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# India SMART UTILITY Week 2025

Domestic and Global Challenges in Energy Transition

Regulations for the Evolving Smart Energy Systems

## FRAMEWORK FOR INDIAN CARBON MARKETS

*Presented By*

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The United Nations finalised a global carbon trading deal in November 2024 in accordance with the Paris Agreement (2015)

The compliance mechanism for the government controlled carbon markets was agreed upon.



- The evolution of a framework for the Indian Carbon Markets is discussed.
- Sustainable business practices based on mitigation of greenhouse gases and adaptation are suggested.



- The challenges and opportunities posed by energy transition are relevant to these carbon markets.
- The environmental impacts of climate change are internalised through the structure of carbon markets.



- Carbon markets are a structured approach to deal with the problem of climate change. The Government of India is working towards a regulated carbon market.
- The **Bureau of Energy Efficiency (BEE)** is the administrator and the **Central Electricity Regulatory Commission (CERC)** is the Regulator.
- The rules for carbon trading have been notified through the **Green Credit Programme Implementation (GCPI)** and **Carbon Credit Trading Scheme (CCTS)**.
- An industry has targets for emission reduction and any enterprise unable to reach the target has to purchase **Carbon Credit Certificates (CCC)**.



India is committed to reach 500 Giga Watts of renewable energy by 2030 along its path of energy transition. Geopolitical tensions across the world have magnified the supply chain challenges. India is also taking care for the demand for energy by its mission LIFE propagating a sustainable lifestyle.

# Domestic and Global Challenges in Energy Transition

## continued....



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- Indian industry is faced with the **Cross Border Adjustment Mechanism (CBAM)** whereby the European Union will impose a **carbon tax** from January 1, 2026. A supportive environment by the government for the Indian economy to CBAM is suggested. Industry and other economic sectors of the Indian economy must follow sustainable business practices. Carbon markets are also contributing to sustainability.



- Key Takeaways / Recommendations: 2 slides (2 Mins)



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# THANK YOU

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