Downloaded from orbit.dtu.dk on: May 02, 2024

DTU Library

Introduction to the Technology Needs Assessment Project

Trærup, Sara Lærke Meltofte

Publication date:
2011

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

Link back to DTU Orbit

Citation (APA):
Trærup, S. L. M. (Author). (2011). Introduction to the Technology Needs Assessment Project. 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 project under the
Poznan Strategic Programme
on Technology Transfer

UNEP Risø Centre

and

Introduction to the TNA project

Lebanon

April 2011

UNEP Risoe Centre (URC)

- URC was established in 1990
- Based on an agreement between UNEP, RisoeDTU and Danida
- URC Management and Policy Committee (MPC) is the board of the Centre
- Scientific Advisory Panel (SAP)
- General mandate is to support and promote UNEP activities in the areas of energy and climate change, with a special emphasis on developing countries.

URC
Thematic structure and strategic objectives

Cleaner Energy Development	• Facilitating cleaner energy technology transfer • Improve access to cleaner and efficient energy technologies • Analytical support for overcoming political and institutional barriers
Energy and Carbon Finance	• Piloting new approaches within energy and carbon finance • Enhancing a more equitable regional CDM project distribution • Facilitating a more efficient carbon market
Climate Strategies and Resilient Development	• New approaches for assessing cc vulnerability, adaptation and mitigation • Capacity building for integrating adaptation in dc policies and planning. • Furthering the understanding of cc impacts and response options

The URC approach to activities

Activities in the tree thematic clusters are characterized by a common approach

- Combining development of new analytical and scientific approaches with testing in practical pilot applications
- Capacity development at the national and regional levels
- Close collaboration with partner institutions in DC's

TNA project

Project Objectives

- To identify barriers hindering the acquisition, deployment, and diffusion of prioritized technologies.

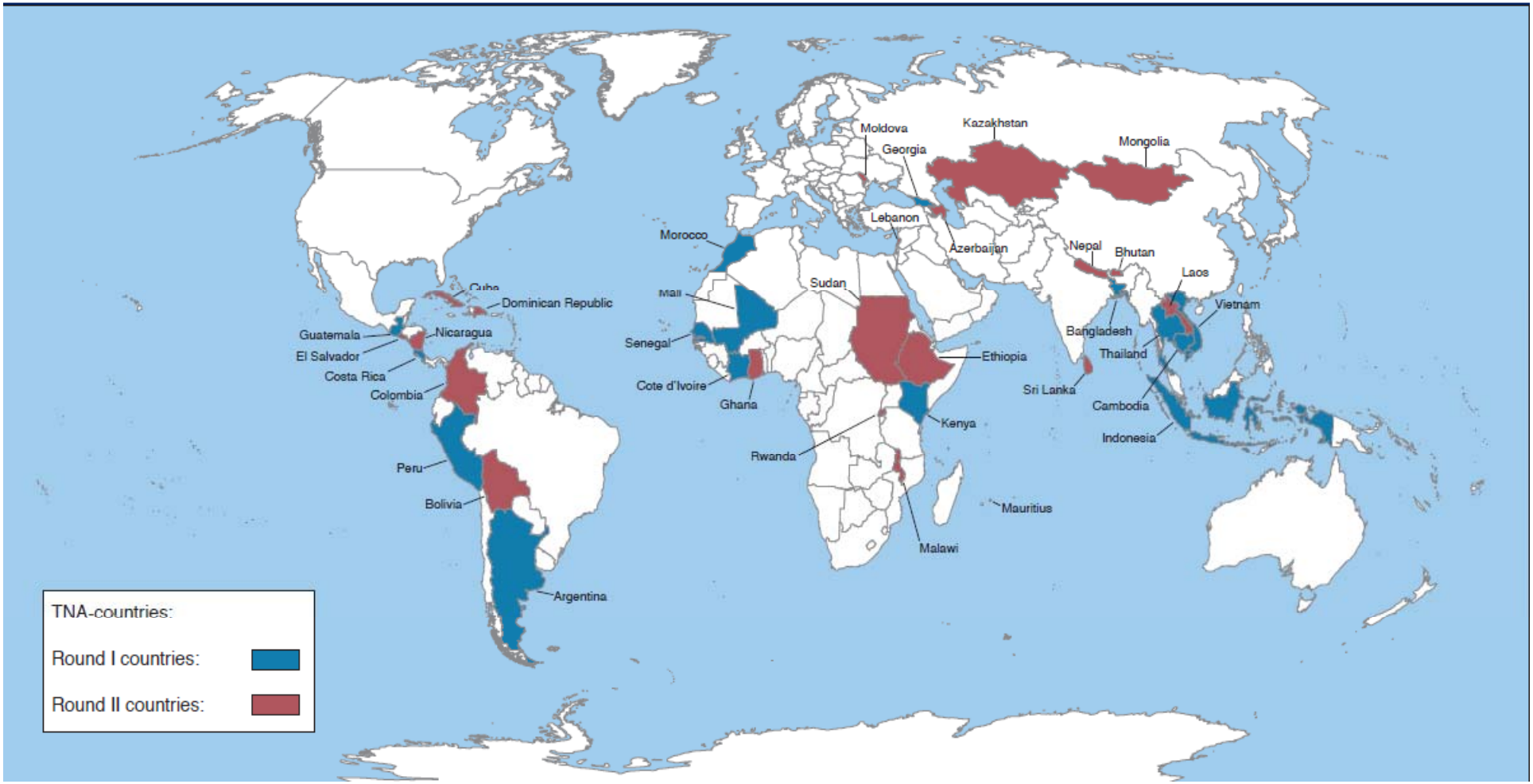
- To develop Technology Action Plans (TAP) specifying activities and enabling frameworks to overcome the barriers and facilitate the transfer , adoption, and diffusion of selected technologies in the participant countries.

- To identify and prioritize through country-driven participatory processes, technologies that can contribute to mitigation and adaptation goals of the participant countries, while meeting their national sustainable development goals and priorities (TNA).

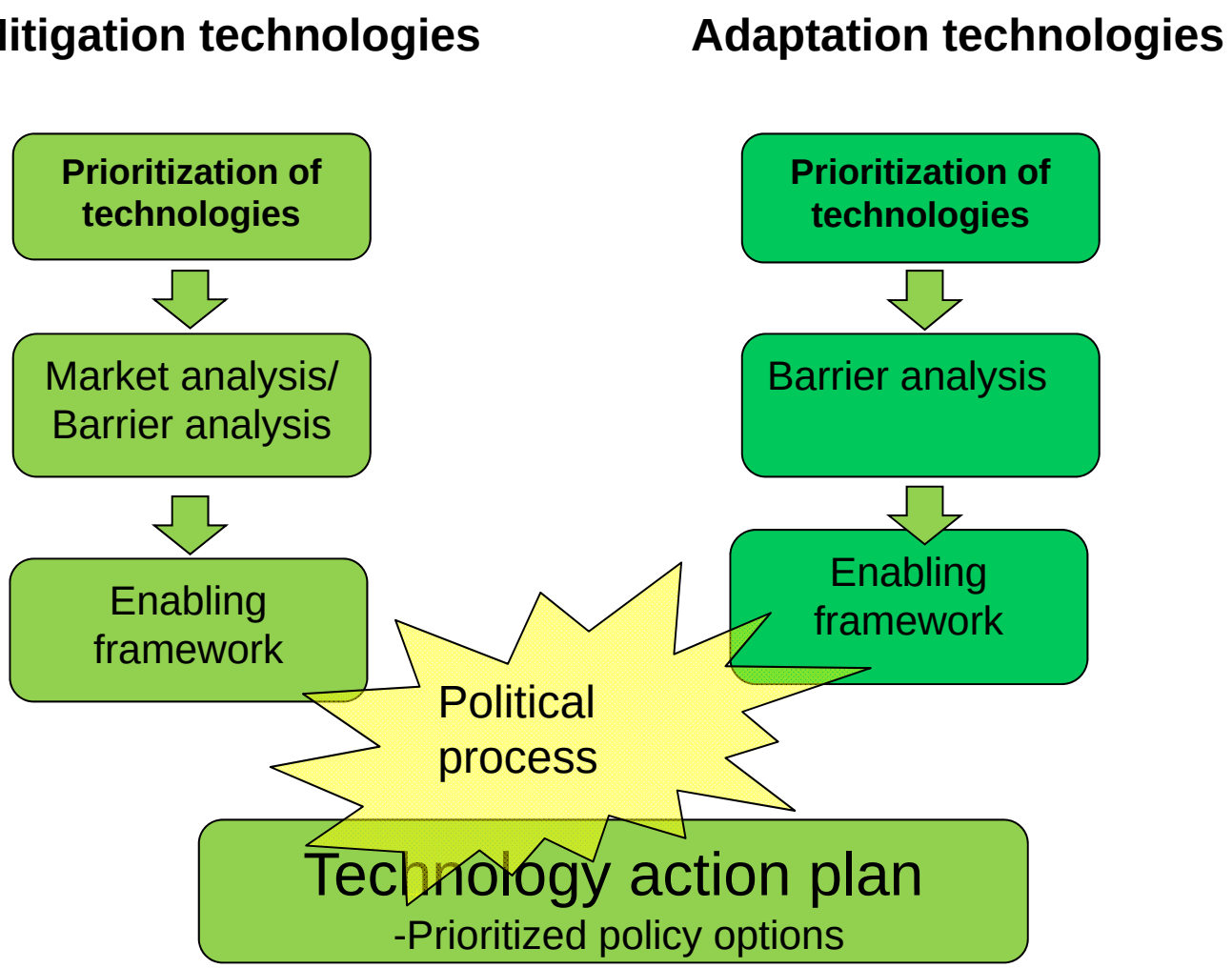
Overall project data

- Funding:
  - GEF: 9 Million USD
  - Co-financing: 2,85 Million USD
- Implementing agency: UNEP in cooperation with UNEP Risø Centre
- Technical support: Regional Centres (ENDA)
- Scope: 35-45 countries
  - 15 in first round
  - 21 in second round
- Project start: 1 November 2009
- Timeframe: 2,5 years

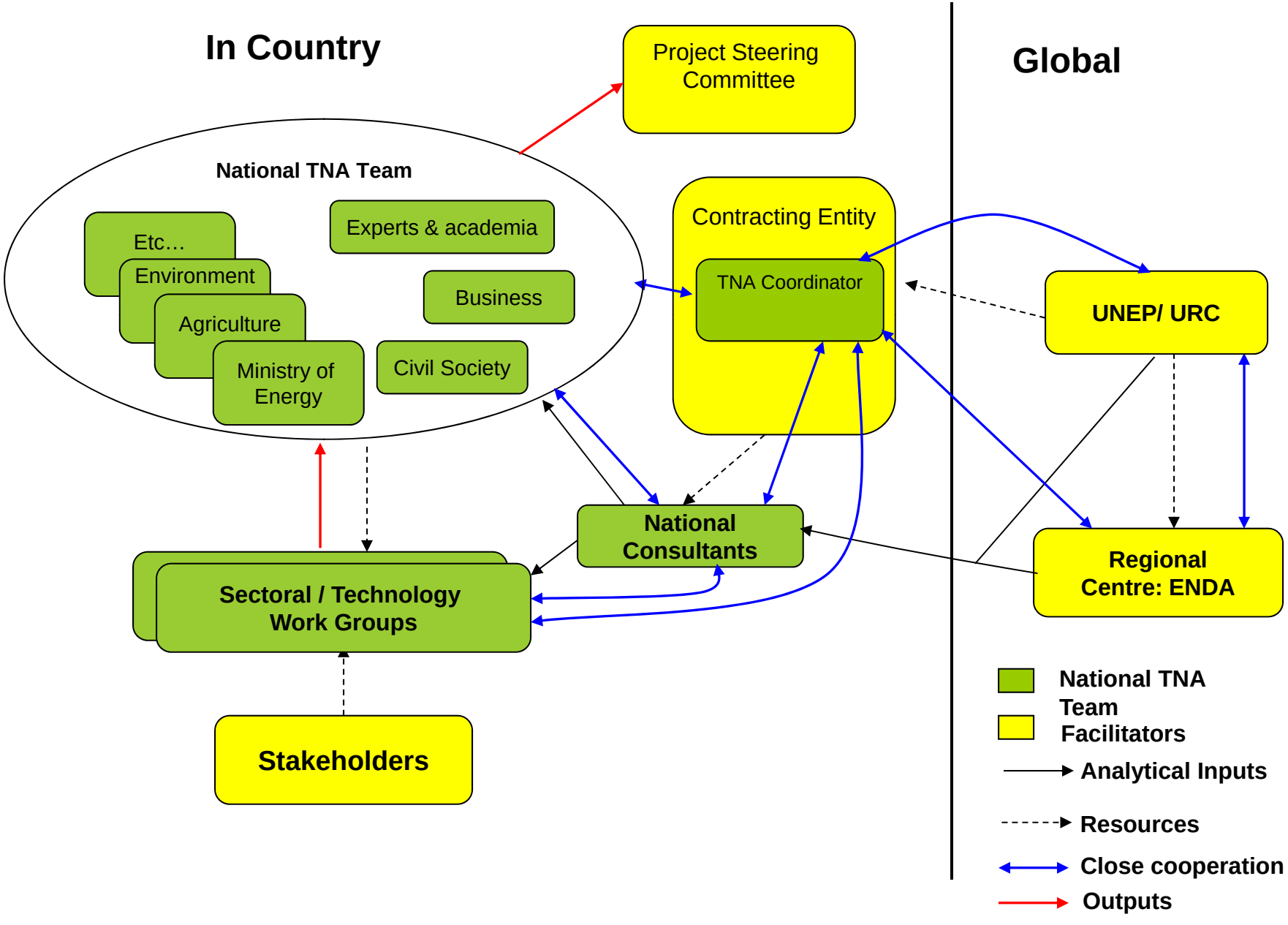
Geographical scope of the TNA project



From TNAs to TAPs



Organisational Structure



Project Elements

- Country plan and implementation
  - TNA team formation
  - Workplan finalization
  - Consultants
- Technical support
  - Methodological framework
    mitigation + adaptation
    methodology and tools
  - Regional centers, Experts
    Implementation support
    Help Desk
    ;
  - Capacity building workshops
  - Experience-sharing workshops
  - Data facilitation
    Techwiki - guidebooks
  - Extranet
- Communications and outreach/dissemination
  - Project website
  - Networks
  - Newsletters
  - Technical support

Main sources for assistance

Barrier analysis guidebook


UNEP

UNEP
RISØ
CENTRE
Energy, climate
and sustainable
development

Guiding the Process of:
Overcoming Barriers for
Transfer and Diffusion of Climate Technologies

Version 01.1

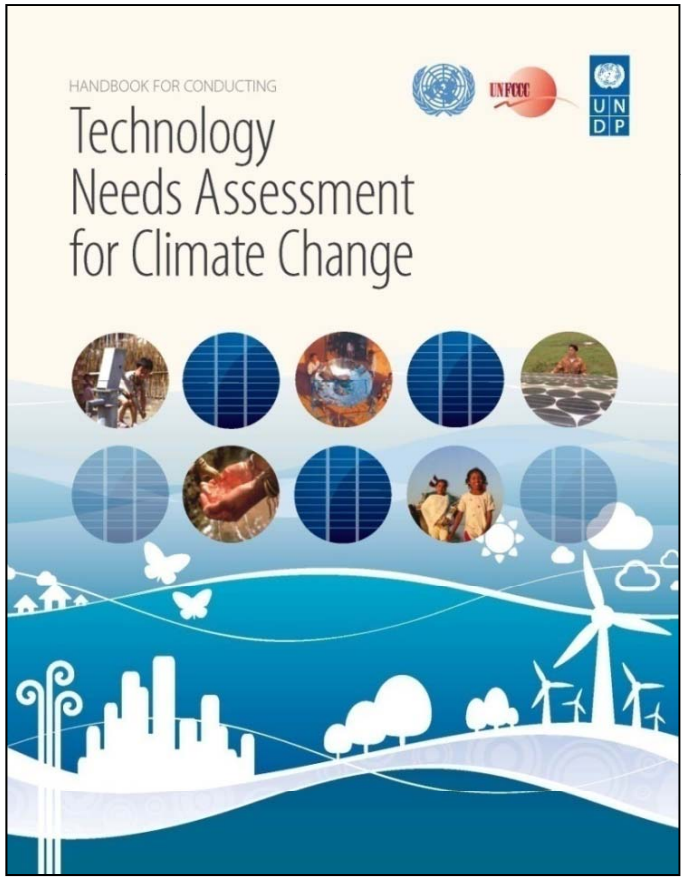
Jørgen Boldt, Ivan Nygaard, Ulrich Elmer Hansen, Sara Lærke Meltofte Trærup

UNEP Risoe Centre, Denmark
13 December 2010

1

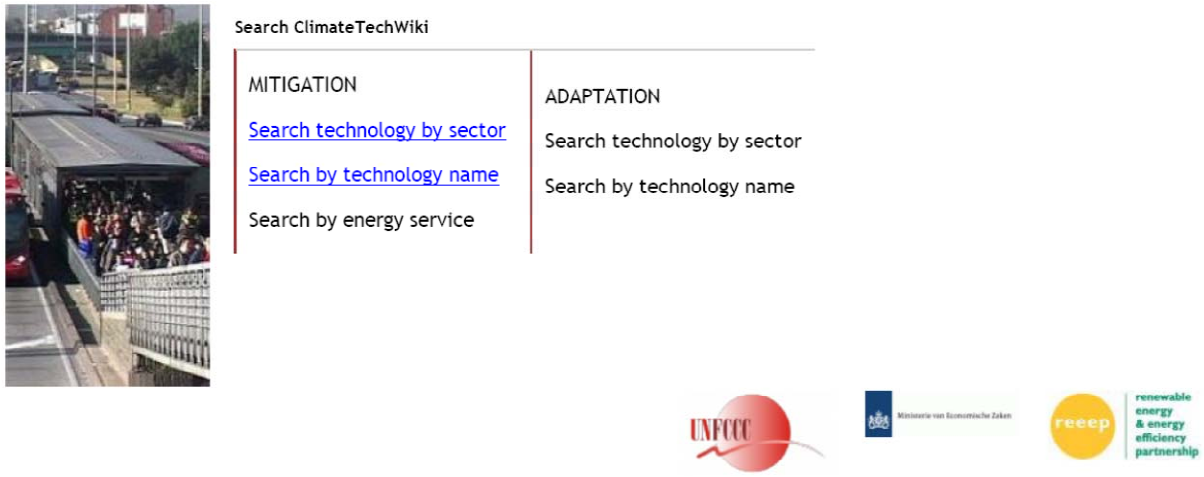
www.tech-action.org

TNA Handbook



www.tech-action.org

Climate Techwiki



http://www.climatetechwiki.org/

Current status

- Only having mitigation
- Around 40+ technologies factsheets uploaded
- Another 40 descriptions will be uploaded within the coming month

Future

- Will also have adaptation
- Inputs would also be provided from guidebooks being developed by URC
- Regional centers to also contribute

Main sources for assistance

Sectoral Guidebooks

- Technologies for climate change adaptation
  - Coastal Erosion and Flooding, Dec. 2010
  - Water sector
  - Agricultural sector, May 2011
- Technologies for climate change mitigation
  - Agriculture sector
  - Building sector
  - Transport sector, April 2011

http://www.tech-action.org/resources.htm

Tech-Transfer Series

First issue,

May - June 2011

Enabling frameworks

for clean energy technologies in developing countries

www.tech-action.org

Support - Components

- TNA Handbook – Provide general methodology
- Barrier analysis handbook – Supplements the TNA handbook on barrier analysis and enabling framework
- Climate Techwiki – An online platform on climate technologies for mitigation and adaptation which UNEP / URC are promoting along with UNDP
- Guidebooks – Focussed on both mitigation and adaptation technologies within sectors. These would complement the Climate Techwiki
- Help Desk Facility – Immediate problem solving support provided by the regional centres

Why this approach ?
First Round TNAs- Lessons Learnt

- First Round1999- onwards
- UNDP and UNEP Synthesis (2008)
  - Strengthening national capacity should be a key priority for future work on technology transfer activities.
  - Adaptation needs strengthening
  - Stakeholders role needs to be well defined and involvement strengthened
  - Non-technological options need to be given better attention
  - Activities should be well defined and timely technical guidance should be available
  - Implementation of the findings needs to be supported

TNA Best Practices

- A good institutional set-up needed
  - Project coordinator and team (of experts) right candidates
  - Stakeholder group from key relevant institutions
- Detailed work plan with clear objectives and roles, in consultation with stakeholders
- Use right (most recent) methodology, adapt guidance to national circumstances
- Decide on the tool of prioritization in accordance to the national circumstances
- Use a wide range of criteria, identify a small number of key sectors
- Conduct a barrier analysis for the selected/prioritized technologies
- Draw implementation plans to address the barriers identified
- Develop project proposals

Source: UNFCCC Workshop, 2007

Generic Country Work-plan
Second round

Sl No.	Activity / Year	2011				2012			
	Month	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24
1.	Establishing TNA Team, Project Coordinator, and carrying out preparatory work - Organising stakeholders - Finalising work-plan - National Inception Workshop								
2.	Prioritizing Sectors and Technologies								
3.	Market Analysis / Barriers Analysis of prioritized technologies and Developing Enabling Framework (Conducting techno-economic appraisal of prioritized technologies, where applicable)								
4.	Preparing Technology Action Plan (TAP)								
5.	Preparing selected programme proposals								
6.	Preparing and submitting the Final Report								

UNEP

UNEP RISØ CENTRE
ENERGY, CLIMATE AND SUSTAINABLE DEVELOPMENT

Thanks for your attention !

DTU