Highlights on the recent actions and decisions taken by the ICAO to address emissions from international aviation

Opening presentation

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ICAO environmental goals

Established by the “Chicago Convention” in 1944
UN specialized agency
191 Contracting States
Standards, policies & guidance on environmental protection since 1960’s

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.

Climate change adaptation and resilience

ICAO's environmental work contributes to 14 out of the 17 United Nations SDGs
ICAO Policies, SARPs and Guidance

**ICAO Policies**
- 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**
- Annex 16 - Environmental Protection:
  - Volume I, Aircraft Noise
  - Volume II, Aircraft Engine Emissions
  - Volume III, Aeroplane CO₂ Emissions - New
  - Volume IV, CORSIA - Under Development

**ICAO Guidance**
- Various guidance on noise, LAQ and climate change, e.g.:
  - Airport Air Quality Manual (Doc 9889)
  - Environmental Assessment of Proposed ATM Operational Changes (Doc 10031)
ICAO global aspirational goals

- 2% annual fuel efficiency improvement
- Carbon neutral growth from 2020 onwards

ICAO Member States' Action Plans

Communication Tool between ICAO and States

- **104 States** with more than 90% 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, e.g.:
  - ICAO Doc 9988: Guidance on the development of States’ Action Plans
  - ICAO tools, including: ICAO Carbon Emissions Calculator, ICAO Fuel Savings Estimation Tool (IFSET), ICAO Environmental Benefits Tool (EBT)
  - More than 22 ICAO seminars since 2013 – 1171 experts from 132 States trained
  - 2 capacity-building and assistance projects, 5 buddy partnerships
ICAO basket of measures

- Aircraft technology
- Operational improvements
- Sustainable aviation fuels
- Global market-based measure

- First-ever global CO₂ certification Standard for new types and in-production aeroplanes
- Environmental benefits from Aviation System Block Upgrade (ASBU) Strategy; Update to Doc 9184, Airport Planning Manual
- More than 40,000 commercial flights with sustainable drop-in alternative fuels; 5 certification pathways; four bio-jet hub airports
- Carbon Offsetting and Reduction Scheme for International Aviation

CORSIA addresses the remaining “emissions gap” to achieve CNG2020
Development and deployment of sustainable aviation fuels

ICAO Conference on Alternative Fuels in Mexico City (11 to 13 October 2017)

- The Conference endorsed the 2050 ICAO Vision for Sustainable Aviation Fuels, which called for a significant proportion of conventional aviation fuels (CAF) to be substituted with sustainable aviation fuels (SAF) by 2050.

- This vision is intended as a living inspirational path that will be periodically reviewed through a stocktaking process to continuously assess progress on the SAF development and deployment.

- CAAF/3 will be held no later than 2025, with a view to updating the 2050 ICAO vision to include a quantified proportion of CAF to be substituted with SAF by 2050.
CORSIA is the first global market-based measure scheme for any industry sector.

One element in the basket of measures to achieve ICAO’s global aspirational goal of carbon neutral growth from 2020 (CNG 2020).

Complementary measure to a broader package in the basket of measures:
- aircraft technology
- operational improvements
- sustainable aviation fuels

CORSIA addresses the remaining “emissions gap” to achieve CNG2020.
Video - CORSIA implementation
For more information, please visit our website:
http://www.icao.int/env

Thank you!