



Activities of Climate Change Division

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OUTLINE

1/ UNFCCC and Paris Agreement

2/ Domestic Plan & Programs

3/ International Mechanisms

4/ Issues

5/ Action to be Taken & Challenges

UNFCCC - International Cooperation

- **1992** Adopted; Aim limit global temp. increases & climate change
- **1997 Kyoto Protocol-** Annex I Parties: binding reduction targets
- **2009-2010 (Copenhagen & Cancun COP):** comprehensive system for collective action; developing countries (including India) announced voluntary mitigation pledges
- **2011 Durban COP:** ADP launched for evolving a new agreement for post-2020 period and addressing Pre-2020 mitigation gap
- **2013 Warsaw COP:** INDC concept developed
- **2015 Paris Agreement adopted**
- Gradually Developing countries have assumed greater responsibilities

Pre 2020 Action Framework

Kyoto Protocol (KP)

- **First commitment period:** 2008 – 2012 (Pledged to reduce 5% by 2012 compared to 1990)
- **Second commitment period:** 2013 - 2020. (Pledged to reduce 18% by 2020 compared to 1990). Many Annex I countries have not ratified KP 2 CP

India's Current Climate Change Pledge (Voluntary)

- **Target:** Reduce **emission intensity of GDP by 20-25%** by 2020 relative to 2005
- **Achievement:** **12% reduction** between 2005 & 2010; on course

Paris Agreement: Provisions

- **Objective:** To limit temp rise to 2 °C and make efforts towards 1.5 °C
- **Equity & Differentiation:** anchored across all pillars
- **Mitigation:** Aim for global peaking of emissions but peaking in developing countries to take longer; Developed countries to take lead
- **Adaptation & Loss and Damage:** a global goal anchored
- **Market Mechanism & REDD+:** provides scope for market based measures
- **Finance :** Developed countries to provide finance technology to developing countries; USD 100 bn target will be scaled up
- **New Technology Framework** established
- **Transparency:** framework to track both action and provision of support with flexibilities for developing countries

Paris Agreement Action Framework

- **NDC** : countries to submit Nationally determined contributions which will be country driven
- **5 year Cycle** : NDC submitted every 5 years; **no backsliding**
- **Global Stocktake** : to assess if actions are in line with objectives set; First stock take in 2023
- **Follow up Actions** : APA, SBI and SBSTA

Upcoming Meetings:

- September 22-23 Major Economies Forum (USA)
- October : BASIC Ministers meet (South Africa)
- October 6-7 segment Ministerial, Rabat
- Oct 17-18 Pre COP Marrakech
- November 7-18 COP 22 Marrakech

India's INDCs/NDCs

INDCs lay down 8 targets for 2021- 2030.

- Reduce **emissions intensity of GDP by 33-35 %** by 2030 over 2005 levels
- Achieve **40 % cumulative electric power installed capacity** from non-fossil fuel sources
- Create additional **carbon sink of 2.5 - 3 bn tonnes of CO₂ eq** through additional forest cover.
- Other 5 contributions on (i) sustainable lifestyles (ii) climate friendly growth path (iii) climate change adaptation (iv) climate change finance (v) capacity building and technology
- **INDC Implementation strategy** being chalked out - meeting held in June 2016
- **Mapping** of schemes having linkages with INDC initiated

Domestic Actions

Tools

- NAPCC – 8 missions, 4 new proposed
- SAPCC - 32 states have developed SAPCCs
- 4 States & UT yet to submit (Daman and Diu, Dadra and Nagar Haveli, Goa and Delhi)
- CCAP (2014)
- National Adaptation Fund, National Clean Environment Fund

Institutional Framework

- PM's Council on Climate Change - apex committee chaired by Hon'ble Prime Minister
- Last meeting - setting up new missions on wind energy, health, waste to energy, coastal areas
- Executive Committee on Climate Change - Chaired by Pr. Secretary to PM - monitor actions

Missions under NAPCC

Mission	Objective	Progress
Solar	20,000 MW of solar power by 2022 Now 1 GW by 2022	On track.
Enhanced Energy Efficiency	10,000 MW of EE savings by 2020	PAT being evaluated, others in progress.
Sustainable Habitat	EE in residential and commercial buildings, public transport, Solid waste management	SBM, Smart Cities and AMRUT
Water	Water conservation, river basin management	Work in progress.
Himalayan Ecosystem	Conservation and adaptation practices, glacial monitoring	Progress being made.
Green India	Increased forest/tree cover on 5 mha & improved quality of forest cover -5 mha	Work in progress.
Sustainable Agriculture	Drought proofing, risk management, agricultural research for adaptation	Work in progress – revisited key deliverables.
Strategic Knowledge for Climate Change	Vulnerability assessment, Research & observation, data management	Work in progress.

Climate Change Action Programme (CCAP)

Objective:

- Assessment of climate change, capacity Building at Central & State levels, formulate adequate response measures

Key Components:

- National Carbonaceous Aerosols Programme
- Long Term Ecological Observations
- Co-ordinated studies for North Eastern Region
- State Action Plan on Climate Change
- National Institute for Climate Change Studies & Actions
- International negotiations & contributions

National Adaptation Fund on Climate Change

Objective:

- To support concrete adaptation activities for states

Overall Vision

- To reduce the adverse impacts of climate change by building resilience and adaptive capacity of communities and sectors
- Mainstreaming Climate change adaptation into state plans
- Demonstration for scale up
- **12 Projects** approved - total cost of **Rs. 235.17 Cr** and amount released Rs.119 Cr 2015-16
- Maximum project cost Rs. 25 Cr
- For 2016-17: 4 projects approved costing Rs. 85.83 Cr.

International Mechanisms

Clean Development Mechanism

- Project based mechanism (KP)
- NCDMA (MOEFCC) : Approval accorded to 2978 projects

Green Climate Fund (GCF)

- USD 10.3 billion funds pledged 2.5 billion available
- National Designated Authority- MOEFCC

Adaptation Fund (under UNFCCC)

Bilateral cooperation

- UNDP, GIZ, DFID

Issues

Issues for Morocco COP-22

- Decision on guidelines for NDCs, transparency framework, registry
- Decision on process to identify information provided by developed Parties biennially on projected public finance
- Facilitative dialogue on Pre 2020 actions

Issues for Parliament

- Ratification of Paris Agreement
- Issues related to Paris Agreement Implementation
- INDC Implementation

Action to be Taken & Challenges

- Follow-up **actions on Paris Agreement**
- Preparations for **CoP-22 in Marrakech**, Morocco – Pavilion
- INDC Implementation
- Green Climate Fund – Strengthening of National Designated Authority (NDA) and Project preparation

Challenges

- Pre 2020 actions by developed countries
- Finance
- Technology transfer
- Enhance domestic capacities on Transparency /MRV
- Market mechanism
- Civil Aviation emissions



THANK YOU

Projects Sanctioned under NAFCC

States	Title of the Project	Total Cost (Rs. Cr) as per DPR
Punjab	Towards Climate Resilient Livestock Production System in Punjab” prepared under State Action Plan on Climate Change for financial assistance from National Adaptation Fund on Climate Change	17.40
Odisha	Water Conservation through runoff management to improve ground water recharge for vulnerability reduction and resilience enhancement in water basin of Nuapada district for climate adaptation	20.00
Himachal Pradesh	Sustainable Livelihoods of agriculture – dependent Rural communities in drought prone district of Himachal Pradesh through climate smart solutions.	20.00
Puducherry	Integrated Surface Water Management for Climate Resilient Agriculture through Rejuvenation of Traditional Tanks	16.76
Manipur	Model Carbon Positive Eco-Village in Phayeng of Manipur	10.00
Kerala	Promotion of integrated farming system of Kaipad in coastal wetlands of North Kerala	25.00

Projects Sanctioned under NAFCC

States	Title of the Project	Total Cost (Rs. Cr) as per DPR
Tamil Nadu	Management and rehabilitation of coastal habitats and biodiversity for climate Change Adaptation and Sustainable Livelihood in Gulf of Mannar, Tamil Nadu, India	24.74
Chhattisgarh	Climate Adaptation Strategies in Wetlands along Mahanadi River Catchment areas in Chhattisgarh	21.47
Jammu & Kashmir	Climate Resilient Sustainable Agriculture in Rain – Fed Farming (Kandi) Areas of Jammu & Kashmir	22.51
Telangana	Resilient Agricultural Households through Adaptation to Climate Change in Mahbubnagar district, Telangana.	24.00
Meghalaya	Spring-shed development works for rejuvenation of springs for climate resilient development in the water stressed areas of Meghalaya	22.91
Mizoram	Sustainable Agriculture Development through Expansion, Enhancement and Modelling in the state of Mizoram	10.38

India Pavilion & Launch of Parampara (COP-21)

- India Pavilion: hosted over 25 events, attracted over 6700 visitors
- Release of 'Parampara' – book on traditional Indian climate friendly lifestyle by Hon'ble PM



Launch of 'Ecology of our worlds: views on climate and the environment'; a Book of Quotes



Launched at COP-21 by Hon'ble Prime Minister Narendra Modi and French President Francois Hollande.

