Journey of Carbon Markets - Voluntary and Compliance



RCC MENA and South Asia

Collaboration for Climate Action

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Understanding Carbon Markets & Potential for Pakistan

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https://unfccc.int/RCCMENAandSA



United Nations Climate Change Regional Collaboration Centres

Global Emissions in 2019

Country	CO ₂ Emissions/year (Billion Tons)/ Gross	Share of global CO2 emissions	Emission of CO ₂ per Capita (Tons/Person)
<u>China</u>	14	26%	9.7
United States	6.6	13%	20.0
<u>EU-28</u>	4.3	9%	8.6
Pakistan	0.45	>1%	2.4
Russia	2.5	5%	17.4
<u>Japan</u>	1.4	3%	10.7
Germany	0.8	2%	10.1
World	57.4 (Gross)		
	48.5 (Net)		

Source: https://data.worldbank.org/indicator/EN.ATM.GHGT.KT.CE; Pakistan updated NDC 2021;

Carbon Markets

Carbon credit is considered as **tradable commodity** and technically corresponds to 1 tonne of CO_2e reduction / avoidance.

- Domestic Carbon Market where the transactions (buying and selling) happen inside the country, between two Pakistan companies (Carbon Pricing - ETS)
- International Carbon Market where the transactions happen between Pakistan (seller will be a Pakistan company) and other country (buyer will be a company out of Pakistan).



Compliance vs Voluntary Market



Carbon pricing and domestic emission trading

Out of the 50 largest economies in the world:

- 41 have some a system already in place or plans to form a price on carbon at the domestic level (Emission Trading, Carbon tax, etc.)
- 31 are specifically opting for tradable instruments (carbon market, emission trading scheme, etc.)
- >20 have or are making places for putting in place a carbon tax (sometimes in parallel to an emission trading scheme)

Recent carbon pricing plans in: Japan (ETS), India (ETS), Brazil (ETS)

Carbon Market Mechanisms Regulator....



Understanding Article 6 (6.2, 6.4, 6.8)

Article 6 of the Paris Agreement : tool to implement NDC and LT LEDs under voluntary cooperation between parties



Understanding Art 6.4 & 6.2?

Article 6.2



'Institutional arrangements' for Article 6.2



- Electronic Registry in place to manage ITMOs
- Arrangements in place for ITMOs, towards achievement of NDCs
 - 1. Authorize : Governance Body (Institution, Official Or Position, to issue ITMOs)
 - 2. Track : Electronic medium / Registry to track the ITMOs, ensuring the Art 13 of the PA
 - 3. Report : Initial Report to Annual Report to Biennial Report
- Governed under NDC commitments and transparency ensured through CARP (Centralized accounting and reporting platform)

Article 6. 2 Pilots



- 1. Art 6 Pilots 23 Numbers. Globally
- 2. Countries active in developing pilots
- **3.** India, Morocco; Mandated the type of projects that may take part in international carbon market under Article 6.2 mechanisms

What is the Article 6.4 mechanism?

The new centralized UNFCCC baseline-and-credits mechanism (replacing CDM/JI)



"A mechanism to contribute to the **mitigation of greenhouse gas emissions** and **support sustainable development** is hereby established under the authority and guidance of the CMA for use by Parties on a voluntary basis" "It shall be **supervised by a body** designated by the CMA..."

The mechanism shall aim to:



Promote the **mitigation** of GHG emissions while fostering **sustainable development**



Contribute to the reduction of emission levels in the host Party, which will benefit from mitigation activities resulting in emission reductions that can also be used by another Party to fulfil its NDC



Incentivize and facilitate participation in the mitigation of GHG by public and private entities authorized by a Party



To deliver an overall mitigation in global emissions

Institutional Arrangements

- 1. Art 6.4 DNA mandatory by Host Party to participate
- 2. Establishment of Art 6.4 DNA Decision 3/CMP.3
- 3. As of Aug 2023, 52 countries have submitted a designated national authority for Article 6.4 mechanism

The prioritization of preferred Art 6.4 activities may conclude on a defined strategy that ensures activities go beyond NDC targets and may respond to:

Which sectors will be targeted?

Which types of activities are preferable in these sectors?

Evaluate the potential of quantification of the Mitigation measures => engage in easy measurable activities

Evaluate the cost/effort to distribute Mitigation Outcomes use : High cost/effort => ITMOs / low cost/effort =>

NDC

Article 6.4 PRINCIPLES

Registered activities, can be a hosted by ANY Party and the range of activities is broader, issued Article 6.4 emission reductions (A6.4ERs), come in two types:



- Mitigation contribution units (MCUs):
 - These are NOT ITMOs the mitigation achieved prized st Party to achieve its NDC or development goals
 Can be used for, inter alia, results NOT Authorized st Party to achieve its NDC or ac
 - Can be used for, inter alia, results
 price-based measures, for the purp of contributing to the reduction of emission levels in the host
 Party

Relationship between Article 6.4 & CDM – Key differences

Article 6.4 Mechanism

All Parties must have **NDCs** (emission reduction targets)

Larger role for developing countries (e.g., approve project CPs, provision of info to SB on how its participation contributes to SD)

All Parties can participate as sellers or buyers of Mitigation Outcomes)

Parties are expected to **report** to the UNFCCC ex-post on how mitigation actions contribute to the NDCs of host and partner countries

SB – Supervisory Body (CDM – CDM Executive Board)

AP - Activity Participants (CDM – Project Participants)

HP – Host Party (CDM – Host Country)

CDM

Only (some) Annex I Countries have legally binding emission reduction targets

Limited role for developing countries (i.e. role and commitments of the HC limited to granting of Letters of Approval)

Developing countries participated in the international carbon market as **hosts** for CDM projects (no targets).

The approval of CDM activities implied confirming that participation was voluntary and contributed to SD in the country.

A6.4ERs (CER – Certified Emission Reductions)

Mitigation Contribution Units (MCUs)

CDM and Article 6.4 mechanism: Key differences.

	Article 6.4 mechanism	CDM	
Baseline	Host Parties can specify methodological approaches (that are more stringent than what is approved by the SB)	No possibility for Host Parties to specify methodological approaches that are limited to their jurisdiction (except through standardized baselines)	
	 Encourage ambition over time Below BAU BAT Ambitious baseline Actual or historical emissions adjusted downwards Align with the LT goal of the PA Align with HP NDC and when applicable LT-LEDS 	Can be set at BAU (including historical emissions if applicable)	
Additionality	To be elaborated		
Crediting period	Maximum 10 years fixed or 3 x 5 years maximum Can be specified by host Party	10 years fixed or 3x7 years	
Activity types	Projects, Programmes, (others?)	Projects and Programmes	
Infrastructure	A6.4 registry	CDM registry	
Public input	Possible at any time of the project	Only during foreseen time for public consultation	
Grievance mechanism	Foreseen	None	
Stakeholder Consultation	Lifetime of the project crediting period	Before the Validation process	
Role of DNA	Approves activities Authorizes participants Must specify activity type the Host Party is willing to approve		
Units produced	Authorized A6.4ER or	Mitigation Contribution Units (MCUs)	
Corresponding adjustments	Yes (except for MCUs)	No	
Addressing reversals	To be developed		

Art 6.4 Project Cycle.



CDM Transition



Art 6.4 Methodology will be applicable

Numbers...

- 3328 Projects + 165 PoA = 3493 Eligible for Transition (crediting period 1st Jan 2021) {31 Projects from Pakistan}
 - 2003 Large Scale + 1490 Small Scale
 - As on date 100+ projects requested for transition

Transition of CDM Activities to the Art 6.4 Mechanism



secretariat)

- 8. Request for review (in 14 days by host Party, or any Supervisory Body member/alternate)
- 9. Review (by the Supervisory Body if a review is requested)



About RCC MENA and SA – Accelerating Implementation



Achieving Effective Engagement



AMBITION: Maximize the magnitude and extent of commitment to climate action

IMPLEMENTATION: Facilitate implementation of climate action to achieve commitments

3 PARTNERSHIPS: RCC oversight and regional climate action coordination







RCC MENA and South Asia

Collaboration for Climate Action

Thank You

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