

Overview of MRV frameworks for NDC

Session 4: Introduction of MRV Systems

Kiyoto Tanabe

Principal Researcher, Climate and Energy Area

Measurement, Reporting and Verification

➤ Measurement, Reporting and Verification in various context

- GHG inventory
- Mitigation actions
- Adaptation actions

etc

➤ International MRV and domestic MRV

Under the Cancun Agreement (Dec.1/CP16):

- ✓ internationally supported mitigation actions will be measured, reported and verified domestically and will be subject to international measurement, reporting and verification in accordance with guidelines to be developed under the Convention
- ✓ domestically supported mitigation actions will be measured, reported and verified domestically in accordance with general guidelines to be developed under the Convention

Benefits from domestic MRV system

- By measuring, monitoring, evaluating, verifying and reporting the results of mitigation and adaptation actions, the GHG inventories through the MRV system will assist FSM by:
 - helping the Government fulfill its international reporting obligations,
 - informing and guiding the Government on the implementation of concrete climate change response actions, whether in form of policies, projects programmes or business ventures,
 - demonstrating FSM's climate finance readiness and providing a strong platform for attracting international climate finance flows from multilateral and bilateral development partners.

(Source)

Patrick Fong and Eugene B. Joseph. 2021. FSM MRV Framework: Strengthening of a Measuring, Reporting and Verification (MRV) system to support reporting requirements and tracking of NDC implementation efforts in the Federated States of Micronesia (FSM). GIZ Oceania, Suva, Fiji

Consideration necessary for domestic MRV

- For domestic MRV, the following need to be considered:
 - a. Establishment and/or recognition of the institutions, entities, arrangements and systems involved in the domestic measurement, reporting and verification;
 - b. Approaches to measurement, including the collection and management of relevant and available information and the documentation of methodologies;
 - c. Approaches to verification, including the use of domestic experts using domestically developed processes, thereby enhancing the cost effectiveness of the verification process.

Let's consider domestic MRV of NDC or mitigation actions for methane emission reduction

- Determine the information/data that need to be reported in order to support tracking the implementation of NDC or mitigation actions
- Consider what kind of information/data need to be collected to measure the information/data to be reported
- Consider how the information/data to be reported should be verified
- List up institutions, entities, etc that need to be involved
 - Who should take overall responsibility for the domestic MRV?
 - Who should collect which information/data (and how)?
 - Who should measure (= process collected data to estimate) the information/data to be reported?
 - Who should verify the measured data/information?

National GHG Inventory international MRV System under the Paris Agreement

Externally: Technical Expert Review (TER) of inventory (+ Facilitative, Multilateral Consideration of Progress) in accordance with the **MPG & Decision 5/CMA.3**, TERs help identify areas of improvement and capacity-building needs, attract targeted support, and ultimately build trust.

Internally: Quality Assurance activities in the inventory compilation cycle

Measurement

Compilation of inventory:

GHG emissions and removals should be estimated as accurately as possible in accordance with the **IPCC Guidelines** and the **MPG & Decision 5/CMA.3**.

Verification

Reporting

Guidance for operationalizing the modalities, procedures and guidelines for the enhanced transparency framework referred to in Article 13 of the Paris Agreement (**Decision 5/CMA.3**)
https://unfccc.int/sites/default/files/resource/CMA2021_L10a2E.pdf#page=2

Submission of inventory:

Compiled inventory should be submitted to the COP/CMA in a transparent manner in accordance with the **MPG & Decision 5/CMA.3**, in the form of national inventory document (**NID**) and common reporting tables (**CRTs**).