

# Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)

Coalition on Agricultural Greenhouse Gases meeting Sacramento, CA

March 9, 2017



#### **Aviation Emissions**

- 2% of global CO2 emissions and growing
- 3 5% of warming impact
  - Other emissions
  - Contrails
  - Altitude
- Exempted from UNFCCC negotiations since Kyoto Protocol (1997)
- EU-ETS attempt to cover aviation from 2012 prompted action

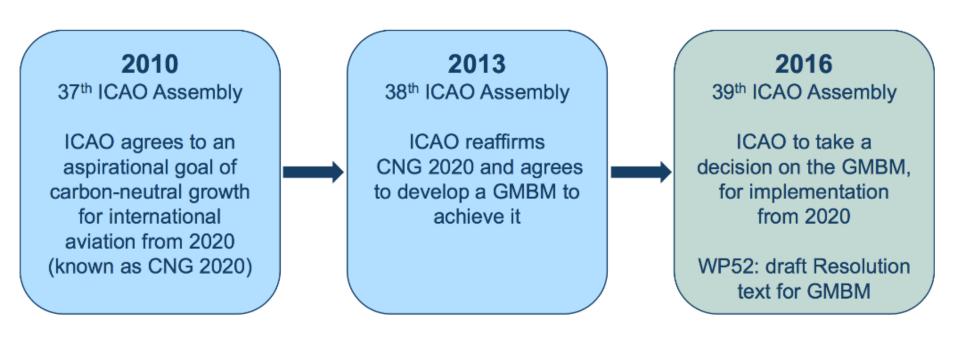


## International Aviation Governance

- International Civil Aviation Organization (ICAO)
  - UN agency
  - Established under the Convention on Civil International Aviation, the "Chicago Convention," signed in 1944



#### **ICAO** Road to CORSIA

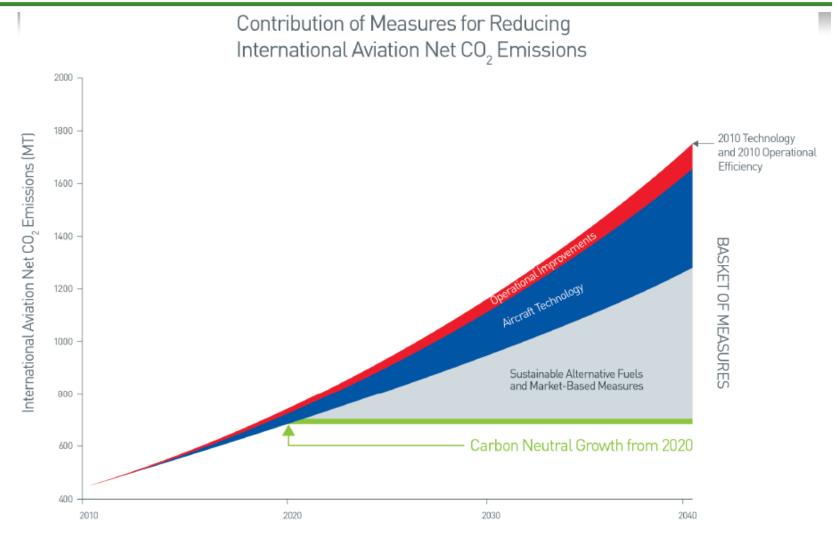


Source: UK Dept. of Transport

- Oct. 2016, 39<sup>th</sup> Assembly passed Resolution A39-3
- A39-3 decided that the Global Market-Based Mechanism (GMBM) would be fulfilled with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)

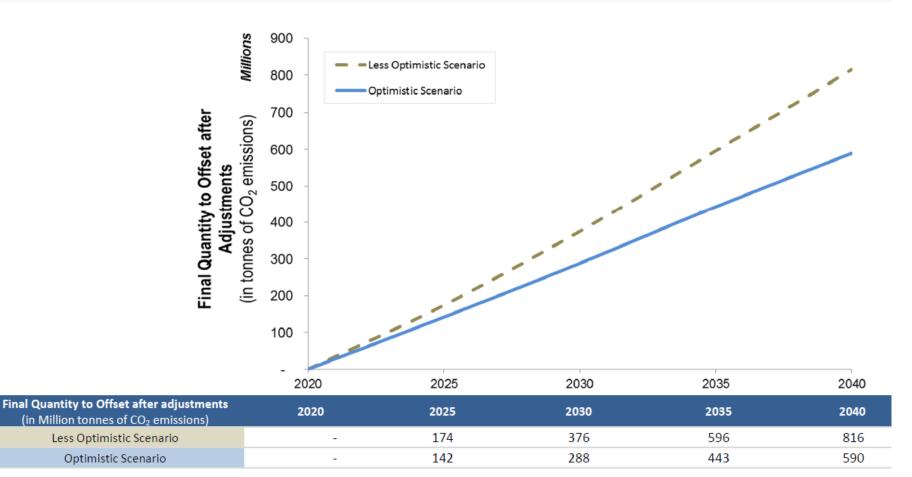


# Carbon Neutral Growth from 2020 (CNG20)





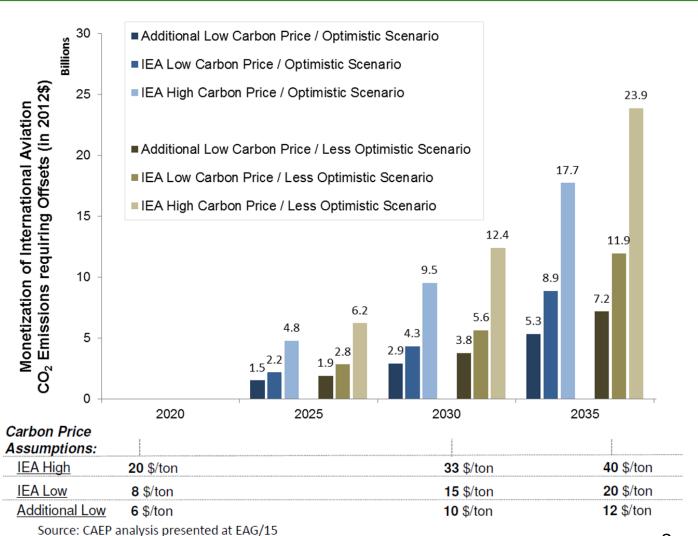
# Potential Offsetting Requirements



Source: CAEP analysis presented at EAG/15



#### **Potential Offsetting Costs**





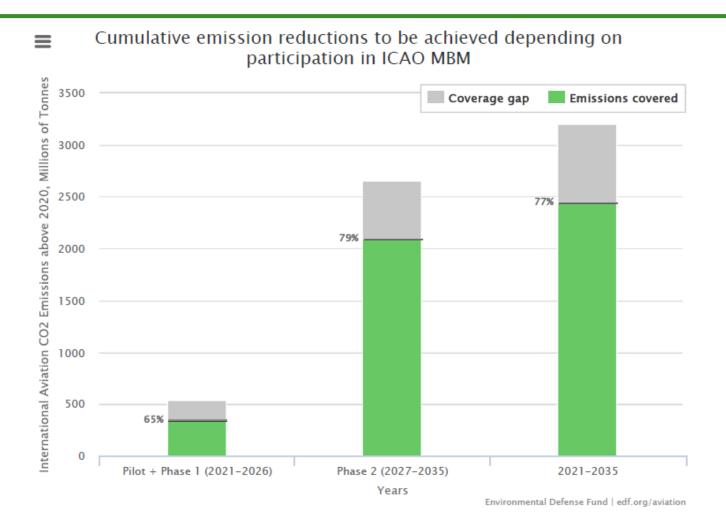
### **Phases and Participation**

- 2021-2023: Phase 1 (Pilot)— Countries can voluntarily optin.
- 2024-2026: Phase 2 (CP1) First implementation phase, but also on a voluntary basis. Countries can voluntarily optin
- 2027-2035: Phase 3 (CP2) Second implementation phase to include most states. Mandatory compliance, unless exempted
- Reviews every 3 years, starting in 2022. Special review in 2032 will asses whether to extend GMBM.

Source: IETA



#### **Participation and CNG20**



Source: EDF, 3/3/17



### **Establishing Infrastructure**

- CORSIA MRV system will be implemented through ICAO Standards and Recommended Practices (SARPs)
- Emissions Units Criteria (EUC) system will be implemented through SARPs. Explicit support for UN-backed credits to be accepted (i.e., UNFCCC mechanisms under Paris may be eligible for use in CORSIA provided they align with ICAO technical quality criteria and avoid double-counting).
- Registry implementation work ahead.
- SARPs are to be agreed by the ICAO Council by 2018 states must implement by 2019.

Source: IETA



#### **Program and Offset Criteria**

- CAEP is currently working on the criteria for emissions units to be purchased by operators under the global MBM:
  - Programmes that generate offset credits should have: clear methodologies and protocols; validation and verification procedures; avoidance of double counting/claiming, etc.;
  - Offset credits should be: additional; based on a realistic and credible baseline; represent permanent emissions reductions, etc.;



### Challenges

- Double counting with Paris commitments
- Emissions Unit Criteria
- Emissions tracking
- Ongoing deferment of EU-ETS coverage



#### **Contact Information**

Arjun Patney, Policy Director arjun.patney@winrock.org (916) 520-8628