MRV of GHG: How can we apply to NAMAs?

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MRV of GHG: Sufficient experiences and knowledge

- MRV of GHG is not a new issue
- Sufficient knowledge and experiences accumulated through implementation of ETS, GHG reporting programme, CDM and other GHG schemes over the past decade
- MRV systems in the existing schemes have been well established
- The issue: How can we "MRV of GHG" apply to NAMAs based on the past experiences and accumulated knowledge?

Types of GHG-MRV

| Type of MRV | Purpose | Methodology (for M/R) | Methodology (for V) | Implementation body (for M/R) | Implementation body (for IV) |
|--|---|---|---|--|---|
| Type I MRV: GHG emissions at organisation level | Determination of GHG emissions from covered entity | Monitoring reporting guideline | verification guideline | Covered entity | Third party verification body |
| Type II MRV: GHG reduction at project level | Crediting of GHG reduction realized by individual project | Monitoring/ baseline/ calculation methodologies | verification guideline | Project participant | Third party verification body |
| Type III MRV: GHG emissions at national level | Determination of GHG emissions at national level/ compliance assessment for Kyoto Protocol | IPCC Guidelines and UNFCCC COP/CMP Decisions | UNFCCC COP/CMP Decisions and Kyoto Protocol Art.8 | National government | Expert Review Team under UNFCCCC/ Kyoto Protocol Art.8 |
| Type IV MRV: Evaluation of GHG reduction induced by policy/measure incl. NAMAs | Evaluation of GHG reduction induced by policy/measure incl. NAMAs | International MRV guidelines/ Domestic general MRV guidelines (unavailable) | International MRV guidelines/ Domestic general MRV guidelines (unavailable) | Unknown (but likely to be national government that implemented policy/measure) | Unknown (but likely to be International Consultation and Analysis :ICA) |

Types of GHG-MRV

| Type of MRV | Characteristics | Examples in the world | Examples in Japan |
|--|---|--|---|
| Type I MRV: GHG emission at organisation level | Required MRV level is very high Sufficient knowledge/ experiences accumulated Well-established MRV system | EU-ETS Climate Registry (US) California Climate Action Registry (US), Korean ETS Australian ETS NZ-ETS | -JVETS (MoE) - Tokyo Metropolitan Government ETS - Saitama Prefecture ETS |
| Type II MRV: GHG reduction at project level | Required MRV level is very high Well established MRV system, Some technical issues remain for further improvement in monitoring/baseline setting/additionality demonstration | CDMVCSK-VER (Korea)T-VER (Thailand)NCS (Indonesia) | -J-VER (MoE) -Domestic Credit Scheme (METI) -BOCM (under development) |
| Type III MRV: GHG emission at national level | Required level of MRV: Medium Well established MRV system at developed countries Not yet well established at developing countries | -Submission and review of National GHG Inventory | - Submission and review of Japanese National GHG Inventory |
| Type IV MRV: Evaluation of GHG reduction induced by policy/measure incl. NAMAs | - Undeveloped MRV system -Required level of MRV is unknown (probably Medium?) - Will be important for effective implementation of the Cancun Agreement | - Unavailable | -Unavailable |

MRV of GHG reduction induced by policy/measure incl. NAMAs?

- NAMAs can include various types of policies ranging from project level to macroeconomic approaches
- MRV of NAMAs (Type IV) can be a complex structure overlapping with any of Type I – III, but also building its own cross-sectional form
- Establishment of Type IV is highly intellectual work that needs comprehensive knowledge and experiences with the existing Type I - III

MRV of GHG reduction induced by policy/measure incl. NAMAs?

- NAMAs can be divided into project, organisation and national levels and cross-sectional policy/measure
 - For NAMAs at project level: Type II can be applicable with standarised baseline setting, but without very high accuracy and additionality demonstration
 - For NAMAs at organisation level: Type I can be applicable without very high accuracy
 - For NAMAs at national level: Type III can be directly applicable without major changes
 - For NAMAs by cross-sectional policy/measure: remains for further research, but possibly a rough estimation with standarised baseline in a very conservative manner