



Strengthening Measurement, Reporting, and Verification Systems

for the Enhanced Transparency Framework
under the Paris Agreement



● Why MRV?

Measurement, reporting, and verification (MRV) systems bring consistency and enhance accuracy and transparency in reporting national and sectoral level emissions through standardized and optimized calculations that avoid double counting and promote quality management. Most developing countries face challenges in establishing and operating MRV systems due to insufficient greenhouse gas (GHG) data and inadequate capacity of government agencies.

Reliable, detailed GHG data generated from a systematic MRV process helps governments and policymakers formulate comprehensive sector or economy-wide policies by facilitating sustainable institutional arrangements and embracing enhanced transparency. MRV systems also create opportunities to identify sectors-specific mitigation potential and attract investment and financing to implement national or sub-national mitigation projects.

● GGGI MRV Program Impact

Climate Finance

Quantifying actual emissions reductions which lead to creating incentives for countries to explore cooperative approaches including carbon markets under the Article 6 of the Paris Agreement.

Achievement of SDGs

Contributing to achieving the Sustainable Development Goals (SDGs), notably Goal 7 (Affordable and Clean Energy), Goal 13 (Climate Action), and Goal 17 (Partnerships for the goals).

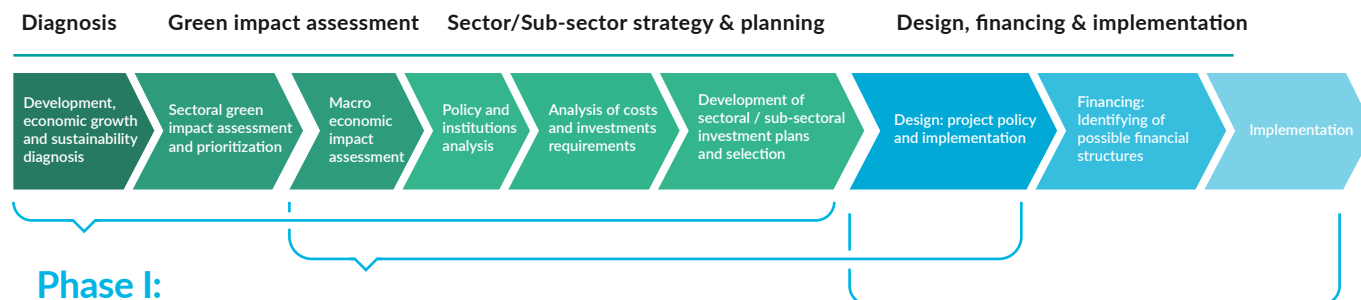
Climate Technology

Identifying opportunities for potential technology transfer, which plays a critical role in the global response to addressing climate change.

NDC Implementation

Generating credible emission information to report on progress and mobilize resources to regularly update and achieve NDC targets.

● MRV Projects throughout the GGGI Value Chain



Phase I: Planning

- Data gap analysis
- Analysis on institutional arrangements
- Guidelines for the development of MRV systems

Phase II: Implementation

- Spreadsheets and tools for estimating emission sources
- Emission quantification methodologies
- Master plan for the development of national MRV systems

Phase III: Operation

- QA & QC guidelines and enforcement mechanisms
- Policy recommendations for bankable projects along sectoral mitigation targets and actions
- Training for capacity development including knowledge sharing

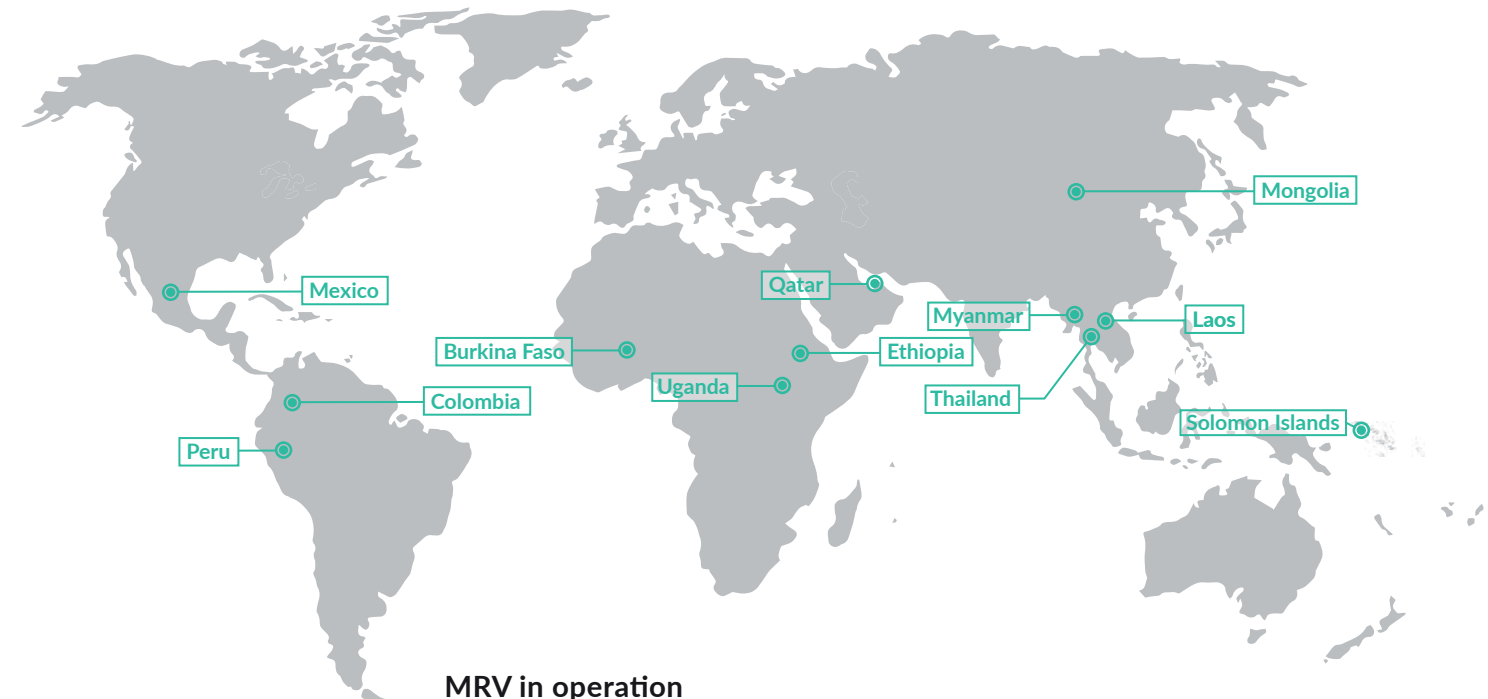
● MRV Projects in GGGI Members and Partner Countries

Designing MRV systems

GGGI is undertaking rapid assessments involving key category analyses in parallel with data gap analyses, as well as developing sector-specific MRV guidelines and national MRV master plans in **Qatar** and **Burkina Faso**.

Developing MRV systems

In 2018, GGGI carried out rapid assessments including gaps and challenges in reporting as well as institutional, legal, and procedural arrangements for establishing national MRV systems in **Mongolia**, **Myanmar**, **Lao PDR**, and **Uganda**. Based on these assessments, GGGI is initiating the development of national MRV Master Plans to further analyze appropriate models for effective MRV system to identify green investment opportunities part of the next NDC target-setting process.



MRV in operation

Knowledge sharing in Latin America

Since 2017, GGGI has hosted the MRV forum in **Latin America** to transfer lessons learned for potential replication and prompt joint mitigation actions with enhanced transparency for Latin American countries.

The government of **Ethiopia** has established a national MRV system and registry to track progress of its Climate Resilient Green Economy (CRGE) national development strategy. GGGI has hosted intensive capacity building trainings and produced teaching materials to further support proper management of Ethiopia's existing MRV scheme.

Capacity building in SIDS

GGGI is supporting the development of national MRV systems in small island developing states (SIDS), aiming at strengthening the capacity of national institutions to track NDC implementation and transparency efforts, starting in the **Solomon Islands**.



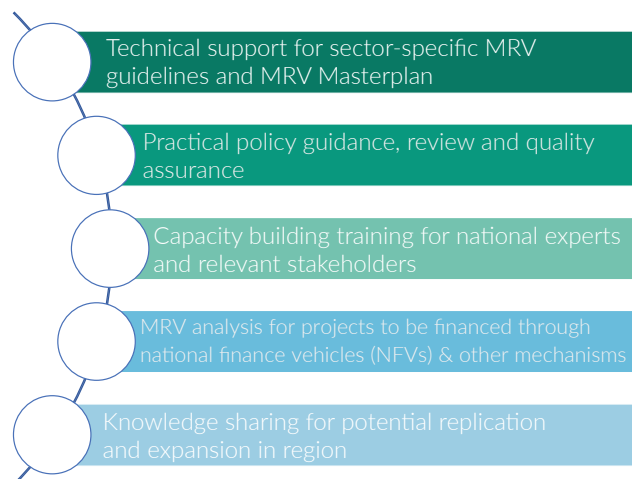
First Latin American Regional Forum "Defining an Agenda for Improving Transparency through Strengthening of MRV Mechanisms" in Mexico City on December 4-5, 2017, in collaboration with the Secretariat of the Environment and Natural Resources of Mexico (SEMARNAT), the Mexican Agency for International Development Cooperation (AMEXCID), and the Green Technology Center Korea (GTC-K). (Photo credit: Polea)

How We Work

GGGI launched its MRV program in 2017 upon request from its member and partner countries to support their efforts to track progress and enhance transparency in measuring, verifying, and reporting greenhouse gas emissions and climate change mitigation efforts towards NDC implementation under the Paris Agreement.

In collaboration with a variety of competent partners, GGGI's MRV program supports establishing and embedding robust MRV systems in line with national development strategies.

MRV program activities include:



“Since the Paris Agreement was signed in 2015, many of GGGI's Member countries have shown direct interest in improving their MRV system. GGGI supports countries to enter into the carbon market by bringing data together.”

Frank Rijsberman, GGGI Director-General



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Our Approach

- Partnering with developing and emerging countries to design and deliver programs and services that demonstrate new pathways to pro-poor economic growth.
- Providing Member countries with the tools to help build institutional capacity and develop green growth policy, strengthen peer learning and knowledge sharing, and engage private investors and public donors.
- Leveraging a comprehensive network and governance structure to facilitate a multi-directional and multi-sectoral sharing of knowledge between South-South countries, while gathering global actors with the potential to set and drive the international agenda on green growth.

Global Green Growth Institute

The Global Green Growth Institute (GGGI) is a treaty-based international, inter-governmental organization dedicated to supporting and promoting strong, inclusive and sustainable economic growth in developing countries and emerging economies. GGGI was established in 2012, at the Rio+20 United Nations Conference on Sustainable Development, and currently consists of 31 Member countries around the world. GGGI's mission is to support the transition of its Member and partner countries toward a model of green growth by developing and implementing strategies that simultaneously achieve poverty reduction, social inclusion, environmental sustainability and economic growth. By pursuing this mission, GGGI aims to achieve its vision of a resilient world of strong, inclusive and sustainable green growth.

GGGI's interventions emphasize change in four priority areas considered to be essential to transforming countries' economies including:



SUSTAINABLE
ENERGY



WATER &
SANITATION



GREEN
CITIES



SUSTAINABLE
LANDSCAPES

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