

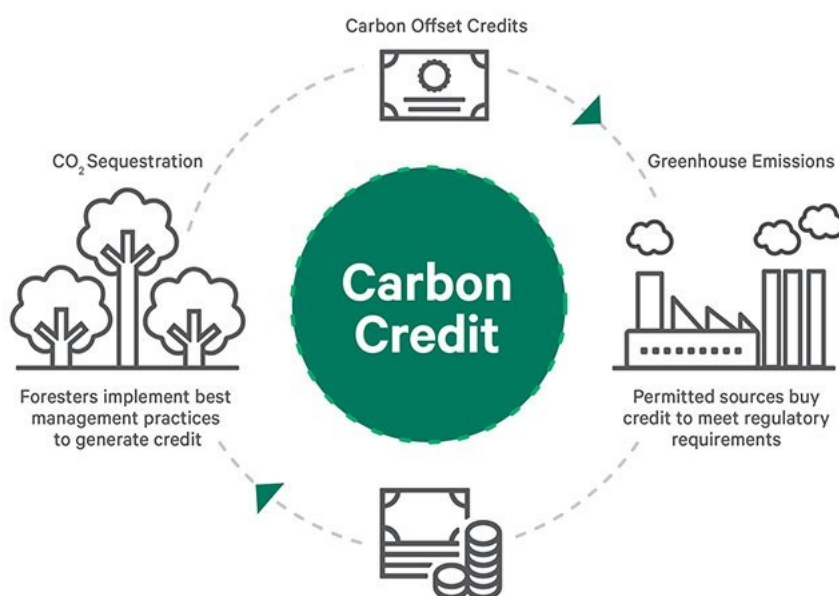
## UN Framework About Carbon Market

### Why in news?

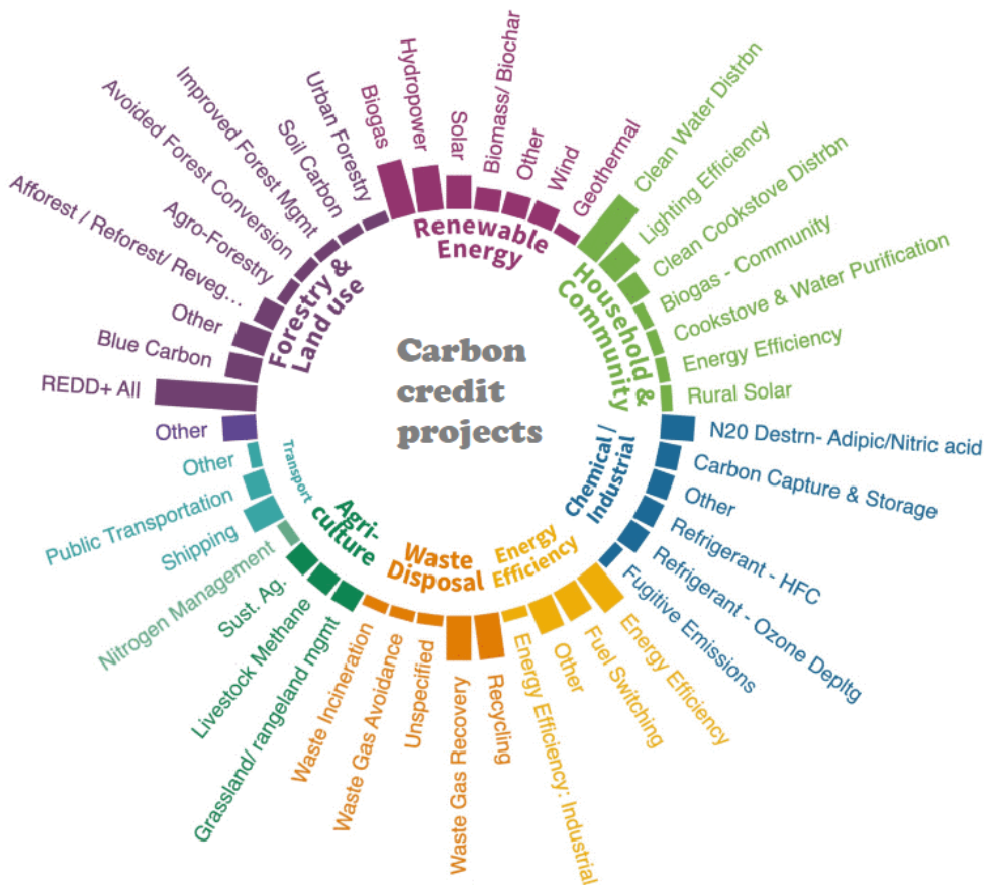
The new rules by United Nations about carbon trading between nations was recently approved at 29<sup>th</sup> edition of the Conference of the Parties (COP) in Baku, Azerbaijan.

### What is carbon market?

- **Carbon market** - It is a trading system where carbon credits are bought and sold.
- **Key Features:**
  - **Carbon Credits** - One tradable carbon credit is equal to one tonne of carbon dioxide or its equivalent amount of a different greenhouse gas reduced, sequestered or avoided.
  - **Offsets** - Once used, carbon credits become offsets and are no longer tradable.
  - **Standardization** - To compare GHG effects, emissions are standardized in CO<sub>2</sub>-equivalents (CO<sub>2e</sub>) using 100-year Global Warming Potentials (GWPs).



- **Article 6** - It was *first introduced in Paris Agreement 2015*, which offers carbon trading as a way for countries to reduce their greenhouse gas emissions cooperatively.
- **Significance** - Carbon markets are seen as ***key tool in achieving net-zero goals by 2050***.
- They enable countries to balance their emissions by offsetting them through credit trading.
- *Carbon markets are one of the ways to deliver on the New Collective Quantified Goals (NCQG)*.



- **Global cooperation** - The market allows for cooperation across borders, reducing the cost of implementing climate action plans.

*The COP 29 estimated that carbon market could reduce the cost of implementing national climate plans by 250 billion dollar per year by enabling cooperation across borders.*

### What is the framework for carbon market approved in COP 29?

- **Article 6** - Under this article, **COP 29 approved two pathways** for countries and companies to trade carbon offsets.
  - **Article 6.2** - Direct country-to-country trading (bilaterally trade)
  - **Article 6.4** - Separate UN-backed marketplace (global carbon).
  - **Article 6.8** - The third cooperative carbon-reduction mechanism wasn't discussed much at COP29 is for non-market approaches.

*Global carbon trading mechanism could be a reality and that the first UN-sanctioned carbon credits would be available in 2025.*

- **Supervisory Body** - It is established *to ensure the integrity and effectiveness of the carbon market* by setting rules and standards for carbon credit transactions.
- **Credit verification** - Verification of carbon credits which come from genuine green

projects.

- **Registry oversight** - It provides *centralized tracking of traded credits* to prevent double counting.
- **Host country approval** - The country where the carbon reduction project occurs, the host country must approve the project.
  - This ensures that the projects align with national climate plans.
- **Sustainable development goals** - Carbon market projects should contribute to the broader goals of sustainability, such as poverty reduction, health improvements or biodiversity conservation.

### What are the shortcomings of carbon market?

- **Greenwashing** - When a company or government makes deceptive claims about its environmental efforts.
  - Only *16% of carbon credits* result in actual environmental benefits.
- **Lack of transparency** - Countries participating in the carbon market under Article 6.2 are not required to disclose how they plan to prevent double counting of credits, leaving room for uncertainty.
  - This weakens the enforcement of compliance and leaves room for countries to trade flawed or unverified carbon credits
- **Lack of compliance** - The COP29 rules are *not mandatory* for countries to stop using *carbon credits from projects which are in compliance with emission standards*.
  - Sharing key details about carbon trading such as risk of project failure, is also optional.
- **Overemphasis on offsetting** - Carbon markets allow developed countries to *offset rather than reduce emissions* at their source.
  - This reliance on offsetting rather than direct reductions delays meaningful action against climate change
- **Loopholes in methodologies** - The formula for calculating carbon credits does not account for the complexities of long-term environmental outcomes.
- **Concern of additionality principle** - It is when carbon credit projects claim emission reductions that would have occurred even without the project.
  - It makes the credits ineffective in addressing actual climate change mitigation.

### What are the significance of this carbon market to India?

- **Economic gains** - Attracting investments through FDI for renewable energy and green projects.
  - Revenue generation by selling carbon credits in global markets.
- **Climate goals support** - The funding from carbon markets will fuel energy transition in India.
- **Technology transfer** - Access to low-carbon technologies, fostering innovation and industrial modernization in India.
- **Social and regional development** - Rural employment through afforestation, clean energy, and conservation projects.
  - Better infrastructure through carbon-linked projects.
- **Achieving equity** - In addressing climate change through fair carbon market rules for

developing nations.

- **Climate leadership** - India's active participation in carbon markets demonstrates leadership in climate action, bolstering its international reputation while negotiating favorable terms in global forum.

### What lies ahead?

- Global Implementation cross-border cooperation in carbon credit trading.
- Integrity in addressing concerns like double counting and additionality.
- Strict monitoring and stricter verification mechanisms are needed to maintain the integrity of the system.
- Technological Innovations for carbon capture and storage (CCS) and other innovative methods of emission reductions to meet the growing demand for credits.

### Quick facts

#### India's carbon trading market

- The Carbon Credit Trading Scheme (CCTS) is a market-based mechanism in India to reduce carbon emissions.
- **Key features** - The CCTS includes two key mechanisms:
  - **Compliance mechanism** - Addresses emissions from energy use and industrial sectors.
  - **Offset mechanism** - Incentivizes *voluntary actions* from entities not covered under compliance.
- The CCTS is expected to take *effect by 2026*.
- The Ministry of Power (MoP) will oversee the regulatory framework of the CCTS, with the Bureau of Energy Efficiency acting as the designated administrator.

### Reference

1. [The Hindu | Global Carbon Market Gets Green Signal At COP29](#)
2. [Carbon Market Watch |Pushing Ill-Conceived Carbon Market](#)