Nepal's Policy and Activities on Climate Change

National Conference on Climate Change and Green Jobs

28 April 2011 (B.S. 2068.1.15), Thursday
Hotel Yak and Yeti, Kathmandu

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Joint-Secretary (Technical) and Chief
Climate Change Management Division, MoE
Member, LEG to UNFCCC
Nepal’s Participation in CC Regime

UNFCCC
• Text adopted: 9 May 1992 at NY
• Signature: 12 June 1992 during Rio Earth Summit
• Ratification: 2 May 1994
• Entry into force in Nepal: 31 July 1994
• INC Report, July 2004 and shared with Parties

Kyoto Protocol
• Text adopted: 11 December 1997 in Kyoto
• Deposition of instrument of Accession: 16 September 2005
• Entry into force (global) 16 February 2005; and Nepal: 14 December 2005

DNA-CDM/NIE-AF
• MoE to function as DNA for CDM activities on 22 December 2005
• MoE to function as NIE for Adaptation Fund on 7 May 2010 (Government decision)
## Emissions and Removals (Gg), 1994

<table>
<thead>
<tr>
<th>GHG Source and Sink Categories</th>
<th>CO₂ Emission</th>
<th>CO₂ Removal</th>
<th>CH₄</th>
<th>N₂O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy</td>
<td>1465</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industrial process</td>
<td>165</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td></td>
<td></td>
<td>867</td>
<td>29</td>
</tr>
<tr>
<td>Landuse Change and Forestry</td>
<td>22895</td>
<td>-14778</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Waste</td>
<td></td>
<td></td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>Total emissions and removals</td>
<td>24525</td>
<td>-14778</td>
<td>877</td>
<td>30</td>
</tr>
<tr>
<td><strong>Net emissions</strong></td>
<td><strong>9747</strong></td>
<td></td>
<td>877</td>
<td>30</td>
</tr>
</tbody>
</table>
### Total $\text{CO}_2$ Equivalent Emissions, 1994

<table>
<thead>
<tr>
<th>GHG Type</th>
<th>Emission (Gg)</th>
<th>GWP</th>
<th>$\text{CO}_2$eq</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\text{CO}_2$</td>
<td>9,747</td>
<td>1</td>
<td>9,747</td>
<td>25</td>
</tr>
<tr>
<td>$\text{CH}_4$</td>
<td>948</td>
<td>21</td>
<td>19,908</td>
<td>51</td>
</tr>
<tr>
<td>$\text{N}_2\text{O}$</td>
<td>31</td>
<td>310</td>
<td>9,610</td>
<td>24</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>39,265</strong></td>
<td></td>
<td><strong>100</strong></td>
<td></td>
</tr>
</tbody>
</table>

Recent initiative on Second National Communication will help to update it.
Observed Trends in Temperature

- Average warming at an @ 0.06°C/year in 49 stations from 1977 to 1994 (Shrestha et al., 1999)
- Warming @ 0.04°C/year in 45 stations from 1976 to 2006 (Practical Action 2009)
Precipitation

- No significant trends (Shrestha et.al, 2000 and Practical Action 2009)
- High inter-annual variation of rainfall, particularly monsoon precipitation, and very uncertain observed trends
Note: combination of landslides, flood, drought, and GLOF vulnerabilities
Issues ...
Issues ...

- Snow/glaciers melting
- Effect/Impact on agriculture
- Impact on health
- Impact on water resources – hydropower, irrigation, drinking water etc.
- Impact forest and biodiversity
- Impact on infrastructures and urban areas
Responses

Projects, studies, research, awareness/capacity building

Institution

MoPE to MoE, CCM Division
CCC
MCCICC

Programme

Policy

Policies in periodical Plans – RE, EE, CP, carbon trade etc.

CC Policy
Initiatives (1992-2006)

Joining the instrument – signing to ratification and Focal point

Climate change

Participation (COPs and other meetings) 1-4 persons

Actions
Study, First INC PREGA CDM

Awareness (2000s)
MoE Initiatives (2007-2009)

Programmes/Projects
- NCSA
- NAPA
- Capacity Strengthening
- PPCR
- TNA
- SNC
- DNA/CDM (SNV)

Climate change

Other Initiatives
- CDM approval system
- Awareness and Capacity Building
- Accessing the climate change funds
- MoU with 14 donors and partners
- Workshops and conferences
- COP15 related activities

Participation (5 to > 90) and COPs preparation
Climate Change Activities

- Cancun Preparation
- NAPA endorsement
- Access to Adaptation Fund Board
  - CR Planning Process
  - LCD path
  - REDD
  - Down scaling and CBVA

MAI

- International Conference (IC)
- MoU
  - ICIMOD & DFID

April 2010 onwards - CCMD

Missions

- PPCR
- SREP

NAPA Implement...
- LDCF - PIFs, Bilateral - DFID/ EU and USAID

CC Policy

- LAPA
- MCCICC

- International Expert Consultation on MI
- LEG 18 meeting
- CDM Workshop
Climate Change Policy, 2011

Vision
Address the adverse impacts of climate change, by considering climate justice, through the pursuit of environmental conservation, human development, and sustainable development all contributing toward a prosperous society.

Objectives

Mission
Mitigate the adverse impacts of climate change, utilise opportunities, and improve livelihood through CC-friendly development.

Goal
Improve livelihood by mitigating impacts, adapting with, adopting low carbon development path.

Policies

Approval 17.01.2011
Policy Objectives

- Establish a Climate Change Center;
- Implement climate adaptation-related programmes;
- Reduce GHG emissions by promoting the use of clean energy, and by increasing energy efficiency and encouraging the use of green technology;
- Enhance the climate adaptation and resilience capacity of local communities for management and optimum utilization of natural resources;
- Adopt a low-carbon development path by pursuing climate-resilient socio-economic development;
- Develop capacity for identifying and quantifying present and future impacts of climate change, adapting to climate risks and adverse impacts of climate change; and
- Improve the living standard of people by maximum utilization of the opportunities created from the climate change-related conventions, protocols and agreements.
Policy Focus
7 Areas

- Climate adaptation, disaster and risk reduction
- Low carbon development and climate resilience
- Access to financial resources and utilisation
- Technology development, transfer and utilisation
- Climate-friendly NRM
- Study and research
- Capacity building, people's participation and empowerment

Climate Change Fund, and Climate Award
Nepal's NAPA - Broad Objectives

Mainstreaming Climate Change Agenda into National Development

Poverty reduction

Livelihoods improvement/diversification

Building resilience
Vulnerability assessment through:

- Stocktaking
- Transect Exercise
- Group discussions
- GIS Mapping - vulnerability
- Consultations
NAPA Prioritized Integrated Projects

1. Increasing community based adaptation through integrated management of agriculture, water, forests and biodiversity
2. Building Adaptive Capacity of Vulnerable Communities Through Climate Resilient Agricultural Development
3. Community Based Disaster Management for Facilitating Climate Adaptation
4. GLOF Monitoring and Disaster Risk Reduction
5. Forest and Ecosystem Management for Supporting Climate Led Adaptation Innovations
6. Adapting to Climate Challenges in Public Health
7. Ecosystem Management for Climate Adaptation
8. Empowering Vulnerable Communities through Sustainable Management of Water Resource and Clean Energy Supply
9. Promoting Climate Smart Urban Settlement
Additional Activities

- Nepal is preparing two proposals for LDCF - $12m (profiles 3 & 4 - DRR/GLOF, and 5 & 7 - EBA)
- Bilateral - DFID/EU - Pound 16m (DFID - 10m, and EU - 6m) with focus on profile 1 (community-based adaptation)
- USAID Hariyo Ban Programme - US$ 11.9m for climate adaptation

Additional Activities

- LAPA design framework
- Climate Resilience
- Low carbon development strategy process
- Strengthening the capacity of the climate change and the environment
Political Commitment/Clear Direction

Changing the Gear

Field level Plan Preparation to Implementation

Finance

Translating Commitments into Actions

Technology

Capacity Building