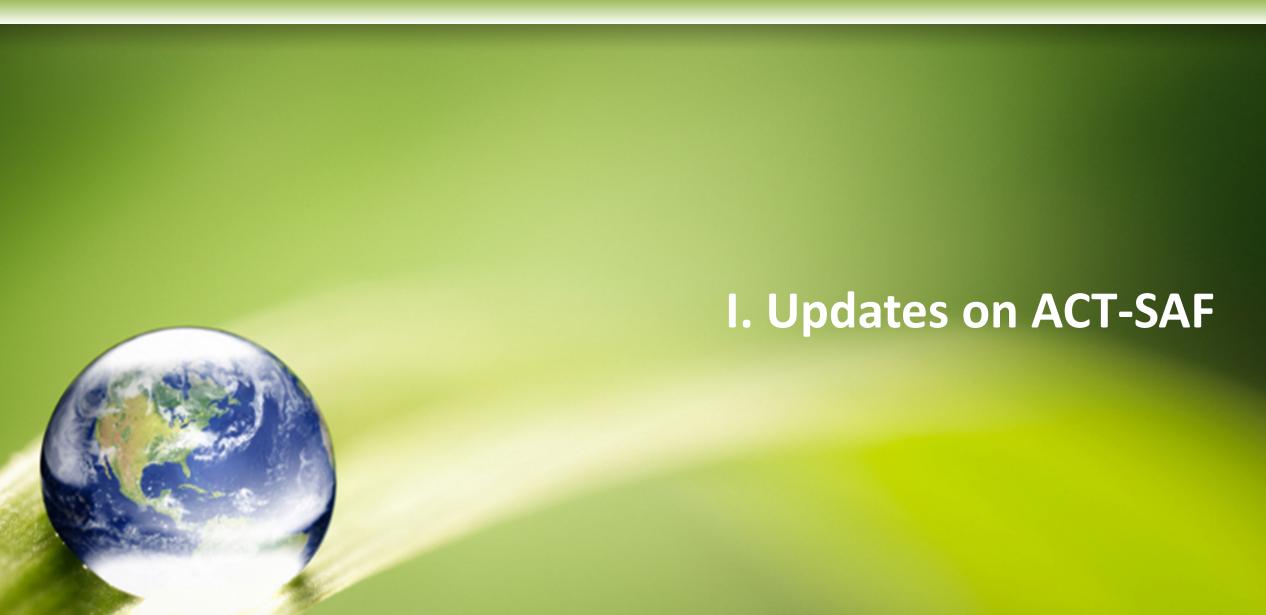


Developments in ACT-SAF SAF as a key future element of State Action Plans Road towards ICAO CAAF/3



Blandine Ferrier Chinga Mazhetese

Environment Officers, ICAO, ESAF, WACAF







States

States

Name of State

Bhutan

Botswana

Brazil

Burkina Faso

Cabo Verde

Cammonna

45

Organizations

Name of Organization

WORLD TRAVEL & TOURISM COUNCIL

World Bank

WEF - World Economic

Forum

Verifavia

Tway Airways

Sustainable Aviation

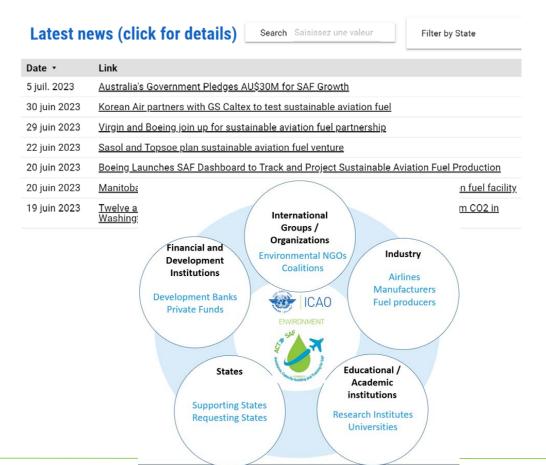


International Organizations

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



ACT-SAF website provides the details on ACT-SAF participation and initiatives



States and Organizations that expressed intention to actively participate in the ACT-SAF Programme



HOW DOES ACT-SAF WORK

1) Interested party expresses interest in becoming an ACT-SAF Partner

2) ICAO deploys ACT-SAF activities based on States tailored needs and capabilities

3) ICAO connects ACT-SAF Participants 4) ICAO facilitates agreements and coordinates concrete SAF projects

Deployment of ACT-SAF activities

- Coordination calls with States to assess needs and offers
- ACT-SAF Series on a monthly basis
- Preparations to launch feasibility studies
- Development of ICAO template for feasibility studies
- Inception of ACT-SAF Platform on monitoring and reporting of SAF

Connection with financing institutions

Regional workshops & meetings with banks Identification of financial tools relevant for SAF

Ongoing

of needs and opportunities between States and industry

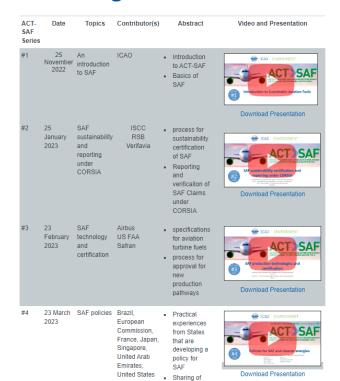




ACT-SAF Series

Replay the trainings on the ACT-SAF website

- Technical training on SAF is a key request of States under ACT-SAF
- The "ACT-SAF Series" provides ACT-SAF Partners with trainings on various key technical aspects of SAF
 - 4 trainings have taken place (Introduction to SAF, Sustainability and reporting under CORSIA, SAF technology and certification, SAF policies)
 - <u>Several additional trainings are coming up</u>: SAF economics and financing,
 SAF Market Outlook, SAF logistics, SAF feasibility assessment. And more!
 - ACT-SAF partners participate live and can directly ask questions and have feedback





Introduction to SAF Nov/2022



SAF sustainability and reporting under CORSIA Jan/2023



SAF technology & certification Feb/2023



SAF policies Mar/2023



SAF Economics and financing Jun/2023



SAF market outlook Jul/2023



SAF logistics Sep/2023



SAF feasibility assessment Oct/2023



SAF feasibility Studies

Feasibility studies are the first step to assessing the SAF potential in a State



- Four successful feasibility studies previously developed under an ICAO-EU project
- Many feasibility studies will be developed in the ACT-SAF programme
 - Three new SAF feasibility studies under the existing ICAO-EU project (Cote d'Ivoire, Rwanda, Zimbabwe)
 - European Commission announced 1.6 million euros for SAF feasibility studies under ACT-SAF.
 - Several SAF feasibility studies will be conducted thanks to funds from France and the Netherlands.
 - ICAO and World Bank project being structured
 - Studies also being pursued by other ACT-SAF partners (e.g. US)









SAF feasibility Studies: ICAO-EU project

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

- The project involves 10 partner states: Cameroon, Egypt, Equatorial Guinea, Ethiopia, Gabon, India, Mauritania, Mozambique, Senegal and South Africa.
- SAF feasibility studies to be conducted in 10 States (India and Africa)







1. EXECUTIVE SUMMARY

Background:

This section will provide a brief overview of the ground of the feasibility, including the reasons for conducting the study and its main objective.

• Key findings:

This section will summarize the important and relevant information include an overview of the differ expanding the properties of the control of the control

Policy enviro

tion wh. de an of the current policy environment related to SAF, including regular standaros, and guidelines. It will also provide an analysis of the policy meliorion or the study's findings.

Opportunit

his section that it is described the opportunities for implementing SAF, including the edstock expansion, the availability of financing, and the potential for reducing gas emissions. It will also highlight any challenges and barriers that need to be at all in order to realize these opportunities.

The Executive Summary will provide a concise, high-level overview of the entire feasibility study, highlighting the most important and relevant findings and recommendations for decision-makers. It will provide an overview of the background, the key findings of the study, policy environment and the opportunities mapped.

Abbreviations & Acronyms

List of Figures & Tables

ICAO is currently developing a template for SAF Feasibility Studies

- Ensure coherence across studies, increased quality
- Harmonized structure (more practical/quantitative)
- Ensure alignment with ICAO's methodologies and guidance
- Include information relevant to facilitate financing
- Facilitate outreach of results of the studies.
- ICAO consulted more than 100 ACT-SAF Partners on the draft template by end of May
- Very useful feedback received, to be consolidated in the final version.

ACT-SAF to facilitate SAF financing

ICAO is connecting with financial institutions across all regions to:

- 1. Raise awareness of financial institutions on the role of SAF to achieve the LTAG, and on the interest of aviation/fuel industries for immediate and massive SAF scale-up;
- 2. Inform financial institutions of the significant investments needed to scale-up SAF production capacity across all regions, in particular for developing countries.
- 3. Explore financial institutions' existing or future financing opportunities to support SAF deployment and inform financing institutions of ways in which they can best contribute to SAF deployment.



Coordination with Financial Institutions

- Since September 2022, ICAO has organised workshops and initial discussions with 35 public and private financing institutions and foundations
 - <u>13 public institutions</u>: Brazil Development Bank (BNDES), Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Emirates Development Bank (EDB), Arab Bank for Economic Development in Africa (BADEA), Asian Development Bank (ADB), World Bank, Green Climate Fund (GCF). Caribbean Development Bank (CDB), Asian Infrastructure Investment Bank, European Bank for Reconstruction and Development (EBRD), European Investment Bank (EIB), Finance Lab (Climate Policy Initiative), UNEP Financing Initiative (UNEP FI).
 - <u>18 private investment institutions</u>: SmartEnergy, ING Group, Green Investment Group, The Arab Investment & Export Credit Guaranteee Corporation (Dhaman), Genzero, Deutsche Bank, Investor Group on Climate Change, Banque de Montreal (BMO), First Abu Dhabi Bank (FAB), Hamilton Clark and Breakthrough Energy, Barclays, ING, Societe Generale, Credit Agricole, BNP Paribas, KWF, Standard Chartered.
 - 1 foundation: ClimateWorks Foundation.
- On March 28th 2023, the Council held an <u>informal meeting with high-level representatives</u> from international financing institutions.















How to become an ACT-SAF Partner?

The ACT-SAF Programme is open to all interested parties in supporting the programme.

To become a partner, the interested party shall accept the Terms and Conditions on the ICAO website.

How to become an ACT-SAF Partner?

You can become an ACT-SAF Partner by agreeing to the ACT-SAF Terms and Conditions. For those interested in further information, an e-mail can be sent to the Office of Environment (officeenv@icao.int). ICAO will schedule a meeting to discuss potential needs and/or contributions under ACT-SAF and further steps into the programme.

docs.google.com/forms/d/e/1FAIpQLSf28JBcRZNR9Xdj-LGB4XCZuhfwflBSmsI9zjqeBGz5fGoUZA/viewform

1. Abbreviations and Definitions

1.1 In this document, unless the context otherwise requires, the following words or abbreviations shall have the corresponding meanings indicated below:

ACT-SAF ICAO's Assistance, Capacity-building and Training for Sustainable Aviation Fuels Programme

ENV ICAO's Office of Environment, a branch of the Air Transport Bureau (ATB)

ICAO The International Civil Aviation Organization, with Headquarters at 999 Robert- Bourassa Boulevard, Montréal, Quebec, Canada, H3C 5H7.

Partner An entity (State, Organization, or Institution) that has accepted the Terms and Conditions of the ACT-SAF in order to participate in the activities envisaged in the programme either as a supporting Entity or as a Requesting State.

Requesting State A Partner State that requests or receives support under the ACT-SAF Programme

SAF Sustainable Aviation Fuels

Supporting Entity A Partner entity that provides resources for the ACT-SAF

Programme





Why develop a State Action Plan?

A State Action Plan can help States:

Report international aviation CO2 emissions

Outline their policies and actions

Provide information on their basket of measures and any specific assistance needs

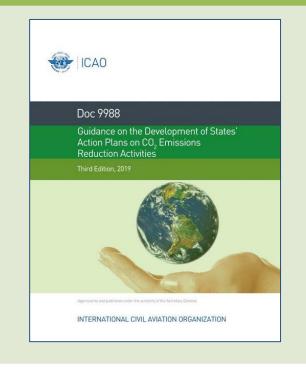
A State Action Plan will help ICAO:

Compile information on achieving the global aspirational goals

Provide guidance and technical assistance on preparing action plans

Identify and respond to States' needs for technical and financial assistance

ICAO Doc 9988
provides guidance to
develop a State Action
Plan



SAF in State Action Plans

- Out of the 138 action plans that were submitted, 84 States in total consider SAF as one of the mitigation measures to reduce CO2 emissions. SAF in the action plans considered in the following ways:
 - SAF Policies in place
 - SAF Policies planned to be implemented
 - SAF development and deployment
 - Research and Development (R&D)
 - Pilot projects
 - Feasibility studies



SAF and Cleaner Energy initiatives from SAPs











United Kingdom

Renewable
Transport Fuel
Obligation - fuel
suppliers to ensure
a proportion of fuel
from renewable
origin

Canada

Identification of local SAF feedstocks (Canola, forestry residues, carinata, used cooking oil, poplar, camelina)

Dominican Republic

Use of photovoltaic energy in airports

Japan

Target of replacing 10% of fuel consumption by Japanese airlines with SAF by 2030

United States

SAF grand challenge
- commitment to
increase the
production of SAF to
at least 3 billion
gallons per year by
2030





ICAO CAAF/3 PROCESS AND TIMELINE

28 March 2023
Council Informal Meeting
(Financial Institutions)

15 and 20 June 2023

Council Informal Meetings (Banks/Investors and Energy Companies)

25-26 Sept 2023 (TBC) Pre-CAAF/3 Outcomes

Consultations

13-14 Apr: EUR-NAT

18-19 Apr: ESAF/WACAF

24-25 Apr: NACC/SAM

3-4 May: APAC

7-8 May: MID

April - May 2023 ENV Regional Seminars (5 events)

24 May 2023 Launch of ICAO-EU ACT-SAF Project



11-13 July 2023

Pre-CAAF/3 Stocktaking, and Policy / Finance Consultations



21-24 Nov. 2023

CAAF/3





