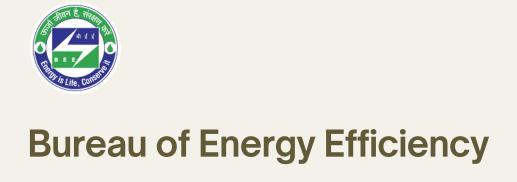




# Indian Carbon Market

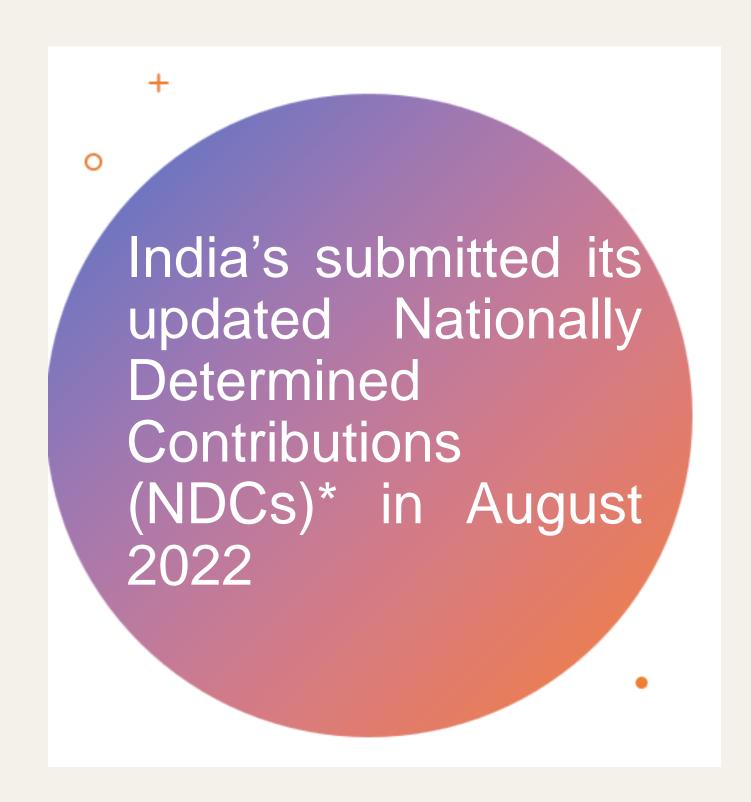
An Overview





#### India's Climate Action Commitments







To reduce the Emissions Intensity of its Gross Domestic Product (GDP) by 45 percent by 2030, from 2005 level.



To achieve about **50 percent cumulative electric power** installed capacity from non-fossil fuel-based energy resources by 2030

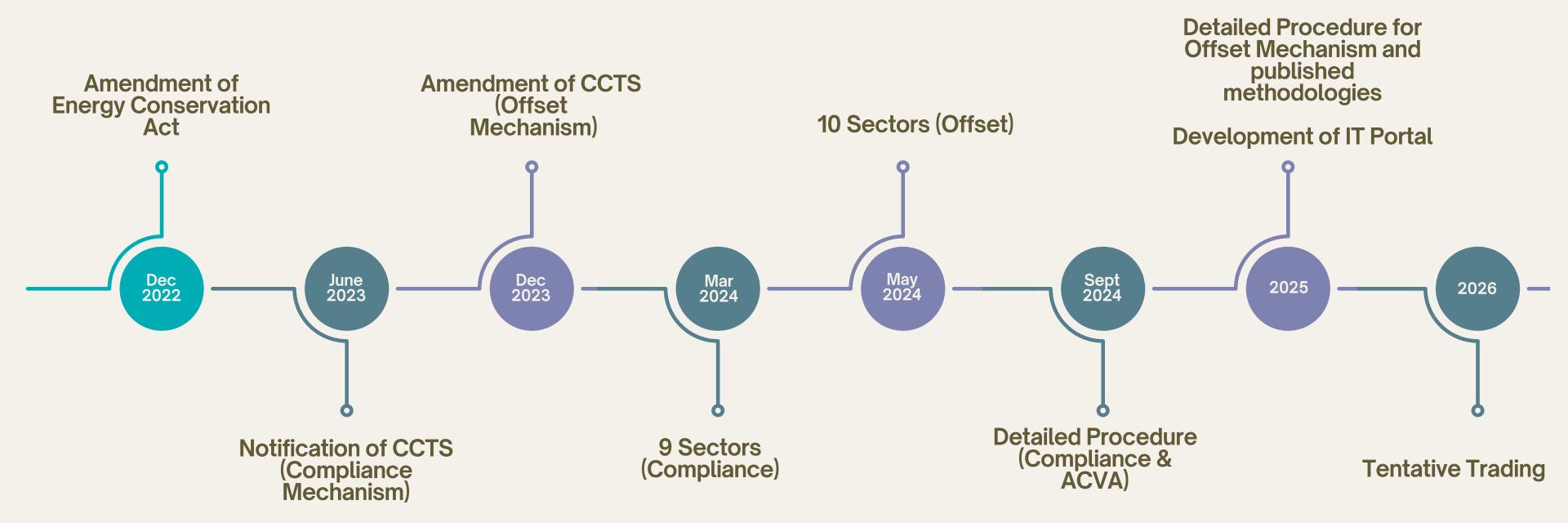


To put forward and further propagate a **healthy and sustainable way of living** based on traditions and values of conservation and moderation, including through a mass movement for 'LIFE'— 'Lifestyle for Environment' as a key to combating climate change.

<sup>\*</sup> The rest five contributions both - qualitative and quantitative remains same as India's Intended NDCs as submitted in October 2015

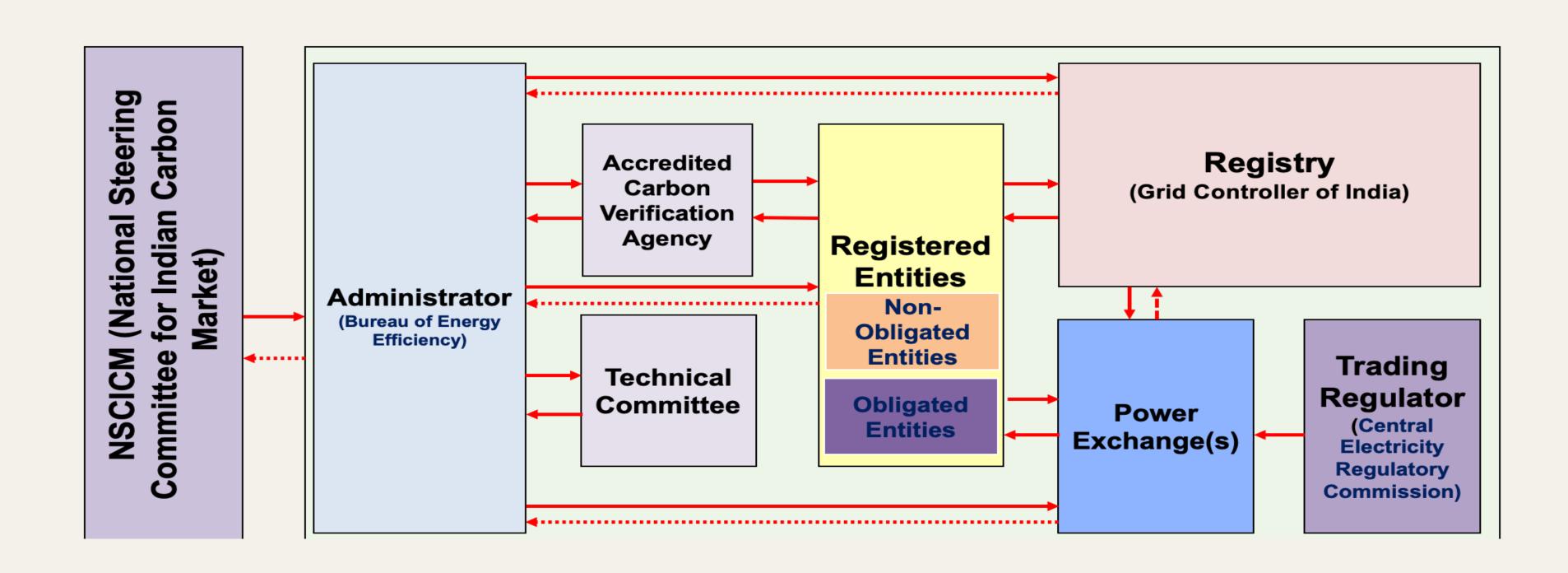


## Implementation Timeline





#### Institutional Framework



#### **NSC-ICM Governance**



Chairpersons











पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय MINISTRY OF **PETROLEUM AND NATURAL GAS** 



कोयला मंत्रालय **MINISTRY OF COAL** 



इस्पात मंत्रालय **MINISTRY OF STEEL** 



रसायन एवं उर्वरक मंत्रालय MINISTRY OF
CHEMICALS
AND FERTILIZERS





























Co-opted experts Shri Upendra Tripathy Shri R R Rashmi as experts



#### Mechanisms

COMPLIANCE MECHANISM

OFFSET MECHANISM



### Compliance Mechanism

"compliance mechanism" means a mechanism under this Scheme where the obligated entities shall comply with the greenhouse gas emission norms as notified by the Central Government;





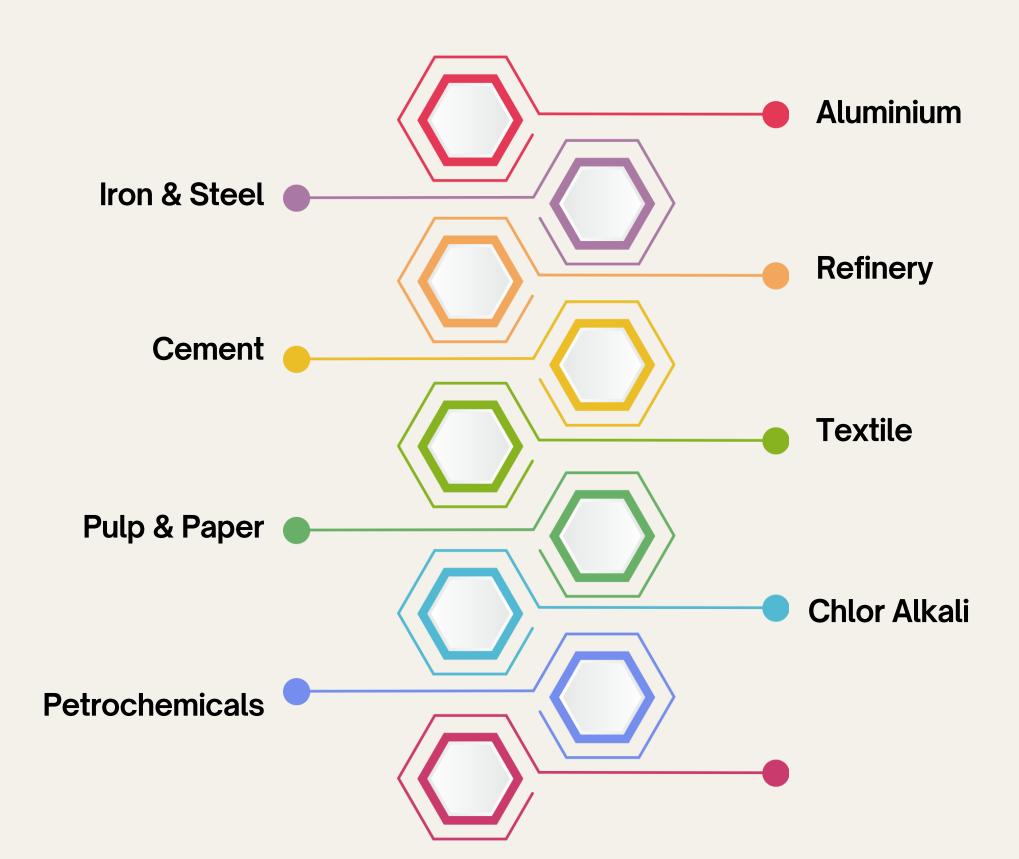
### Compliance Mechanism





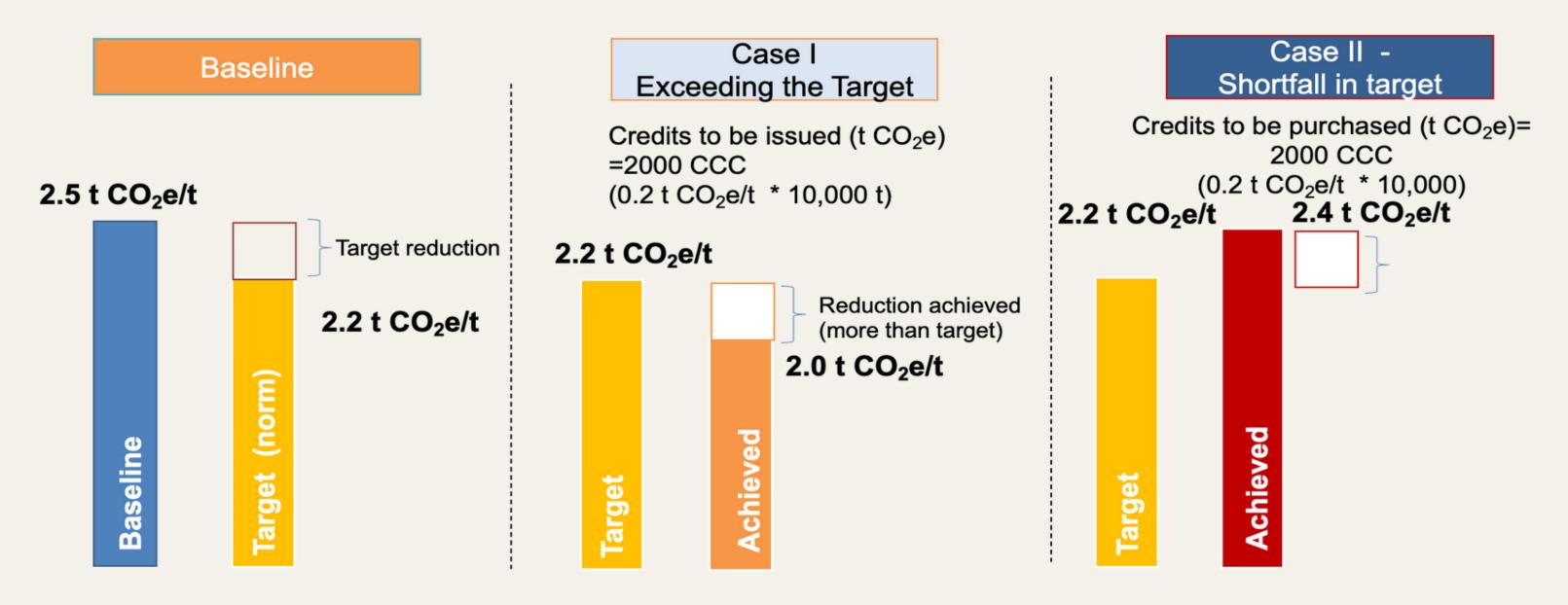
#### **Sectors Covered**





### Trading Mechanism





Production 10,000 t

Issuance/purchase of CCCs will be post verification



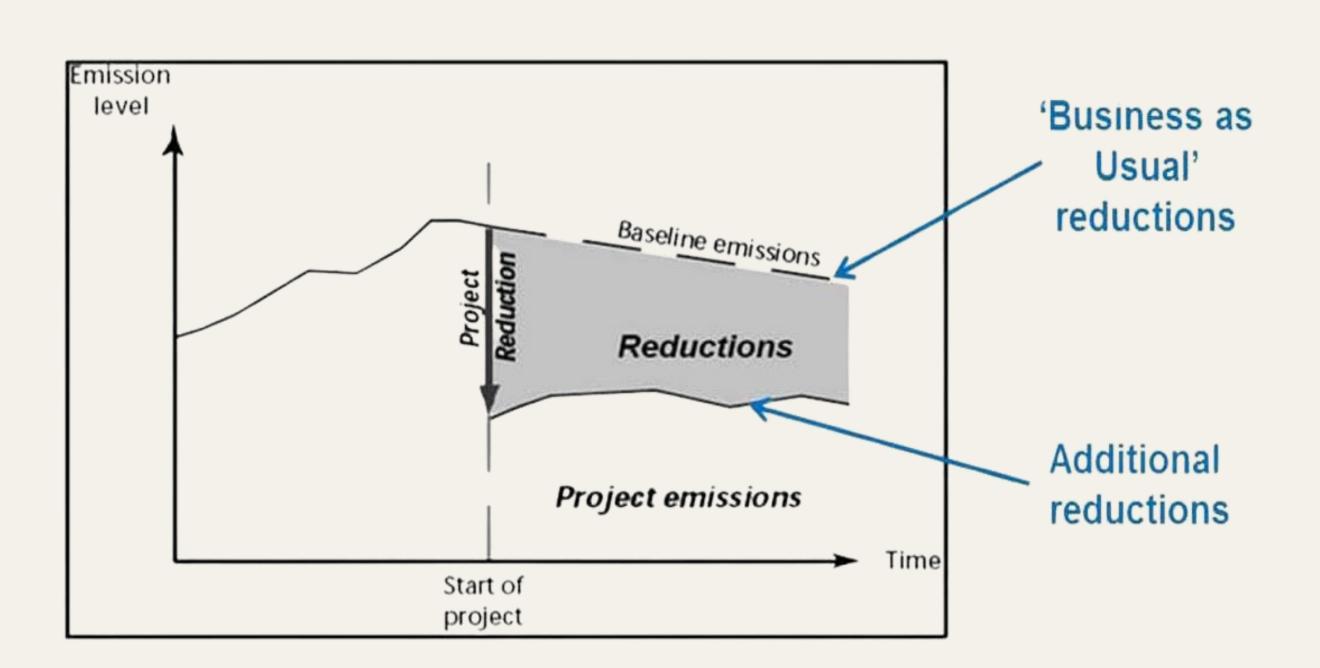
#### Offset Mechanism

**Emission Reduction** 

= Baseline Emissions – Project Emission



Carbon Credits (1 t CO2 reduction)





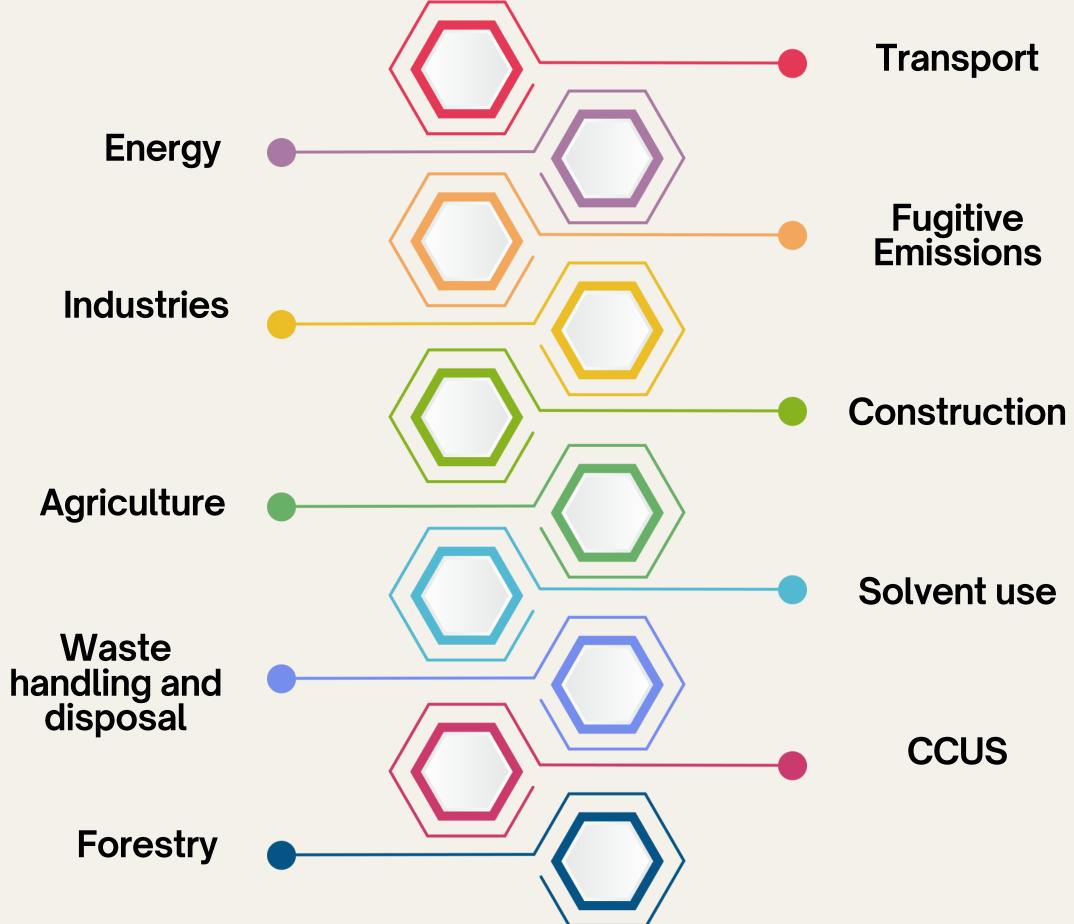
#### Offset Mechanism

Nature Voluntary Boundary Project Level Reduction must be beyond baseline Additionality scenario Scope Broad and diverse Against the baseline & Methodology Credits

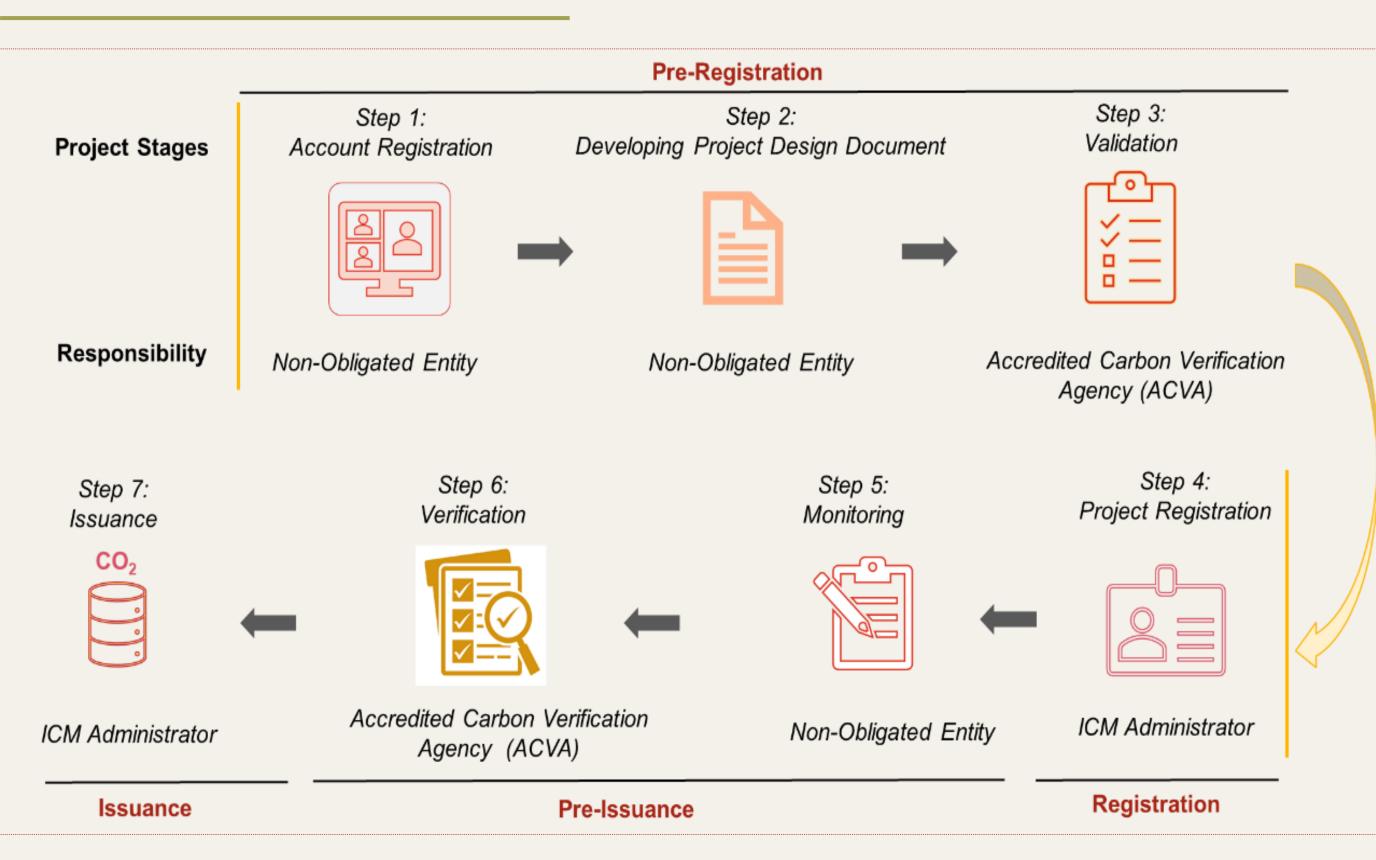


#### **Sectors Covered**





### Project Cycle Overview



Step 1: Any Entity can register their account on ICM portal

Step 2: Only Indian entities are eligible for project development and submission

Step 3: Third party i.e., ACVA to perform validation

Step 4: Administrator will register the project based on the approval of the Technical Committee

Step 5: Monitoring Report to be submitted by Non-obligated entity

Step 6: ACVA other than ACVA who perform validation to carry out Verification

Step 7: CCCs issuance by Administrator based on the recommendation of NSC-ICM and approval of Central Government

## Published Methodologies



S. No	Methodology	Sector	Methodology Name
1.	BM EN01.001	Energy	Grid-connected electricity generation from renewable sources
2.	BM EN01.002		Hydrogen production from electrolysis of water
3.	BM IN02.001	Industries	Energy efficiency and fuel switching measures for industrial facilities
4.	BM IN02.002		Hydrogen production using methane extracted from biogas
5.	BM WA03.001	Waste Handling	Landfill methane recovery
6.	BM WA03.002	and Disposal	Flaring or use of landfill gas
7.	BM AG04.001	Agriculture	Methane recovery from livestock and manure management at households and small farms
8.	BM FR05.001	Forestry	Afforestation and reforestation of degraded mangrove habitats
9.	BM FR05.002		Afforestation and reforestation of lands expect wetlands

### Methodologies Under Development – 13



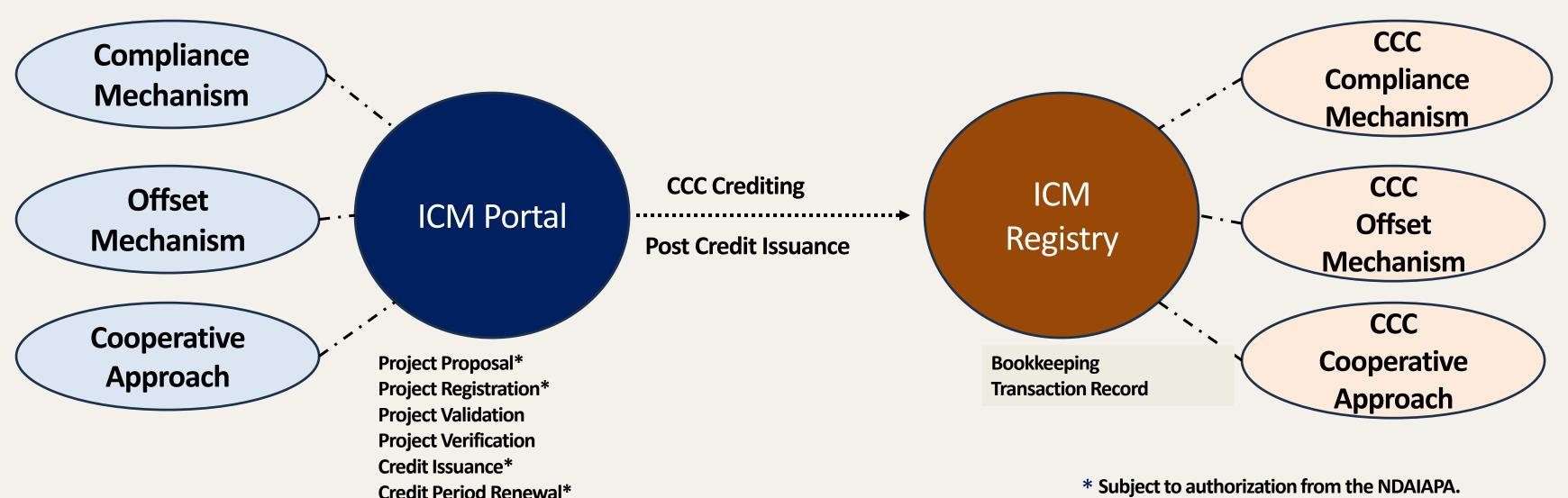
S. No	Sector	New Methodology
1.		Production & Use of Biofuels
2.		Bio Char
3.	Agriculture	Agricultural land management
4.		Methane emission reduction from rice
5.		Sustainable grass land management
6.		Modal Shift including waterways
7.		Electric Vehicles
8.	- Transport	Mass rapid transit (passenger)
9.		Electricity supply for ships
10.	Industries	Use of Biomass for Heat & Power
11.		Cookstoves
12.	Energy	Compressed Bio-Gas
13.	CCUS	Carbon Capture and Storage





Bureau has to develop and maintain the information technology infrastructure required for Indian carbon market.

The platform will consist of **two major** components, namely ICM Portal and ICM Registry.

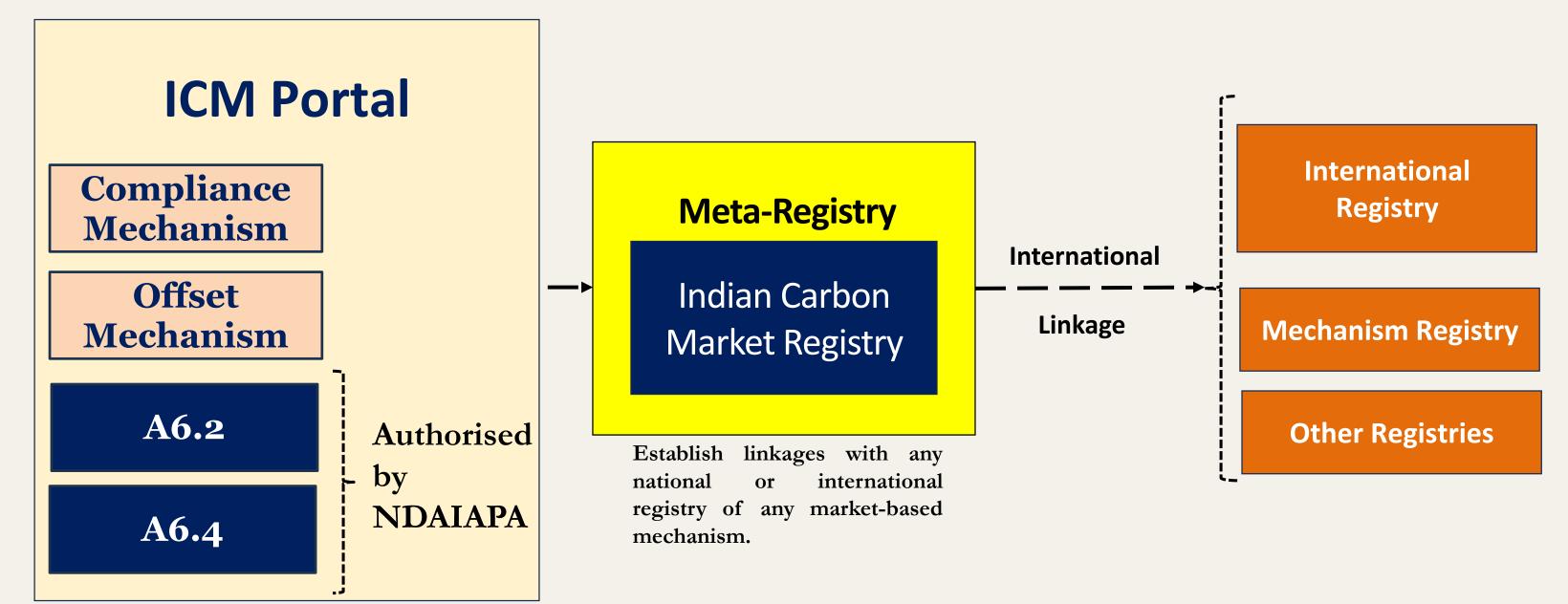


### **Meta Registry**



establishing the linkages with any national or international registry of any market-based mechanism.

Registry Interoperability record external transfers using a distributed ledger technology.







# Thank You

For Your Attention