





CDM and **NAMA** in India

looking back (1) and looking forward (2)

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Background

- The first commitment period of Kyoto Protocol has ended right time to review and assess the future options
- HCA given by MoEF on the basis of PDD demonstrating that the proposed project meets the Sustainable Development criteria
- However, lack of information on SD impacts; no study exists with primary data
- Conflicting opinions on Sustainable Development Impact of CDM

MoEF requested GIZ to conduct the Study on Impacts of CDM and future scenarios

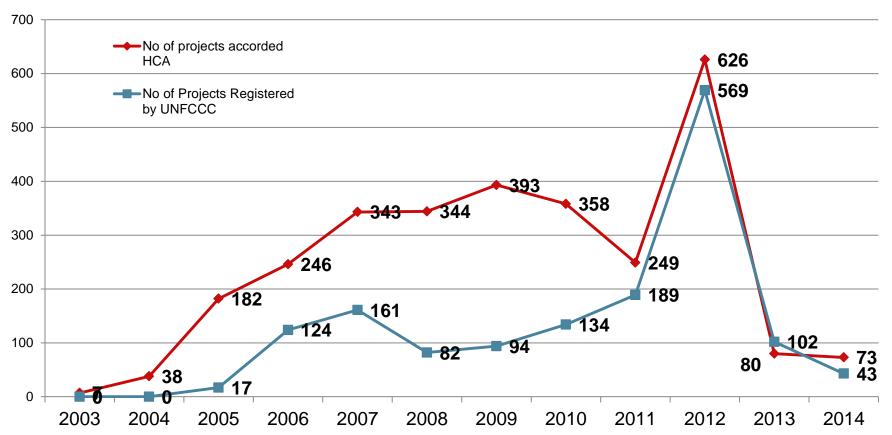






Number of HCA and UNFCCC registration India/ Year

(October 2014)



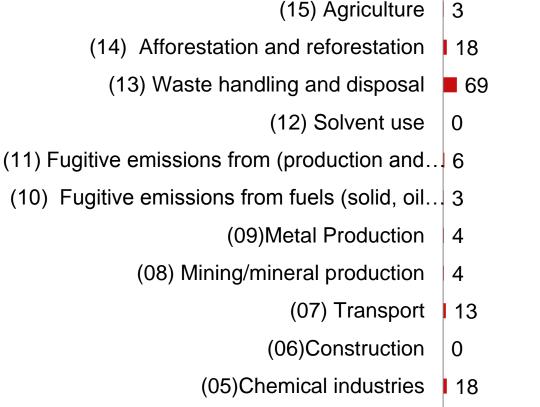
Total HCA: 2938 Projects Total UNFCCC: 1528 Projects

Approx. INR 160,000 Cr Investment Approx. CER 196 Million generated









(04)Manufacturing industries

(01)Energy industries (renewable-/ non-...

(03)Energy demand

(02) Energy distribution

Sectoral distribution of Projects (2014)

Market driven vs. policy driven

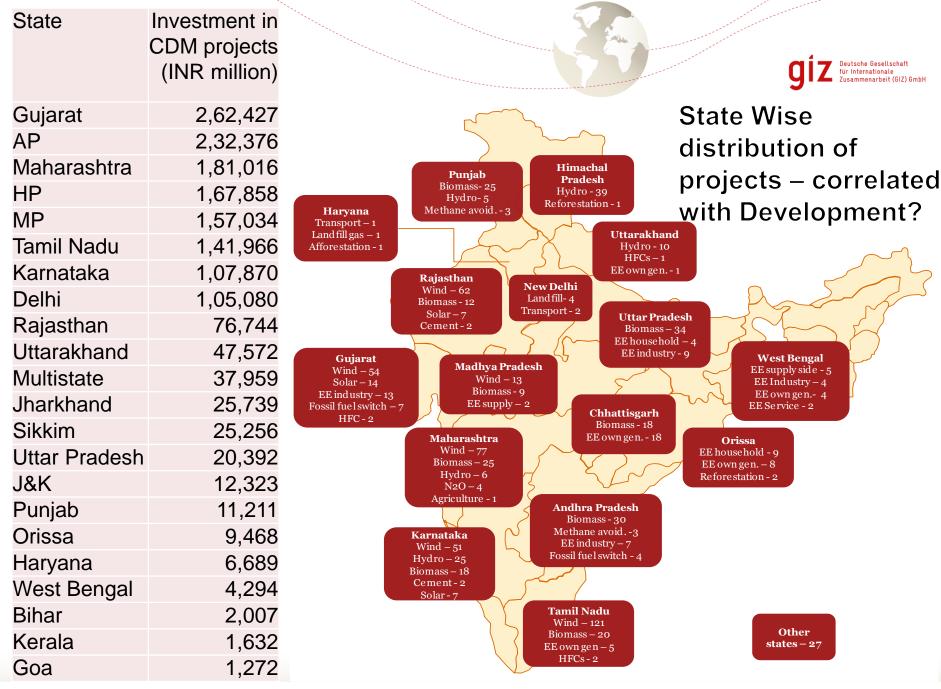
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Other

states - 27





Process of assessment

Identification of Sustainable development Questionnaire sustainable development *Indicators for the study* indicators **PDDs Dimensions** Studies on CDM & SD Indicators (Is) UNFCCC's SD study Common Questionnaire Sub-indicators (SIs) MoEF's SD indicators Project specific supplement Absolute Questionnaire disbursed to Data reporting all project proponents collation, (737 projects registered Site visits, Scoring & till 31 July 2011 and FGDs ranking





Sustainable development indicators

(as per MoEF and UNFCCC Guidelines)

Dimension	Indicator		
	Direct/indirect financial benefit for the local and/or regional economy		
Economic (20)	Local/regional jobs generated directly/indirectly		
	Investment in the local/regional infrastructure		
Environment (32)	Efficient utilization of natural resources		
	Reduction in noise, odors, dust or pollutants		
	Improvement and/ or protection of natural resources		
	Available utilities (supplying more or making use of less energy)		
	Promotion of renewable energy		
Social (12)	Labour conditions and/or human rights		
	Promotion of education		
	Health and Safety		
	Poverty Alleviation		
	Engagement of local population		
	Empowerment of women, care of children & frail		
Technological (4)	Adoption of new local/imported technology		







Categorization of SD benefits

Intrinsic Benefits: The sustainable development benefits from projects that occur due to the inherent nature of the activity.

Secondary Benefits: The sustainable development benefits due to community development activities undertaken by the project proponent in the vicinity of the project.

Example to illustrate the categorization

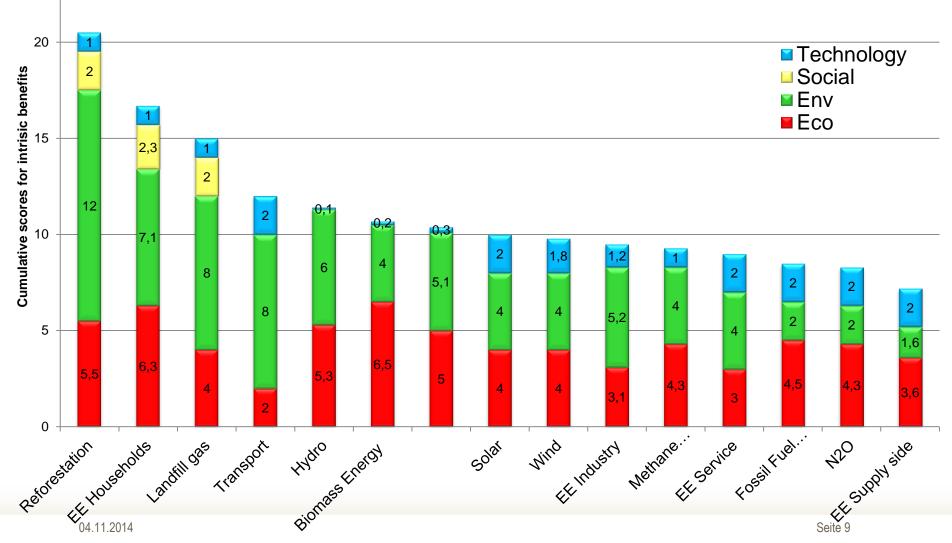
Type of project	Intrinsic benefits	Secondary benefits
Wind energy project	 Promotion of renewable energy (Environment) Creation of jobs for the project activity (Economic) 	 Building of hospitals or schools for communities (Economic and Social) Conducting health camp in local areas (Social)
Efficient cook stoves project	 Health benefits due to reduction of smoke (Social) Reduced drudgery on women as they need not walk to far away areas for fuel wood (Social) 	 Supporting education for women (Social) Conducting community health check-ups over and above the project (Social)









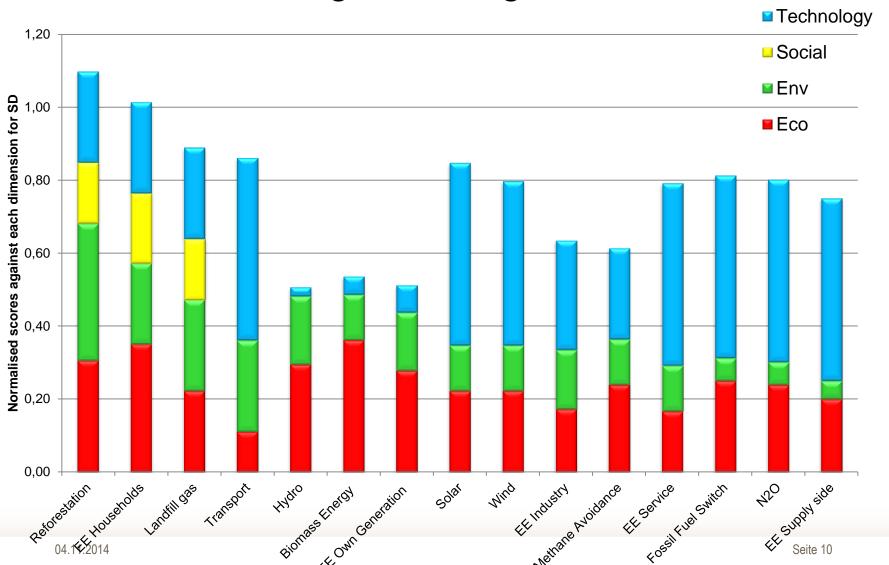








SD after normalizing scores against each dimension





Recommendations



- Framework for SD impact reporting for future actions
 - SD impact monitoring system for future actions (first step MIS)
 - Mandate the projects to spend the 2% of their CER revenues SD projects
 - Best practices for individual sector projects should be made available
- Constitute a high level advisory group for policy advice on e.g. SD Impact, Equity, Loss and Damage, etc
- Develop domestic emission trading scheme
 - Domestic trading schemes for priority sectors / priority projects
 - The scheme could be supported by corporates who wish to voluntary off set their emissions or supported by the CSR funds or by Gol with National Clean Energy Fund
- Develop NAMAs building upon existing mitigation schemes while making use of CDM experience
 - Analyse existing schemes, develop national NAMA framework and selection criteria, make use of the CDM experience







Looking Forward

Nationally Appropriate Mitigation Actions (NAMA)







Indo-German Technical Cooperation project:

Supporting the Development and Management of NAMA in India

Indian Partner: Ministry of Environment, Forests and Climate Change, Time

period: 09. 2013 – 08. 2017 (4 Years) Budget: 3 Mio Euros

The Indian Government has started using NAMAs as a potential mechanism for GHG mitigation and a NAMA cell in the Ministry of Environment and Forests provides technical support to relevant stakeholders.

Component I

Development NAMA in Waste and Forest Sector

Component II

Development of MRV System for the NAMA Component III

MoEF NAMA Cell support

Cross Cutting: Stakeholder involvement for long term sustainability Capacity building and facilitation of private sector cooperation







Nationally Appropriate Mitigation Actions – NAMA

Concept created in the Bali Action Plan (2007) at COP13 to denote [voluntary] mitigation actions by developing countries after 2012

"Nationally appropriate mitigation actions' by developing country Parties in the context of sustainable development, supported and enabled by technology, financing and capacity building, in a measurable, reportable and verifiable manner."

Categories:

- Unilateral/ domestic
- Supported
- Credited
- Mixed/ hybrid







Identifying NAMAs from domestic policies

National Action Plan on Climate Change

 Specifically the 4 missions closely related to climate change mitigation

State Action Plans on Climate Change

 (Many Indian states and UTs have developed detailed action plans

NAMA submission ideas for India

Other schemes

- National Clean Energy Fund
- National Electric Mobility Mission Plan 2020
- CDM projects
- Others

Growth plans

- 12th five year plan
- Low carbon growth strategy of Planning Commission





Summary of potential NAMAs (selected few)

Sectors













NAMA title

- Jawaharlal Nehru National Solar Mission
- National Tariff Policy
- National Clean Energy Fund
- National Wind Energy Mission
- Super efficient equipment program
- National Mission for a Green India
- Compensatory Afforestation Fund
- Carbon credit programme for afforestation
- PAT scheme, NMEEE
- Market transformation for Energy Efficiency
- Energy efficiency financing scheme
- Framework for EE Economic Development
- National Electric Mobility Mission Plan 2020
- Vehicle fuel efficiency scheme
- Improving efficiency of freight transport
- Mass transport projects
- National Mission for Sustainable Habitat
- Green building codes

Source/scheme

- National Action Plan on Climate Change
- Electricity Act
- Ad-hoc scheme; through coal cess
- Proposed in 12th 5 year plan
- Proposed in 12th 5 year plan
- National Action Plan on Climate Change
- Ad-hoc scheme
- Proposed in 12th 5 year plan
- All four through National Action Plan on Climate Change
- Ad-hoc mission by Dept. of Heavy Industries
- Program proposed by BEE
- Started implementation through 11th 5 yr plan
- Ad-hoc schemes (JNNURM, metro rail, etc.)
- National Action Plan on Climate Change
- Ad-hoc programs by various agencies





Sustainable development potential of identified NAMAs

Abatement cost

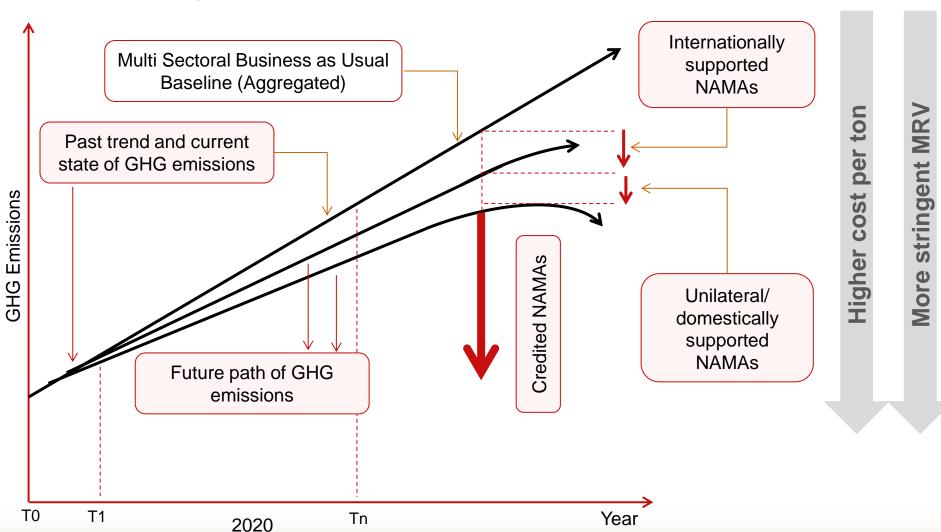
Sustainable development potential

Abatement cost	Sustainable development potential					
. 8	NAMA	Social	Eco	Env	Tech	
2 00 2 m	Jawaharlal Nehru National Solar Mission					
00 500 100 500 Market	National Tariff Policy					
	National Clean Energy Fund					
	National Wind Energy Mission	1				
. B	Super efficient equipment program					
<u>₹</u> 9	National Mission for a Green India					
8	Compensatory Afforestation Fund				•	
8 25	Carbon credit programme for afforestation				•	
5 8	PAT scheme, NMEEE					
1	Market transformation for Energy Efficiency					
	Energy efficiency financing scheme					
	Framework for EE Economic Development	•				
	National Electric Mobility Mission Plan 2020					
, in the second second	Vehicle fuel efficiency scheme					
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	Mass transport projects					
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8 8 8 8 8 9 9 9 8 9 8 9 8	Green building codes					





Another way to look at NAMAs

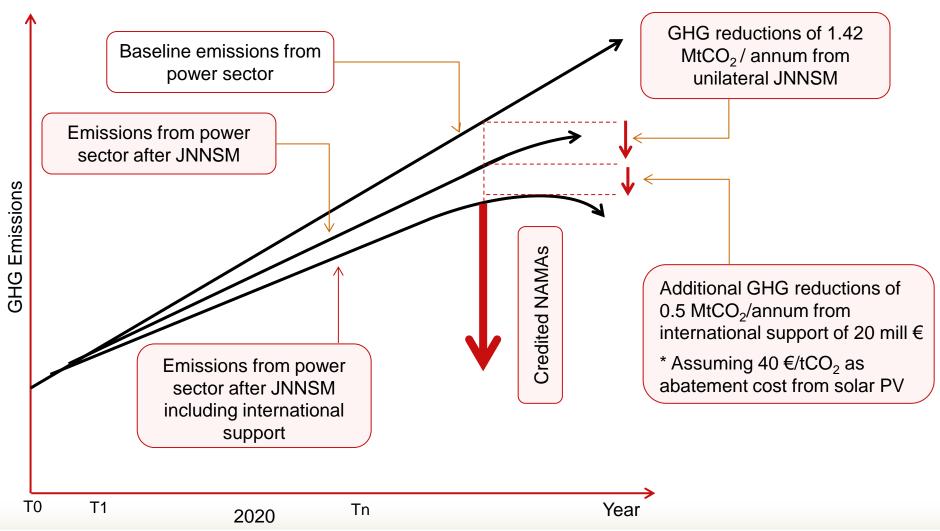


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JNNSM in case of international support



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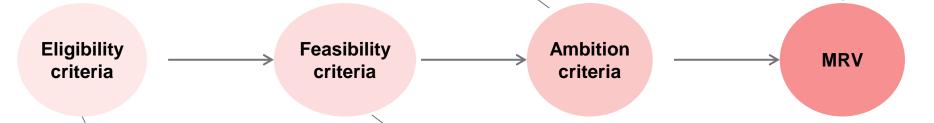


Possible selection criteria for NAMAs



- Sustainable development co-benefits economic, environmental, social, technological and improvements in institutional arrangement
- Potential for additional GHG mitigation
- Leverage potential/ financial ambition
- Sectoral transformation
- Regional transformation

- Key performance indicators
- Monitoring methodology
- Institutional arrangement
- Reporting schedule
- Verification methodology
- Alignment with international verification requirements



- NAMA title, type
- NAMA proponent & supporter
- Host country support
- Duration
- Sector (to be selected from list)
- Technology
- Geographical reach & national appropriateness
- Mitigation potential
- Support requested financial, technological, capacity building

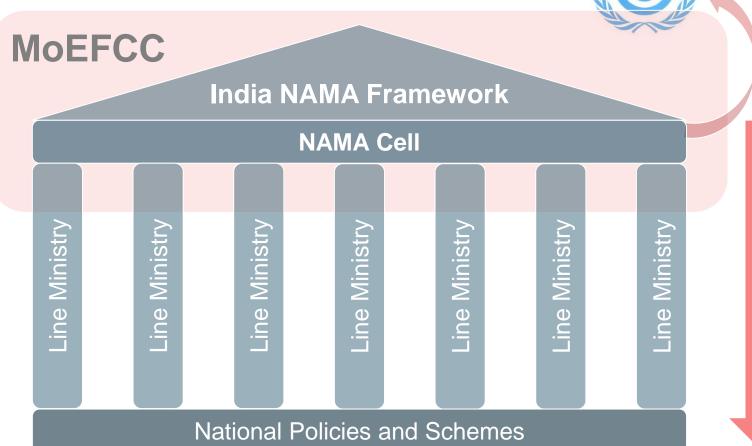
- NAMA concept and rationale
- Institutional policies & regulatory frameworks
- Stakeholder involvement
- Starting situation
- Implementation methodology, NAMA outputs & outcomes
- Current state of implementation
- beneficiaries
- Barriers & risks
- Financial resources, funding status and sources







Possible India NAMA Framework



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Proposals

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Helpdesk, guidelines







Thank you!

Contact

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