes    |
| Lesotho                     | No     |
| Madagascar                  | Yes    |
| Malawi                      | Yes    |
| Mauritius                   | Yes    |
| Mozambique                  | No     |
| Namibia                     | Yes    |
| Rwanda                      | Yes    |
| Seychelles                  | Yes    |
| Somalia                     | No     |
| South Africa                | No     |
| South Sudan                 | Yes    |
| Uganda                      | Yes    |
| United Republic of Tanzania | Yes    |
| Zambia                      | Yes    |
| Zimbabwe                    | Yes    |

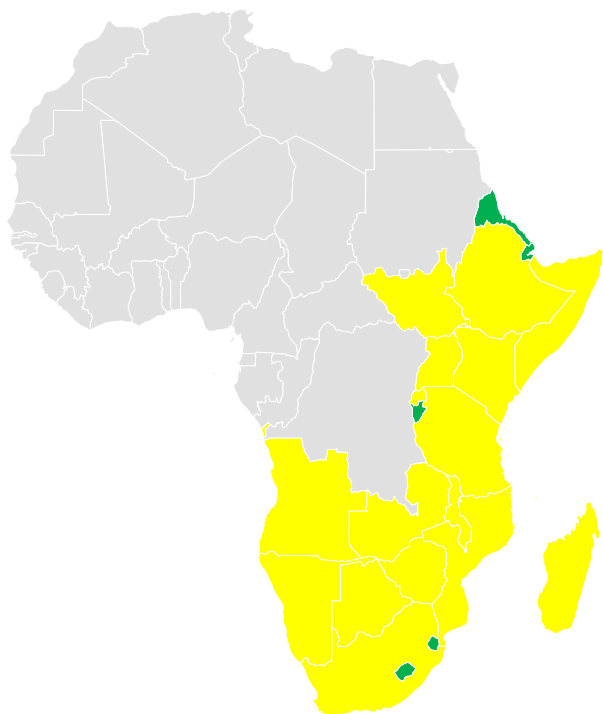
© GeoNames, Microsoft, OpenStreetMap, TomTom

# CORSIA Voluntary Participation

## Purpose and Scope

- Demonstrate commitment to ICAO’s climate goals and global cooperation.
- Participation is optional during the pilot phase (2021–2023) and first phase (2024–2026).
- States can join or withdraw voluntarily.

■ Yes ■ No



|                             | Status |
|-----------------------------|--------|
| Angola                      | Yes    |
| Botswana                    | Yes    |
| Burundi                     | No     |
| Comoros                     | Yes    |
| Djibouti                    | No     |
| Eritrea                     | No     |
| Eswatini                    | No     |
| Ethiopia                    | Yes    |
| Kenya                       | Yes    |
| Lesotho                     | No     |
| Madagascar                  | Yes    |
| Malawi                      | Yes    |
| Mauritius                   | Yes    |
| Mozambique                  | Yes    |
| Namibia                     | Yes    |
| Rwanda                      | Yes    |
| Seychelles                  | Yes    |
| Somalia                     | Yes    |
| South Africa                | Yes    |
| South Sudan                 | Yes    |
| Uganda                      | Yes    |
| United Republic of Tanzania | Yes    |
| Zambia                      | Yes    |
| Zimbabwe                    | Yes    |

## ACT-SAF Partnership

### Purpose and Scope

- Accelerate SAF deployment globally through ICAO's Assistance, Capacity-building and Training (ACT) initiative.
- Support States in developing policies, infrastructure, and supply chains for SAF.
- Promote knowledge sharing and technical cooperation among stakeholders.

# ICAO's Universal Safety Oversight Audit Programme (USOAP)

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## ICAO's Universal Safety Oversight Audit Programme (USOAP)

- focuses on a State's capability in providing safety oversight by assessing whether the State has implemented the critical elements (CEs) of a safety oversight system effectively and consistently.
- enables the State to ensure the implementation of ICAO's safety-related Standards and Recommended Practices (SARPs) and associated procedures and guidance material.



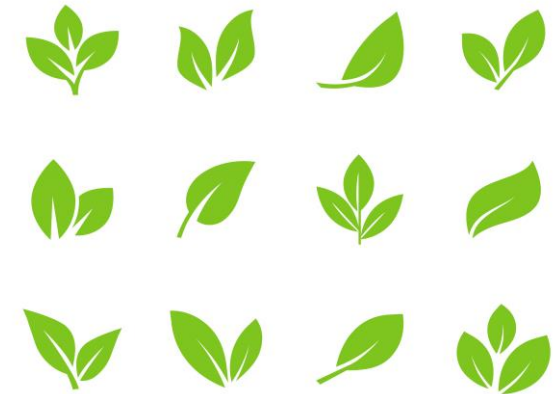


## The Compliance Checklists (CCs)

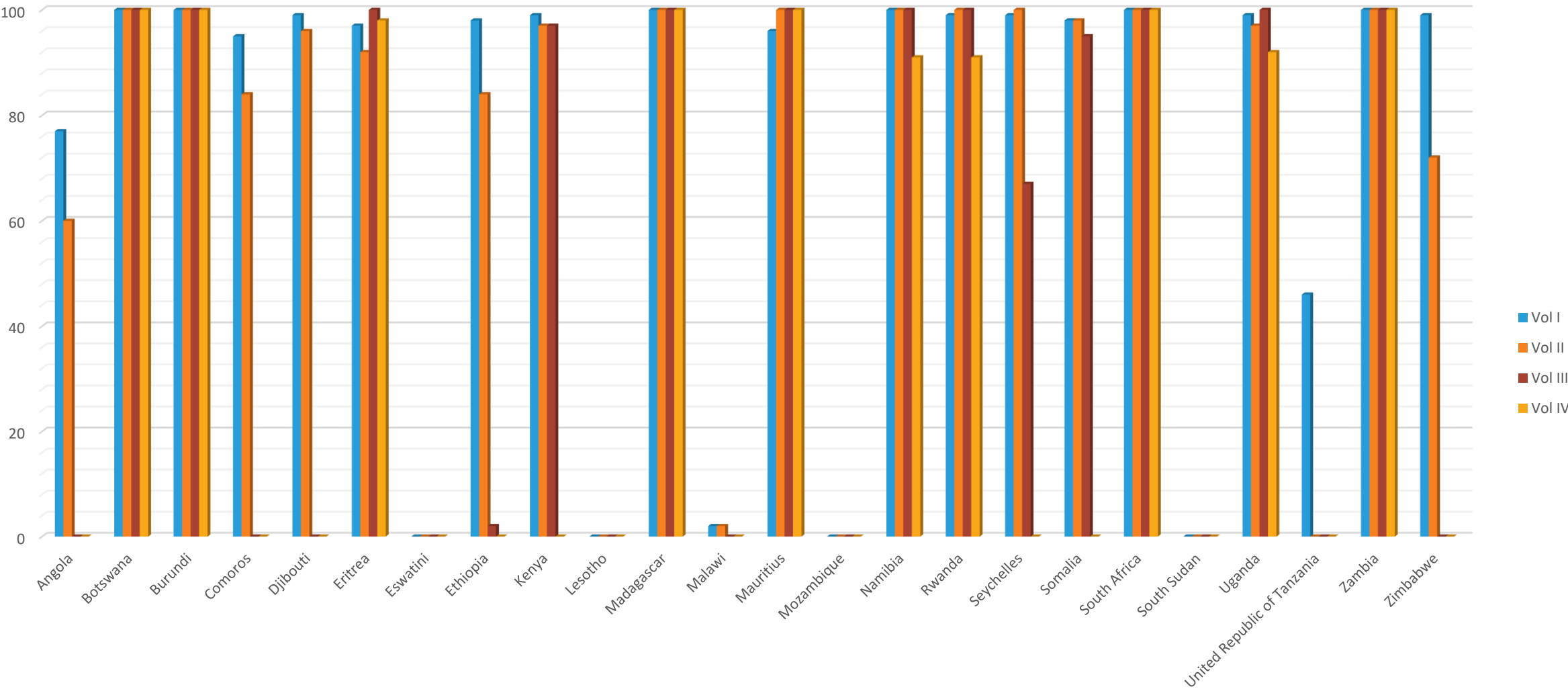
- is a web-based tool that allows States to **assess and report their level of implementation of the SARPs** found in the ICAO Annexes to the Chicago Convention.
  - This includes Annex 16
- It supports ICAO's Universal Safety Oversight Audit Programme (USOAP) by providing a structured overview of compliance.
- It helps States:
  - self-evaluate their **regulatory frameworks**.
  - It identifies areas where comply, or do not comply with ICAO SARPs. national regulations comply, partially

# Annex 16

- Volume I
  - Aircraft Noise
- Volume II
  - Aircraft Engine Emissions
- Volume III
  - Aeroplane CO<sub>2</sub> Emissions
- Volume IV
  - Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)



# ESAF: ANNEX 16 CCs- % Completion



Axis Title

Carbon Offsetting and Reduction Scheme for International Aviation (**CORSIA**) regulations are critically important for any Sustainable Aviation Fuel (SAF) projects.

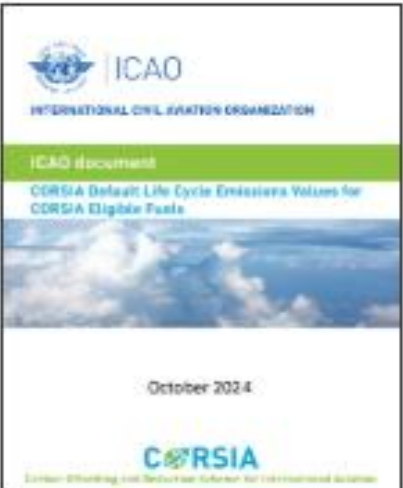
WHY?

- **CORSIA Eligible Fuels (CEFs)**

- CORSIA allows aircraft operators to reduce its offsetting requirements through the use of **CORSIA eligible fuels**, which include **CORSIA Sustainable Aviation Fuels (SAF)** and **CORSIA Lower Carbon Aviation Fuels (LCAF)**.
- CORSIA Recognizes **SAF as a key emissions reduction tool**
  - SAF Must Meet CORSIA Sustainability and Emissions Criteria
  - <https://www.icao.int/environmental-protection/CORSIA/Pages/CORSIA-Eligible-Fuels.aspx>

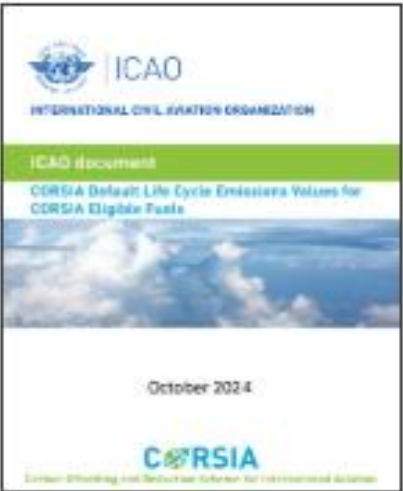
# ICAO Annex 16 Volume IV: Importance of CORSIA Regulations

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

|                                                                                                                                        |                                                                                                         |                                                                                                               |                                                                                                                           |                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|                                                       |                        |                            |                                        |                                      |
| <p><b>CORSIA Eligibility Framework and Requirements for Sustainability Certification Schemes</b><br/>Third Edition,<br/>March 2024</p> | <p><b>CORSIA Approved Sustainability Certification Schemes*</b><br/>Third Edition,<br/>October 2024</p> | <p><b>CORSIA Sustainability Criteria for CORSIA Eligible Fuels**</b><br/>Third Edition,<br/>November 2022</p> | <p><b>CORSIA Default Life Cycle Emissions Values for CORSIA Eligible Fuels***</b><br/>Sixth Edition,<br/>October 2024</p> | <p><b>CORSIA Methodology for Calculating Actual Life Cycle Emissions Values</b><br/>Fifth Edition,<br/>October 2024</p> |

# ICAO Annex 16 Volume IV: Importance of CORSIA Regulations

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

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|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|                                                       |                        |                            |                                        |                                      |
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## ICAO developed model CORSIA regulations

- that aim to facilitate the establishment of a regulatory system for the CORSIA *Monitoring, Reporting and Verification (MRV)* system by ICAO's Member States.
- in compliance with the **Annex 16, Volume IV.**

## CORSIA PERIODIC REVIEW

## CORSIA IMPLEMENTATION

- Assembly Resolution A41-22
  - (EN) (FR) (SP) (RU) (AR) (ZH)
- Reservation to Resolution A41-22
- SARPs - Annex 16 Volume IV
- Environmental Technical Manual - Volume IV
  - » Templates
- ICAO CORSIA Implementation Elements
  - » CORSIA States for Chapter 3 State Pairs
  - » ICAO CORSIA CO<sub>2</sub> Estimation and Reporting Tool (CERT)
  - » CORSIA Eligible Fuels
  - » CORSIA Eligible Emissions Units
  - » CORSIA Central Registry (CCR)
- Additional Material for CORSIA Implementation

## CORSIA NEWSLETTER

## ACT-CORSIA

- CORSIA Buddy Partnerships
- Examples of Good Practice
  - » Model regulations
  - » CO<sub>2</sub> Aggregation
- Frequently Asked Questions
- Brochure and Leaflets
- Videos (Navigating CORSIA)
- Seminars
- Background Information



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# Questions?

Thank you...

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# Thank You

