



ICAO

ENVIRONMENT



2023 ICAO STOCKTAKING AND PRE-CAAF/3 POLICY AND FINANCE CONSULTATION



11 to 13 July 2023
Montréal, ICAO Headquarters



Neil Dickson
Chief, Environmental Standards
ICAO

ICAO Implementation Support

ICAO implementation support

- ICAO has long history of implementation support in SAF and aviation cleaner energy

2009 - Global Framework for Aviation Alternative Fuels (GFAAF)



2013-2019 ICAO EU: Capacity Building on CO₂ mitigation from international aviation (Phase I)

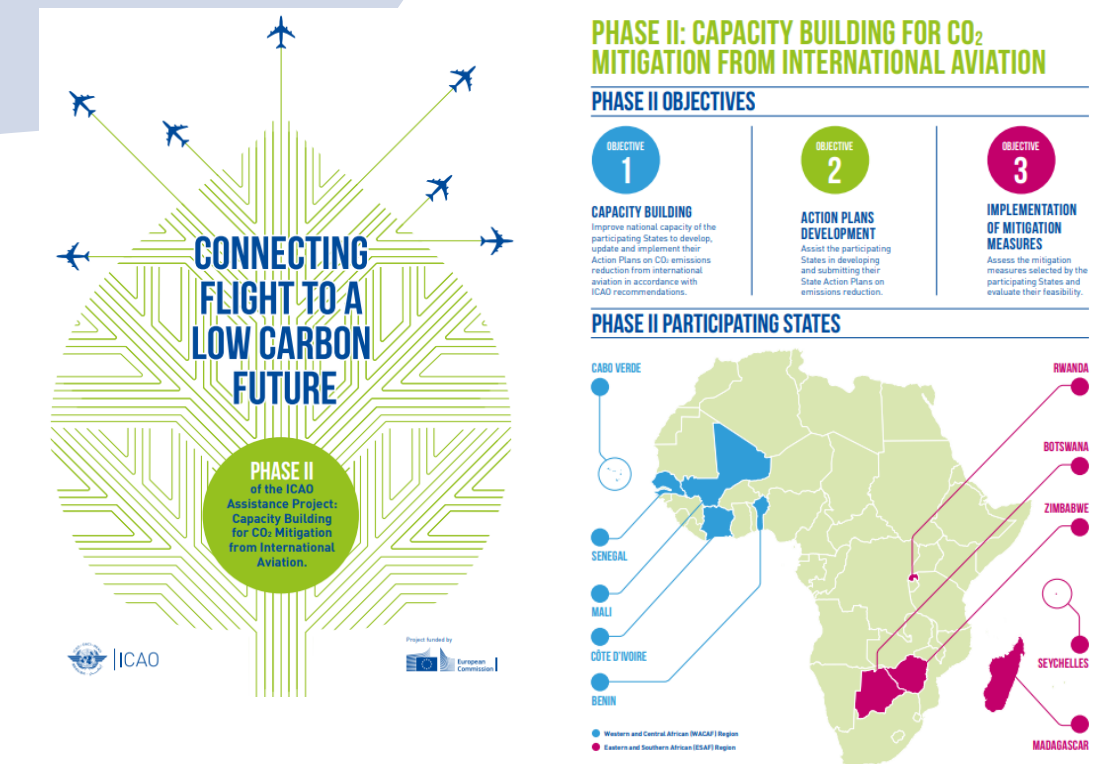


SAF feasibility studies, State Action Plan support, training and seminars, etc.

2015 – ICAO UNDP Project, financed by GEF

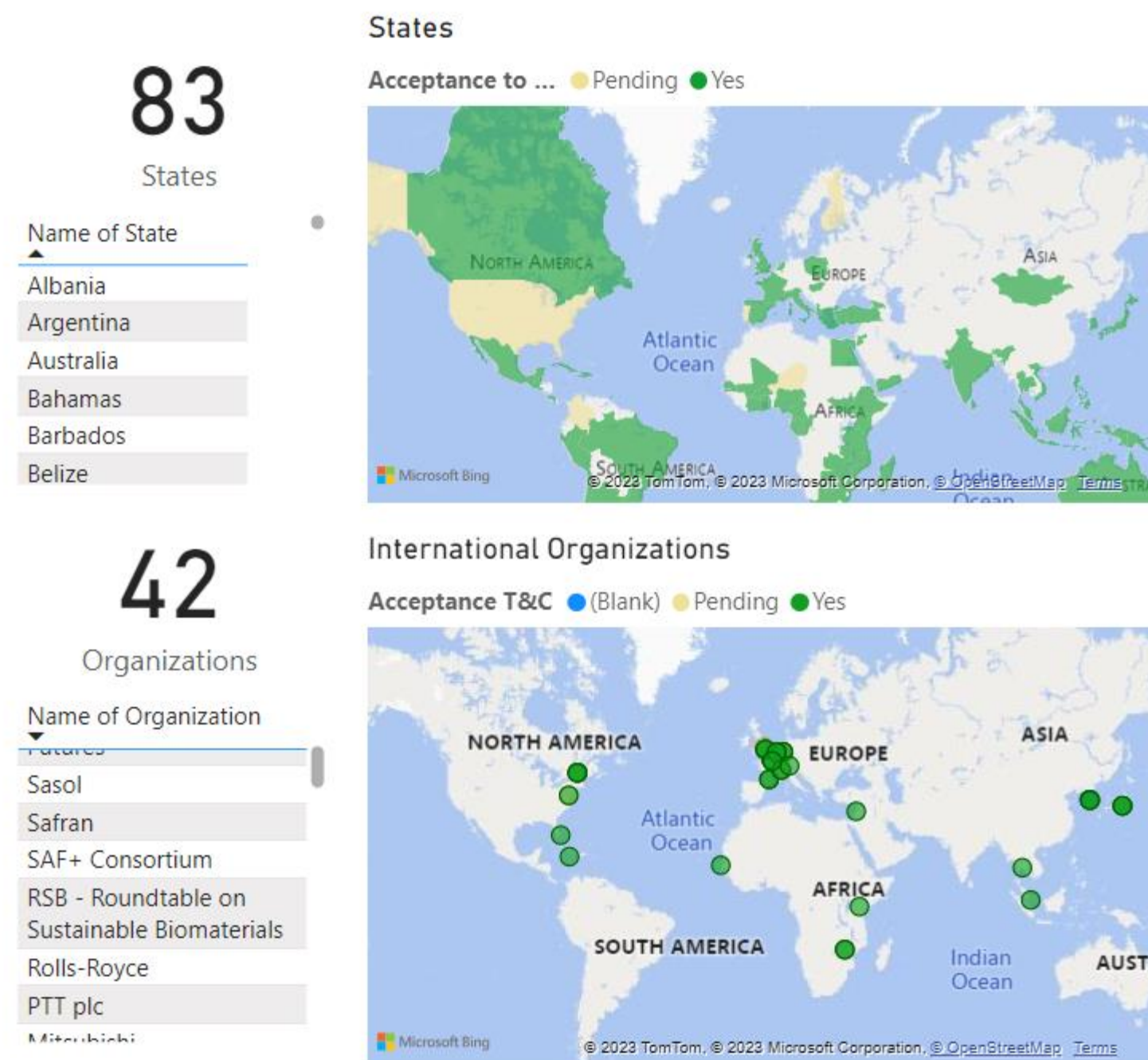


2020 to date – Continued progress under **Phase II of ICAO EU: Capacity Building on CO₂ mitigation from international aviation**





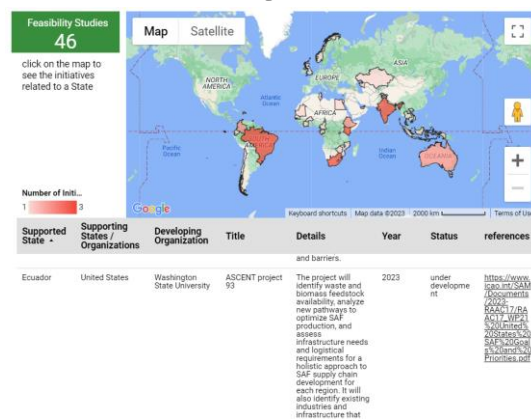
- **ACT-SAF** launched in June 2022, creates opportunities for States to develop their full potential in SAF development and deployment
- In line with ICAO No Country Left Behind, 2050 ICAO Vision for SAF, three main pillars for sustainable development recognized by the United Nations
- Provides **tailored support** for States
 - Facilitate partnerships and cooperation
 - Platform to facilitate knowledge sharing



ACT-SAF dashboard of implementation support initiatives

- Recognizing the many ACT-SAF partners and aviation stakeholders supporting the implementation of cleaner energy for aviation, including SAF

Feasibility Studies



Training and Outreach

Training and Outreach initiatives on aviation cleaner fuels

Supporting States/Orgs...	Title	Year	Details	references
WorldBank	Role of Sustainable Aviation Fuels in Facilitating Air Transport	2022	The report presents decarbonization options for global aviation out to the year 2050. It identifies four key measures including: 1) demand change for air transport; 2) aircraft efficiency improvements; 3) operational changes for airlines; and 4) sustainable aviation fuels (SAFs). The operational changes for airlines include: 1) fuel management (AFM) operations, and ground operations; and 2) flight operations. The operational changes for airports include: 1) airport infrastructure investments, and 2) airport operations.	https://www.worldbank.org/en/publication/new-research/2022/04/role-of-sustainable-aviation-fuels-in-facilitating-air-transport
WTTIC	Sustainable Aviation Fuel: Opportunities and Implications for Tourism Development	2023	This paper provides a basic introduction to Sustainable Aviation Fuel (SAF) and outlines the benefits and implications for the tourism industry, including the opportunities for tourism destinations to diversify their energy sources and enhance local and regional economies.	https://www.wttic.com/~/media/WTTIC/PDF/Sustainable-AViation-Fuel-Opportunities-and-Implications-for-Tourism-Development.pdf
United States	Aceent G3 Project	2023	Project G3 will also develop a network of PhD students studying at each partner university to extend supply chain analysis techniques and tools from the ACEENT G2 and deliver Center to their respective regions.	https://www.aceent-g3.com/
SkyNRG	Sustainable Aviation Fuel Market Outlook	2023	The SkyNRG Sustainable Aviation Fuel Market Outlook covers the current state and trends of the sustainable aviation fuel (SAF) market in the U.S., its positioning announcements of full projects and commercial availability until 2030. The report continues to establish itself as a reference publication and a leading source of market intelligence for the industry.	https://www.sky-nrg.com/reports/sustainable-aviation-fuel-market-outlook-2023
ICAO	ICAO ACAT-MAP Series	2023	Comprehensive research on an array of important CO ₂ -related topics, ranging from sustainability to policy coordination, addressing confliction and cooperation between the industry and governments.	https://www.icao.int/pressroom/2023/04/icao-acat-map-series-launches

Events



Events on Aviation and Cleaner Energies

4 Upcoming Events			
Dates	Event	Venue	Reference
11-13 July 2023	ICAO Stocktaking 2023	Montreal, Canada	https://www.icao.int/Meetings/stocktaking2023/Pages/default.aspx
3-5 July 2023	First AFAC Workshop on Acceleration of Development and Deployment of Sustainable Aviation Fuels (SAFs)	Addis Ababa, Ethiopia	N/A
2-4 October 2023	Sustainable Aviation Futures North America	Houston, USA	https://www.safcongress18.com/
21-24 November 2023	Third ICAO Conference on Aviation and Alternative Fuels (CAAF/3)		https://www.icao.int/Meetings/caaf/Pages/default.aspx

ACT-SAF feasibility studies template and guide

- Ensure coherence across studies, and alignment with ICAO's methodologies and guidance
- Guide complements template through the incorporation of examples of publicly available feasibility studies, and resources of SAF published by ICAO
- Facilitate next steps in SAF development and deployment, including financing



TEMPLATE FOR FEASIBILITY STUDIES
 ON SUSTAINABLE AVIATION FUELS

Version 1.0 (July 2023)

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GUIDE FOR FEASIBILITY STUDIES ON
SUSTAINABLE AVIATION FUELS

Version 1.0 (July 2023)

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ACT-SAF Series and implementation of feasibility studies

- Comprehensive training on SAF-related topics, with support of partner States and Organizations
- Implementation of feasibility studies, commenced in Côte d'Ivoire, Rwanda and Zimbabwe (ICAO-EU Assistance Project)

ACT-SAF Series	Date	Topics	Contributor(s)	Abstract	Video and Presentation
#1	25 November 2022	An introduction to SAF	ICAO	- Introduction to ACT-SAF - Basics of SAF	 Download Presentation
#2	25 January 2023	SAF sustainability and reporting under CORSIA	ISCC RSB Verifavia	- process for sustainability certification of SAF - Reporting and verification of SAF Claims under CORSIA	 Download Presentation
#3	23 February 2023	SAF technology and certification	Airbus US FAA Safran	- specifications for aviation turbine fuels - process for approval for new production pathways	 Download Presentation

Financial contributions to support ACT-SAF activities



Thank You



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