Technology Needs Assessments: Introduction and Overall Approach

Painuly, J.P.

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Technology Needs Assessments

Introduction and Overall Approach

Inception Workshop
UNEPI DTIE
Paris, February 17-18, 2010

Jyoti Prasad Painuly
Sr. Energy Planner
UNEP Risoe Centre, Denmark
Project Objectives

• 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).

• 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.
Project Highlights

- Project start date – November 2009
- PSC approval of selection of 15 countries for the first round and announcement in the COP 16 side event – December 2009
- Completion of work by first round countries due in 18 months – June/July 2011.
- 2nd round, involving 20 to 30 countries to be launched - October 2010
- Total project duration: 30 months - April 2012
- Initial methodology development and capacity building work to be completed in the first 6 months - April 2010.
- International Consultants/Regional Centres and URC to provide technical support, capacity building.
From TNAs to TAPs

Mitigation technologies

- Prioritization
- Market/barrier analyses
- Enabling framework

Adaptation technologies

- Prioritization
- Barriers analysis
- Enabling framework

Technology Action Plan
- Prioritized policy options

Political process
TAP, NAMAs and NAPAs

- TAP
- NAMAs
- NAPAs
- Funding
Approach

Core Elements

Country plan and implementation
- TNA team formation
- Workplan finalization
- Consultants

Technical support
- Methodological framework (mitigation + adaptation methodology and tools)
- Capacity building workshops
- Data facilitation
- Implementation support to countries (help desk; experts/regional centers; URC)
- Experience-sharing workshops
- intranet

Communications and outreach/dissemination
- Project website
- Project workshops
- Networks
- Guidebooks
- Newsletters
Approach (cont’d)

National TNA Team
- TNA Coordinator
- Agriculture
- Energy
- Ministry of Environment
- Local consultants/experts

Other experts

Other stakeholders

Tasks

UNEP/RISOE

Regional Centres

Ministry of Environment

Approach (cont’d)
Why this approach?  
First Round TNAs - Lessons Learnt

• 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 workplan 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
- And so on

Source: UNFCCC Workshop, 2007
<table>
<thead>
<tr>
<th>SI No.</th>
<th>Activity</th>
<th>2010</th>
<th>2011</th>
</tr>
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<td></td>
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<td>1-3</td>
<td>4-6</td>
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</table>
| 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 and implementing official launches of selected (high-profile) project proposals (set of proposals).                           |      |      |      |       |       |       |       |       |
| 6.    | Preparing and submitting the Final Report                                                                                               |      |      |      |       |       |       |       |       |
## Milestones

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Milestone</th>
<th>Scheduled Date</th>
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<tbody>
<tr>
<td>1</td>
<td>Award of Project by GEF</td>
<td>October 2009</td>
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<tr>
<td>2</td>
<td>Project start date</td>
<td>Nov. 2009</td>
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<tr>
<td>3</td>
<td>Completion of Project</td>
<td>April 2012</td>
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<td>4</td>
<td>Selection of 15 countries (1st Round)</td>
<td>December 2009</td>
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<td>5</td>
<td>Inception Workshop</td>
<td>February 2010</td>
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<td>6</td>
<td>Agreement with countries signed after country consultations and work plan</td>
<td>April 2010</td>
</tr>
<tr>
<td>7</td>
<td>finalization.</td>
<td></td>
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<td>8</td>
<td>Capacity Building Workshops on approach</td>
<td>April 2010 and Sept. 2010</td>
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<tr>
<td>9</td>
<td>Experience Sharing Workshops</td>
<td>November 2010 and Sept. 2011</td>
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<td>10</td>
<td>Side Event at COP Mexico</td>
<td>December 2010</td>
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<tr>
<td>11</td>
<td>Release of TNA Reports</td>
<td>January 2011</td>
</tr>
<tr>
<td>12</td>
<td>Release of TAPs</td>
<td>June 2011-Aug 2011</td>
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Thank You

Jyoti Prasad Painuly
Jypa@risoe.dtu.dk
Technology Transfer - a brief history

- Rio Summit, 1992: Agenda 21- Need for technology transfer. Also in the [UNFCCC Convention in Articles 4.3, 4.5 and 4.7](#)

- COP 1 1995; Berlin Mandate (discussions on issues)
  - Projects inventory, financing, networks of centres, adaptation technologies

- COP4; 1998; Buenos Aires Plan of Actions (Consultative process)
  - Regional workshops in Asia, Africa, and Latin America and the Caribbean

- COP 7; Marrakesh Accord: [Technology Framework](#)
  - Technology needs assessments, technology information, enabling environments, capacity building, mechanisms
Technology Transfer - a brief history

- COP 13; Bali Action Plan
  - Update TNA handbook

- COP 14; Poznan
  - The Strategic Program on Technology Transfer (proposed by the GEF; on request from COP13 in Bali) consists of three funding windows:
    - technology needs assessments (TNAs);
    - piloting priority technology projects; and
    - dissemination of successfully demonstrated technologies.
  - The program US$50 million, and will be implemented until June 2010.
  - Poznan decision also asked the GEF to “consider the long-term implementation of the strategic program.”

- Other Developments
  - IPCC Special Report on Methodological and Technological issues Technology Transfer
  - EGTT and Technology Information System - TT: CLEAR at UNFCCC
  - GEF- TNA exercises (92 countries; 1999-2004)