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Expectations from capacity building of GHG inventories in Vietnam

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Outline

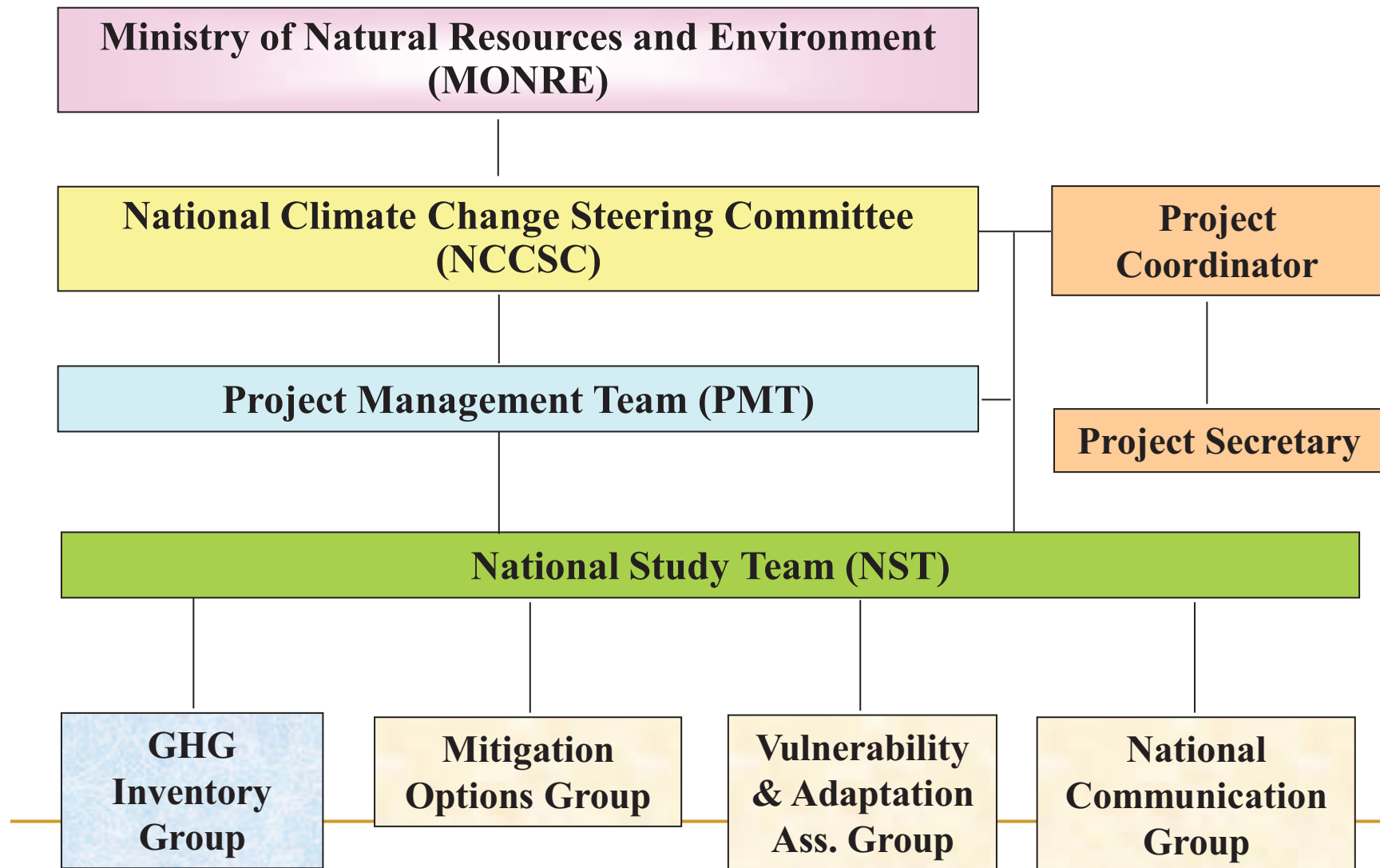
- Background information on GHG inventories in Vietnam
 - Institutional arrangement for the development of GHG inventory for the Second National Communication
 - Main problems with the GHG inventory in Vietnam
 - Expectations from capacity building projects for GHG inventories
 - Example of one capacity building project
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Background

- Vietnam: ratified the UNFCCC in 1994 & the KP in 2002
- Ministry of Natural Resources and Environment (MONRE): National Focal Point for implementation of the UNFCCC and the KP
- Completed National GHG Inventories under projects below:

Project	Base year	Note
ADB: <i>Climate Change in Asia: Vietnam, 1994</i>	1990	Compiled by National Technical Experts (NTE), 1994
ADB: <i>ALGAS, 1997</i>	1993	Compiled by NTE, 1997
GEF/UNEP/MONRE: <i>INC to UNFCCC, 2003</i>	1994	Compiled by GHG Inventory Group, 2002
<i>Country Program on Climate Change, 2004</i>	1998	Compiled by NTE, 2003
GEF/UNEP/MONRE: <i>SNC to UNFCCC, under implementation</i>	2000	Compiled by GHG Inventory Group, 2009

Institutional arrangement for the inventory for SNC



Institutional arrangement for the inventory for SNC

- The GHG inventory under SNC was carried out by Department of Meteorology, Hydrology and Climate Change with the support of related ministries, private sector, local communities and NGOs.
 - National Climate Change Steering Committee (NCCSC) consists of representatives from relevant ministries and agencies.
 - NCCSC provides consultations on policies as well as guidance and advisories on issues related to climate change, including GHG inventory to MONRE, PMT and NST.
 - “Decision No.47/2007/QĐ-TTg dated 06/4/2007 of the Prime Minister approving the plan on the implementation of the Kyoto Protocol under the UNFCCC in the 2007-2010 period”: legal basis for developing GHG inventories in Vietnam.
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Institutional arrangement for the inventory for SNC

Sectors	Institutions involved
<i>Energy</i>	Min. of Industry and Trade Min. of Transportation Research Center for Energy and Environment Vietnam Coal Corporation
<i>Industrial processes</i>	Min. of Industry and Trade Institute of Industry and Chemical Safety Technology
<i>Agriculture</i>	Hanoi Agricultural University Research Center for Climate Change and Sustainable Development Min. of Agriculture and Rural Development
<i>LULUCF</i>	Min. of Agriculture and Rural Development Center for Natural Conservation and Community Development Center for Community Forestry
<i>Waste</i>	Hanoi University of Technology Hanoi Urban Environment Company Institute of Hydro-Meteorology and Environment

Institutional arrangement for the inventory for SNC



There are 4 sub-groups under GHG inventory group, involving experts and institutional bodies from energy, industry, forestry, agriculture and waste sectors

Main problems (technical)

- **LULUCF:**
 - + Difficult in emissions/removals estimates from forest
 - + CO₂ emissions from forest fire: not estimated
 - + Difficult in estimating soil carbon released
 - **Energy:**
 - + AD for emissions estimates from fuel combustion: insufficient
 - + EFs and calorific values used: IPCC's default values
 - + Lack of EFs of CH₄ fugitive emission from coal mining
 - **Industrial Processes:** Data of industrial production are scattered. Lack of data for a long time
 - **Agriculture:**
 - + Emissions that related to burning of agricultural residues and fertilizer management: not accurate as its situation is quite different between areas
 - + Emissions from rice field need to be improved due to insufficient AD of water management in rice paddy areas and lack of EFs for some rice cultivation location
 - **Waste:** AD of waste generation, treatment and composition: not available in some big cities and industrial zones
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Our concerns

- Legal framework is not strong enough to produce GHG inventories on a regular basis -> how to strengthen formal inter-ministries relationship?
 - Human resources is limited (members of GHG inventory group were not involved full-time) -> how to maintain?
 - Lack of institutional capacity for collecting and archiving data
 - Default EFs: inappropriateness -> high uncertainties
 - Lack of country-specific EFs, lack of financial and technical support for developing those EFs
 - Inventory was not comprehensive: Lack of data or poor data quality in some categories (difficult in collecting data of socio-economic activities related to GHGs sources and sinks)
 - Financial resources for GHG inventory, esp. for data collection: limited
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Expectations from capacity building projects

- Strengthening the legal framework for GHG inventory
 - Raising awareness, esp. of policy makers about the importance of preparing periodical GHG inventories in a MRV manner
 - Capacity building for institutions involved: training personnel in collecting and analyzing data, using IPCC methodologies, making report, etc.
 - Developing a country-specific manual for GHG inventory compilation (including institutional structure, data archiving...)
 - Setting up a user-friendly database system for GHG inventory which can be updated on a regular basis
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Expectations from capacity building projects

- Financial support for periodical GHG inventories in the future, esp. for AD collection and research on EFs
 - Technical assistance for improving data quality, developing more reliable EFs -> strengthening accurate and reliable GHG inventories
 - Training workshops/courses to enhance the expertise and skills for GHG experts
 - International co-operation: sharing experiences, exchanging info, technical and financial support...
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The project: Capacity building for national GHG inventory in Vietnam

- Technical co-operation with JICA (in planning process)
 - Super goal: To promote MRV mitigation actions through periodical preparation of national GHG inventories
 - Overall goal: To prepare accurate, reliable and periodical national GHG inventories
 - Outputs:
 - + Enhanced capacity to periodically collect and compile data
 - + Enhanced capacity to promote understanding among relevant parties
 - + Enhanced capacity to manage QA/QC for each sector
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With thanks!

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