

ICAO Global Aviation Partnerships on Emissions Reductions (E-GAP)

Session 1: Partnerships to advance the Scientific Understanding of Aviation and Climate Change

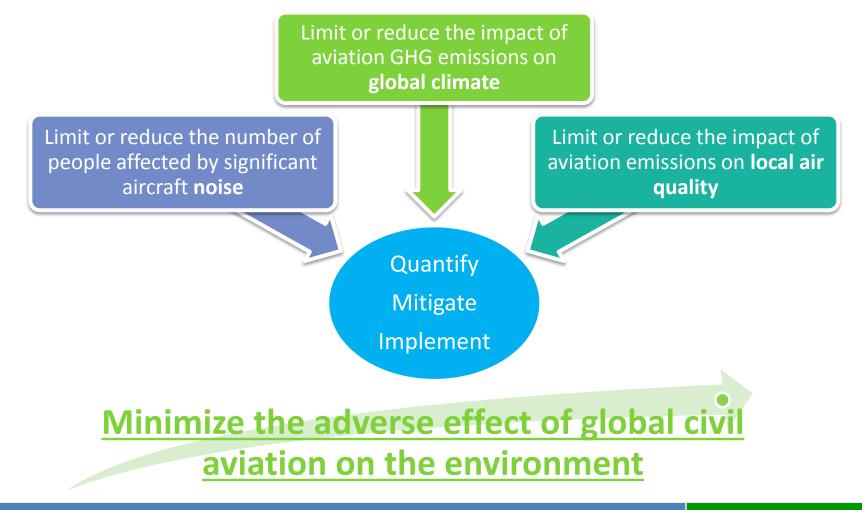
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Deputy Director, Environment, ICAO





ICAO's Environmental Goals



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ICAO's Environmental Work - 3 Pillar Approach

Approach to <u>Quantification</u> through:

- Data Collection and Compilation (RTK, Fuels and Emissions Reduction)
- Forecasting
- Modelling

Identification of <u>Mitigation</u> <u>Measures</u> through:

- Aircraft Technology
- Operational Improvements
- Sustainable Alternative Fuels
- Market-based Measures

BASKET OF MEASURES

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Approach to <u>Implementation</u> through:

- States' action plans and Assistance to States
- Global action to implement measures to reduce CO₂



ICAO Policy, SARPs and Guidance

ICAO Policy



ICAO Assembly Resolution A38-18:

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



Annex 16 - Environmental Protection Volume I, Aircraft Noise Volume II, Aircraft Engine Emissions Volume III, Aeroplane CO₂ Emissions (under development)

Guidance



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

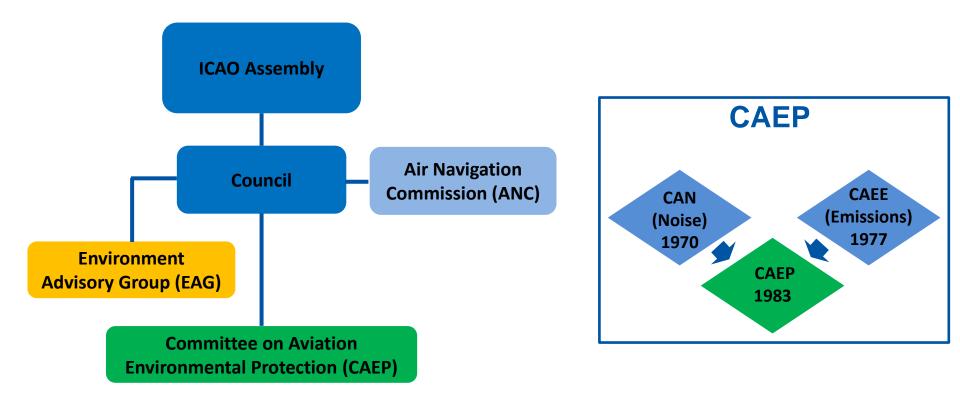
Airport Air Quality Manual (Doc 9889)

Environmental Assessment of Proposed ATM Operational Changes (Doc 10031)





ICAO's Environment Governance





UNITING AVIATION

Committee on Aviation Environmental Protection (CAEP)

• 22 members and 16 observers.

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• 600 international experts involved.

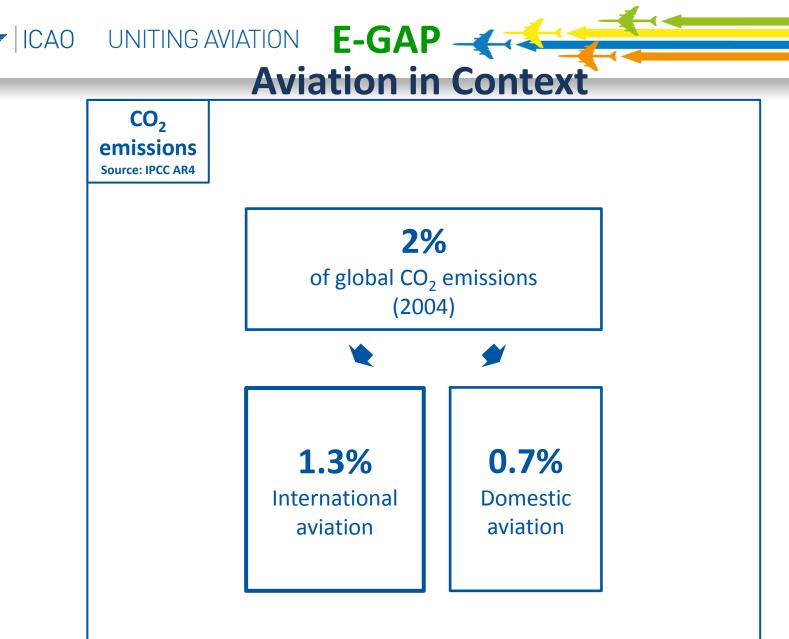
Members (23 States)

E-GAP 🔫

Australia	Brazil
China	Egypt
Germany	India
Japan	Netherlands
Russian Federation	Singapore
Spain	Sweden
United Kingdom	Ukraine
Observers (6 States and 10 Organisations)	
Indonesia	Norway
Turkey	United Arab Emirates
ACI	CANSO
IATA	IBAC
IATA ICSA	IBAC IFALPA
	Australia China Germany Japan Russian Federation Spain United Kingdom and 10 Organisations) Indonesia Turkey

ICAO Global Aviation Partnerships on Emissions Reductions (E-GAP) Seminar ICAO Headquarters, Montréal, 16 to 17 September 2015

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Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report (AR5), 2013-2014

- "Warming of the climate system is unequivocal"
- "Human influence on the climate system is clear"
- "It is *extremely likely* that human influence has been the dominant cause of the observed warming since the mid-20th century"



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CAEP Impacts and Science Group (ISG)

- CAEP Aviation Environmental Impacts Seminar in Feb 2015
- 4 White Papers under development by CAEP/10 in Feb 2016
 - Aviation and Climate
 - Climate Impacts on Aviation (Adaptation)
 - Aviation Impacts on Air Quality
 - Aviation Noise Impacts

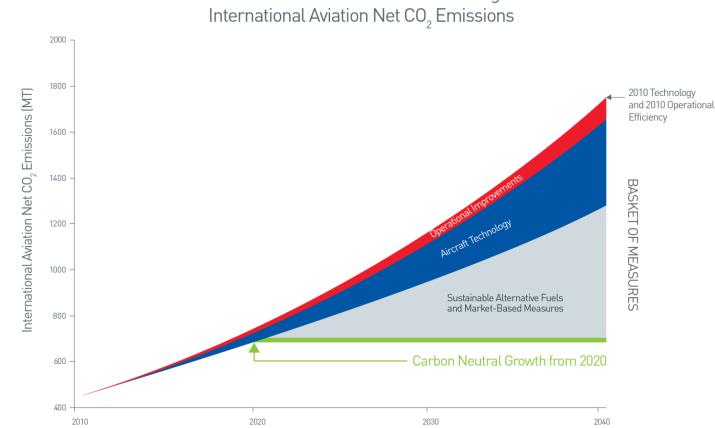


CAEP Modelling and Databases Group (MDG) Contribution of Measures for Reducing

E-GAP -

UNITING AVIATION

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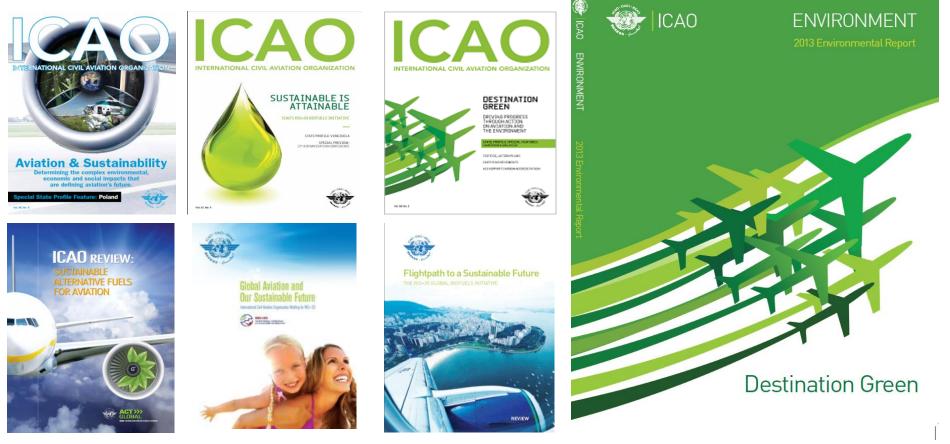


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- Global aspirational goal: carbon neutral growth from 2020
- To be achieved through a basket of measures

Additional information

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For more information on our activities, please visit: http://www.icao.int/env



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