Japan’s efforts of country-country cooperation and CCAC as a new framework of international cooperation

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The 4th Regional 3R Forum in Asia
18th-20th March Hanoi
CCAC
(Climate and Clean Air Coalition)
as a new framework of international cooperation on waste management
Outline of CCAC

- Launched on 16th Feb 2012
- This coalition is a voluntary, non-binding, collaborative global partnership uniting governments, inter-governmental organizations, representatives of civil society and the private sector committed to taking action on Short-lived Climate Pollutants (SLCPs) such as black carbon, methane and HFCs
- Hosted by the United Nations Environment Programme (UNEP)
- 27 States, EC and 28 Non-State Partners
- 7 initiatives are led by partners. One of initiatives of this coalition is "Mitigating SLCPs from Municipal Solid Waste"
CCAC Framework

High Level Assembly

Steering Committee [SC]
- 6 States and 2 Non-State Partners
- U.S., Nigeria, Canada, Sweden, Mexico, Bangladesh, IGSD (Institute for Governance and Sustainable Development), UNEP

Working Group [WG]
- all parties: 27 States, EC and 28 Non-State Partners

New Funding Proposal submitted by Lead Partner(s) of Initiatives → reviewed by SC → approved by WG or High Level Assembly

9 Initiatives
- Municipal Solid Waste
- Oil and Gas
- HFCs
- Diesel
- Bricks
- Financing
- NAP (National Action Planning)
- Science and Knowledge for Action
- Household Cooking and Domestic Heating

CCAC Trust Fund

Secretariat:
- UNEP/DTIE
The Regional Intergovernmental Consultation on Near-Term Climate Protection and Clean Air Benefits in Asia and the Pacific

- 4-5 Feb 2013 in Bangkok, Thailand Co-hosted by Japan and Bangladesh
- 112 participants from 19 countries across the Asia and Pacific region
- **Meeting Statement** on Short-Lived Climate Pollutants in Asia
  - Highlighted the potential of current best practices and effective initiatives underway under various national air quality and low-carbon development strategies for calling up and accelerating the reduction of SLCPs
  - Recommended countries and other relevant authorities of the Asia-Pacific region to join the CCAC
Country – Country Cooperation

1. Cooperation of the development of National 3R strategy
2. Cooperation between Vietnam and Japan
3. Cooperation between Malaysia and Japan
International Framework to Support Waste Management and Recycling Industry in its Overseas Development

**People's Republic of China**

**Bangladesh**
- Assistance for national 3R strategy development provided since 2006.
- National strategy established in December 2010.

**Thailand**
- Assistance for national 3R strategy development provided since 2005.

**Cambodia**
- Assistance for national 3R strategy development provided since 2006.

**Singapore**
- Bilateral policy dialogue conducted since July 2006
- Letter of Intent signed between Nobumori Otani, Parliamentary Secretary of the Environment and the CEO of the Environment Ministry of Singapore in July 2010.

**Malaysia**
- Assistance for Development of Strategic Plan for Organic Food Waste Management provided since 2010.

**The Republic of Korea**

**Philippines**
- Assistance for national 3R strategy development provided since 2005.

**Vietnam**
- Assistance for national 3R strategy development provided since 2005.
- National strategy established in December 2009.
- Final draft of the national 3R strategy is in the process of obtaining government approval.

**Indonesia**
- Assistance for national 3R strategy development provided since 2005.
### Outlines of the F/S by MOEJ Fund in FY2012

<table>
<thead>
<tr>
<th>Country</th>
<th>Projects</th>
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<tbody>
<tr>
<td><strong>Turkey</strong></td>
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</table>
| 24-3 Kobelco Eco-Solutions Co., Ltd. | A Study on Waste Treatment Business in Marmara Sea Coast City in Republic of Turkey  
24-7 Toyota Tsusho Corporation | Development Project of Integrated Recycling System of E-waste and EIV Mix Metals in Republic of Turkey |
| **India**      |                                                                                                   |
| 23-4 Japan Environment Planning Co., Ltd. (carried on fm FY2011) | Recycling of Small Home Appliance Centered around Mobile Phone in Gujarat, India  
24-8 Nippon Magnetic Dressing Co., Ltd. | Project for Effective Utilization of Steelmaking Slag in India |
| **Thailand**   |                                                                                                   |
| 23-1 E&E Solutions Inc. (carried on fm FY2011) | Concentrated Intermediate Treatment of Waste in around Bangkok, Thailand  
24-10 REMATEC Corporation | Developing 3R System of Industrial and Non-industrial Waste Based on a Cement Plant Located in Northern Thailand |
| **Malaysia**   |                                                                                                   |
| 24-4 Shinryo Corporation | Total Recycling System of Wastes from Photovoltaic Cells in Malaysia and other ASEAN Area |
| **People’s Republic of China** |                                                                                                   |
| 23-3 NTT Data Institute of Management Consulting, Inc. (carried on fm FY2011) | Development Project of an Industrial Complex for Plastic Recycling in Tianjin, the People’s Republic of China  
24-5 Toa Oil Kogyosho Co., Ltd. | Comprehensive Recycling Project of Oily Waste in Shenyang, the People’s Republic of China |
| **Myanmar**    |                                                                                                   |
| 24-1 JFE Engineering Corporation | Feasibility Study of Installation, Operation and Maintenance of Waste to Energy (WTE) Plant in Greater Yangon  
24-9 Hitachi Zosen Corporation | Study on the Integrated Solid Waste Management System including Energy Recovery in Ho Chi Minh City, Socialist Republic of Viet Nam |
| **Philippines** |                                                                                                   |
| 24-2 Eight-Japan Engineering Consultants Inc. | Wide-area Collection, Energy Recovery and Sanitary Landfilling Project of Solid Waste in Province of Isabela, Republic of the Philippines |
| **Viet Nam**   |                                                                                                   |
| 23-2 Ichikawa Kankyo Engineering Co., Ltd. (carried on fm FY2011) | RPF Production and Manufacturing System Business in Socialist Republic of Viet Nam  
24-6 Kawasaki Heavy Industries, Ltd. | Feasibility Studies for Municipal Waste Treatment System by Using Cement Kiln in Hanoi City, Socialist Republic of Viet Nam  
24-9 Hitachi Zosen Corporation | Study on the Integrated Solid Waste Management System including Energy Recovery in Ho Chi Minh City, Socialist Republic of Viet Nam |
Feasibility Studies by MOEJ

✓ Commenced since 2011
✓ Purpose: Investigate the possibility of business relating to waste collection, sound transport, proper treatment, recycling
✓ Investigation period: 1 or 2 years
✓ Amount of the grant: less than 30 million yen. (about 400,000 US$)
✓ Investigation of legal system, practice, condition of targeted wastes, cost of waste collection, cost of other business matters, etc.
✓ Test with pilot plant permitted
✓ We expect outcomes of these studies lead to establish new waste concerning business in Asian region.
National 3R Strategy Development Program

- A major project in Asia initiated under G8’s 3R Initiative from 2005
- 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: A progress report on seven countries in Asia from 2005 to 2009"

Promotion of the 3R Initiative in Asia

- Overall coordination
  - IGES
  - AIT/UNEP
  - RRCAP
  - UNCRD
  - MOEJ
  - ADB

- Development of guideline for organic waste management
- Progress management
- Advice to strategy
- Progress management
- Organizing committee
- Support development and revisions of 3R Action Plan

- Cambodia
- Philippines
- Thailand

- Bangladesh
  - Collaboration with Waste Concern

- Indonesia
  - Collaboration with Kitakyushu Initiative
  - Promotion of best practices

- Vietnam
  - Collaboration with ADB to disseminate to GMS
  - Collaboration with Hanoi 3R Project by JICA

Collaboration with ADB to disseminate to GMS
Collaboration with Waste Concern
Collaboration with Kitakyushu Initiative
Promotion of best practices
Collaboration with ADB to disseminate to GMS
Collaboration with Hanoi 3R Project by JICA
Cooperation between Viet Nam and Japan on the Development of 3R Program
- Cooperative structure -

**Viet Nam**
- Ministry of Natural Resources and Environment (MONRE)
- Viet Nam Environment Administration (VEA)
- Waste Management and Environment Improvement Department (WENID)

**Japan**
- Ministry of the Environment, Japan (MOEJ)
- Institute for Global Environmental Strategies (IGES)

**National level**
- Cooperation under Regional 3R Forum in Asia

**Development of 3R Program**

**Ho Chi Minh City**
- MOU in the area of water and environmental management
- Development of **Action Plan on integrated solid waste management** in HCMC

**Osaka City**
- Global Environment Centre (GEC)

**Local level**
- Collaboration with municipalities, private companies, research institutes, NGOs
Two national workshops were held to collect comments on the draft 3R Program.

**Date:** November, 16th, 2012  
**Place:** Ho Chi Minh City

- Draft 3R Program (*version1*) was presented and received the comments from participants from other ministries (Ministry of Construction, Ministry of Health, Ministry of Industry and Trade, Government Office), local provincial governments, and Japanese expert group.

**Date:** December 5th, 2012  
**Place:** Hai Phong City

- Draft 3R Program (*version2*) was presented and received the comments from participants from local provincial governments, experts from universities, and Japanese expert group.

Opening remarks from Deputy Minister of MONRE

A scene of workshop

Presentation from Japanese expert

A scene of workshop
Cooperation between Viet Nam and Japan on the Development of 3R Program - Outcome -

Outline of the recommendation report from Japanese group

1. Legal framework of solid waste management in Viet Nam
   - Roles and responsibilities of each ministry and local authority
2. Current practices and issues of solid waste management
   - Waste amount, composition and flow
   - Tipping fee and waste collection fee
3. Waste reduction activities in Viet Nam
   - Current recycling activities
   - Waste reduction services
   - Lessons learnt from past 3R-related projects
4. Waste reduction activities in other countries
   - Case studies in the Philippines, Indonesia and Japan
5. Waste reduction action plan in Ho Chi Minh City
   - A project assisted by Osaka City and Global Environmental Centre
6. Recommendable regulations and technical guidelines to promote waste reduction efforts in Viet Nam
   - Identification of possible programs
Cooperation between Malaysia and Japan on the Development of Food Waste Management Strategy in Malaysia
- Cooperative structure -

**Malaysia**
- Ministry of Housing and Local Government (MHLG)
- National Solid Waste Management Department (JPSPN)

**Supporting institutions**
- PPSPPA (National SWM Corporation)
- Industrial Association (e.g. FMM)
- Local Authority, Residential Association, Unv. etc.

**Japan**
- Ministry of the Environment, Japan (MOEJ)
- Institute for Global Environmental Strategies (IGES)

Cooperation under Regional 3R Forum in Asia

**Project Implementation**
- Funding for pilot project

1) Baseline research
2) Pilot projects
3) Policy Development

A model case for facilitating regional cooperation to promote 3Rs in other Asian countries
Discussion Session between MHLG and MOEJ:

- Mr. Yong Bun Fou (Deputy Secretary General of MHLG) and Dato Dr. Nadzri bin Yahaya (Director General of JPSPN, MHLG) and one JPSPN officer visited Japan from 28 October – 3 November 2012.

- The Ministry of the Environment, Japan organized a discussion session for possible policy development of food waste recycling in Malaysia and shared Japanese experiences on the policy development process of food waste recycling law.
Target sectors:

- **Commercials** (restaurants, hotels, malls, food outlets etc.)
- **Industries** (food and beverage industries; central kitchen for chain shops etc.)
- **Institutions** (Schools, colleges, universities, government offices etc.)

### 6 MAIN STRATEGIES

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<th>Strategy 1</th>
<th>Collection of Baseline Data about Food Waste Generation</th>
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<td>Strategy 2</td>
<td>Establishment of a “Food Waste Recycling Regulation”</td>
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<td>Strategy 3</td>
<td>Food Waste Minimization / Reduction at Source</td>
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<td>Strategy 4</td>
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<td>Strategy 5</td>
<td>Establishment of Proper Centralized System for Food Waste Treatment</td>
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<tr>
<td>Strategy 6</td>
<td>Effective Methane Gas Recovery from the Landfill Sites</td>
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