

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

Katie Sullivan, IETA

#### What is IETA?

- **Global Cross-Sector Business Association** 
  - Companies from oil, electricity, banking, industry, traders and brokers, law, consulting, project developers, exchanges, verifiers, etc.
  - Collectively providing an effective business voice on carbon pricing

#### **Key Principles:**

- Flexible market-based mechanisms provide the most efficient means of achieving environmental objectives
- Long-term policy certainty is necessary to achieve cost-effective reductions
- Broad use of offsets and linkage to regional and global markets are effective ways to contain costs, driving deeper reductions and more ambitious climate change targets



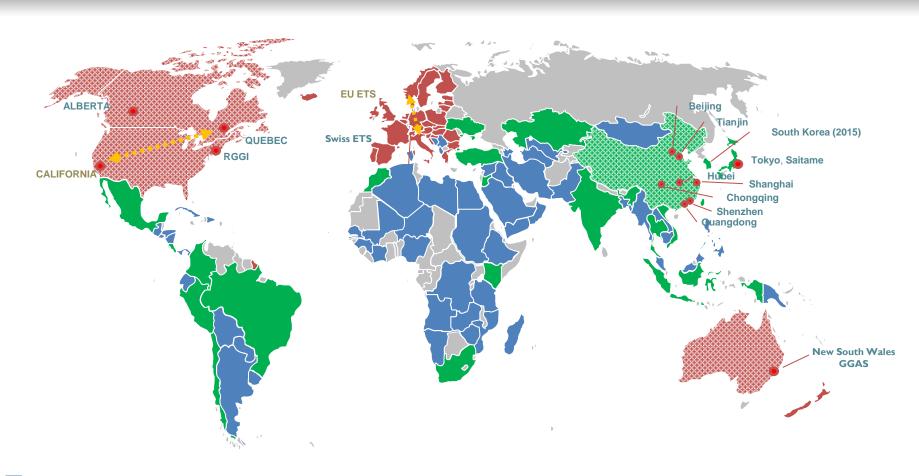
## **Taking Stock....Demand Builds Post-2020**

- Carbon Pricing Momentum (and post-2020 commitments):
  - INDC Submissions Markets to Reach Post-2020 Targets
  - G7 De-carbonization Pledge & Carbon Pricing Support
  - Sub-National Momentum Under 2 MOU
  - EPA Clean Power Plan State Compliance Options & Trading
  - Ontario, Mexico Next to Join WCI?
  - Oil & Gas Letter, Investor Letter Calls for Carbon Pricing
  - Carbon Pricing Leadership Coalition (CPLC)
  - NYC Climate Week Markets, Business, Carbon Pricing Events



#### UNITING AVIATION





- CDM Host Countries as of July 1, 2013 (UNEP Riso Centre, data from the CDMPipeline)
- Existing Emission Trading Schemes
- Emission Trading Scheme in Progress
- Countries with provincial-only Emission Trading Schemes
- ← Linkages

#### What is the Carbon Market?

- Carbon market exists to address an environmental goal:
  - Reducing greenhouse gas emissions and tackling climate change at least-cost
- Carbon market is a commodity market.
  - Like any commodity market, it's driven by the law of supply & demand
- Buying and selling of units results in a price of emissions
  - Price information signals to firms about "whether it's cheaper to reduce emissions (internal abatement) or purchase tradable units (allowances/offsets) on the market
- Compliance carbon market has some "unique features"
  - Demand and supply are created and controlled by government
  - Government controls offset eligibility, rules, issuances
  - Stroke of Pen Risks, Political Risks etc...



#### What is the Carbon Price?

- No single price
  - Global and regional markets = fragmentation galore
- Several factors determine supply-demand and price
  - Credit prices fluctuate with time and market demand and supply
  - Critical differences between compliance & (pre)-voluntary credit prices
- Program Design Matters especially post-2020 (as demand climbs):
  - Caps
  - Coverage
  - Cost-Containment
  - Market Participation
  - Complementary Mechanisms
  - Offset Rules (including Quantitative & Qualitative Limitations)



## What Offset Project Types?

- Project eligibility for carbon credits depends on:
  - Whether a project or group of projects follows a recognized protocol or methodology
- Carbon credits can be generated from various project types:
  - Forestation and Afforestation
  - Energy efficiency
  - Methane Capture
  - ODS Destruction
  - See IETA's Protocol Catalogue...

An offset credit represents one ton of carbon dioxide equivalent either removed, avoided, or sequestered. Offset projects that generate carbon credits make a real difference to climate change.





# Carbon Market – Key Players & Insights

- What is the Role of...
  - **Assurance Providers?**
  - Registry & Tracking System (including Retirement)?
  - **Exchanges?**
  - **Brokers?**
  - **Traders/Market Makers?**
  - Financiers?



## (Details) Role of Intermediaries...

- Provide Trading, Origination and Hedging Services
  - Spot/Physical
  - Forwards/Futures/Options
  - Trade Offsets and Allowances
- Help Overcome Trading & Hedging Challenges
  - Setting-up a trading desk and hedging for compliance can be costly
  - Registration or establishing an account (e.g. CITSS) can be challenging
- Buyers Purchase Units from Intermediary
  - One can purchase credits directly from an intermediary
  - Buyer can have a deal with counterparty rather than Program Authority
- Offset Origination Lower-Cost Purchase vs. Sale
  - Intermediaries help originate offset projects
  - Intermediaries then sell offset credits from project to compliance entity
  - Intermediaries working with project developers allows for lower cost purchase vs.
     sale



# **Principles for an Effective Carbon Market?**

- Establish long-term, science and environmental-based goals
  - Clear and stable regulatory regime drives a stable market
  - Promotes scarcity (and thus price)
  - Provides confidence to the investment community
  - Clarity, transparency and certainty is paramount!
- Open & Broad Market
  - Promotes broad participation and liquidity
  - Lowers-costs, allows entities to calculate and hedge their exposure
- Based on sound market infrastructure
  - Measurement, reporting, and information dissemination is absolutely critical
  - Registry security is critical
- Build-in Change Management Process to Regulation



#### **Preparing to Comply & Thrive...**

- Some compliance players leverage expertise in trading commodities
  - Gradually build in-house environmental markets expertise
  - Evolves from compliance to commercial operations
- Similar to other commodity markets, but unique risks ("Stroke of Pen")
  - Evaluating risks & opportunities requires commercial expertise
  - Many start with cost optimization, evolving into a "profit center"
- Some build deep offset expertise, such as:
  - Offset Protocol Development, Technical Support and Capacity
  - Offset Project Development Partnerships
  - Structured Offset Transactions



**UNITING AVIATION** 



# **IETA Partnerships Worldwide (Selection)**























