

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

# An overview of the World Bank Group carbon finance facilities





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Designing and implementing carbon pricing instruments is a growing trend at the sectoral, international, regional, national and sub-national level ICAO & World Bank analysis. Estimated baseline is 700MtCO2 per year in

Form and scope of Carbon Pricing Instrument		Approximate demand from MBM	
	The emission reduction pledges that Parties submit to the UNFCCC will include sector-specific targets and action plans	The use of international offsets is a clear part of the mix of policy options to meet sector target	
Sectoral	ICAO is expected to finalize, by 2016, a global Market Based Mechanism (MBM) to help the aviation sector achieve Carbon-Neutral Growth from 2020.	<ul> <li>Potential demand increasing to 250 MtCO2 per year by 2030 and beyond</li> <li>Total cumulative demand expected to be 13 to 20 GtCO2 between 2020- 2050 in order to achieve Carbon Neutral Growth*</li> </ul>	
International	Decisions about the form and scope of a new post-2020 agreement under the UNFCCC, are expected to be reached in December, 2015.	The use of international offsets is a clear part of the mix of policy options available for these carbon pricing instruments.	
Regional, national, sub-national	62 jurisdictions are putting a price on carbon. In 2015, these carbon pricing instruments cover some 7 GtCO2 at a value of just under US\$50 billion.		

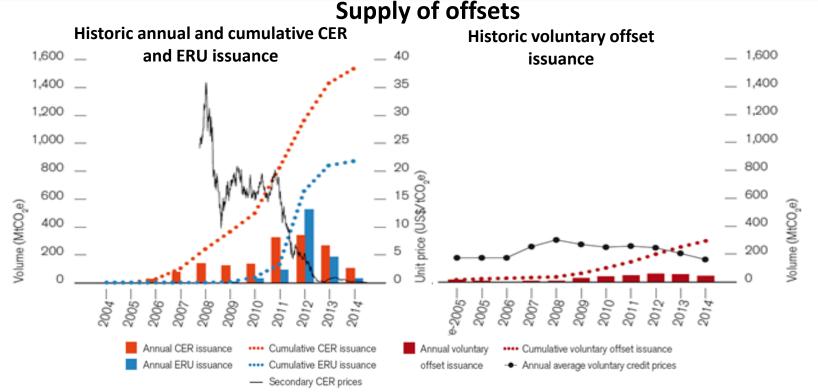
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2020. Demand figures are for MBM only and account for technology & ATM

improvements)

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#### Estimated Future supply (2015 to 2020):

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- Certified Emission Reductions (CERs) = 150MtCO2 per year \*
- Voluntary offsets: 80 110MtCO2 per year \*
- \* Expected yearly project based issuances on average over the 2015-2020 period
- The supply of offsets is decreasing due to a lack of robust and effective demand
- Early action is critical to signal demand and ensure enough credits are issued to meet the aviation sector needs

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# *Source:* UNFCCC for CDM data on issuances, Intercontinental Exchange ICE for CDM data on prices, Forest Trends' Ecosystem Marketplace for data on voluntary offsets. **ENV2015**



#### **Options for Purchasing carbon offsets**

When considering options for purchasing carbon offsets, the Aviation Industry's short and long term strategy will involve a number of considerations, including:

- Resource commitment
- Cost
- Opportunity to advance internal understanding of carbon market
- Risks. e.g., regulatory risk, issuance risk and reputation risk



Carbon Funds have been the primary source of demand for carbon offsets to date and are particularly attractive for new carbon market entrants

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#### Advantages of a carbon fund:

- ✓ Allows buyers to aggregate demand and reduce overhead and transaction costs
- Volumes of assets sought, and government participation in the funds in many cases, gives Carbon Funds significant market leverage and the ability to attract favorable commercial terms
- Cost-effective and low risk approach to meeting CO2 obligations for those firms that do not have the in-house expertise to establish their own carbon asset sourcing programs
- ✓ Opportunity to diversify current portfolios and manage risk
- Excellent opportunity to examine in detail trends, projects, compliance market mechanisms and other compliance schemes



The World Bank Group has \$3.8 billion under management through 15 carbon funds and facilities which facilitate procurement at scale

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	WBG Facilities		
P C F	Prototype Carbon Fund	•	Т
	Netherlands CDM Carbon Fund (NCDMF)		k
<pre>() IFC</pre>	IFC-Netherlands Carbon Facility (INCaF)	•	a C
F	Community Development Carbon Fund (CDCF)		g
() IFC	IFC-Netherlands European Carbon Facility (NECaF)	•	D
NECF	Netherlands European Carbon Fund (NECF)		tl C
Bio	BioCarbon Fund Tranches 1 & 2 (BioCF T1 and T2)		e
C F	Italian Carbon Fund (ICF)	•	C
F Danish F Carbon F Fund	Danish Carbon Fund (DCF)		la tl
6 F	Spanish Carbon Fund (SCF)		ir
UCF	Umbrella Carbon Facility Tranches 1 and 2 (UCF)		n
2	Carbon Fund For Europe (CFE)		L fe
<pre>() IFC</pre>	IFC Post-2012 Carbon Facility (P12C)		10

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#### Lessons learned

- Through life management of carbon funds is key, including: structuring, fund raising and administration
- Origination and valuation of carbon offsets in global carbon markets is critical
- Deep familiarity with the Kyoto Protocol and the mechanisms governing participation in CDM and Joint Implementation (JI) is an essential requirement
- Comprehensive understanding of the policy landscape is important, particularly related to the design and implementation of international, regional, sectoral, national, subnational carbon pricing instruments
- Understanding the evolution of design features in other carbon markets is key

Legal end of the Instrument. In these cases funds will close sooner as funds make Cumulative resources not considering disbursements to-date
 Capitalization not disclosed Participants

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The World Bank Group is also implementing carbon market facilities that innovate and pilot new carbon market instruments

Initiative	Objective
Carbon Partnership Facility and TCAF	Pilot new carbon market mechanisms that have emerged from discussions of the post-2012 climate change agreement
Pilot Auction Facility	Pioneers the use of auctions for simple and efficient procurement of carbon assets that can be applied in many sectors and MBMs.
Bio Carbon Fund & Forest Carbon Partnership Facility	Results-based finance for CO2 reductions at the landscape level Prepare developing forest countries for REDD+





### The World Bank Group also plays a leadership role in shaping future carbon markets and regulatory instruments

Initiative	Objective
Carbon Pricing Leadership Coalition	Brings together leaders from government, business and civil society with the goal of putting in place effective carbon pricing policies worldwide.
Partnership for Market Readiness	Provides grant funding and a platform to support countries to improve technical and institutional "readiness" for carbon pricing
Networked Carbon Markets initiative	Enabling comparability among different climate mitigation actions, for a connected international carbon market



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#### The World Bank has partnered with many public and private entities to develop Market Based Mechanisms



#### **Over 40 public sector partners** Australia Austria Brazil China Chile Costa-Rica Colombia Denmark Germany Finland Kazakhstan Indonesia Italy Japan Jordan ۲ India Mexico Morocco Netherlands Norway South Africa Spain Sweden Peru Switzerland 0 C\* Thailand Tunisia Turkey Ukraine United Kingdom 🏀 🖋 🗏 GD REGIONAL GOVERNMENTS Japan International United States Agence Vietnam BRUSSELS-CAPITAL, FLEMIS Cooperation Agency AND WALLOON REGIONS Francaise de developpement Canada ENERGY Ireland Luxembourg Denmark European Union FONDO PORTUGUES DE CARBONO Portugal

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