

ICAO Side Event:

Briefing on Aviation contributions to Sustainable

Development And Climate Change

Tetsuya Tanaka

Chief Climate Change ICAO Secretariat



HLPF - ICAO SIDE EVENT

PROGRAME

MODERATOR: Tetsuya Tanaka – Chief Climate Change, ICAO Secretariat

- 1. Tetsuya Tanaka Chief Climate Change, ICAO Secretariat

 Recent developments and future actions by the ICAO and its Member States in addressing emissions from international aviation.
- 2. Anne Bondiou-Clergerie, Director R&D Affairs, Space and Environment, French Aerospace Industries Association

 Present and future aircraft technologies to reduce CO₂ emission.
- 3. Mavis Chung Yi Fang, Alternate Representative, Permanent Mission of Singapore to the International Civil Aviation Organization

 Present and future technologies on green airports and infrastructure.
- 4. Christoph Wolff, Head of Mobility Industries and System Initiative, Member of the Executive Committee, World Economic Forum

 Sustainable aviation fuels and renewable energy sources.
- 5. Gilles Bourgeois, Chief Environmental Protection and Standards, Transport Canada

 CORSIA implementation and contributions to ICAO Assistance, Capacity Building and Training on CORSIA (ACT-CORSIA) initiative.
- Larissa Pamela Dianga Nzengue, Head of the Environmental Protection Department, Gabon National Civil Aviation Agency

 The key role of ICAO capacity building and pilot projects for aviation.



ICAO - OVERVIEW

Established by the "Chicago Convention" in 1944

UN specialized agency





Minimize the adverse effect of global civil aviation on the environment:

- limit or reduce the number of people affected by significant aircraft noise;
- limit or reduce the impact of aviation emissions on local air quality; and
- limit or reduce the impact of aviation greenhouse gas emissions on the global climate.

ICAO's environmental work contributes to 14 out of the 17 United Nations SDGs





















ICAO POLICY, STANDARDS, GUIDANCE

ICAO Policy



Chicago Convention
ICAO Assembly Resolutions
A39-1, A39-2 and A39-3:
Consolidated statement of
continuing ICAO policies and
practices related to
environmental protection

ICAO Standards and Recommended Practices (SARPs)



Annex 16 - Environmental
Protection:

Volume I, Aircraft Noise

Volume II, Aircraft Engine Emissions

Volume III, Aeroplane CO₂ Emissions

Volume IV, CORSIA NEW

ICAO Guidance



Various guidance on noise, LAQ and climate change, e.g.:

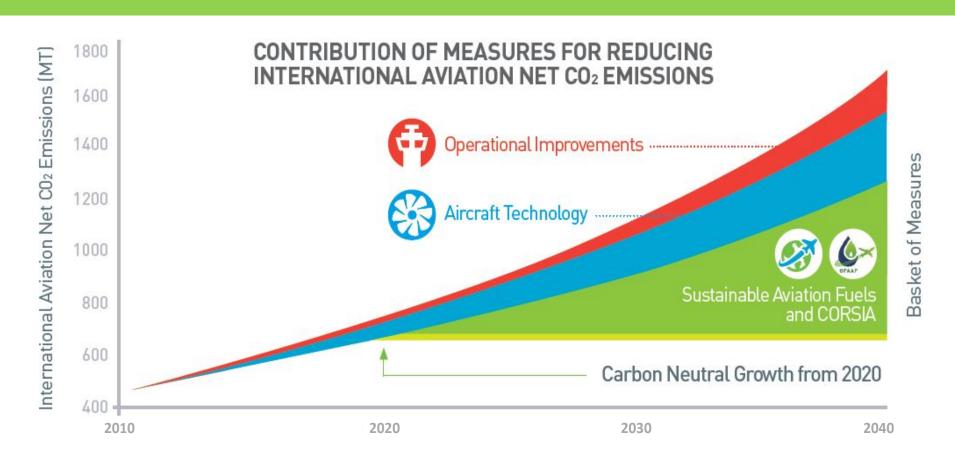
Environmental Assessment of Proposed ATM Operational Changes (Doc 10031)

Environmental Technical Manual Volume IV (Doc 9501) **NEW**



UNITING AVIATION ICAO GLOBAL ASPIRATIONAL GOALS

- → 2% annual fuel efficiency improvement
- → Carbon Neutral Growth from 2020 onwards (CNG2020)

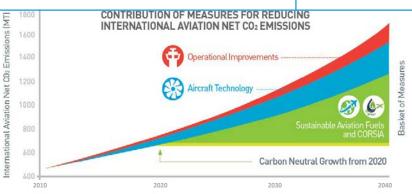




ICAO UNITING AVIATION

ICAO BASKET OF CO₂ MITIGATION MEASURES

Aircraft technology	First-ever global CO ₂ certification Standard for new types and in-production aeroplanes	
Operational improvements	CO ₂ benefits from air traffic management; air navigation; green airports; etc.	
Sustainable aviation fuels	>180,000 commercial flights with drop-in aviation fuels; 6 conversion processes; 7 airports distributing drop-in aviation fuels	GFAAF
Global market- based measure	Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)	



SUSTAINABLE AVIATION FUELS (SAF)

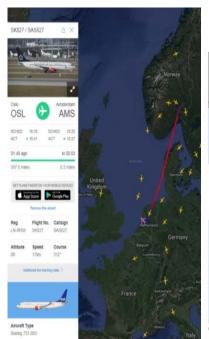
→ ICAO facilitates the development and deployment of SAF

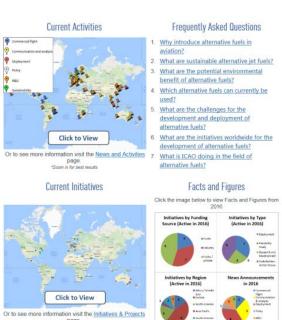
- Sharing information and best practices, through ICAO
 Global Framework for Aviation Alternative Fuels (GFAAF)
- Development of sustainability criteria and quantification of life-cycle environmental benefits





Global Framework for Aviation Alternative Fuels



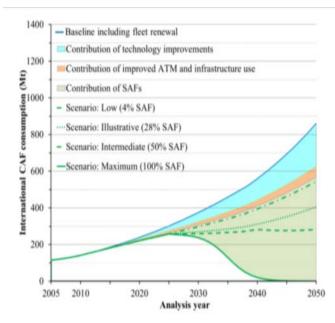


2050 ICAO VISION ON AVIATION FUELS

ICAO Conference on Aviation Alternative Fuels in Mexico City (CAAF/2)
 (11 to 13 October 2017) - https://www.icao.int/Meetings/CAAF2/



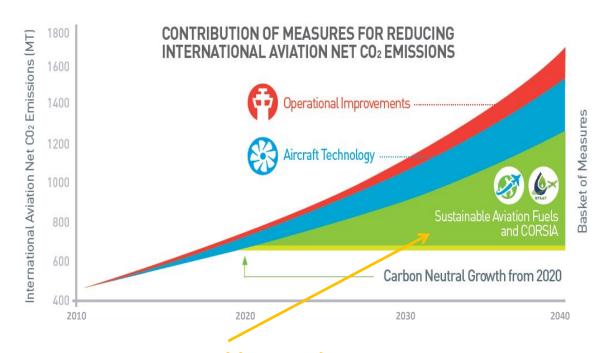
- Endorsement of the 2050 ICAO Vision for Sustainable Aviation Fuels, which called for a significant proportion of SAF use by 2050
- A quantified 2050 ICAO Vision to be defined at CAAF/3 (by 2025), and ICAO Stocktaking process will support the quantification of this vision





Adopted through Assembly Resolution 39-3 and is the first global MBM scheme for any industry sector

To achieve carbon neutral growth from 2020 (CNG 2020),
 CORSIA is one complementary element in the basket of measures



CORSIA addresses the remaining "emissions gap" to achieve CNG2020



ACHIEVEMENTS SINCE A39 FOR CORSIA IMPLEMENTATION

- → Adoption of Annex 16, Volume IV, and Environment Technical Manual, Volume IV
- **→** Progress on CORSIA Implementation Elements
 - ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT)
 - CORSIA Central Registry (CCR)
 - CORSIA Eligible Fuels
 - CORSIA Eligible Emissions Units
- → CORSIA Outreach and Capacity Building
 - ICAO Regional/HQ Seminars
 - Outreach Materials (Videos, Brochure/Leaflets, FAQs...)
 - ACT-CORSIA Buddy Partnerships







UNITING AVIATION

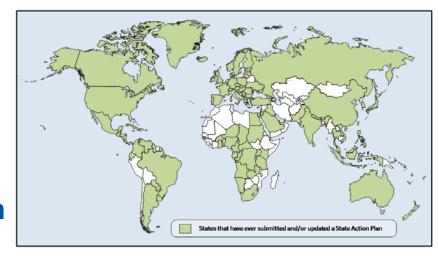
ICAO ASSISTANCE, CAPACITY-BUILDING AND TRAINING ON CORSIA (ACT-CORSIA)



- Donor States provides assistance to recipient States to build their national capacity to implement CORSIA
- Assistance in the form of donor State offering expert(s) on CORSIA to provide individual training and necessary follow-up with the CORSIA focal points of the recipient States, in close coordination with the ICAO Secretariat
- Involving 15 donor States and 98 recipient States (as of June 2019)

Communication Tool between ICAO and States

- → 114 States with more than 93% of international aviation activity voluntary submitted action plans
- → Assembly encouraged States to submit complete and robust data in their action plans

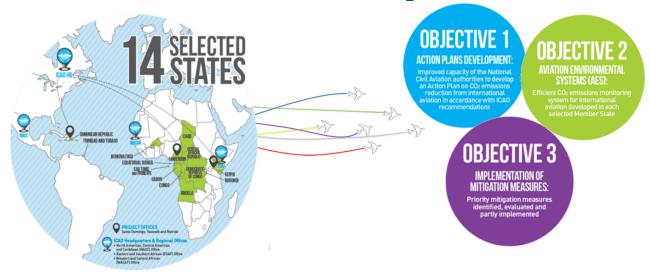


→ Guidance and assistance for States to develop and update their action plans (such as guidance material, tools, regional seminars, capacity building projects).



ICAO CAPACITY BUILDING, ASSISTANCE, AND PARTNERSHIPS

→ ICAO-EU project, Capacity Building for CO₂ Mitigation from International Aviation



- → ICAO-UNDP project, Transforming the Global Aviation Sector: Emission Reduction from International Aviation
 - Development of guidance documents on Biofuels, Renewable Energy,
 Governance, and Financing of Clean Energy projects
 - Implementation of a pilot project on renewable energy (solar-at-gate) at two international airports in Jamaica.

HLPF - ICAO SIDE EVENT

PROGRAME

MODERATOR: Tetsuya Tanaka – Chief Climate Change, ICAO Secretariat

- 1. Tetsuya Tanaka Chief Climate Change, ICAO Secretariat

 Recent developments and future actions by the ICAO and its Member States in addressing emissions from international aviation.
- 2. Anne Bondiou-Clergerie, Director R&D Affairs, Space and Environment, French Aerospace Industries Association

 Present and future aircraft technologies to reduce CO₂ emission.
- 3. Mavis Chung Yi Fang, Alternate Representative, Permanent Mission of Singapore to the International Civil Aviation Organization

 Present and future technologies on green airports and infrastructure.
- 4. Christoph Wolff, Head of Mobility Industries and System Initiative, Member of the Executive Committee, World Economic Forum Sustainable aviation fuels and renewable energy sources.
- 5. Gilles Bourgeois, Chief Environmental Protection and Standards, Transport Canada

 CORSIA implementation and contributions to ICAO Assistance, Capacity Building and Training on CORSIA (ACT-CORSIA) initiative.
- 6. Larissa Pamela Dianga Nzengue, Head of the Environmental Protection Department, Gabon National Civil Aviation Agency

 The key role of ICAO capacity building and pilot projects for aviation.



ICAO UNITING AVIATION ICAO AT 2019 UN CLIMATE SUMMIT

ICAO plans to launch Global Coalition For Sustainable Aviation (GC4SA) at 2019 UN Climate Summit to advance environmental innovation for the aviation sector



