

Technical University of Denmark



Introduction to the Technology Needs Assessment Project

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Technology Needs Assessments

**UNEP
RISØ
CENTRE**

*ENERGY, CLIMATE
AND SUSTAINABLE
DEVELOPMENT*

**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.

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

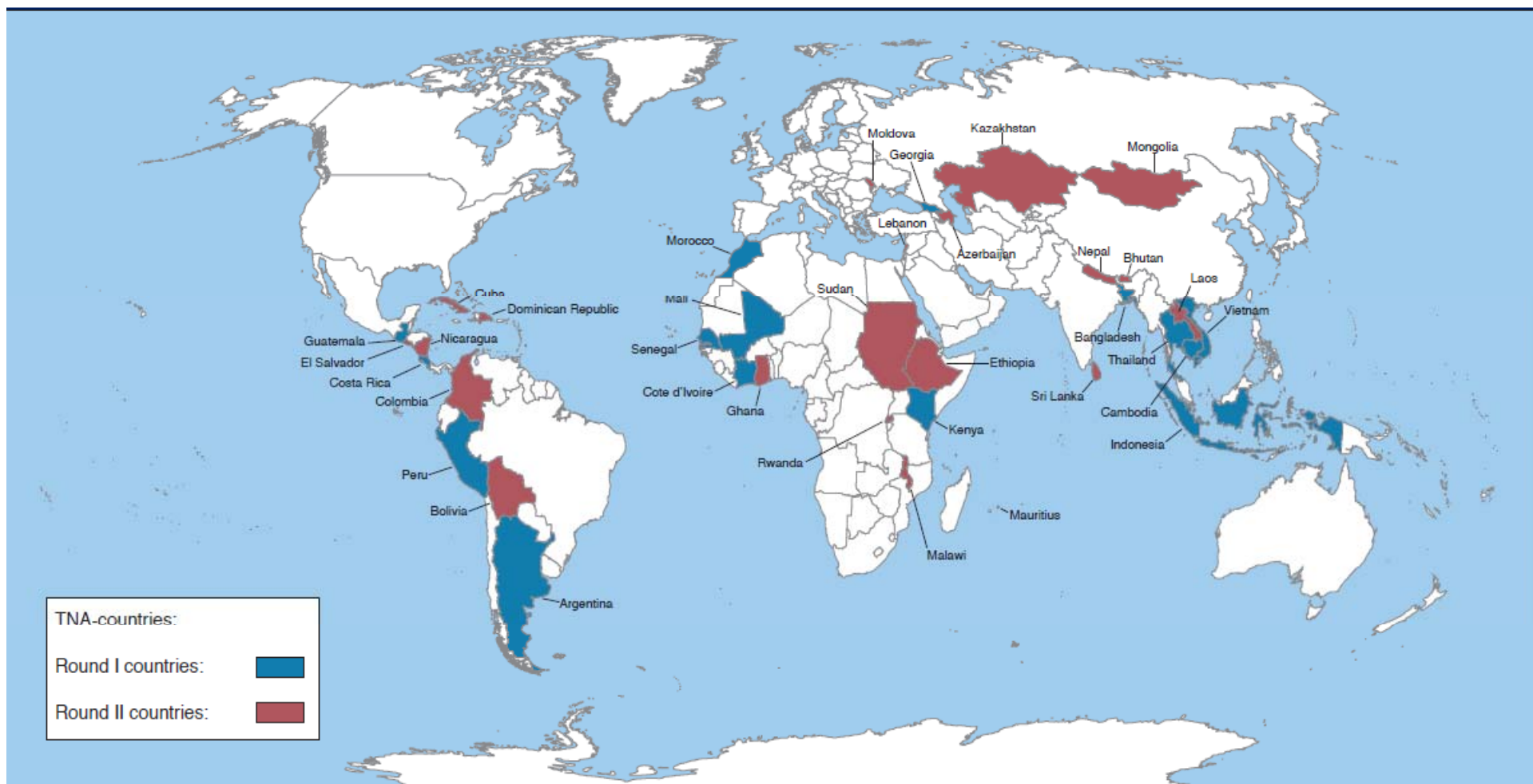
Project Objectives

- 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

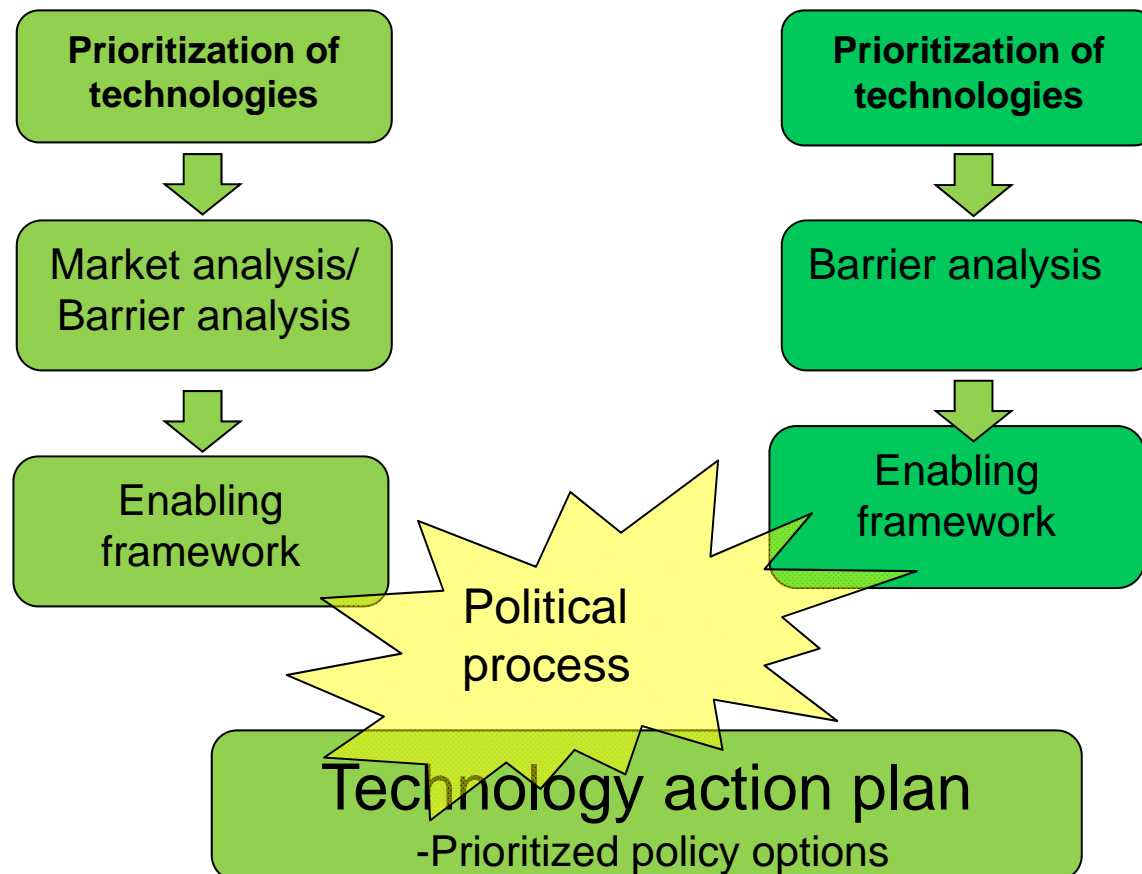
Geographical scope of the TNA project



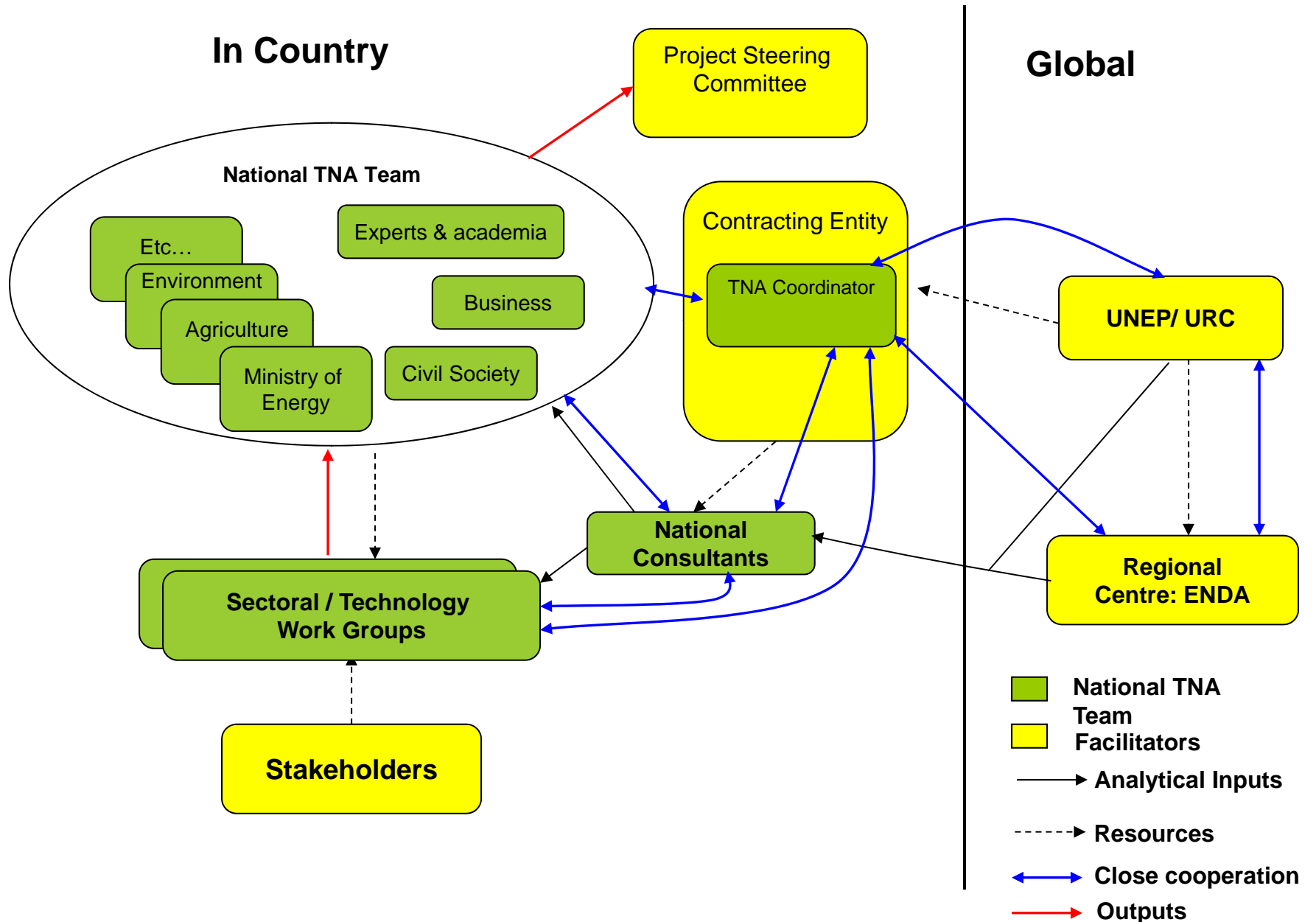
From TNAs to TAPs

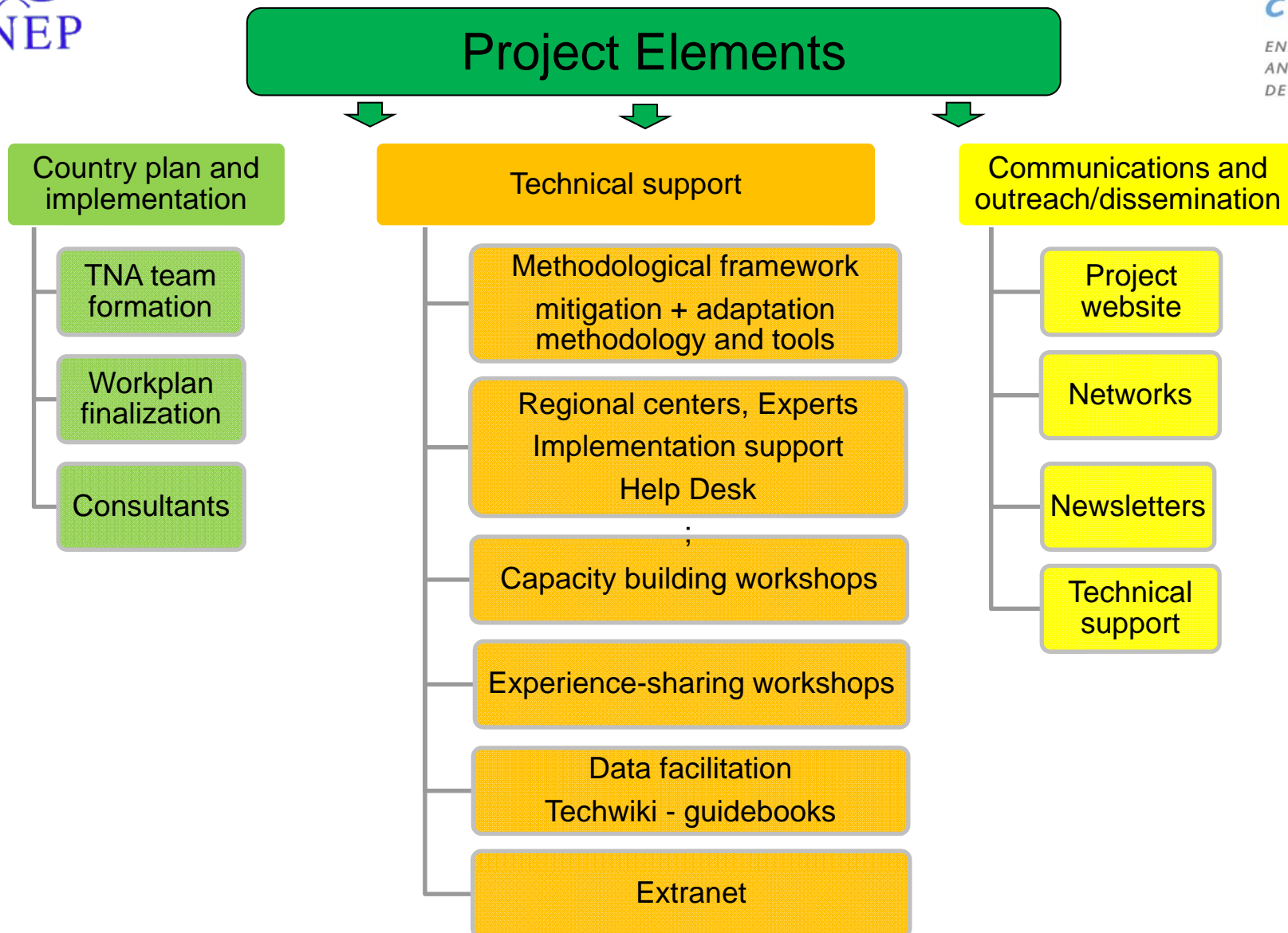
Mitigation technologies

Adaptation technologies



Organisational Structure





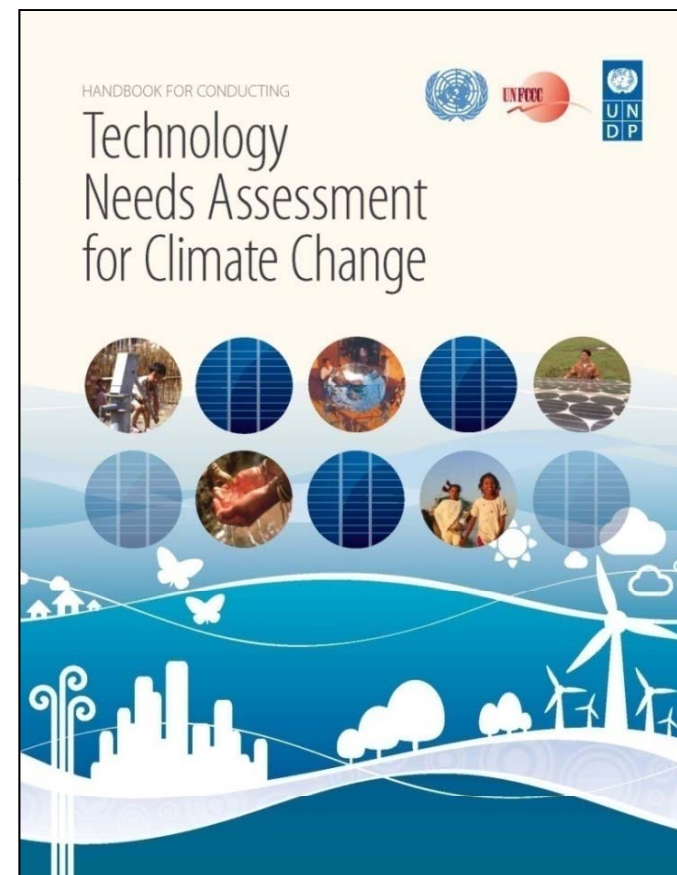
Main sources for assistance

Barrier analysis guidebook



www.tech-action.org

TNA Handbook



www.tech-action.org



Climate Techwiki



ENERGY, CLIMATE AND SUSTAINABLE DEVELOPMENT

ClimateTechWiki
An online clean technology database



<http://www.climatechwiki.org/>

Home Discussions Welcome About FAQ Contact Partners Portal

New password Register My Account Login

To support development and transfer of environmentally sustainable technologies, ClimateTechWiki offers an on-line database with up-to-date and “up-datable” technology descriptions in different sectors and categories

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



Search ClimateTechWiki

MITIGATION

[Search technology by sector](#)

[Search by technology name](#)

Search by energy service

ADAPTATION

Search technology by sector

Search by technology name



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 Round 1999- 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

SI No.	Activity	2011				2012			
		1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24
Year		Month							
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						█		



Thanks for your attention !

