Climate Warehouse

Cristián Mosella | 4 July, 2019





Positive momentum for climate action, but challenges remain







Achieving NDC goals will require massive international and national sources of climate finance

Need for Leverage

limited and needs to be leveraged intelligently to attract private capital

Carbon pricing and international carbon markets create an opportunity to accelerate decarbonization in Chile

- Carbon pricing
 - 2018 saw continued progress on carbon pricing initiatives at the subnational, national, and regional levels
 - With increasing global ambition to tackle climate change, a diverse set of countries and sub-national jurisdictions are interested in planning and implementing carbon pricing policies such as carbon taxes and emissions trading systems
- New generation of carbon markets
 - Post-Kyoto Protocol era: growing application of pricing mechanisms, especially markets, in multiple contexts to address mitigation of emissions
 - The new generation of climate markets is likely to develop as a network of decentralized markets, linking at regional, national and sub-national levels
 - Article 6 of the Paris Agreement recognizes that parties may engage in cooperative approaches, including the use of internationally transferred mitigation outcomes ("ITMOs") towards their NDCs
 - Climate markets create the opportunity incentivize coal phase out and increase renewable energy capacity through linking renewable energy certificates and markets

Climate markets can address these challenges



- Carbon markets can reduce global NDC implementation costs by US\$115 billion by 2030 and US\$1.9 trillion by 2050.
- Markets also increase resource mobilization: \$1 invested in emission reductions under CDM led to \$4.60 to \$10 in underlying low carbon investment.

The annual value of carbon pricing initiatives at regional, national, and subnational levels rose to \$82 billion. \$52 Bn

Bn

2017

2018



Source: WBG "State and Trends of Carbon Pricing 2016; 2010 5

Global climate smart investment potential is estimated at US\$23 trillion



LAC: Latin America Caribbean; SAR: South Asia Region; EAP: East Asia Pacific; ; SSA: Sub-Saharan Africa; ECA: Europe and Central Asia; MENA: Middle East and North Africa

The World Bank's vision is to enhance global ambition through climate markets

Mobilize capital for resilient & low carbon growth by connecting climate markets

INVESTMENT SERVICES

Mobilize public and private capital. Create initial market liquidity:

- Create initial demand for transfers of climate assets
- Generate supply of climate assets

KNOWLEDGE SERVICES

Develop concepts and methodologies around:

- Asset creation and exchange
- Market regulation and institutional frameworks
- Financial products
- Market solutions for adaptation

Thought leadership on market intelligence

CAPACITY BUILDING

- Build countries' readiness and infrastructure to generate and transfer climate assets
- Support low-carbon development policies and instruments
- Strengthen and harmonize clients' NDCs

ADVOCACY SERVICES

- Understand stakeholders' expectations
- Partner with key/interested stakeholders
- Build consensus and awareness on key design elements

The World Bank's vision is to enhance global ambition through climate markets



Evolution of Carbon Market Programs at the World Bank



Climate Warehouse

Infrastructure for recording, transferring, and using MOs



The Climate Warehouse in context



Creating and Trading MOs

Process for piloting MOs

The World Bank is piloting the creation of supply of mitigation outcomes (MOs) from its own portfolio of lending operations.

Project due diligence is carried out as part of the preparation for lending. The preparation of mitigation outcomes is a parallel activity towards operationalizing Article 6.

Methodology

Internationally peerreviewed methodologies applied and adapted as necessary

MRV

Standardized and scalable MRV framework established for the project or sector using new technologies

Quality

Independent third party assessment using the RECRA Manual with the Association of Independent Entities Institutional Framework

Institutional approval processes and documents for participation in climate markets through consultations

Chile: energy sector opportunities

- Renewable energy
- Energy efficiency
- E-mobility
- Decarbonization



Climate market partnership (club)



Key Risks

 Sovereign regulatory compliance risk related to corresponding adjustment and regulatory uncertainty of eligibility of assets for domestic compliance



Risks mitigation instruments

- Governance Framework: Climate Club to be used as a concept to organize pilot transactions.
 - A "CLIMATE CLUB" would consist of a group of national governments voluntarily agreeing to follow a certain set of rules to jointly operationalize climate markets under Article 6.2
 - A code of conduct for self-governance to be developed through a consultative process to minimize regulatory risks related to corresponding adjustment, avoidance of double counting, and quality of MOs
 - The **CLIMATE CLUB** would provide the infrastructure for Club members to conduct transactions in line with the code of conduct
- Other mechanisms: Design financial instruments and products to mitigate risks to catalyze private sector action
 - Mitigation Outcome option contract template developed for managing price risk and uncertainties related to eligibility of assets for domestic compliance. Could be applicable in a range of precompliance markets (for e.g. International Offsets for the Korean ETS, CORSIA, etc.).

Enabling Environment

Tools and knowledge products

- MAAP 2.0 International Transfer Readiness assessment module
 - Framework for assessment of countries' readiness under Article 6 (alignment with NDCs, transparency, environmental integrity, and avoidance of double-counting)
 - Piloted for 10 countries: Uganda, Ghana, Nigeria, Kenya, Turkey, Switzerland, Chile, Bangladesh, Spain, Mexico. Tool updated based on pilots; to be applied to Netherlands, India, Bhutan.
- Independent Assessment Manual and Code of Conduct developed
 - Improve the quality and consistency of independent assessments Entities and Independent Entities Association (DIA)
 - Piloting initiated; to be launched at I4C for stakeholder consultation
- NDC Completeness Analysis
 - Developed framework for assessing completeness of country NDCs based on Annex I of Article 4
 - Collaborating with Climate Transparency to include the analysis for piloting through the Brown to Green 2019's Country Profiles.
- **Options paper:** Continued support for development of options for modalities and procedures for Article 6; effort to identify key issues through deep-dives to be resolved at CoP25

Stakeholder engagement



Climate Warehouse

Cristián Mosella | 4 July, 2019

