

Potential Contribution of ERIA to Environmentally Sustainable Cities

Michikazu KOJIMA

Senior Research Fellow
Institute of Developing
Economies
JETRO



Project Coordinator
ERIA Working Group on
3R Policy in Southeast and
East Asian Countries



INTRODUCTION OF ERIA

The Objective of ERIA

- Economic Research Institute for Southeast and East Asia (ERIA) is a new international organization that supports the ASEAN Secretariat by making policy recommendations at regional governmental meetings, such as the East Asia Summit (EAS), aimed at furthering East Asia's economic integration.
- 16 members of the EAS: Australia, Brunei, Cambodia, China, India, Indonesia, Japan, Korea, Laos, Malaysia, Myanmar, New Zealand, Philippines, Singapore, Thailand and Vietnam

Brief History of ERIA

- January 2007: The idea of ERIA was first proposed by Japan at the Second East Asia Summit in Cebu .
- November 2007: Establishment of ERIA was agreed by leaders of all 16 countries at the EAS in Singapore
- June 2008: ERIA was formally established. Office is located in Jakarta.

Major Activities

- Research: Working groups are organized for joint research. Experts are coming from various countries.
 - WG on Energy, including sub-group of energy saving and, bio-diesel
 - **WG on 3R Policies**
- Capacity Development Program
 - The current major target of capacity development programs are government officers in CLMV countries.

WG of Energy

- Three sub-working group
 - Energy Saving
 - Analyzing energy saving potential in East Asian Region
 - Biomass Utilization
 - Formulated “Asia Biomass Energy Principles” were framed and reported to East Asian Summit of Energy Ministers and endorsed by the Ministers
 - Bio-Fuel Standardization
 - Benchmarking bio-fuel standard

Working Group on 3R in ERIA

- Objective: to share the experiences in 3R policies in the region and to formulate vision on regional 3R policies in Asia.
- Duration: First Workshop was organized in February 2009.
- Topics: Roles of and coordination among stakeholders(including EPR), Industrial Standard for Recycled Goods, Policy for Developing Recycling Industry (Eco-town, Recycling Industrial Park) and others.
- Members: 13 experts from East and Southeast Asian countries have participated.

Members of ERIA 3R Policy Working Group

- Leader: Enri Damanhuri (Professor, Bandung Institute of Technology, Indonesia)
- Coordinator: Michikazu Kojima (Senior Research Fellow, IDE-JETRO, Japan)
- Members
 - Lisa C. Antonio, (Philippine Business for Environment, Philippines)
 - Thumrongrut Mungcharoen (Expert, National Metal and Materials Technology Center, and Professor, Kasetsart University, Thailand)
 - Ahmad Fariz Mohamed (Senior Research Fellow, Universiti Kebangsaan Malaysia, Malaysia)
 - Peck Thian Guan (Director, Office of Safety, Health and Environment, National University of Singapore)
 - Trung Hai Huynh (Associate Professor, Institute for Environmental Science and Technology, Vietnam)
 - Yasuhiko Hotta (Sub-manager, Institute for Global Environmental Studies)
 - Atsushi Terazono (Chief, International Material Cycles Section, National Institute for Environmental Studies)
 - Panrat Phechpakdee (Director of Industrial Environment Institute, Federation of Thai Industries, Thailand)
 - A.A. Hezri (Institute for Environment & Development, Universiti Kebangsaan Malaysia)
 - Vella Atienza (Research Fellow, IDE-JETRO)
 - Jung Sun-woo (JSPS Research Fellow, IDE-JETRO)

Activities of 3R Policy Working Group

- **Activities:**

- Workshops: 4 workshops had been conducted in Bangkok, Manila, Jakarta and Kuala Lumpur. The fifth workshop will be held in Jakarta in this week.
- Factory Visits: In each workshop, we visited one to three recycling facilities or research institutes, to observe actual situation and have dialogue with stakeholders.
- We had seminar in ITB on March 1, 2010, with dialogue with professors and representatives from local governments. . We will have another seminar in Eco Products International Fair on March 4.

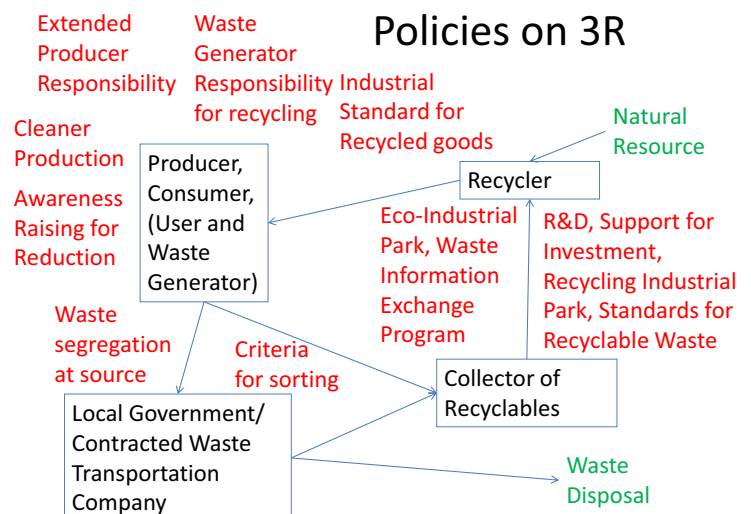


Visit-at PT Multi Hanna, Oct. 2009

RECOMMENDATION FROM 3R POLICY WORKING GROUP OF ERIA

Objectives of 3R programs by the cities

- Reduce the cost of waste disposal
- Reduce the risk of health damage from improper waste management
- Mitigate NIMBY problem of landfill and waste treatment facility
- Increase opportunities to work
- Improve working condition of waste pickers and workers in recycling industry



3R programs by city government (1)

- Collection program for recyclables
 - Various types of Collection Programs: Curb side collection of recyclables, community collection program, buy-back center, drop box in market, collection event in mall, waste bank program in school
- Public Procurement of Recycled Products
 - Purchasing recycled products such as recycled paper, cement using recycled material,.

3R programs by city government (2)

- Promoting and upgrading recycling industry
 - Recycling Industrial Park
 - Establish recycling industrial park to strengthen pollution control to recyclers and to expand the business opportunities of recyclers. East Asian countries establish recycling industrial park. Some region in Thailand also plan to establish Recycling Industrial Park.
 - Industrial Waste Information Exchange Program (IWIEP)
 - IWIEP links suppliers and users of industrial waste. In Japan local governments with chambers of commerce conduct IWIEP program. Similar programs have been conducted in the Philippines and Thailand.

What do we need to take into account, in the process to share the experiences among this region?

- Can Good Practices be replicated?
 - We may not be able to replicate good practices in other country or cities. We should understand the differences of governance structure and social and economic structure. To understand the keys for success and failure of programs, international collaboration research to analyze actual programs is effective.
 - Although we may not replicate good practices, we can learn the way of thinking, and points to be considered in planning and implementation of programs.

Key for Success in 3R programs (1)

- There are many stakeholders in 3R activities.
 - Waste generator (consumer, shop, industry)
 - Waste collection service provider (Local government or contracted private transporter)
 - Collectors of Recyclable Waste
 - Recyclers (informal and formal)
 - User of recycled materials and goods
 - Central government : Regulation/Standard
- City government is one of Key sectors to coordinate stakeholders.

Key for Success in 3R programs (2)

- City government should have good dialogue with these stakeholders to implement 3R programs.
 - If local government conduct source separation program, local government should consult with collectors or recyclers what is recyclables and what is not.
 - If industrial standards for recycled goods are established, it is easier for local government to specify recycled goods in their procurement. Local government should ask recyclers and standard development body in the country to formulate industrial standard.

POTENTIAL COLLABORATION BETWEEN ERIA AND ESC

Potential Future Collaboration (1)

- Policy recommendation from existing working groups such as 3R and Energy may be useful for initiatives of local and central government toward ESC.
- Based on instruction by Ministers of Environment in EAS, ERIA is ready to formulate working group to study policies for ESC.
 - It may be useful to analyze good practices in the region by researchers such as economist, political scientist, engineers and other experts.

Potential Future Collaboration (2)

- A provisional proposal of ERIA Working Group toward ESC
 - Members: Researchers from various background such as economist, political scientist, engineer, urban planning and others focusing on environmental policy in local government.
 - Activities
 - 1st year: Case Studies in each country: Extracting lessons from case studies.
 - 2nd year: Policy recommendation to local government, and central government
- ERIA has own decision making process to determine the activities of working group. Although the activities in the future are not clear, recommendation and suggestion from EAS ministers to ERIA are welcomed.

References

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