

Waste Management Research and Related Activities of Institute for Global Environmental Strategies (IGES)

Nirmala Menikpura, PhD and Yasuhiko Hotta, PhD

**Sustainable Consumption and Production Group
Institute for Global Environmental Strategies**



Workshop on GPWM:16-18 April 2012, Osaka, Japan



About

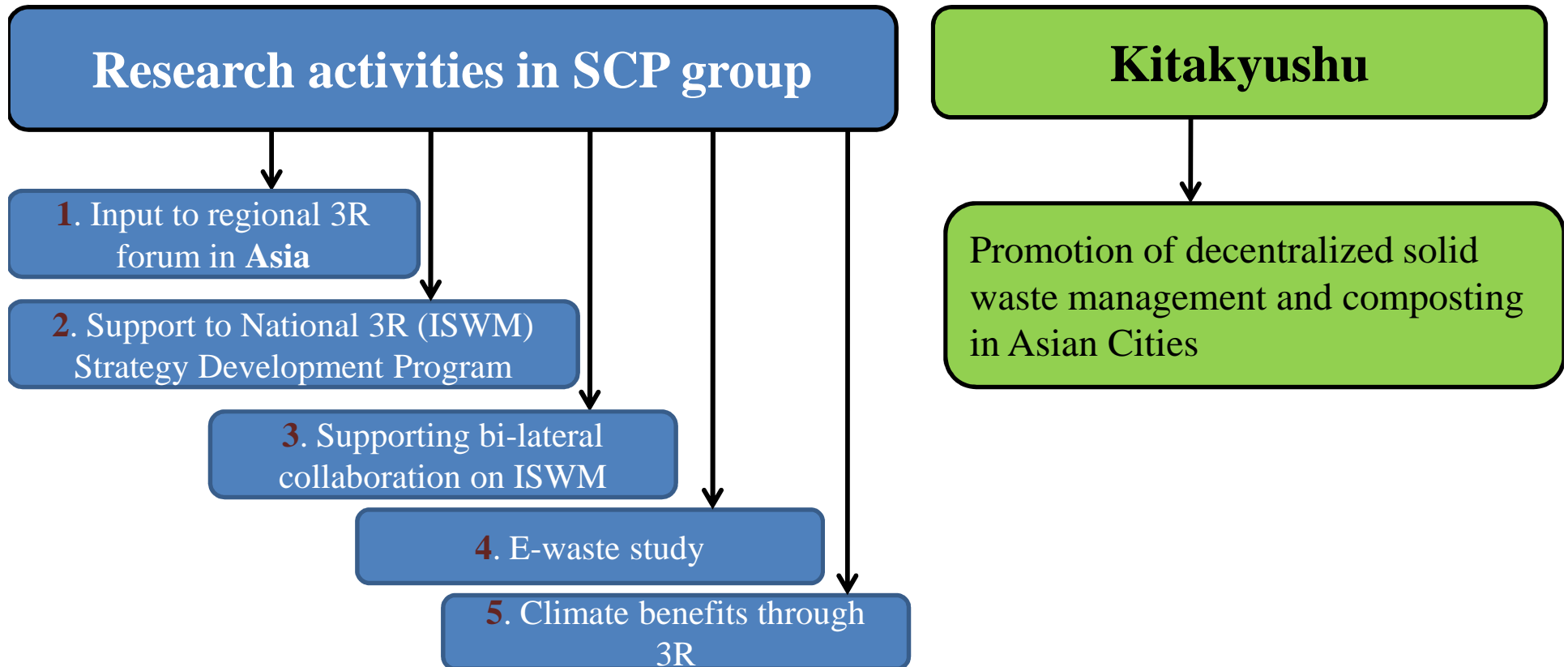


Institute for Global Environmental Strategies
公益財団法人 地球環境戦略研究機関

- The Institute for Global Environmental Strategies (IGES), established under an initiative of the Japanese government in 1998.
- It is an international research institute conducting practical and innovative research for realizing sustainable development in the Asia-Pacific region.
- HQ is located in Hayama, Kanagawa, Japan. With offices in Tokyo, Kobe, Kitakyushu, Beijing, and Bangkok.
- 155 Staffs (95 research staff. About one fourth of the staffs are non-Japanese) in June 2011.
- Three thematic group: Climate Change (including Market Mechanism), Natural Resource Management, and Sustainable Consumption and Production.
- Four cross-cutting issue groups: Environment and Economics, Governance and Capacity Development, Business and Environment, Local Governmental Initiative

Research Activities of IGES on Waste Management

Sustainable Consumption and Production (SCP) Group (April 2010 March 2013): 9 full-time researchers from various countries with various academic background.

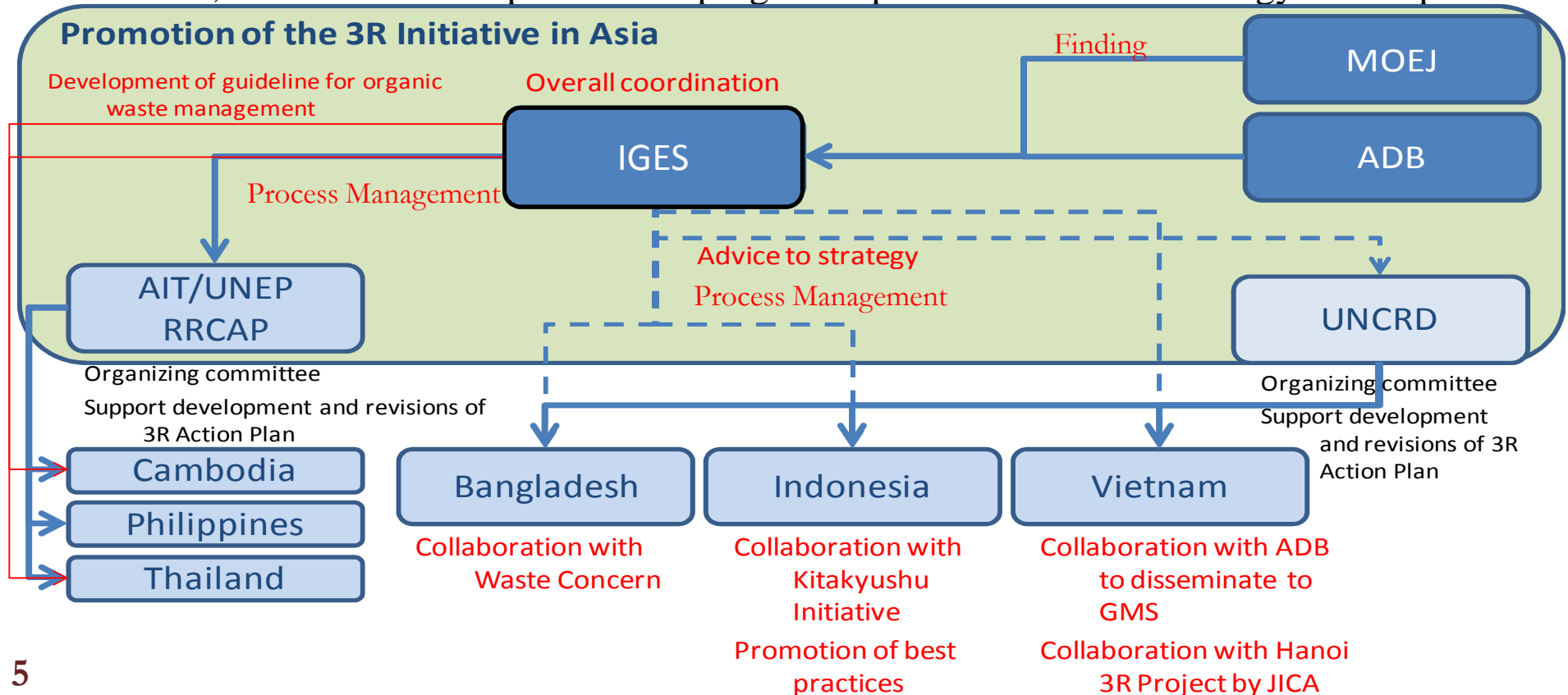


Regional 3R Forum in Asia

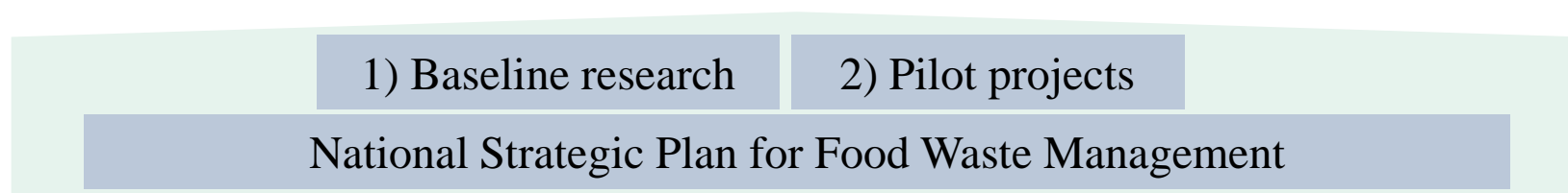
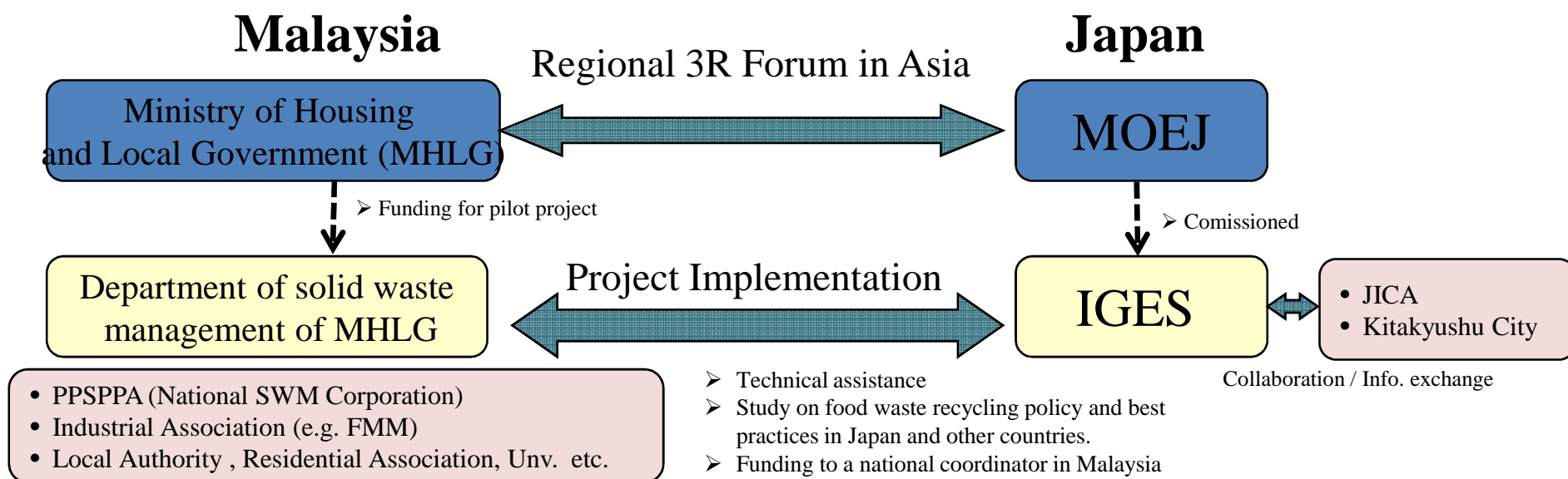
- IGES has been coordinating a research network associated with the 3 R forum.
- Proposed to launch at East Asia Summit Environmental Ministers Meeting in Hanoi, 2008. Launched in Tokyo in 2009.
- Most of AP countries and major international organizations including UNEP, UNCRD, ADB, and UNDESA are taking part in the forum.
- 2nd Meeting held in Kuala Lumpur in 2010, 3rd in Singapore in 2011, and 4th in Hanoi in March 2013
- Outcome document of 3rd Regional 3R Forum in Asia was submitted by Singapore government to RIO+20 process.
- 4th Regional 3R Forum in Asia will be held in Hanoi, March 2013. Hanoi declaration would be agreed. List of 3R indicators would be proposed.

National 3R (ISWM) Strategy Development Program

- A major project in Asia funded by the government of Japan.
- Identification of needs, conducting surveys, organizing committees, and provide technical advices towards national 3R strategy development.
- UNCRD , UNEP and IGES published a progress report "National 3R Strategy Development:

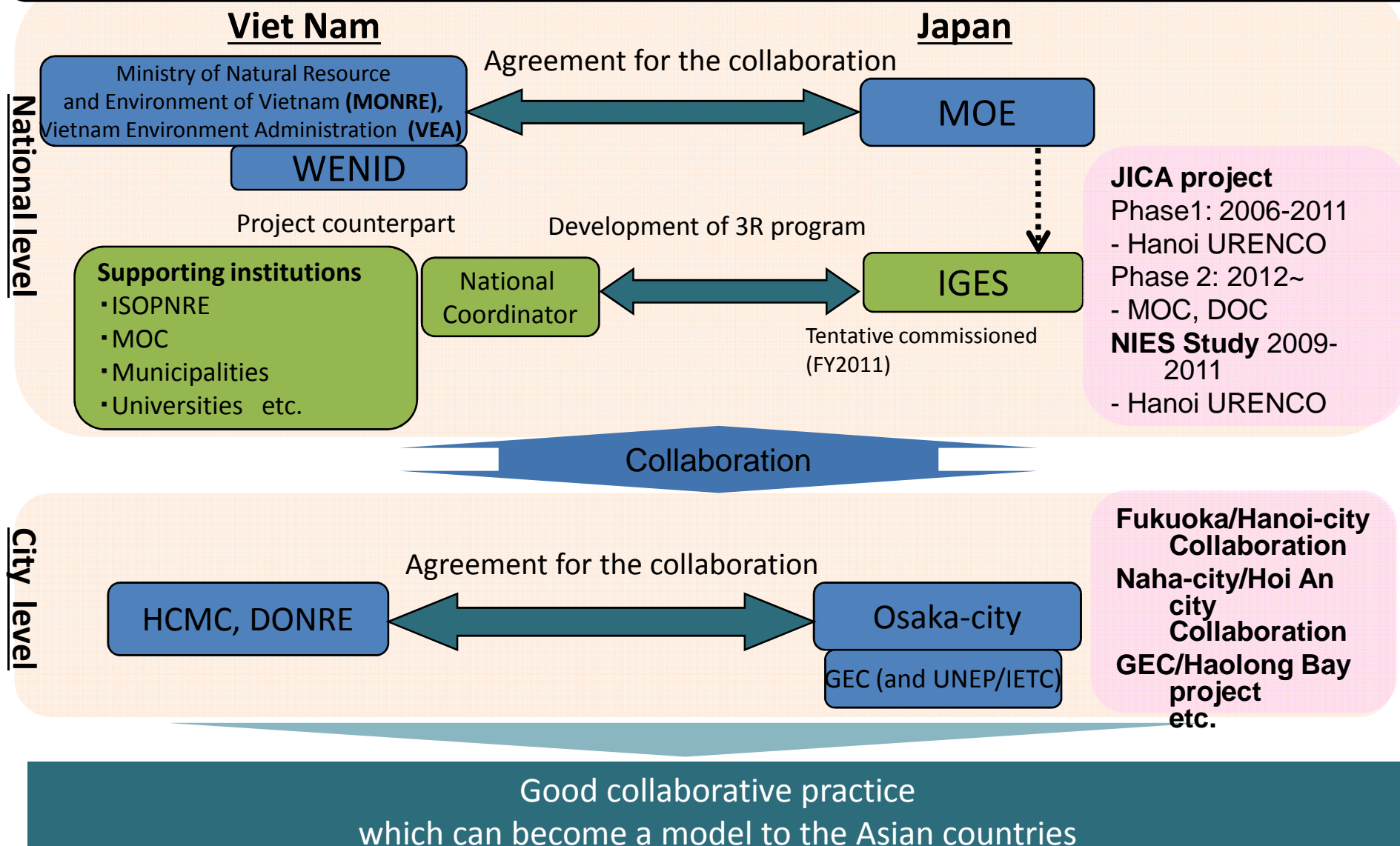


Development of Food Waste Management Strategy in Malaysia (collaboration of MOEJ and MHLG) since 2010



A model case for facilitating regional cooperation to promote 3Rs in other Asian countries

Viet Nam-Japan Collaboration for 3R Programme development from 2011

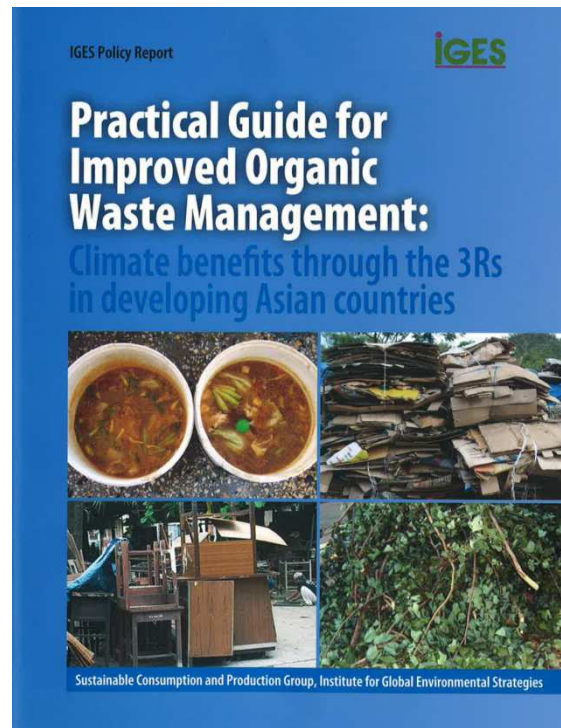
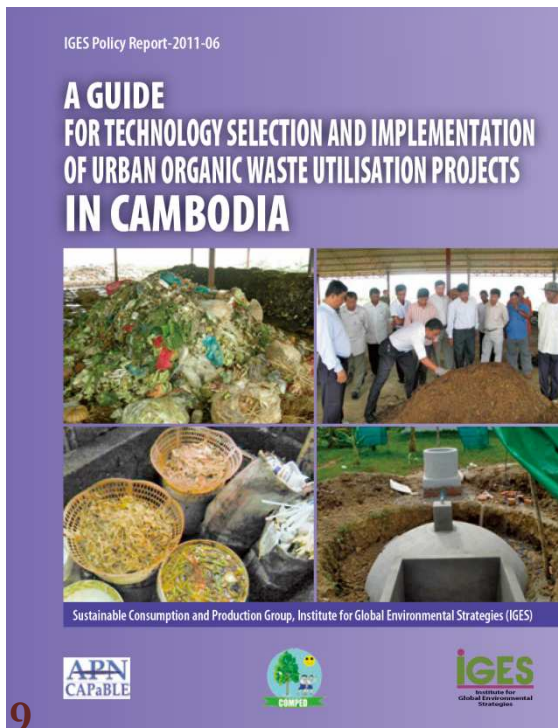


E-waste study at IGES

- IGES published a policy report “Extended Producer Responsibility in East Asia” in 2009.
- IGES published a policy brief in 2011 titled “EPR Policies for Electronics in Developing Asia: A Phase-in Approach” based a paper published in *Waste Management and Research*
- IGES is now conducting a study titled “Research to Examine the Possibility to Introduce Recycling Certification in Asia” funded by MOEJ.
- UNIDO, UNCRD and MONORE is going to organize GMS training workshop on building capacity to deal with the illegal shipments of e-waste and near-end-of-life electronics in July 11-13 in Hanoi. IGES is going to organize expert WS on recycling certification.
- SCP group deputy director is now a member of advisory group for MOEJ on EMS guideline development under Basel Process.

Climate benefits and resource savings through 3R

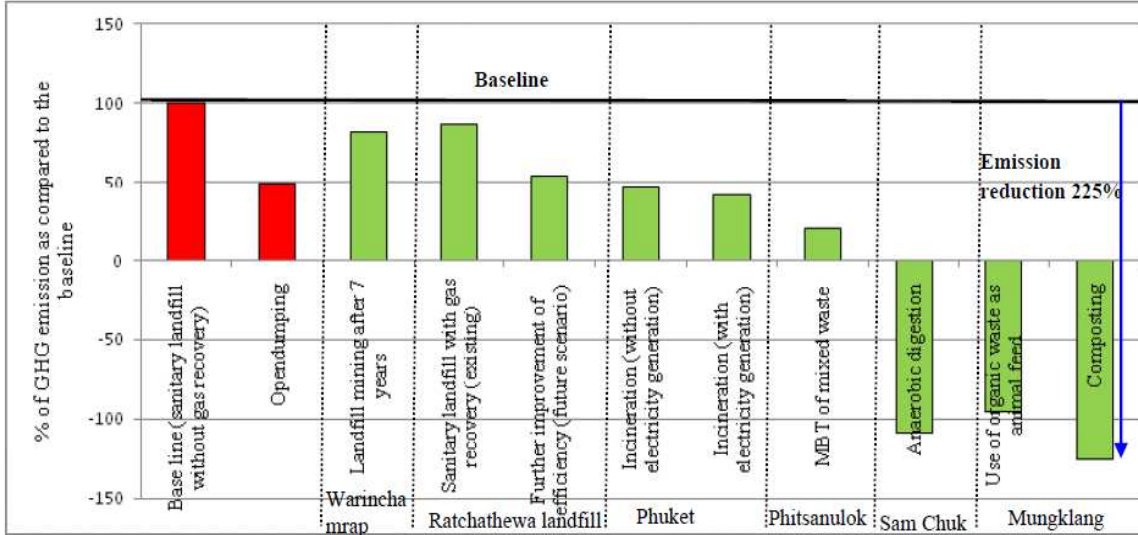
- IGES published policy reports on “practical guide for improved organic waste management” in four languages (English, Thai, Khmer, Laotian) and “Technology selection and implementation of organic waste utilisation projects in Cambodia”
- IGES conducted training workshops on accounting and utilising GHG emission reduction measures for local waste management actors in Cambodia, Lao and Thailand



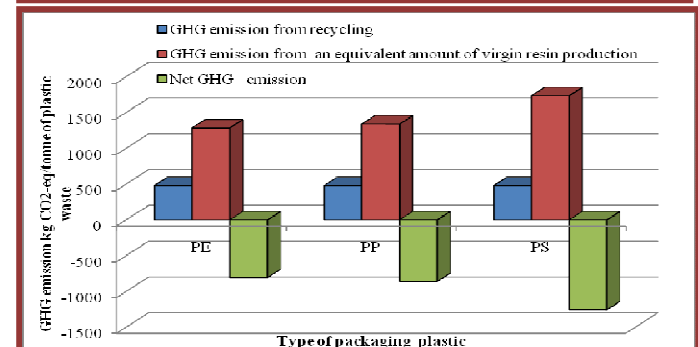
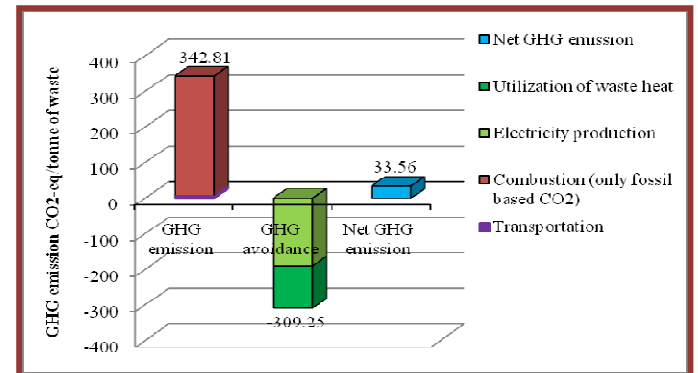
Climate benefits and resource savings through 3R

- IGES involved in capacity building of MRV (Measurement, Reporting and Verification) and contribute to the discussion at international, regional and local levels
- Development of useful policy and methodological tools for NAMAs (nationally appropriate mitigation actions) and new market mechanism

Quantification of life cycle GHG emissions from all the existing waste management methods in Thailand



GHG emissions from incineration and recycling of packaging plastics in Japan



Research Activities in Kitakyushu

Decentralized solid waste management and composting in Asian Cities

- Research and documentation of good practices and lessons learned,
- Information sharing, training and capacity-building through workshops and seminars,
- Technical assistance for selected local governments in making action plans for implementation and supporting national governments in creating enabling policies and strategic frameworks for supporting these local efforts.

Established a model project in Surabaya City under the Kitakyushu Initiative



Expansion of similar activities in other Asian Cities in cooperation with Kitakyushu City, KITA, IICA and others



Possible topics for the future research activities

- **Developing methodologies and capacity building on MRV** in Asian countries with a view to support the Bilateral Offset Credit Mechanisms (BOCM)
- **Developing simulations** (applicable at local authority level) of **zero GHG emissions** waste management via ISWM in life cycle perspective
- Developing guideline and capacity development for **3R policy indicators** for developing countries.
- How to develop **environmentally-sound recycling industries** in developing countries.
- How to improve reflection of “**reduction**”, “**reuse**”, and “**recycling**” to current **climate-related multi-lateral/global funds and financial schemes**.
- Addressing policy challenges associated with **Sustainable Resource Management/ Sustainable Materials Management** (especially related to decoupling/reduction).

THANK YOU VERY MUCH FOR YOUR ATTENTION

Nirmala Menikpura, PhD and Yasuhiko Hotta, PhD
Sustainable Consumption and Production (SCP) Group
Institute of Global Environmental Strategies (IGES)
E-mail: menikpura@iges.or.jp, hotta@iges.or.jp