JICA Cooperation for SWM and 3R in Asia
with special reference to WEEE/E-waste management

Source Separation Activities (Hanoi)

3R Program (Malaysia)

Japan International Cooperation Agency (JICA)
Global Environment Department

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Regional Workshop on WEEE/E-Waste Management
Today’s Presentation

- Outline of the New JICA
- JICA Cooperation for SWM & 3R in Asia (2008-2010)
- Direction of JICA Cooperation for WEEE/E-Waste Management
• New JICA founded on October 1, 2008
• Creating a new framework to centrally manage Japan’s ODA; technical cooperation, loan assistance and grant aid
• Performing aid to over 150 countries with a total project scale of about US$10 billion

Outline of the New JICA

Official Development Assistance (ODA)

Bilateral aid

Multilateral aid

Technical cooperation

Grant aid*

Loan assistance

New JICA

*With the exception of cases where MoFA continues to perform grant aid itself based on diplomatic strategy reasons.
JICA Cooperation for SWM & 3R in Asia (2008-2010)

Training for East Asia Countries
- Establishment and designing of sound material cycle society for Asian countries (TJ) (2006—2008)

China
- Establishment of Urban Environmental Improvement System and Resources Recycling System in China (GTC) (2007/7—2009/12)
- Xinjiang Uygur Autonomous Region Yining City Comprehensive Environmental Renovation Project (LA) (2005/4—2011/9)
- Anhui Municipal Solid Waste Treatment Project (LA) (2008/1-2012/9)
- Hunan Municipal Solid Waste Treatment Project (LA) (2008/4-2010/12)
- Model Project; Support Da-tong City Construct the Resource Circulative Society (GTC) (2008/4—2011/3)
- Promotion of Circular Economy Project (TC) (2008/10-2013/10)

Pakistan
- Capacity Building Project for Solid Waste Management (TC) (2006/8—2009/3)
- Solid Waste Management for Pakistan (TJ) (2008)

India
- Kolkata Solid Waste Management Improvement Project (LA) (2006/3—2010/11)

Bangladesh
- Improvement of Solid Waste Management in Dhaka City toward the Low Carbon Society (GA) (2009/2-2009/8)
- Strengthening of SWM in Dhaka City - Clean Dhaka Project (TC) (2007/2—2011/2)

Sri Lanka
- Capacity Upgrading Project for the National Solid Waste Management Support Center (TC) (2007/3—2011/3)

TC: Technical Cooperation
TD: Technical Cooperation for Development planning
GTC: Grassroots Technical Cooperation
GA: Grant Aid
LA: Loan Aid
TJ: Training Course in Japan
GT: Group Training in Third Countries
Ex: Expert
Training for East and Southeast Asia Countries

- Establishment of Sound Material Cycle Society for ASEAN Countries -Formulation of Practical Measures- (TJ)(2009-2011)

Thailand
- Capacity Development for Young Officer in SWM (GTC) (2008/4—2010/3)

Cambodia
- Strengthening of Solid Waste Management for the Municipality of Phnom Penh (TC) (2006/10-2008/3)

Malaysia
- Plan and Operation of Program to promote Awareness for 3R of Solid Waste (Naha City Model) (GTC) (2008/4-2011/3)
- Community-Based Solid Waste Management System Development Project in Sibu City (GTC)(2010/6-2011/3)

Indonesia
- Community-Based Solid Waste Management System Development Project in Makassar City (GTC)(2009/8-2010/3)

Vietnam
- Program for the Trainee from Shizuoka City’s Friendship City Hue, Vietnam (GTC) (2006/4—2009/3)
- The Project for Implementation Support for 3R Initiative in Hanoi City (TC) (2006/11—2009/11)
  - Plan and Operation of Program to Promote Awareness for 3R of Solid Waste (Naha City Model) (GTC) (2008/4-2011/3)
  - HaiPhong City Environmental Improvement Project (I) (LA)(2005/4 — 2011/12)

Philippines
- The Study on Recycling Industry Development in the Republic of the Philippines (TD) (2006/7—2008/3)
- The Master Plan on Solid Waste Management for Boracay Island and Municipality of Malay (TD) (2007/3—2008/3)
- Solid Waste Management for Boracay Island and Municipality of Malay (Ex) (2009/7—2010/3)
- Subic Bay Freeport Environment Management Project –Phase II- (LA) (2003/1 — 2010/7)

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Direction of JICA Cooperation for WEEE/E-Waste Management

Manual separation, Dhaka

Copper separation, Zarqa, Jordan
Direction of JICA Cooperation for WEEE/E-Waste Management

JICA can contribute to WEEE/E-waste management with the following approach;

1. Comprehensive Support for Capacity Development (CD)
2. Sharing of Experiences and Information Exchange
3. Promotion of Partnership at the Regional Level
### Issues on SWM in developing countries

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<th>Issue Area</th>
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| **Organizational and institutional issues** | • Managed by several different organizations  
• No comprehensive legislation  
• Fragmented legislations/regulations |
| **Human resources and technical issues** | • Lack of experts and management capacity  
• Lack of technical know-how and technology |
| **Financial issues**             | • Lower priority among public works  
• Difficulty of collecting charges |
| **Economic issues**              | • Rapid growth of waste generation amount  
• Qualitative change of waste |
| **Social issues**                | • Lower status of work in the field of SWM  
• Informal sectors  
• Lower public awareness |
1. Comprehensive Support for CD

- Technical assistance and human resource development
- Creating legal and institutional system
- Improvement of infrastructure, facilities and equipment
- Development of private recycling industry and public private partnership
- Promotion of citizen participation
1. Comprehensive Support for CD

- **Policy Advice**
  - Dispatching Policy Advisor Expert

- **Preparation of MP/FS**
  - Dispatching Consultant Team
  - Training or Knowledge Transfer for Counterpart staffs

- **Institutional & Human Resource Development**
  - Dispatching Technical and Managerial Experts
  - Training and Capacity Development for Counterparts

- **Equipment & Infrastructure**
  - Grant Aid
  - ODA Loan

* MP/FS... Master Plan/Feasibility Study
1. Comprehensive Support for CD

**Vietnam “Hanoi 3R Initiative Stimulation Aid Project”**

**Project Goal:**
Harmonized 3R system based on source separation programmes of organic waste is ready to familiarize to whole area of Hanoi City

**Project Period:** 2006.11-2009.11

**Input by JICA:**
- Experts
- Provision of Equipment
- Training (in Vietnam and Japan)

**Characteristics:**
Capacity development through model projects of;
- Source Separation (SS)
- Environmental Education & PR
- Compost Improvement
1. Comprehensive Support for CD

Vietnam “Hanoi 3R Initiative Stimulation Aid Project”

- Establishment of institutional framework for sound material cycle society
  - Forum to discuss policy based on consensus building among diverse participants
  - Building partnerships among stakeholders

- Support for making policy and regulation
  - Review and amendment of regulations on SWM
  - Strategic paper on 3R initiative through SS
  - Manual for SS planning
  - Action plan of SS expansion
2. Sharing of Experiences and Information Exchange

- Sharing the experiences of Japan
- Exchange of information on WEEE/E-waste issues and management

*(Training Program in Japan)*
Creation of Recycling Society based on Hazardous Waste Management and Appropriate Disposal in Asia
(JICA Yokohama Training Center)

**Program Objective:**
- Identify the issues for implementation/improvement of the hazardous waste management and recycling
- Prepare and follow up on the action plan for the respective country of the participant

**Participants:** Officials in charge of hazardous waste management in local/national governments

*Facility Visit*
3. Promotion of Partnership at the Regional Level

✓ Support for South-South Cooperation

(Third Country Training Program)
Waste Water Treatment in Food Industry at Environmental Institute of Malaysia (2007-2009)

Program Objective:
• Understand the technology, process and operation of industrial waste water treatment system
• Share knowledge and skill on performance monitoring and inspection of waste water treatment system

Participants: Officials in charge of waste water in Cambodia, Laos, Myanmar and Vietnam
Thanks for listening!

TV-CM on Source Separation (Vietnam)

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