Building Resilience to Climate Change in India

inistry of Environment, Forest and Climate Change

Global Context

2 of UNFCCC

bilize GHG concentrations to prevent dangerous hropogenic interference with the climate system.

be achieved within a time-frame sufficient to:

allow ecosystems to adapt naturally to climate thange.

ensure that food production is not threatened; and enable economic development to proceed in a sustainable manner.

ate Change Adaptation & Building Resilience

e strategies and implement actions with a view to:

duce impacts of climate change, and help manage risks;

orove livelihoods, social &economic well-being, and responsible vironmental management.

nance capacity of social, economic and environmental systems disturbance infrastructure to cope with hazardous event, trend, disturbance e. Adapt, learn and transform while maintaining essential action/identity/structure);

limate Resilient Strategy: ey components/challenges

essment

Identify vulnerabilities of communities and eco-systems and make impact assessment;

Design dedicated programmes, projects and systems, where necessary, to address impacts, conserve/develop natural resources and manage future risks;

Mainstream adaptation concerns in ongoing/new policies and programmes.

acity

Build capacity to assess impacts;

Strengthen Community based institutions;

Design/implement adaptation programmes at various levels-Centre, state, communities, civil society;

Disseminate/communicate climate change information.

ources

Mobilise and allocate financial resources.

dia's Nationally Determined Contributions

- To put forward & further propagate a healthy and sustainable way of living based on traditions & values of conservation & moderation.
- To adopt a climate friendly & cleaner path than the one followed.
- To reduce emissions intensity of its GDP by 33 to 35 percent by 2030 from 2005 level.
- To achieve about 40 percent cumulative electric power installed capacity from non-fossil fuel based energy resources by 2030.
- To create an additional carbon sink of 2.5 to 3 billion tonnes of CO₂ equivalent through additional forest and tree cover by 2030.
- To **better adapt** to climate change by enhancing investments in development programmes in **sectors vulnerable to climate change**.
- To mobilize domestic and new & additional funds from developed countries.
- To **build capacities**, create domestic framework and international architecture for quick diffusion of cutting edge climate technology.

Framework for Climate Action in India

2008: National Action Plan on Climate Change

3 National Missions

State Action Plans: By now, 33 states/U.Ts have SAPCCs

ndia's NDCs submitted under Paris Climate Agreement (2015). 8 goals (3 quantitative) covering mitigation, adaptation, finance, echnology development & transfer and capacity building;

Focus on -mitigation and adaptation goals with verifiability;

Ongoing National Missions

stainable Agriculture

stainable Habitat

ater

staining the Himalayan Ecosystem

rategic Knowledge

AGRICULTURE

- ssion for Integrated Development of Horticulture
 ational Food Security Mission
 aramparagat Krishi Vikas Yojna
 ational Mission on Agricultural Extension & Technology
 ational Initiative on Climate Resilient Agriculture
 ICRA)
- il health card and mobile soil-testing laboratories
- ational Agro-forestry Policy

WATER

National Water Mission

Pradhan Mantri Krishi Sinchayee Yojna

Neeranchal

National Mission for Clean Ganga

Accelerated Irrigation Benefit Programme

Proposed National Missions

Ind Energy Mission: To increase share of wind energy in dia's energy mix - [Ministry of New and Renewable Energy]

Iman Health Mission: To address issues related to adverse fects of climate change on human health through propriate mitigation and adaptation measures - [Ministry Health and Family Welfare]

tastal Areas Mission: Integrated coastal resource anagement planning and vulnerabilities mapping along tire 7000 km long shoreline- [MoEF&CC with scientific & chnical support of MoES]

COASTS

New Coastal Mission under NAPCC

- Composite Hazard Line mapping
- Mapping of low lying coastal areas
- Assessment of current SLR using long term tide gauge observations
- Island Protection Zone (IPZ) Notification 2011
- Integrated Coastal Zone Management (ICZM)
- Mangroves for the Future (MFF)
- Coastal Regulation Zone (CRZ) Notification 2011

DISASTERS

National Cyclone Risk Mitigation Project

National Plan for Disaster Management

Urban Flood Mitigation

Centrally Sponsored Scheme of Strengthening of

state Disaster Management Authorities (SDMAs)

District Disaster Management Authorities (DDMAs)

National Disaster Management policy in 2009

State and National Disaster Response Fund

National Disaster Response Force

State Action Plan on Climate Change

he objective is to create institutional capacities and nplement sectoral activities to address climate change

lans include current and future State's climate change cenarios and likely impact of climate change

lans are focussed on adaptation in sectors such as water, griculture, tourism, forestry, transport, habitat, energy, etc, ith mitigation as co-benefit

o far, 33 States and UTs have submitted their SAPCC to oEF&CC

NDC: Roadmap

Setting up of Guidance/approval Committees and interministerial consultations

mplementation Committee

Six Sub committees on Mitigation; Adaptation; Finance; Forestry; Technology and Capacity Building; Transparency, Compliance and Legal aspects

Mapping of schemes and programmes of key Ministries and Departments

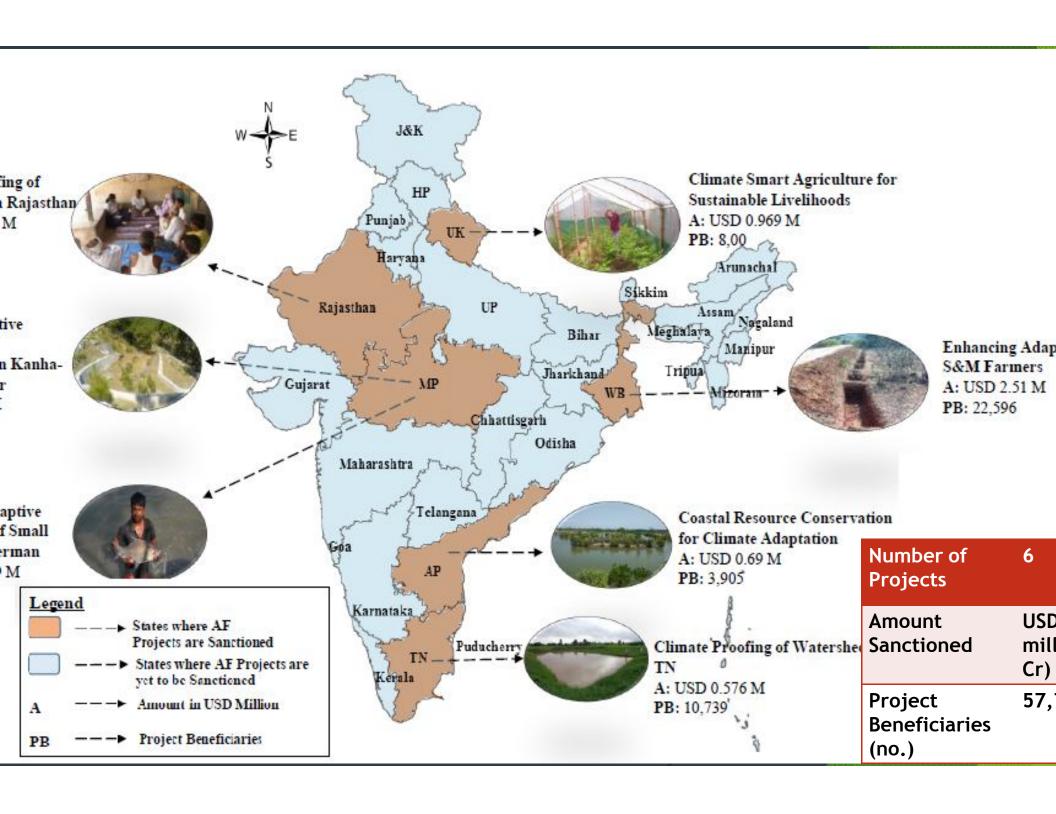
Schemes/programmes having significant mitigation impact potential and its co-benefits (addressing NDC nos. 3, 4 and 5).

Schemes/programmes having significant adaptation impact botential (addressing NDC nos. 1, 2, 6, 7 and 8).

Dedicated Domestic Finance

- National Adaptation Fund for Climate Change (NAFCC)
- Climate Change Action Programme (CCAP)
- National Clean Energy Fund (NCEF)

hank you



NAFCC Projects

•	State	(INR Cr.)
	Punjab	17.4
	Odisha	20
	Himachal Pradesh	20
	Manipur	10
	Tamil Nadu	24. 74
	Kerala	25
	Mizoram	10.38
	Chhattisgarh	21.47
	Jammu and Kashmir	22.52
	Meghalaya	22.92
	Telangana	24
	Puducherry	16.76
	Karnataka	24.22
	Andhra Pradesh	19.83
	Madhya Pradesh	24.88
	Haryana	22.1
	West Bengal	23.12
	Assam	24.5 7
	Total	272.01

Climate Finance FLOWS

PRIVATE

MULTILATERAL World Bank, ADB etc

BILATERAL as part of ODA

within the context of UNFCCC

DOMESTICALLOCATIONS

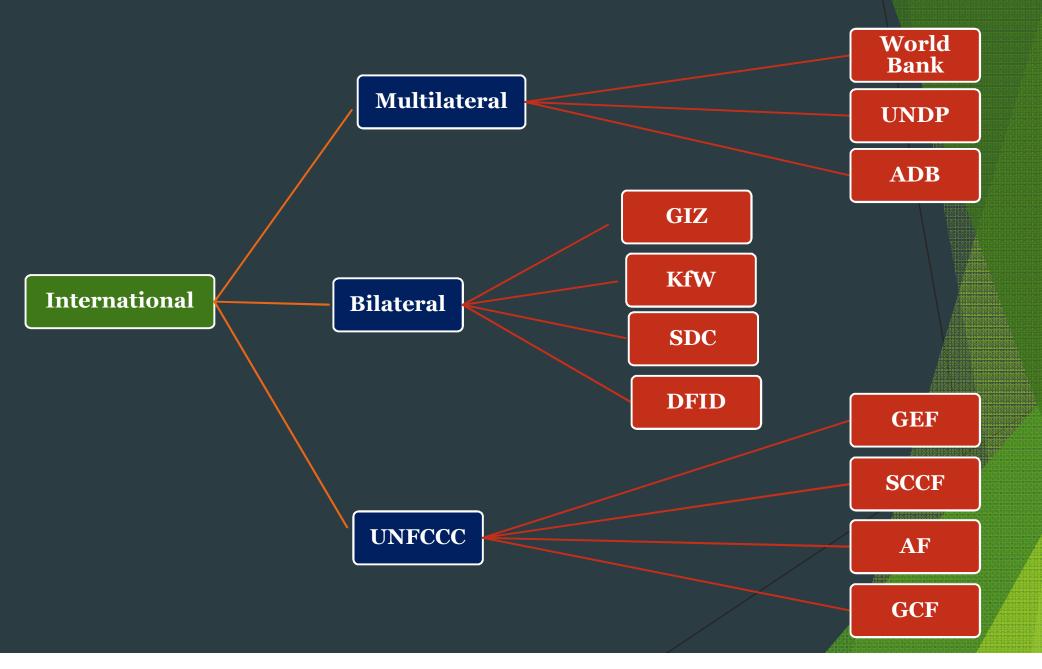






DEVELOPING COUNTRIES

International Financing Mechanism



National Adaptation Fund on Climate Change

AFCC: Govt. of India's scheme to scale-up climate change laptation interventions

igned with the relevant Missions under NAPCC and the SAPCCs assed on climate scenario and vulnerability analysis and build apacity of stakeholders to adapt to climate change through arious initiatives and lesson learning

Idget provision: INR 350 Crores for F.Y. 2015-16 & FY 16-17

nchored by MoEFCC with representation from line ministries

ational Implementing Entity (NIE): NABARD

Climate Change Action Programme

- create and strengthen scientific and analytical capacity, stitutional framework and implement climate related actions at attional and state level
- nancial support for SAPCC preparation @ Rs 10 lakhs to State vernments
- apacity building projects: 3 demonstration projects approved
- Punjab: Utilization of paddy straw as fuel to replace fossil fuel (Rs 3.54 crores)
- Tamil Nadu: Improving ecosystem services and fisherman livelihood (Rs 67 lakhs)
- Madhya Pradesh: Enhancing Adaptive Capacity to Climate Change through Conservation of Traditional Water Supply Sources (Wells and Bawdies) of Indore City (Rs 4.32 Cr.)

National Clean Energy Fund

- Set up for funding research & innovative projects in clean energy and environment initiatives
- Being operationalized by Department of Expenditure, M/o Finance
- Financed by a coal cess of INR 400 per tonne of coal (both domestic & imported)
- Proposals to be submitted to the concerned line Ministry first, which will be submitted for consideration of Inter Ministerial Group chaired by Finance Secretary
- Projects formulation based on the prescribed guidelines available in website of the D/o Expenditure