



VIRONMENT



# *Second Arab Forum for Environmental Protection in the Arab Civil Aviation Industry*

*Marrakech, 26th & 27th February 2024*



# ICAO – Capacity Building and Assistance to States programmes





ICAO's "No Country Left Behind" initiative, ICAO Environment carries out a number of capacity-building and assistance activities.

These assistance activities are most often related to the

- ICAO State Action Plan initiative
- Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)
- Sustainable Aviation Fuels

- In 2016, the **ICAO State Action Plan Buddy Programme** was developed to support States that did not yet developed, or were in the process of developing, a State Action Plan to establish a partnership with a State that has already developed and submitted a State Action Plan to ICAO.
- ICAO has developed a **draft agreement of cooperation** aiming to establish a model framework by which ICAO Member States can help other Member State(s) to prepare and submit a State Action Plan.
- It aims to facilitate the development of international cooperation among ICAO Member States.
- 9 Partnerships were developed



- June 2018, the ICAO Council endorsed the ICAO ACT-CORSIA (Assistance, Capacity-building and Training for the CORSIA) Programme, in recognition of the fact that a number of ICAO Member States would need targeted assistance in order to prepare for CORSIA implementation
- ICAO Council emphasized the importance of a **coordinated approach** under ICAO to harmonize and bring together all relevant actions and promote coherence to capacity building efforts related to CORSIA implementation.

ICAO Assistance, Capacity-building and Training on CORSIA (ACT-CORSIA):

ACT CORSIA is a **coordinated approach** to harmonize and bring together all relevant actions and promote **coherence to capacity building efforts for CORSIA implementation** – also enabling the **monitoring of global progress / transparency**



- CORSIA Buddy Partnerships
- Examples of Good Practice
- Frequently Asked Questions
- Brochure and Leaflets
- Videos
- Seminars
- Online Tutorials
- Background Information

# ACT-CORSIA Buddy Partnerships

- Cornerstone of ACT-CORSIA to support States to prepare for CORSIA implementation
- Technical experts provided by supporting States are working together with the CORSIA Focal Points of support-receiving States to provide on-site training, and to closely follow-up on the actions required for the implementation of CORSIA





- Since the launch in July 2018, the ICAO ACT-CORSIA (Assistance, Capacity-building and Training for CORSIA) Buddy Partnerships have proven to be an extremely successful modality
  - Training and assistance to support requesting States on various aspects of CORSIA implementation.
- ***Measure of success:*** More than 96% of global CORSIA CO<sub>2</sub> emissions having been submitted annually by States through the CORSIA Central Registry (CCR) for the period 2019-2021.



# ACT-CORSIA Buddy Partnerships

Different phases with specific focus areas in order to support necessary actions by States with different timelines

**Phase I (Sep 2018 – Apr 2019): 15 supporting States and 98 requesting States**

- Development and approval of Emissions Monitoring Plans
- Establishment of national/regional regulatory frameworks

**Phase II (May 2019 – Apr 2020): 16 supporting States and 114 requesting States**

- CO<sub>2</sub> Emissions reporting and verification

**Phase III (Apr 2020 - 2024): 17 supporting States and 119 requesting States**

- Use of the CORSIA Central Registry (CCR)

The focus areas of each Phase can form the basis for checklist to assess the progress made and milestones achieved in order to determine the need for a tailored approach to training.

ACT >>> CORSIA <sup>Phase III</sup> Assistance, Capacity-building and Training on CORSIA	
<b>AUSTRALIA</b>	<b>KENYA / UNITED KINGDOM</b>
1. BRUNEI DARUSSALAM	1. ETHIOPIA
2. INDONESIA	2. RWANDA
3. NAURU	3. SEYCHELLES
4. PAPUA NEW GUINEA	4. SOUTH SUDAN
5. SRI LANKA	5. UGANDA
6. THAILAND	6. UNITED REPUBLIC OF TANZANIA
<b>BRAZIL</b>	<b>NEW ZEALAND</b>
1. ANGOLA	1. ELU
2. CARGO VERDE	2. SAMOA
3. HOLLANDS	3. SOLOMON ISLANDS
4. SAG TONGA AND PRINCIPE	4. VANUATU
<b>CANADA</b> (Facilitated by CANSIB)	<b>NIGERIA</b>
1. ANTIQUA AND BARBUDA	1. GAMBIA
2. BARBADOS	2. GHANA
3. BAHAMA	3. LIBERIA
4. HAITI	4. SIERRA LEONE
5. JAMAICA	5. SUDAN
6. SURINAME	<b>REPUBLIC OF KOREA</b>
7. TRINIDAD AND TOBAGO	1. LAO PEOPLE'S D. R.
<b>CANADA / FRANCE</b>	2. MONGOLIA
1. BENIN	3. PAKISTAN
2. BURKINA FASO	4. PHILIPPINES
3. BURUNDI	5. VIETNAM
4. CAMEROON	<b>QATAR</b>
5. CENTRAL AFRICAN REPUBLIC	1. BARBAIN
6. CHAD	2. BAN
7. COMOROS	3. IRAQ
8. CONGO	4. JORDAN
9. CÔTE D'IVOIRE	5. KENYA
10. EMBOUTI	6. KUWAIT
11. D. R. OF CONGO	7. LIBYA
12. GABON	8. OMAN
13. GUINEA	<b>SINGAPORE</b>
14. MADAGASCAR	1. COOK ISLANDS
15. MALI	2. KIRIBATI
16. MALDIVAS	3. MARSHALL ISLANDS
17. MALI	4. PALAU
18. NIGER	5. TONGA
19. SENEGAL	6. TUNALI
20. TOGO	<b>SOUTH AFRICA</b>
<b>FRANCE</b> (Facilitated by ACAS)	1. BOTSWANA
1. ALGERIA	2. EDWATINI
2. MOROCCO	3. LESOTHO
3. TUNISIA	4. MALAWI
<b>GERMANY</b>	5. NAMIBIA
1. ALBANIA	6. ZAMBIA
2. ARMENIA	7. ZIMBABWE
3. AZERBAIJAN	<b>SPAIN</b> (Facilitated by CCR/INMA)
4. BELARUS	1. BELIZE *
5. GEORGIA	2. BOLIVIA
6. KAZAKHSTAN	3. COLOMBIA
7. NORTH MACEDONIA	4. COSTA RICA *
8. REPUBLIC OF MOLDOVA	5. CUBA
9. SAUDI ARABIA	6. EL SALVADOR *
10. SERBIA	7. EQUATORIAL GUINEA
11. TAJIKISTAN	8. GUATEMALA *
12. TURKMENISTAN	9. HONDURAS *
<b>ITALY / UNITED KINGDOM</b>	10. MEXICO
1. BAHAMAS	11. NICARAGUA *
2. ERITREA	12. PANAMA
3. SOMALIA	13. PERU
<b>JAPAN</b>	14. URUGUAY
1. AFGHANISTAN	<b>USA</b>
2. BANGLADESH	1. ARGENTINA
3. BHUTAN	2. DOMINICAN REPUBLIC
4. CAMBODIA	3. ECUADOR
5. MALAYSIA	4. PANAMA
6. MYANMAR	

**17 SUPPORTING STATES**  
**119 REQUESTING STATES**

## ICAO Assistance, Capacity-building and Training for Sustainable Aviation Fuels



Launched on 1 June 2022, in an event associated to the Stockholm+50 Conference

- ➤ Technical training on all aspects of SAF (through ACT-SAF Series)
- ➤ Tailored support for States based on their individual needs
- ➤ ACT-SAF Platform to monitor and report the use of SAF
- ➤ SAF feasibility studies for States, in line with ICAO template
- ➤ Development of concrete SAF projects coordinated by ICAO

## What is the ICAO ACT-SAF?

- Launched on June 1<sup>st</sup> 2022, ACT-SAF is an ICAO initiative to facilitate the development and deployment of SAF
- Tailored support for States
- Facilitate cooperation under ICAO coordination
- A Platform to facilitate knowledge sharing and progress monitoring

## Why ICAO ACT-SAF programme?

- Builds on existing ICAO “ACT” experience, through partnerships and cooperation among States
- ICAO LTAG report foresees largest CO<sub>2</sub> reductions coming from fuels and cleaner energy sources
- Need for immediate action to fully realize SAF potentials
- ACT-SAF was welcomed by the 41st ICAO Assembly (A41-21, para. 18)





# How does ACT-SAF work

<b>1) Interested party expresses interest in becoming an ACT-SAF Partner</b>	<b>2) ICAO coordinates with the interested party the details of the offers / requests, and suggest possible projects</b>	<b>3) Agreement is signed and projects defined</b>	<b>4) ICAO connects ACT-SAF Partners</b>
<p><b>Supporting State / Organization</b> can participate by providing experts and/or resources</p> <p><b>Requesting State</b> can participate by providing a focal point for coordination</p>	<p><b>Possible projects:</b></p> <ul style="list-style-type: none"><li>• Feasibility Studies</li><li>• Training programmes</li><li>• Support for SAF certification</li><li>• Support for Policy implementation</li></ul>	<p><b>The Agreement will contain:</b></p> <p>Details on the cooperation terms, including the roles and responsibilities of ICAO and each participant</p>	<p><b>Criteria for connection:</b></p> <ul style="list-style-type: none"><li>• Matching expertise</li><li>• Language, cultural and geographical aspects</li><li>• Resources availability</li></ul>

# ACT-SAF Partners

90

States

- Name of State
- Albania
  - Argentina
  - Australia
  - Austria
  - Bahamas
  - Bangladesh

60

Organizations

- Name of Organization
- Fastjet Zimbabwe Pvt Ltd
  - European Commission
  - European Civil Aviation Conference
  - Eurocontrol
  - EASA - European Aviation Safety Agency
  - Cranfield University
  - Chemcore Consultants

## States

Acceptance to ... ● Pending ● Yes



## International Organizations

Acceptance T&C ● (Blank) ● Pending ● Yes



[ACT-SAF platform](#) provides the details on ACT-SAF participation and initiatives



Many ACT-SAF partners and aviation Stakeholders are supporting the implementation of cleaner energies for aviation

# ACT-SAF Training Series

➤ Technical knowledge is a prerequisite for the implementation of specific SAF projects and policies

➤ ACT-SAF partners can participate live and directly ask questions and have feedback

➤ In 2024, ICAO continues to organize ACT-SAF Series trainings on various subject matters such as SAF in State Action Plans, ICAO SAF supporting tools, feasibility assessments, etc.







ACT-SAF Series	Date	Topics	Contributor(s)	Abstract	Video and Presentation
#1	23 November 2022	An introduction to SAF	ICAO	<ul style="list-style-type: none"> <li>Introduction to ACT-SAF</li> <li>Basics of SAF</li> </ul>	 Download Presentation
#2	25 January 2023	SAF sustainability and reporting under CORSIA	IBCC RSB Vertavis	<ul style="list-style-type: none"> <li>process for sustainability certification of SAF</li> <li>Reporting and verification of SAF claims under CORSIA</li> </ul>	 Download Presentation
#3	27 February 2023	SAF technology and certification	Airbus US FAA Saftco	<ul style="list-style-type: none"> <li>specifications for aviation turbine fuels</li> <li>process for approval for new production pathways</li> </ul>	 Download Presentation
#4	23 March 2023	SAF policies	Brazil, European Commission, France, Japan, Singapore, United Arab Emirates, United States	<ul style="list-style-type: none"> <li>Practical experiences from States that are developing a policy for SAF</li> <li>Sharing of knowledge in the policy development process</li> </ul>	 Download Presentation
#5	21 August 2023	SAF conversion processes	<ul style="list-style-type: none"> <li>Neste</li> <li>Gevo</li> <li>Shell</li> <li>Topsoe</li> <li>SAF+ Consortium</li> </ul>	Conversion processes available to produce SAF - HEFA - Hydroprocessed esters and fatty acids - ATJ - Alcohol to jet - Fischer-Tropsch - Power to Liquids (PtL)	 Download Presentation
#6	12 October 2023	SAF accounting and book and claim systems	IATA IBAC COSAFI RMI/SABA RSB IBCC	Basic concepts on SAF accounting and an overview of ICAO work and ongoing industry initiatives on Book & Claim systems	 Download Presentation
#7	TBC	Feasibility Assessment	TBC		

TABLE 6: ACT-SAF Training Series

Replay the trainings of ACT-SAF Series Season 1 on the [dedicated website](#)

## Capacity Building for SAF eligible under CORSIA and in support of achieving net zero emissions by 2050

- The ACT SAF project with EU Funding involves 12 partner States to conduct SAF feasibility studies to be conducted in 10 States (India and Africa)
- Many feasibility studies will be developed in the ACT-SAF programme (projects funded by Cote d'ivoire, EU, France, Netherlands, United Kingdom, Airbus)



- **ICAO – European Union (EU) project**



Project funded by the European Union  
EuropeAid/Development Cooperation Instrument  
DCI-ENV/2013/322-049

ICAO assistance project *Capacity building for CO<sub>2</sub> mitigation from international aviation*, with EU funding aimed at providing assistance to a selected group of 14 States in Africa and the Caribbean to support their efforts on three objectives:

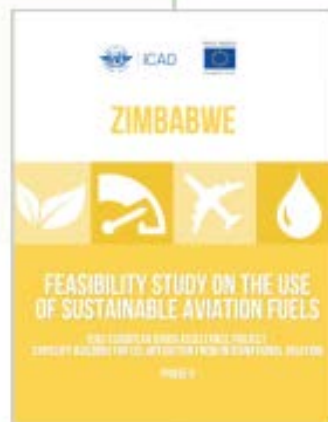
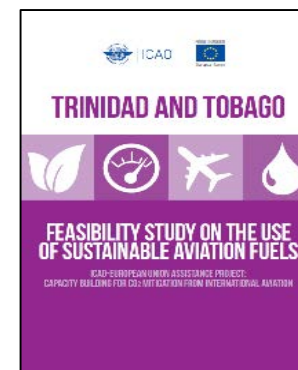
- Objective 1: developing and implementing their States' Action Plans on CO<sub>2</sub> emissions reduction from international aviation,
- Objective 2: to establish aviation environmental systems for emissions monitoring at the State level, and
- Objective 3: to identify, evaluate and implement mitigation measures.





# ICAO Assistance Projects

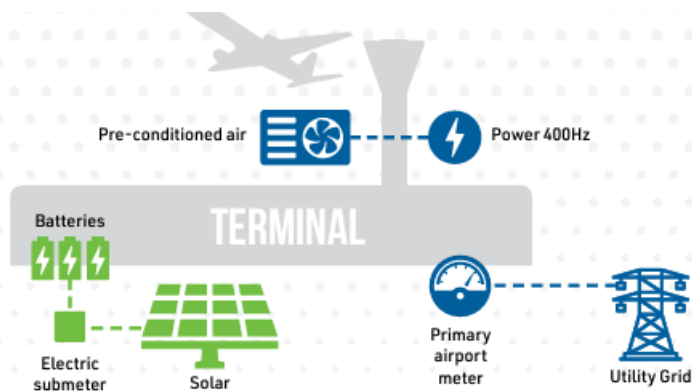
Four successful feasibility studies previously developed under the ICAO assistance project with EU funding (Dominican Republic, Trinidad and Tobago, Kenya and Burkina Faso) in addition to the three ACT-SAF feasibility studies recently completed for Cote d'Ivoire, Rwanda, and Zimbabwe



# ICAO Assistance Projects



- 2015, ICAO formed a partnership with the UNDP to contribute to global agenda of addressing climate change by signing an agreement to implement a project.
- This project financed by the Global Environment Facility (GEF), supported developing States and Small Island Developing States (SIDS) in their efforts to reduce CO<sub>2</sub> emissions from international aviation.



**BENEFITS OF SOLAR-AT-GATE PROJECT**





More information on the ICAO 's work and capacity building activities  
<https://www.icao.int/environmental-protection/Pages/default.aspx>

