

Developing Implementation Capacity for a Low-Carbon Asia: Opportunities and challenges in MRV



the society of greenhouse gas professionals

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About GHGMI

Mission

“To build and support a global community of experts with the highest standards of professional practice in measuring, accounting, auditing, and managing greenhouse gas emissions.”

Methods

Train, network, and certify MRV practitioners

Vision

Professionalize the practice of MRV

MRV is important at all scales

- What do we mean when we talk about MRV?
- GHG accounting frameworks assign ownership at all scales:
 - Global
 - National
 - Sub-national
 - Sectoral
 - Entity
 - Product/supply chain
 - Facility
 - Project
- MRV exists at all scales, with very different implementation challenges

MRV: A human resources challenge

- Political challenges
 - International negotiations
- Technical challenges
 - Standards development
- Implementation challenges
 - Systems/data quality
 - **Human resources**
 - Training
 - Experience

MRV human resources development in Asia

- Varies by scale, country, program
 - Long-standing international programs
 - National inventory reporting, CDM
 - “Next generation” of climate programs
 - Increased national inventory reporting
 - Non-annex 1 biennial reports under UNFCCC
 - New sectoral/subnational inventories for:
 - NAMAs, LEDS, REDD+, etc.
 - New organization/facility-level reporting for:
 - Emissions trading, voluntary registries, supply chain, etc.
- **Expansion of MRV requires expansion of MRV workforce**

Asian MRV human resources development under the CDM

- Large-scale expansion of MRV into Asia
- But did it transfer capacity North-South?
 - At first
 - Predominantly Northern experts
 - With time
 - Domestic services appeared in larger economies
 - Local verification bodies incorporated in region
 - Yet...
 - Experience/capacity varies widely by country
 - Accreditation biased toward large Northern VBs
 - Northern experts still integral across region

Innovating MRV skills development in Filipino LGUs

- USAID C-Energy Program
 - Program objective to build sub-national inventory human resource capacity in LGUs
 - Methods
 - e-learning: Fixed curriculum on MRV concepts
 - Workshops: Follow on in-country sessions
 - Mentoring: Pairing MRV experts with Filipino counterparts
 - Model
 - Flexible: Fixed e-learning + customizable workshops
 - Cost-effective: Higher learning outcomes per \$¥£€
 - Replicable and scalable: Consistent + low marginal cost

Challenges in MRV skills development

- Size: Ever-more MRV required
- Scope: Ever-growing diversity of scales
- Skills: Insufficient number of experts
- **Bottom line: Concerted training and capacity building efforts are necessary today to implement tomorrow's climate programs**

Opportunities in MRV skills development

- Lessons learned: MRV experience in other scales and applications
- Curricular innovation: e-learning, higher ed involvement, common curriculum
- Professionalization: Growing professional community, norms, and certification
- **Bottom line: Intelligent skills development investments can build tomorrow's implementation capacity**

GHGMI Asian MRV training

- **USAID C-Energy program (PH)**
 - Focused training for Filipino LGUs
- **USAID Low Emission Asian Development Program (TH, Pan-Asian)**
 - University training center at AIT launching 2013
- **Energy & Climate Registry (China)**
 - Mandarin language voluntary inventory training
- **GHGMI course catalogue (Global)**
 - Available on-demand globally via e-learning

..not one solution, but response must be scalable!

More Information

GHG Management Institute

www.ghginstitute.org

USAID Philippines C-Energy program

www.cenergy.ph/

USAID Low Emission Asian Development program

www.lowemissionsasia.org/

China Energy & Climate Registry

www.chinaclimateregistry.org

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