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

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Workshop on GPWM:16-18 April 2012, Osaka, Japan
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.
Sustainable Consumption and Production (SCP) Group (April 2010 – March 2013): 9 full-time researchers from various countries with various academic background.

Research activities in SCP group

1. Input to regional 3R forum in Asia
2. Support to National 3R (ISWM) Strategy Development Program
3. Supporting bi-lateral collaboration on ISWM
4. E-waste study
5. Climate benefits through 3R

Kitakyushu

Promotion of decentralized solid waste management and composting in Asian Cities
Regional 3R Forum in Asia

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

Malaysia

Ministry of Housing and Local Government (MHLG)

Department of solid waste management of MHLG

Japan

MOEJ

IGES

• Technical assistance
• Study on food waste recycling policy and best practices in Japan and other countries.
• Funding to a national coordinator in Malaysia

Regional 3R Forum in Asia

Project Implementation

Funding for pilot project

Collaboration / Info. exchange

MOEJ

IGES

• JICA
• Kitakyushu City

1) Baseline research
2) Pilot projects

National Strategic Plan for Food Waste Management

A model case for facilitating regional cooperation to promote 3Rs in other Asian countries
Viet Nam-Japan Collaboration for 3R Programme development from 2011

**Viet Nam**

- Ministry of Natural Resource and Environment of Vietnam (MONRE), Vietnam Environment Administration (VEA)
- Supporting institutions: ISOPNRE, MOC, Municipalities, Universities etc.
- WENID (Project counterpart)

**Japan**

- MOE
- IGES (Development of 3R program)
- National Coordinator
- Tentative commissioned (FY2011)

**Agreement for the collaboration**

- JICA project
  - Phase 1: 2006-2011 - Hanoi URENCO
  - Phase 2: 2012~ - MOC, DOC
- NIES Study 2009-2011 - Hanoi URENCO

**Collaboration**

**City level**

- HCMC, DONRE (Agreement for the collaboration)
- Osaka-city (GEC (and UNEP/IETC))

**National level**

- Good collaborative practice which can become a model to the Asian countries

- Fukuoka/Hanoi-city Collaboration
- Naha-city/Hoi An city Collaboration
- GEC/Haolong Bay project etc.


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 a 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 an expert WS on recycling certification.

SCP group deputy director is now a member of the 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.
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, JICA 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

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