

Sustainable National GHG Inventory in Developing Countries

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National GHG inventory

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- A national GHG inventory identifies and quantifies a country's anthropogenic sources and sinks of GHGs.
- It forms a foundation for accounting and tracking progress toward emission reduction goals.

The Paris Agreement

- “Stabilization” of GHG concentrations
 - 2 Degrees goal
 - Gigaton Gap
- Transparency Framework
- Accounting

Issues

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- Frequency of submission
- Time series consistency (tracking progress)
- Accuracy (compliance/planning)

Frequency of submission

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Necessity

- More frequent reporting is required under Paris Agreement.

Challenges

- Developing countries used to rely on ad-hoc funding and human resources

Possible solution

- Developing countries need to build capacity to support more sustainable and robust systems

Time series consistency

Necessity

- Proper progress monitoring can be achieved with time-series consistent data set

Challenges

- Data will be lost after years
- Different experts may choose different methodology

Possible solution

- A solid national GHG inventory system can ensure homogenous data collection and archiving as well as choice of methodology

Accuracy

Necessity

- Accuracy will enhance confidence in NDC

Challenges

- Some important statistical items may not exist in developing countries, or may not be reliable
- Tier 1 may have high uncertainty

Possible solution

- Continuous improvement is indispensable to address all these issues.

The JICA GHG Inventory capacity building projects

(Slide prepared by Mr. Takeshi Enoki)

Fundamental objective of the projects

To enhance the GHG inventory system in the country so that it can prepare GHG inventories every two years by themselves.

Key principles

1. On the ground support
2. Enhance Institutional arrangements
3. Develop individual & institutional capacity
4. QA/QC plan (continuous improvement)

Overview of JICA projects

	Vietnam	Indonesia	PNG	Mongolia
Project duration	2009~ 2014	2010~ 2015	2017~ 2021	2017~ 2021
Enhance inventory system (including institutional arrangement, individual capacity)	✓	✓	✓	✓
Enhancing regular preparation of inventories	✓	✓	✓	✓
Develop country specific activity data, emission factors, and/or other parameters	When possible	✓	When possible	✓
Support development of local GHG inventories		✓		
Support ICA process			✓	✓