



ICAO SEMINAR ON **GREEN AIRPORTS**

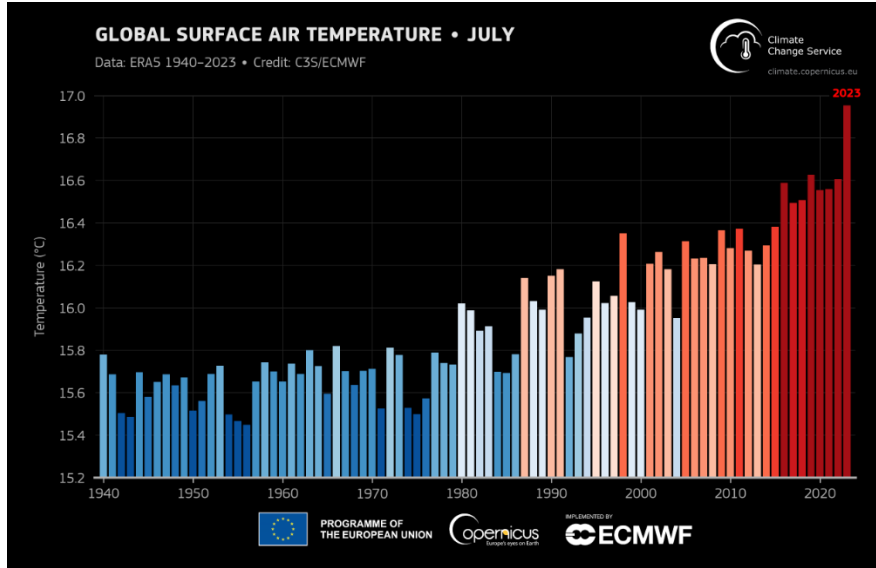
ATHENS, GREECE | APRIL 18-19, 2024



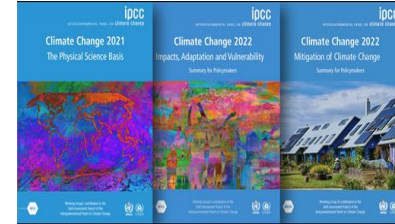


Session 1 : Setting the Scene ICAO work on climate change

Ms. Jane Hupe
Deputy Director, Environment - ICAO



ipcc
INTERGOVERNMENTAL PANEL ON
climate change



AR6 Synthesis Report

Climate Change 2023

Queensland floods: Airport submerged and crocodiles seen after record rain

CLIMATE • EXTREME WEATHER

2023 Was the Hottest Year Ever and 2024 May Be Even Worse



United Nations

UN News

Global perspective Human stories

8 November 2023 | Climate and Environment

2023 is "almost certain to be the warmest year on record" after October smashed temperature highs, while the mercury will keep rising as the warming El Niño effect continues well into next year.





**To address climate change
global ACTION is key**



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2007

2009

2010

2016

2017

2018

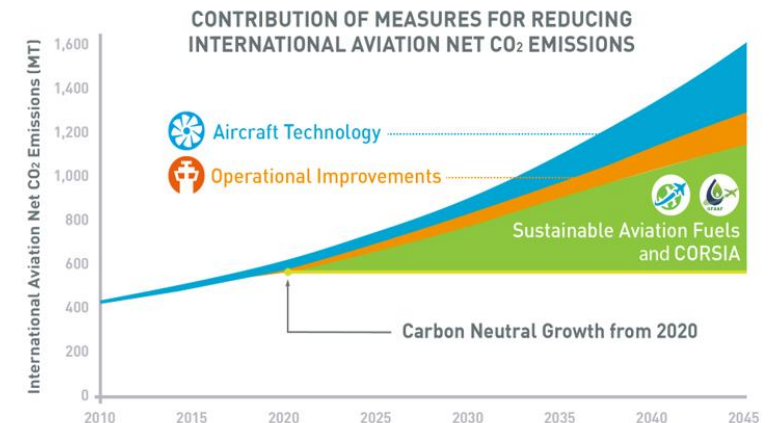
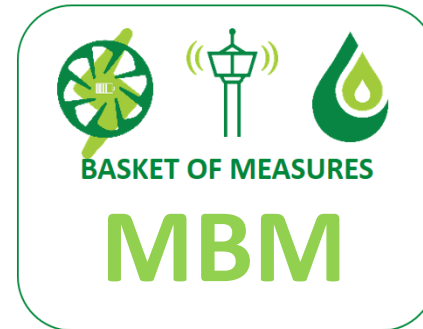
2020

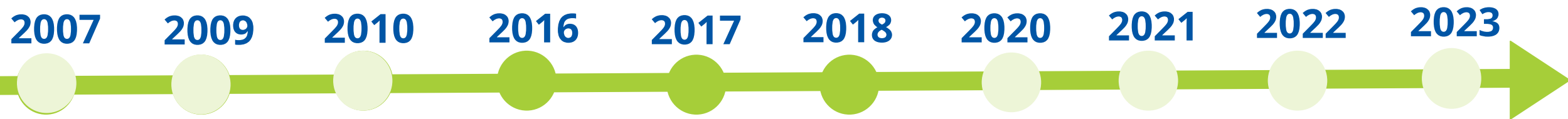
2021

2022

2023

- **2007:** 36th ICAO Assembly
- **2009:** CAAF/1
- **2010:** 37th ICAO Assembly and adoption of two global aspirational goals:
 - 2% annual fuel efficiency improvement
 - Carbon Neutral Growth from 2020





- **2016:** Historic agreement on a global market-based measure: **CORSIA**
- **2017:** Mandatory CO₂ certification standard for aircraft (Annex 16 Volume III)
- **2017:** CAAF/2 and 2050 ICAO Vision for SAF
- **2017:** ICAO Seminar on Green Airports
- **2018:** New Annex 16 Volume IV
- **2018:** ACT-CORSIA with more than 130 States





2007 2009 2010 2016 2017 2018 2020 2021 2022 2023

- 2019: 2nd ICAO Green Airports Seminar
- 2021: Online 3rd ICAO Green Airports Seminar
- 2022: Launch of ICAO ACT SAF Programme
- 2022: Adoption of the LTAG of Net Zero carbon emissions by 2050
- 2023: CAAF/3 and the adoption of the ICAO Global Framework for SAF, LCAF, and other aviation cleaner energies



CAAF/3



represents a

NEW BEGINNING

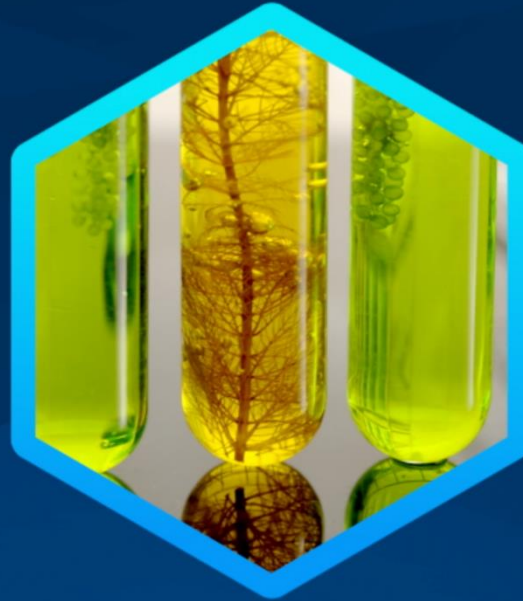


ICAO Global Framework for SAF, LCAF and other Aviation Cleaner Energies

**Collective
Vision**



**Regulatory
Foundation**



**Implementation
Initiatives**



**Facilitate
Financing**



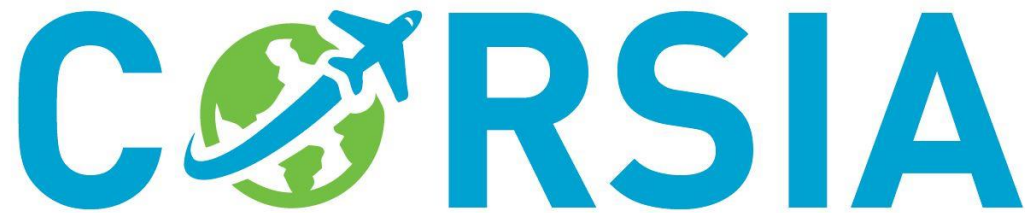
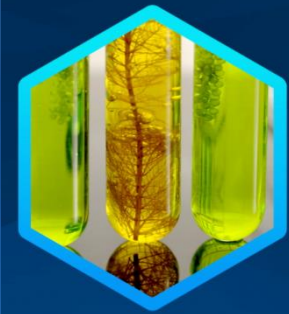


**Collective global aspirational Vision
to reduce CO2 emissions in international aviation by
5 % by 2030, through aviation cleaner energy use**



**Monitoring and periodic review : Aspiring to have
cleaner energy production facilities in all regions.**

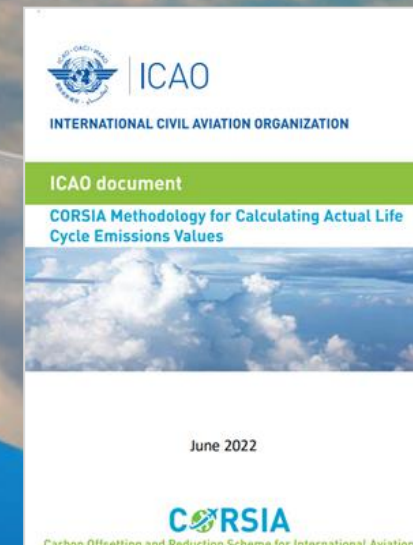
**CAAF/4 to be convened no later than 2028, for updating
the ambition on the basis of market developments.**



126 States voluntarily participate in the scheme from its first phase in 2024.

CORSIA sustainability criteria, sustainability certification, and life-cycle assessment methodology for SAF and LCAF, as the accepted basis for the eligibility of aviation cleaner energies

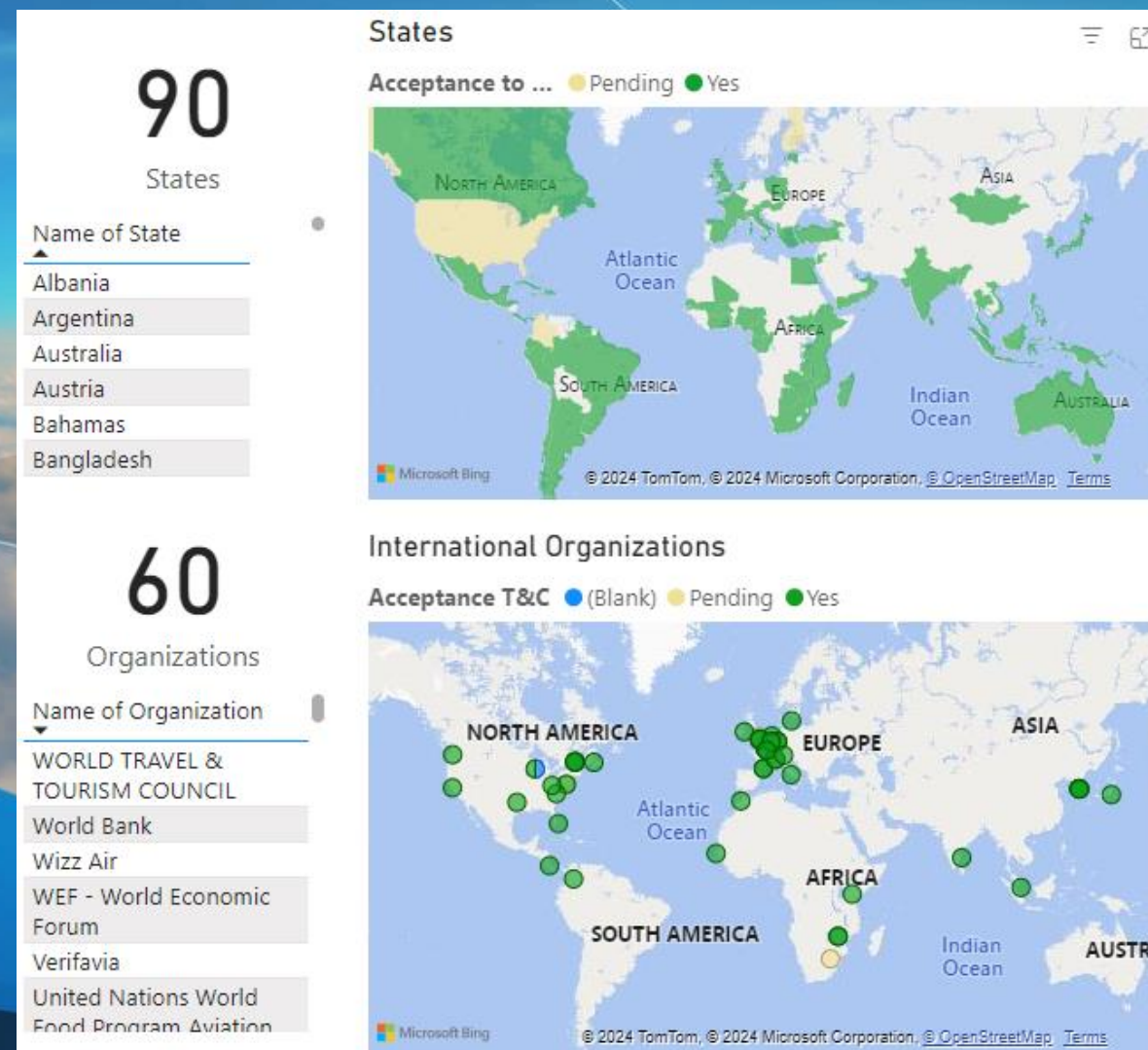
- Parameters for fuel accounting & reporting methodologies
- Study on fuel accounting systems / possible ICAO role





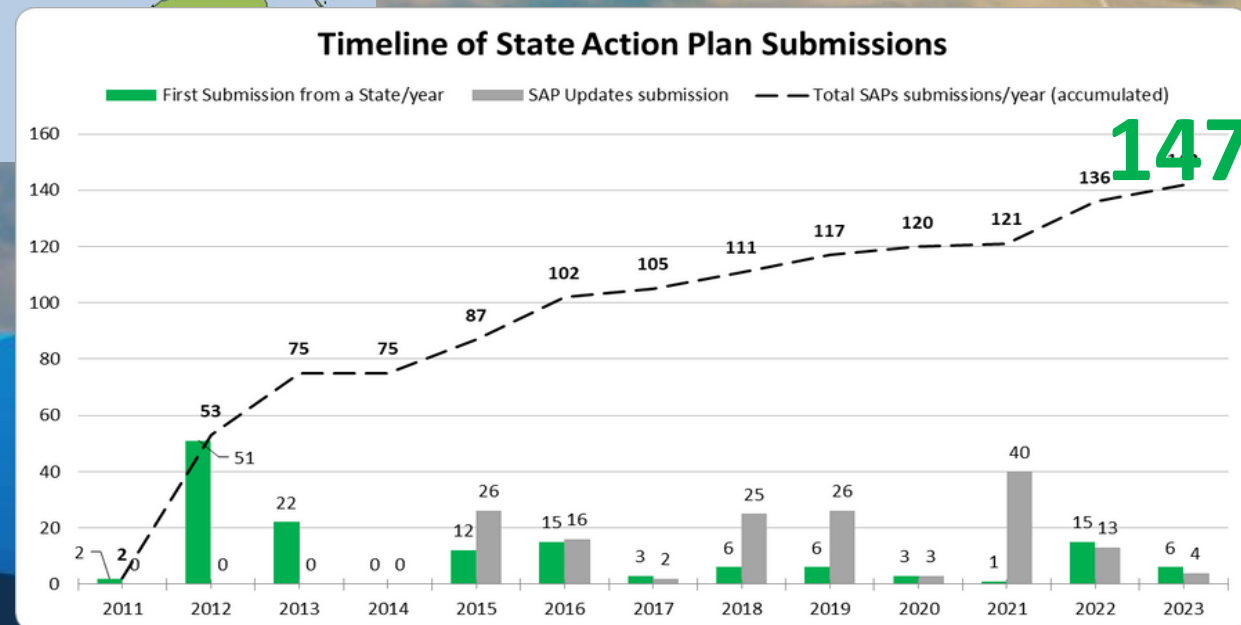
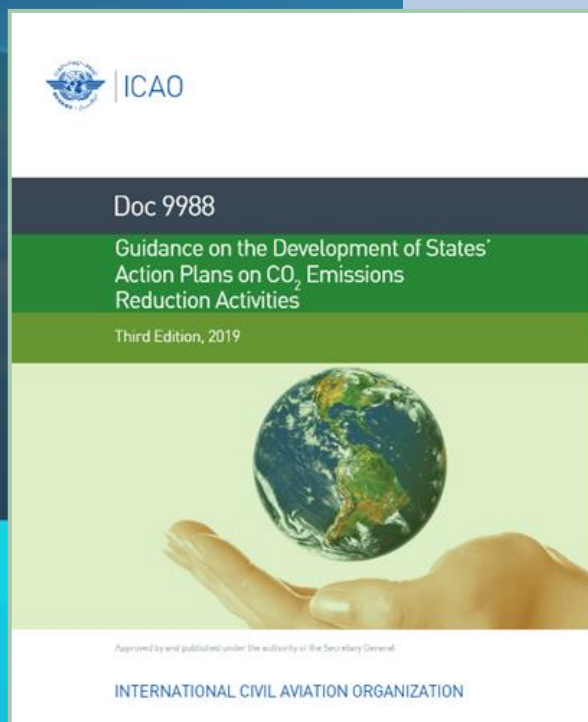
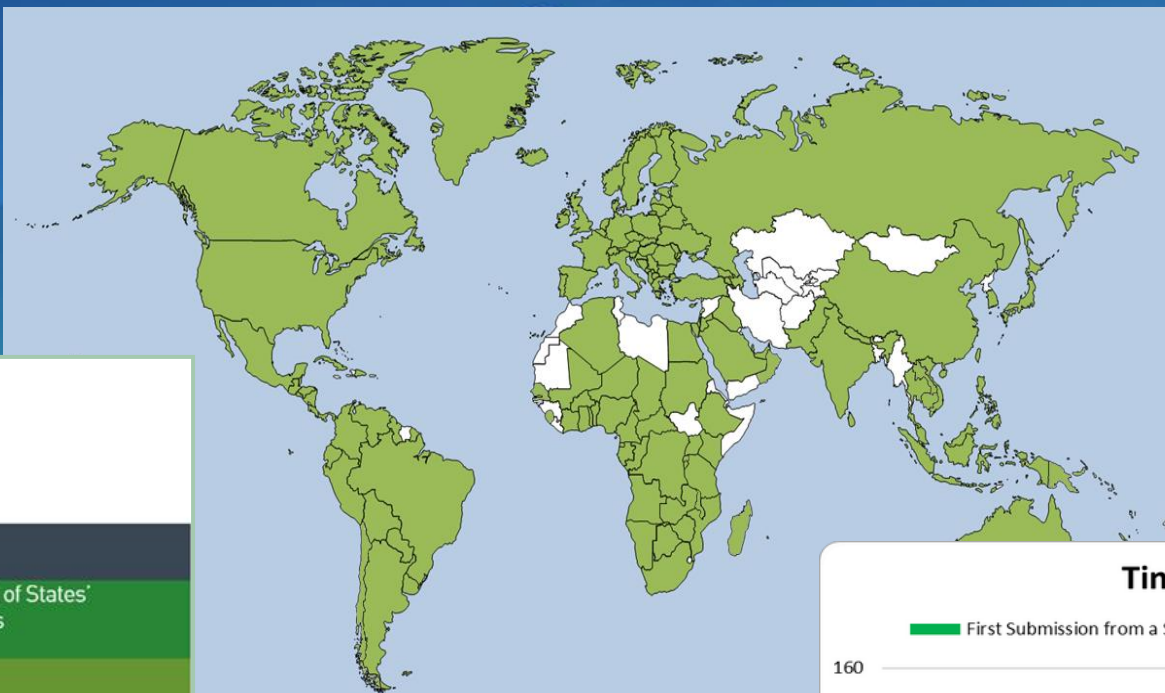
ACT»SAF

- ACT-SAF Platform
- ACT-SAF Training Series
- ACT-SAF Template & Guide for Feasibility Studies
- Around 20 additional ICAO Feasibility Studies to be launched in the coming years





ICAO STATE ACTIONS PLANS (SAPs)





Financing aviation emissions reductions

- Operationalization of ICAO Fininvest Hub initiative
- Expedite work to consider the establishment of a climate finance initiative or funding mechanism under ICAO



ICAO

**Aviation Energy Transition in ON !
Welcome on board**

CLIMATE CHANGE ADAPTATION

Global risks ranked by severity over the short and long term

Please estimate the likely impact (severity) of the following risks over a 2-year and 10-year period

2 years

1	Cost-of-living crisis
2	Natural disasters and extreme weather events
3	Geoeconomic confrontation
4	Failure to mitigate climate change
5	Erosion of social cohesion and societal polarization
6	Large-scale environmental damage incidents
7	Failure of climate change adaptation
8	Widespread cybercrime and cyber insecurity
9	Natural resource crises
10	Large-scale involuntary migration

10 years

1	Failure to mitigate climate change
2	Failure of climate-change adaptation
3	Natural disasters and extreme weather events
4	Biodiversity loss and ecosystem collapse
5	Large-scale involuntary migration
6	Natural resource crises
7	Erosion of social cohesion and societal polarization
8	Widespread cybercrime and cyber insecurity
9	Geoeconomic confrontation
10	Large-scale environmental damage incidents

Risk categories | Economic | Environmental | Geopolitical | Societal | Technological



USE OF PLASTICS IN AVIATION





DAY 1

Session 1: Setting the Scene – ICAO work on climate change

Session 2: Key Drivers for Innovation – Sustainability

Session 3: Emerging Environmental Topics

Part 1: Addressing Plastic Usage Challenges in Aviation

Part 2: Navigating Emerging Environmental Topics at Airports

Session 4: Taking Flight Towards Climate Resilience: Building Adaptation Strategies for Airports

DAY 2

Session 5: Transition to Cleaner Energy Sources and Sustainable Infrastructure

Session 6: Era of Sustainable Aviation Fuels (SAF), Lower Carbon Aviation Fuels (LCAF) and Other Aviation Cleaner Energies

Session 7: Financing Future Energy Hubs

Session 8: Building Partnerships for a Sustainable Future

Thank You

