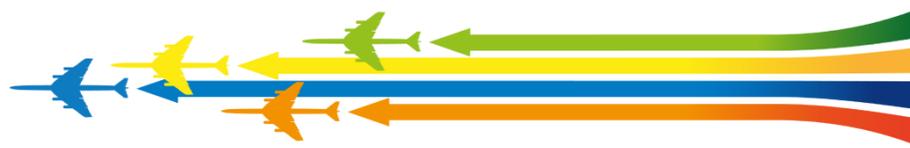




ICAO

UNITING AVIATION

E-GAP

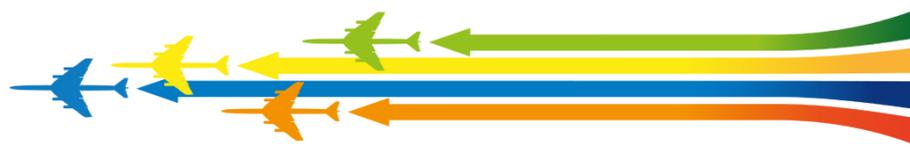


ICAO Global Aviation Partnerships on Emissions Reductions (E-GAP) Multiplying Environmental Action

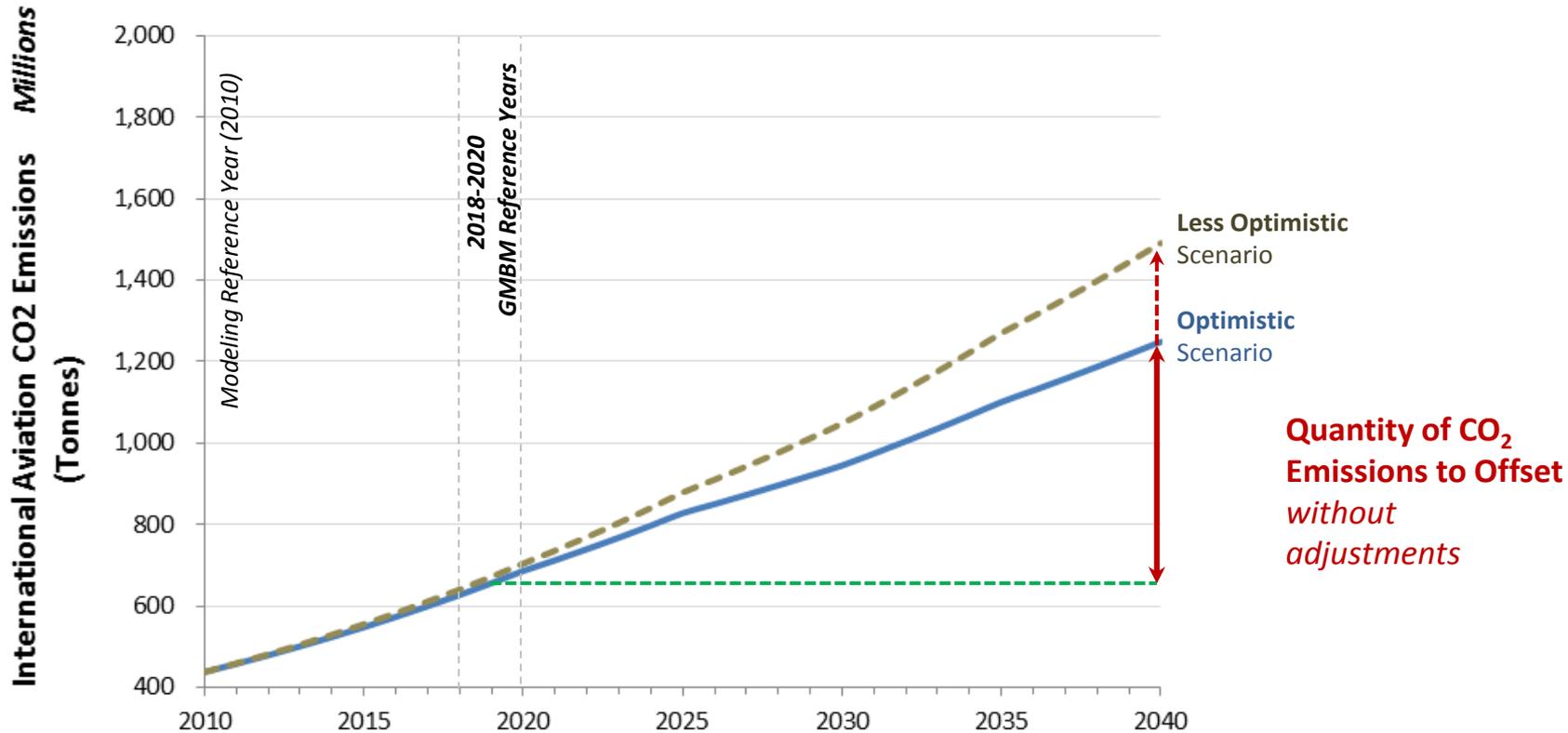


Carbon Markets

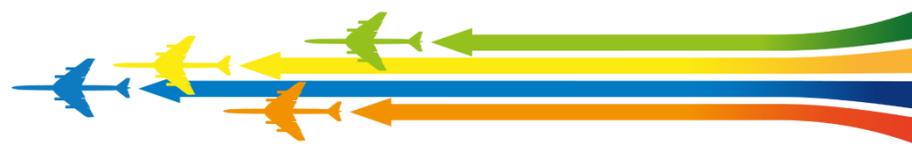
- Raised during regional consultation meetings on the global MBM
- Issues ranged from understanding supply, demand and price to eligibility of units
- International aviation role in the carbon market
- Linking UN mechanisms and efforts



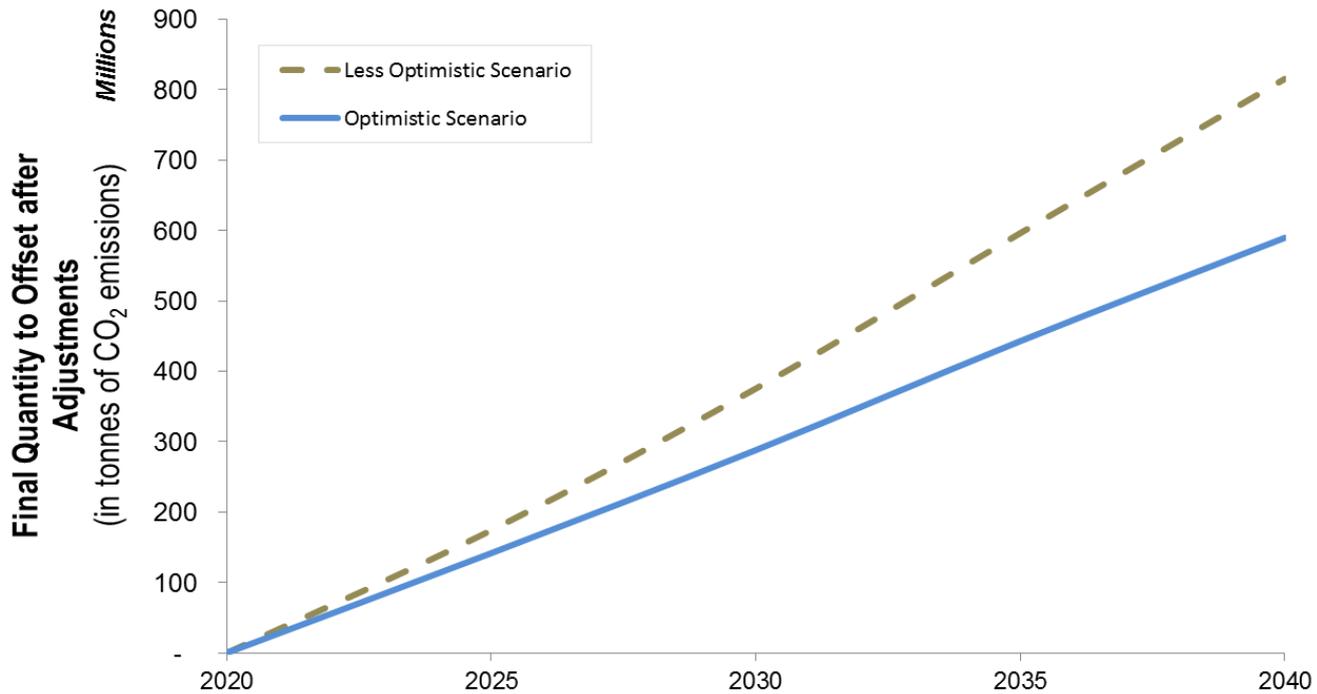
International aviation CO₂ emissions between 2010 - 2040



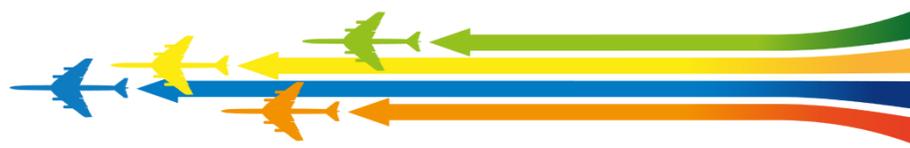
International Aviation CO ₂ Emissions (in Million tonnes)	2010	2018-2020	2020	2025	2030	2035	2040
Less Optimistic Scenario	438	671	704	879	1,048	1,270	1,491
Optimistic Scenario	438	656	686	828	945	1,101	1,249



Final quantity to offset after adjustments with total CO₂ emissions to provide context



Final Quantity to Offset after adjustments (in Million tonnes of CO ₂ emissions)	2020	2025	2030	2035	2040
Less Optimistic Scenario	-	174	376	596	816
Optimistic Scenario	-	142	288	443	590

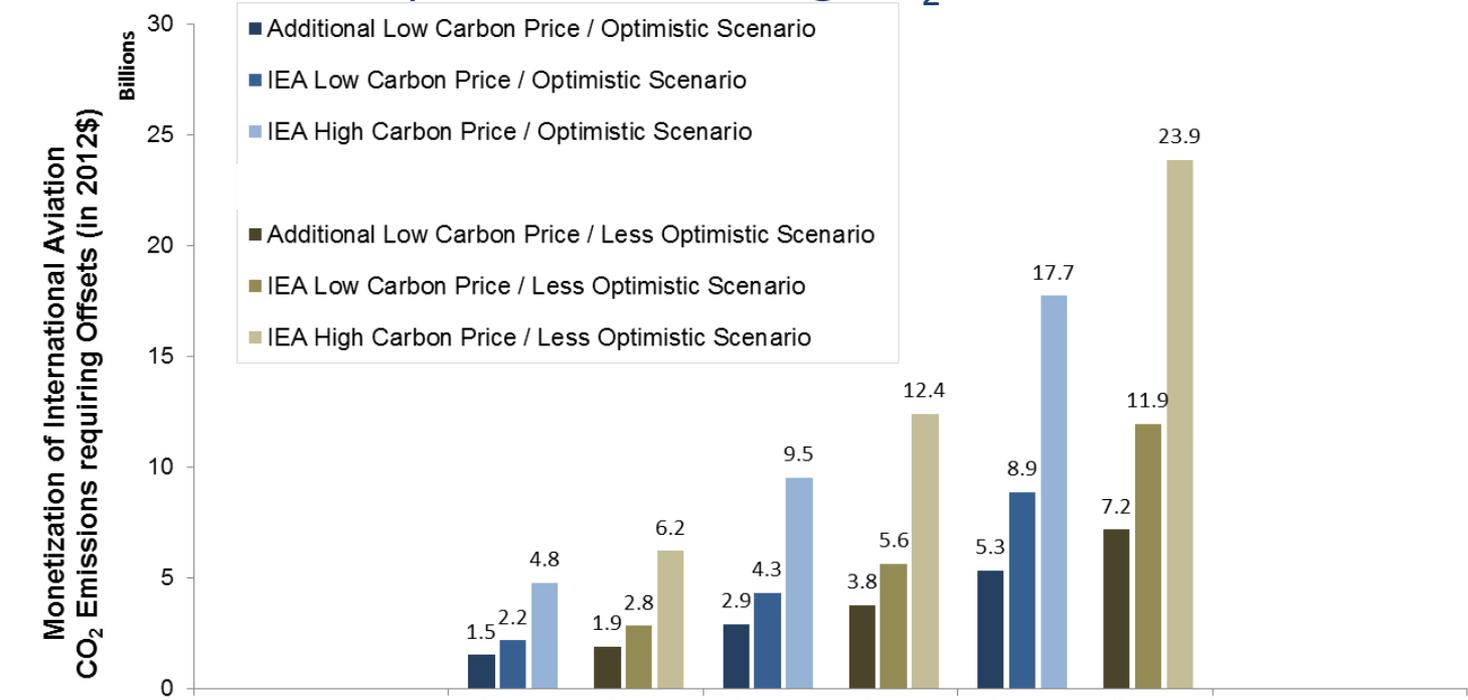


Sources for international aviation to address demand to offset emissions

- Forecasts beyond 2020 are challenging Allowances - ETS
 - National/region cap and trade systems
 - Offset credits affiliated with ETS
- Offset Credits
 - compliance markets (Kyoto Protocol, REDD+)
 - voluntary (VCS, Gold Standard)



- Assumptions on unit carbon price are driving significant uncertainty in total cost impacts of offsetting CO₂ emissions from international aviation.



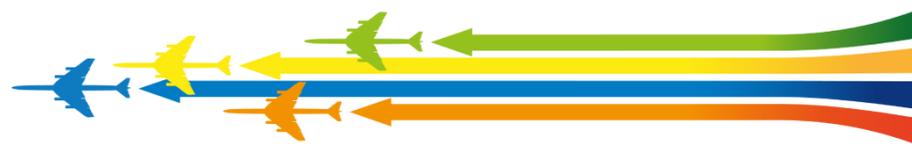
IEA WEO 2013 carbon price paths reflect allowance prices only.

The alternative low carbon price path takes into account a larger pool of emissions units with lower abatement costs.

Carbon Price Assumptions:

IEA High	20 \$/tonne	33 \$/tonne	40 \$/tonne
IEA Low	8 \$/tonne	15 \$/tonne	20 \$/tonne
Alternative Low	6 \$/tonne	10 \$/tonne	12 \$/tonne

* New case with alternative low carbon price



Costs to address emissions relative to revenue (USD billion)

