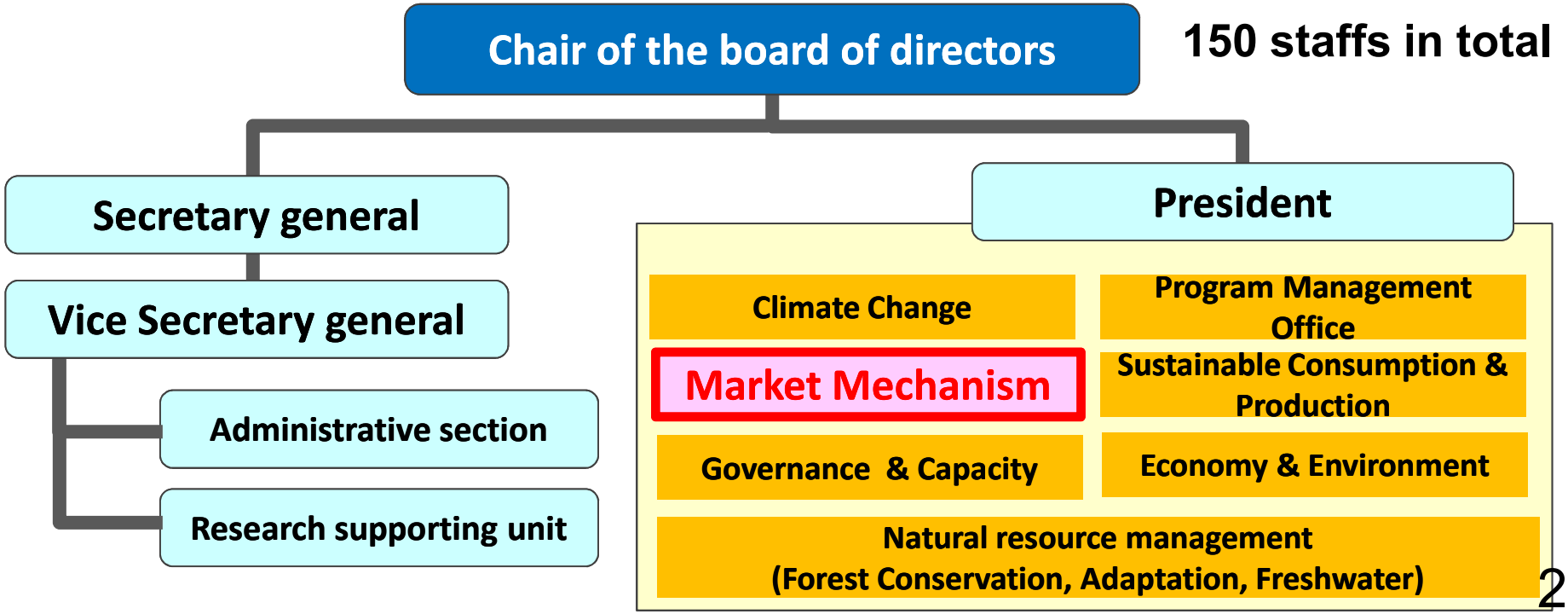
Capacity Building Activities for BOCM

Akihisa Kuriyama
Associate Researcher, Market Mechanism Group
Institute for Global Environmental Strategies (IGES)

IGES Overview

Institute for Global Environmental Strategies (IGES) was established under an initiative by Japanese government in 1998. IGES conducts policy research to achieve a sustainable development in Asia Pacific Region. There are 5 Branch offices (Beijing, Bangkok, Tokyo, Kansai and Kita-kyusyu).



IGES Capacity Building Activities

- Since 2003, IGES has conducted CDM/JI capacity building (CB) with some of collaborating countries.
- In 2011 IGES started MRV capacity building for new market mechanisms including BOCM. Our activities have 4 components in 10 collaborating countries.

- **Bilateral Offset Credit Mechanism**
- **Domestic market readiness**

(Support of the designing of ETS & domestic carbon market and Research etc)

- **Reform of CDM**

(Development of standardized baselines, Policy proposals to CDM EB and UNFCCC secretariat)

- **Development of Database and Publication**

CB Activities by countries in FY2012

Purpose for CB	Countries	Activities
BOCM, CDM and MRV methodologies	Cambodia Lao PDR Mongolia Viet Nam	• **Introduction to BOCM for government and private sector** • **Development of MRV methodology for BOCM** • Support for CDM such as standardized baseline and PoA
CB for domestic emission trading and voluntary carbon markets	China Indonesia Thailand	• Development of MRV methodology • CB for verification bodies • CB for development of registry system • Training tours on low carbon development in Japanese cities
CB for carbon market scheme including CDM	India Myanmar Philippines	• Development MRV methodology • **Workshop on BOCM**

CB activities for BOCM

Activities	Status
Discuss the framework of BOCM with host countries through the **workshops**	On-going
Decide the **pilot sectors** for developing MRV methodologies under BOCM	On-going
Develop the **MRV methodology**	Under preparation
Disseminate the knowledge and expertise on the prepared methodologies to government staffs, project developers and relevant stakeholders through the workshops	Planned (1st quarter of 2013)
Conduct the **capacity building for the verification** of potential projects under BOCM by government staffs and any other potential GHG validation and verification bodies	To be considered

Development of MRV methodologies

The BOCM methodologies should:

- Be simplified, objective and practical, while lowering uncertainty and ensuring environmental integrity,
- Accelerate the deployment of low carbon technologies, products and services, taking into account the national circumstances in host countries,
- Facilitate the nationally appropriate mitigation actions (NAMAs) in host countries.

Countries	Sectors considered
Cambodia	Biomass (Rice husk)
Lao PDR	Waste (Composting)
Mongolia	Fuel switch (Bio diesel)
Viet Nam	Energy efficiency

Main components of MRV methodologies in the Lao case

Eligibility criteria (proposed)

- Project boundary

-Each city or town

- Technology of project activity

-Mechanical biological treatment system

- Description of compliances

-Implementation of waste separation practice by residents

Format for monitoring data

$$BE_{CH4,SWDS,y} = \varphi_y \cdot (1 - f_y) \cdot GWP_{CH4} \cdot (1 - OX) \cdot \frac{16}{12} \cdot F \cdot DOC_{f,y} \cdot MCF_y \cdot \sum_{x=1}^{y} \sum_{j} w_{j,y} \cdot DOC_j \cdot e^{-k_j \cdot (y-k)} \cdot (1 - e^{-k_j})$$

$$PE_{COMP,m} = Q_{compost} \times EF_{comp}$$

		Date	Quantity of waste composted	Composition of waste: Wood and wood products	Pulp, paper, and cardboard (other than sludge)	Food, food waste, beverages and tobacco	Textiles	Garden, yard and park waste	Glass, Plastic, metal, other inert waste	TOTAL	Total BE by the end of crediting period	Total PE/month
		month/year	ton	%	%	%	%	%	%	%	tCO2	tCO2
1st year	1st month									0%	0	0
	2nd month									0%	0	0
	3rd month									0%	0	0
	4th month									0%	0	0
	5th month									0%	0	0
	6th month									0%	0	0
	7th month									0%	0	0
	8th month									0%	0	0
	9th month									0%	0	0
	10th month									0%	0	0
	11th month									0%	0	0
	12th month									0%	0	0
2nd year	1st month									0%	0	0
	2nd month									0%	0	0
	3rd month									0%	0	0
	4th month									0%	0	0
	5th month									0%	0	0
	6th month									0%	0	0
	7th month									0%	0	0
	8th month									0%	0	0
	9th month									0%	0	0
	10th month									0%	0	0
	11th month									0%	0	0
	12th month									0%	0	0
3rd year	1st month									0%	0	0
	2nd month									0%	0	0
	3rd month									0%	0	0

CO2 Emission Reduction	Unit
#DIV/0!	tCO_2/y

Lessons learnt from CB activities on MRV and BOCM

- Need to enhance understanding on what is BOCM.
- Need to closely work with government and private sectors to develop simple and practical MRV methodology for BOCM.
- Need to engage more relevant stakeholders in order to provide more capacity building for local GHG validation and verification bodies .