





Environmental Protection: 41st ICAO Assembly ENV Resolutions

ICAO/ SASO ENV Workshop

Eswatini, Mbabane (24-27 Oct 2023)

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Agenda



- 1. Overview
- A41-20:General provisions, Noise and Local Air Quality
- 3. A41-21:Climate Change
- 4. A41-22: CORSIA
- 5. Conclusion



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Overview



Three (3) Resolutions on environmental protection from the 41st Session of the ICAO Assembly:

 A41-20: Consolidated statement of continuing ICAO policies and practices related to environmental protection- General provisions, noise and local air quality

 A41-21: Consolidated statement of continuing ICAO policies and practices related to environmental protection- Climate change

 A41-22: Consolidated statement of continuing ICAO policies and practices related to environmental protection- Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)









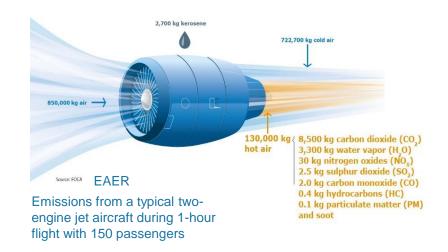
A41-20: General provisions, Noise and Local Air Quality



A41-20:General provisions, 7 noise and local air quality

Adverse environmental effects of civil aviation

- Reduced by the application of comprehensive measures e.g.
 - —Use of clean, renewable and sustainable energy sources
 - —Land-use planning and management
 - —Technological improvements
 - -More efficient Air Traffic Management (ATM)
 - -Community engagement etc.



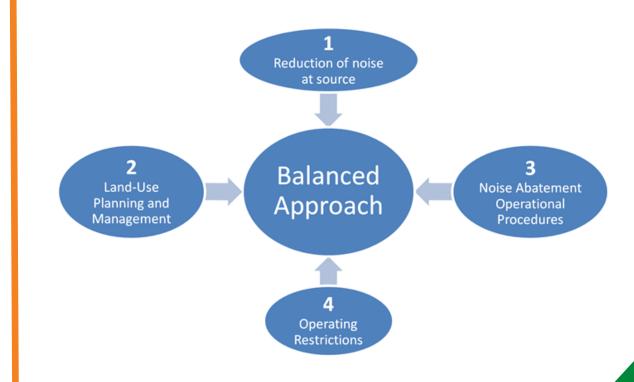


Reliable and best available information on the environmental effects of aviation is essential for the development of policy by ICAO and also by States

A41-20:General provisions, noise and local air quality

Objectives:

- Limit or reduce the number of people affected by significant aircraft noise;
- Limit or reduce the impact of aviation emissions on Local Air Quality (LAQ);
- Limit or reduce the impact of aviation greenhouse gas emissions on the global climate; and
- Ensure future resilience of air transport by adapting its infrastructure and operations to the consequences of climate change





A41-20:General provisions, noise and local air quality

What does this mean for the Continent, States and the Industry?

- States to consider adoption of:
 - the 'balanced approach to noise management' (ICAO Doc 9829); and
 - the community engagement principles in ICAO Circular 351
- Phase-out of subsonic jet aircraft which exceed the noise levels in Annex 16 Vol I:
 - States not to introduce any phase-outs of aircraft which exceed the noise levels in Chapter 3 of Annex 16 Vol I before considering a number of factors







A41-21:Climate Change

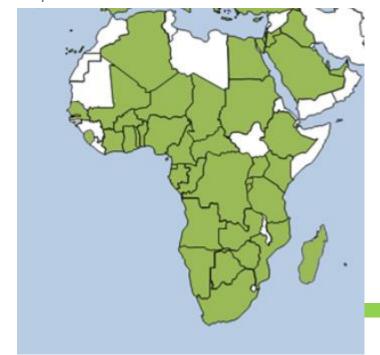


Limiting or reducing emissions that contribute to global climate change:

- ICAO's work on the environment contributes to 14 of the 17 UN Sustainable Development Goals (SDGs)
- Submission and update of voluntary State
 Action Plans to ICAO
 - On reduction of emissions from international aviation
 - Outlining respective polices, actions and roadmaps, including long term projections
 - States developing/ updating SAPs to submit to ICAO by the **end of June 2024**.
 - Once every 3 years thereafter

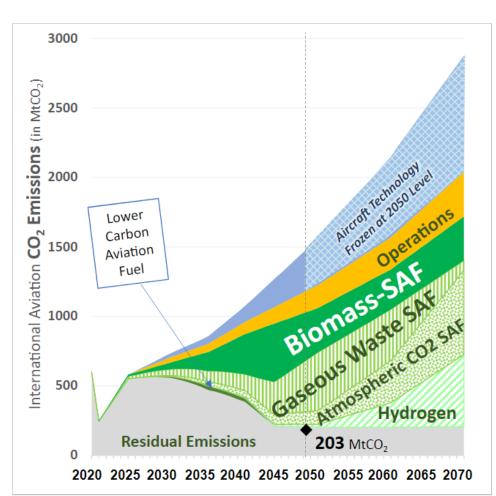
UN SDG 13: 'Take urgent action to combat climate change and its impact'

Map of State Action Plans Submitted to ICAO









Goals

- aspirational global fuel efficiency improvement rate of 2% per annum from 2021-2050
- Long-Term Aspirational Goal (LTAG) for international aviation
 - Net-zero carbon emissions by 2050
 - In support of the Paris Agreement's temperature goal
- Information from SAPs can be used to monitor progress towards the achievement of the LTAG



What does this mean for the Continent, States and the Industry?

LTAG

- Does not attribute specific obligations or commitments
 - E.g. in the form of emission reduction goals to individual States
- States to contribute to achieving LTAG:
 - In accordance with national circumstances
 - Within their own national timeframe
- each State's special circumstances and respective capabilities will inform the State's contribution to LTAG e.g.
 - Maturity of aviation markets
 - National priorities for air transport development etc.



Sustainable Aviation Fuels (SAFs) play a pivotal role



ICAC

Role Sustainable Aviation Fuels (SAFs) towards LTAG

SAF

 renewable or waste-derived aviation fuels that meets sustainability criteria in Annex 16 Vol IV

CORSIA

- specific methodologies that allow aircraft operators to reduce their offsetting requirements through the use of SAF and Lower Carbon Aviation Fuels (LCAF),
 - including globally-accepted sustainability criteria and life cycle methodologies



Guidance on potential policies and coordinated approaches for the deployment of SAF (2022)

What does this mean for the Continent, States and the Industry?

SAPs

- All States are invited to submit SAPs containing quantified information to ICAO;
- States encouraged to support each other through SAP Buddy Partnerships.

Role of Sustainable Aviation Fuels (SAFs) in achieving the LTAG

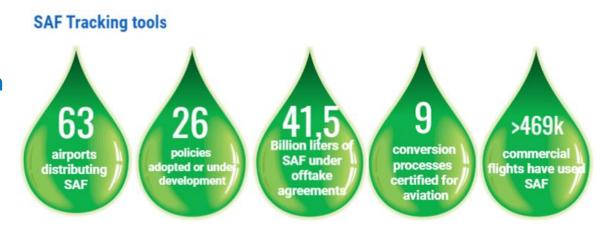
- States and Industry partners are encouraged to consider becoming ICAO
 ACT SAF Partners;
- Transition towards SAF will require significant investments (public & private) across all Regions;
 - ICAO currently connecting with financial institutions across all Regions
- Aeroplane Operators- CORSIA Monitoring, Reporting and Verification (MRV)
 –provides useful information on SAF/LCAF monitoring.



Role of Sustainable Aviation Fuels (SAFs) in achieving LTAG

- Sustainable Aviation Fuels (SAF) development and deployment
 - is particularly important;
 - drop-in fuels have the largest potential to reduce the overall emission from international aviation by 2050;
 - according to the ICAO Report on the feasibility of a LTAG for international civil aviation CO₂ emission reductions

Illustration: Airport distributing SAF and airports in on-going alternative fuel purchase agreements









A41-22: CORSIA



CORSIA Offsetting requirements

The State will calculate the AO's amount of $\overrightarrow{CO_2}$ emissions required to be offset in a given year from 01 Jan 2021-31 Dec 2032 prior to consideration of CORSIA eligible fuels, as follows:

$$OR_y = OE \times SGF_y$$

Sector's Growth Factor (SGF):

$$SGF = \frac{(SE_y - SE_{B,y})}{SE_y}$$



The State will calculate the AO's amount of CO₂ emissions required to be offset in a given year (y) from 01 Jan 2033 -31 Dec 2035 prior to the consideration of CORSIA eligible fuels, every year as follows:

$$OR_y = \%S_y * (OE_y \times SGF_y) + \%O_y * (OE_y \times OGF_y)$$

First CORSIA periodic review in 2022 during A41

1. CORSIA Baseline (Paragraph 11)

Baseline **for** the Pilot Phase (Paragraph 11)

-2019 emissions

CORSIA Baseline after the Pilot Phase (2024-2035)

- -85% of 2019 emissions
- 2. Offsetting Requirements: % Sectoral/ Individual

(Paragraph 11)

- -For 2030-2032
 - 100% sectoral growth
 - (Previously included at least 20% individual)

For 2033-2035

- 85% sectoral growth/ 15% individual growth
- No longer 30% sectoral and 70% Individual

3. New entrants: (Paragraph 12)

- Now 0.1% of 2019 emissions for all CORSIA Phases
 - Extended beyond the Pilot Phase until 2035

What does this mean for the Continent, States and the Industry?

- AOs to continue with the CORSIA MRV in accordance with the timelines in A16 Vol IV;
- AOs and States to note and consider the A41 CORSIA review when calculating CORSIA Offsetting requirements;
- States to take necessary actions to ensure that national policies and regulatory frameworks are established for the enforcement of the CORSIA (Annex 16 Vol IV); and
- Establishment of partnerships among States (ICAO ACT-CORSIA Programme).





Thank You