

Assistance for Action

Aviation and Climate Change Seminar

23 - 24 October 2012

ICAO Headquarters, Montréal, Canada



Procurement Section, TCB/ICAO

Supporting Member States in their CO₂ emissions mitigation efforts

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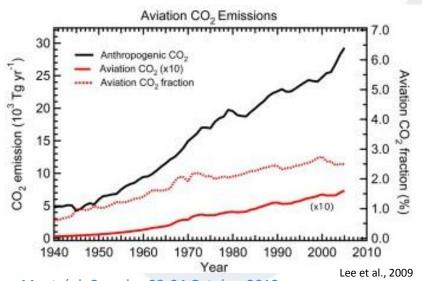
A situation that requires combining efforts

Aviation:

- 2 % of globally produced CO₂
- 3 % of the total of the radiative forcing
- 13 % of fossil fuels consumed by the transport
- CO₂ projected to grow around 3 to 4% / year

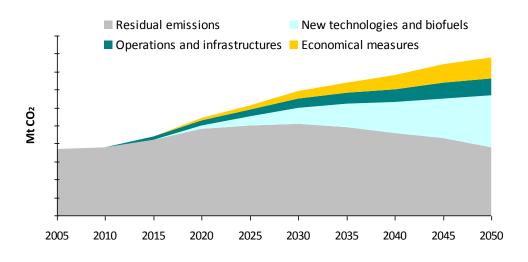
IPCC updated information on aviation in 4th Assessment Report (AR4) 2007

The growth rate of CO₂ emissions from aviation is more than the growth rate of total fossil-fuel CO₂ emissions.





Mitigation measures

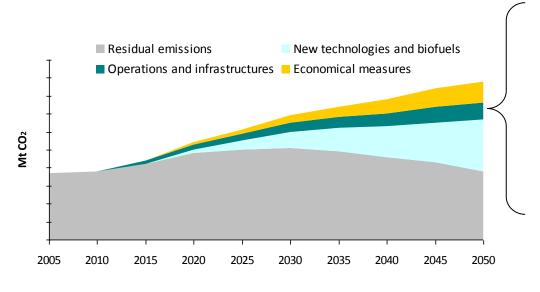


Hypothetical Civil Aviation Organisations mitigation measures

Adapted from ICAO Environmental report 2010 – Aviation contribution to climate change



Mitigation measures

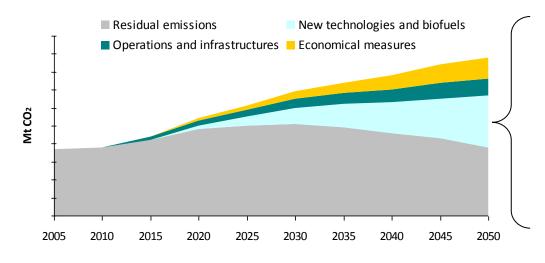


Adapted from ICAO Environmental report 2010 – Aviation contribution to climate change

- Optimize flight operations
- Optimize ground operations
- Reduce aircraft weight (baggages, cargo)
- Increase airport efficiency



Mitigation measures



Adapted from ICAO Environmental report 2010 – Aviation contribution to climate change

- New aircraft technologies;
- New ground vehicles technologies;
- Low energy consumption infrastructures



TCB / Procurement support

State Member Civil Aviation Organization

TCB / Procurement of ICAO

- Standards and Recommended Practices knowledge
- Technology expertise and extensive experience
- Turnkey solutions, performance based and implemented through project management
- Economy of scale

- Optimize flight operations
- Optimize ground operations
- Reduce aircraft weight
- Airport efficiency
- New aircraft technologies
- New vehicles technologies
- Low energy consumption infrastructures

Emissions reduction targets

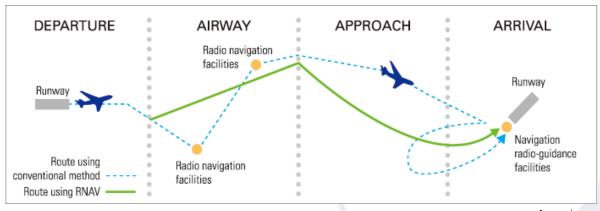




TCB / Procurement of ICAO

- SARPs knowledge
- Technology expertise and extensive experience
- Turnkey solutions, performance based and implemented through project management
- Economy of scale

Air Traffic Management Systems



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TCB / Procurement of ICAO

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- · Economy of scale

Air Traffic management systems

- Satellite based navigation system;
- Enhanced communication system (data link);
- > Enhanced surveillance system;
- > CPDLC;
- > EFSS;
- **>** ...





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Air Traffic Management Systems

- MSSR and PSR for Addis Ababa International Airport and ADS-B in Ethiopia;
- Multiple MSSRs, ADS-B, enhanced communication and state-of-the-art ATC center in Peru;
- ADS-C capability implemented in Somalia and Argentina;
- AMHS communication system in Macao, Ethiopia, Pakistan, Venezuela;
- ➤ 11 MSSR, 11 ATM, 5 ACC upgrade for ASECNA;
- **>** ...



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Airport efficiency and infrastructure



aviationglossary.com/apron-airport/

- ➤ Power generation
- > Heating or cooling plants
- > Energy efficient buildings
- ➤ Minimizing taxiing distances
- Back up to APU utilization (pre-conditioned air, etc.)
- ➤ Lighting (LED)
- **>** ...



TCB / Procurement of ICAO

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Day-to-day operations



- > IT equipment computers and monitors;
- Cleaning products and services;
- Stationery paper for office use;
- Freight forwarding services;
- **>** ...

See on-line procurement resources:

www.greeningtheblue.org

www.ungm.org



The Procurement Process at ICAO

TCB / Procurement of ICAO

- SARPs knowledge
- Technology expertise and extensive experience
- Turnkey solutions, performance based and implemented through project management
- Economy of scale
- UN principles of best value for money, integrity, accountability, fairness, transparency, effective competition;
- ➤ US \$14.8 billion (2010) for the UN, approximately US \$100 millions/year for ICAO;
- ISO 9001:2008 Certified Process;
- Implementation through Project Management Principle



The Procurement Process at ICAO for

Field Projects











Prestudy "What?"

Preparation "How?"

Execution "Do!"

Termination

Main Purpose with the Phase

Initiate the procurement project

Determine requirements

Determine Bidders' list

Conduct the tender, evaluate and select the supplier

Prepare and negotiate the contract

Get the signature of the Contract

Get the FAT approval and the equipement ready to ship

Get the SAT approval

Organise the after sale service

"Close!"

Close the file

Main Activities in the Phase

- Develop the technical specifications
- Establish budget
- •Determine the optimum bidders' list

- Prepare the tender and send it to bidders
- Organise the possible site survey
- Conduct the technical and commercial evaluations of tenders
- Summarise the evaluations and select the supplier(s)

- •Build the overall planning of the project
- •Prepare the contract
- Circulate the contract (country, LEB, ...)
- •Negotiate with supplier

- •Arrange the down payment
- •Write regret letters
- •Review the SDD
- •Review the FAT procedures
- Attend FAT
- •Check the shipment

- •Check the delivery
- Facilitate the customs clearances
- •Review the SAT procedures
- •Attend SAT on site
- Organize progress review meeting if needed

- •Finalize the payment
- Specify the warranty period
- Follow the claims and their resolution during the warranty period
- •Assess customer satisfaction



The Quality Assurance Process

Efficiency constantly monitored and subject to improvement;

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3 to 4 months

➤ Member State user satisfaction rating > 85 %



TCB / Procurement support

State Member Civil Aviation Organization

TCB / Procurement of ICAO

- The procurement power of the UN with the appropriate leverage for environmental sustainability;
- well proven and efficient procurement process

- Involvement at any stage of the procurement process (establishment of the requirement, tendering process, evaluation and contractual negotiation; project management);
- Can request one or more steps of the process or the whole procurement as turn key;
- Always the ultimate decision maker.

An efficient combination to reduce the emissions



THANK YOU!



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