



From TNAs to Low Carbon Development Strategies (LCDS) and Nationally Appropriate Mitigation Actions (NAMAs)

Dhar, Subash

Publication date: 2012

Document Version
Publisher's PDF, also known as Version of record

Link back to DTU Orbit

Citation (APA):

Dhar, S. (Author). (2012). From TNAs to Low Carbon Development Strategies (LCDS) and Nationally Appropriate Mitigation Actions (NAMAs). Sound/Visual production (digital)

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.





Technology Needs Assessments

(A GEF Funded UNEP Project)

From TNAs to Low Carbon Development Strategies (LCDS) and Nationally Appropriate Mitigation Actions (NAMAs)

Subash Dhar
UNEP Risoe Centre

Experience Sharing Workshop
Bangkok
10-12 September 2012
Bangkok, Thailand





Contents

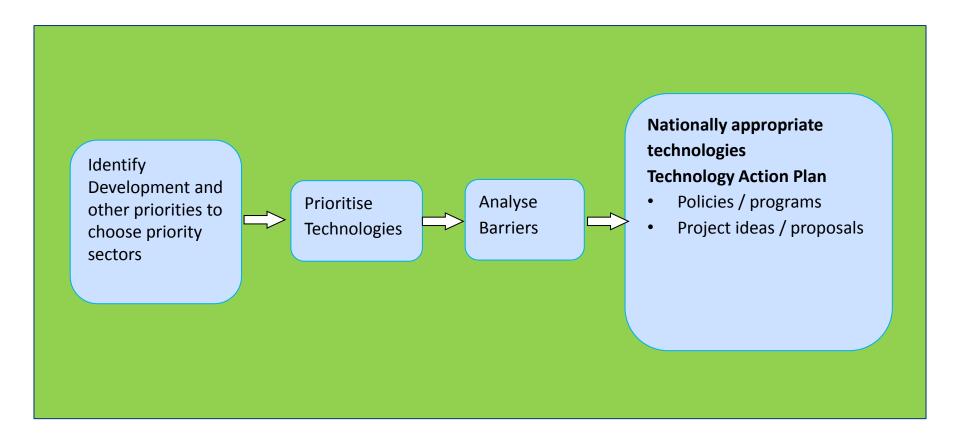


- TNA Process
- Outputs of Current GEF-TNA
- Framework for relating TNA with LCDS and NAMA
- Conclusion









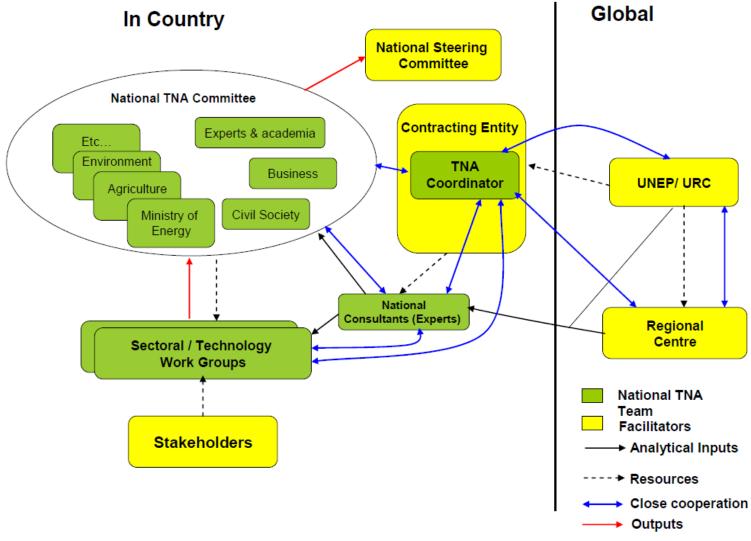




Institutional Structure for TNA



ENERGY, CLIMATE AND SUSTAINABLE DEVELOPMENT

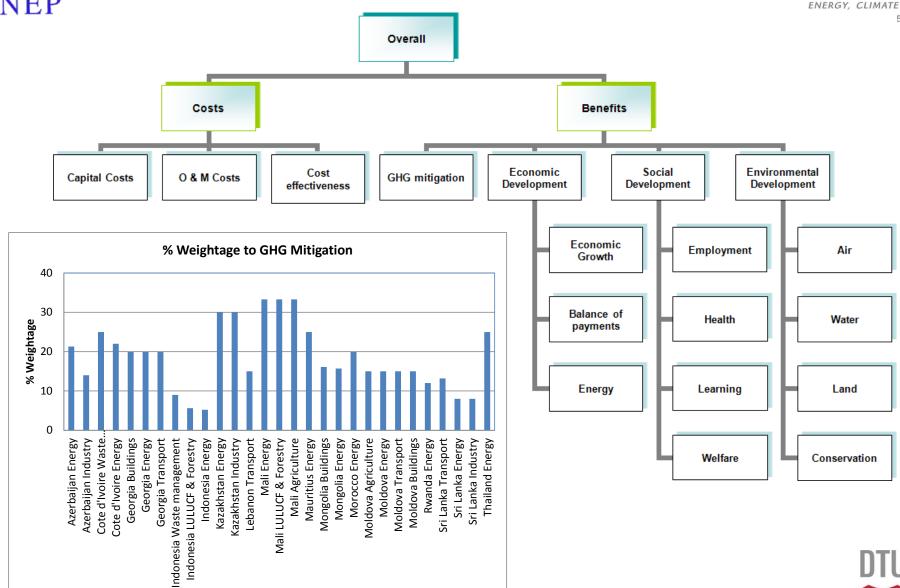






Multi Criteria & Mitigation





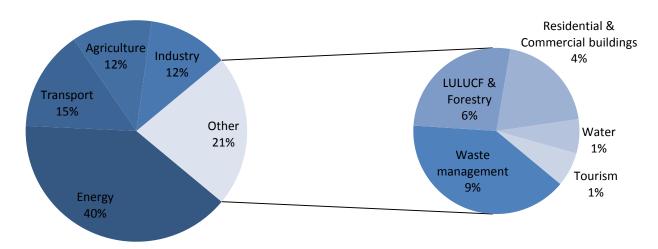


Sector prioritised by countries

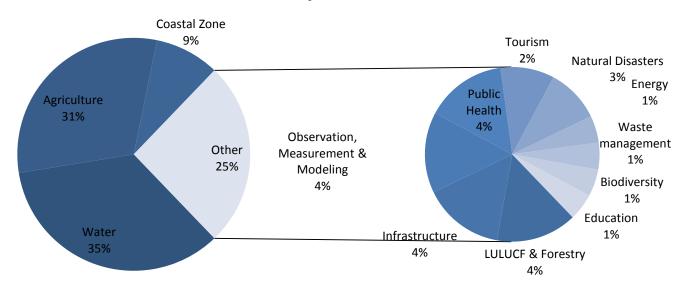


DEVELOPMENT

Prioritized Mitigation Sectors



Prioritized Adaptation Sectors







Technologies prioritised by countries (Preliminary assessment)



Most prevelant prioritized mitigation technologies:

- Solar PV
- Hydro power
- Wind energy
- Combined heat and power
- EE lighting
- EE buildings
- Mode shifts (Transport)
- Urban Mass Transit
- Biogas
- Tillage practices

Most prevelant prioritized adaptation technologies:

- Sprinkler and Drip Irrigation
- Rainwater Harvesting
- Rainwater Collection from Ground Surfaces - Small Reservoirs and Microcatchments
- Wetland restoration
- Increased reservoir technology
- Sustainable Livestock management
- Agro-forestry
- Biotechnology for Climate Change Adaptation of Crops
- Crop diversification and New Varieties
- Seasonal to Inter-annual Prediction





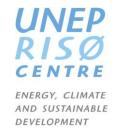
TNA Outcomes



- Nationally appropriate technologies
 - Though information on scale of implementation not clear
 - Pure carbon measures like CCS also generally ignored
- National appropriate Policies / programs that enable these technologies
- Project ideas related to technologies / programs







NAMA definition

"developing country parties will take <u>nationally appropriate mitigation</u> <u>actions (NAMAs)</u> in the context of <u>sustainable development</u>, supported and enabled by technology, <u>financing</u> and capacity building, aimed at achieving a deviation in emissions relative to business as usual emissions in 2020"

Cancun Agreements

MRV International Tier

- 1. National Communications (NC) every 4 years and Biennial reports (BER) every 2 years
 - Biennial reports Measurement (M) and Reporting (R) part of NAMA
- 2. International Consultations and Analysis (ICA) by technical experts
 - Analysis of information in BER

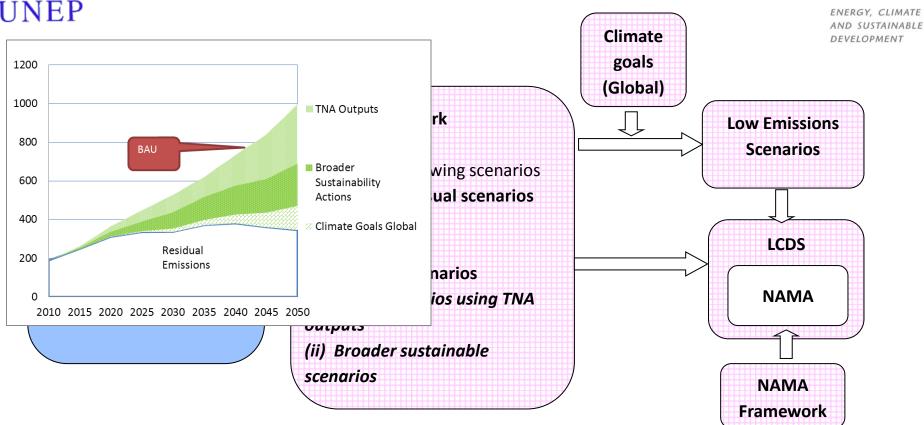
(Sharma, S, 2012)





LCDS Framework using TNA Outputs





TNA outputs are in blue whereas additional elements / methodologies which are required for NAMAs and LCDS are shown in pink





PRIORITISING NAMAS AND DEVELOPING IMPLEMENTATION PLANS



ENERGY, CLIMATE

Prioritize NAMAs

Existing TNAs/TAPs, Mitigation analysis studies, Prioritized Mitigation options



Action Plans to Implement
Prioritized NAMAs



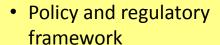
MRV framework for NAMAs



Detailed document for implementing activities to remove non-financial barriers



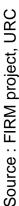
Ready to go project documents



- Financing options
- Institutional and other capacity needs

- Implementation Work Plan
- Project implementation structure
- Financial plan

Facilitating Support







Conclusions



- Actions identified within TNA /TAP are first set of actions that can be taken for implementation as NAMAs
- Additional set of actions can be obtained from LCDS frameworks
- These mitigation actions need to be upgraded to NAMA by enumerating mitigation impacts explicitly
- Frameworks for MRV are required as these actions are to be reported under the convention







Thank You

sudh@dtu.dk

+45 4677 5135

