

Second Meeting of the Regional 3R Forum in Asia

“3Rs for Green Economy and Sound Material-Cycle Society”

Financing the 3Rs for the Next Decade – From ADB perspective

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The logo of the Asian Development Bank (ADB), consisting of the letters "ADB" in white serif font on a dark blue square background.

Outline...

- The drivers for sustainable development at ADB
- Present initiatives in 3Rs in key sectors : energy, water and waste
- Planned interventions specially in waste management

Strategy 2020 – increased operational emphasis on mainstreaming environment

Environmentally sustainable growth is one of its 3 development agendas, and environment as one of its 5 core areas of operations. ADB will assist DMCs :

- ✓ move their economies onto low-carbon and climate resilient growth paths
- ✓ in addressing environmental urban problems and reducing the carbon footprint of Asia's cities
- ✓ mainstream environmental considerations into DMCs' policies and investments and strengthen their legal, regulatory, and enforcement capacities
- ✓ promote and support regional cooperation on shared environmental public goods (global, regional and national)
- ✓ facilitate knowledge transfer on environmental management and new (green) technologies
- ✓ integrate environmental safeguards into ADB operations and in country systems (including capacity building)

Proposed Program Areas



Promoting transitions to environmentally sustainable infrastructure



Improving natural resources management and maintaining ecosystem integrity



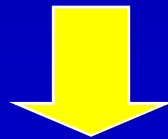
Enhancing environmental governance and management capacities

Climate change (mitigation and adaptation)

Promoting transitions to sustainable and low carbon infrastructure

- ✓ Clean Energy (RE,EE, cleaner fossil fuels)
- ✓ Sustainable Transport (safe, clean & Affordable)
- ✓ Water and Sanitation
- ✓ Waste Management

effective applications of principles of reduce, reuse and recycle



Climate resilient, low CO2 & livable cities

3R Initiatives in Energy Sector ...

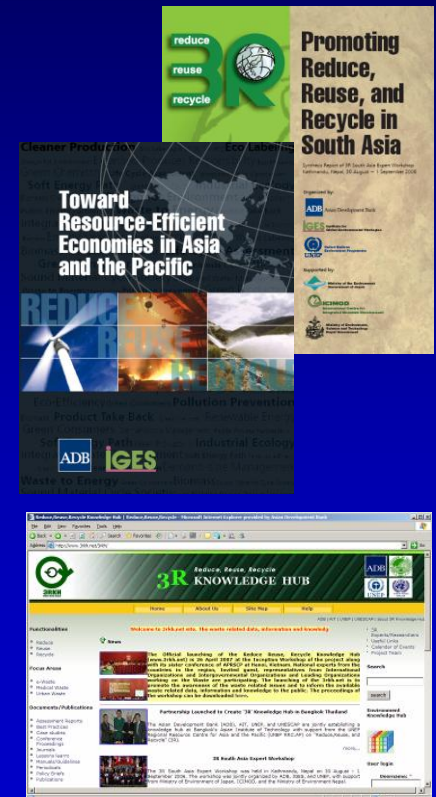
- ADB during 2005-09 funded 67 projects in energy sector and 29 projects in non-energy sectors with elements of CE/EE/CF
- 14 projects reduced the energy requirements by adopting energy efficient systems or by introducing improved insulation
 - Reduced transmissions losses,
 - Reduced use of fuel due to improved heating/insulation
 - Energy efficient water supply and treatment
 - Introduction of energy efficient lighting
- Coal bed methane recovery and reuse projects in PRC
- In addition ADB provided upfront financing for 44 projects under CDM through Asia Pacific Carbon Fund (APCF)

Initiatives to Overcome Investment Barriers in Energy Efficiency Sector ...

- A large potential exists in energy efficiency projects in Asia and the Pacific
- The sector is confronted with many investment barriers that include
 - Perceived technology risk by Local Financial Institutes (LFIs)
 - Asset based financing practice
 - Lack of medium term financing
 - High transaction costs due to lack of skills
 - Inadequate regulatory and policy framework
- ADB Approved \$110 million credit guarantee for energy efficiency multi-project financing program in 2007 in PRC

ADB's Regional Actions under the 3R Initiative in Waste Management

- Promoted Subregional Dialogues in South Asia and East/Southeast Asia
- Provide 'Toward Resource Efficient-Economies in Asia and the Pacific' Report
- Supports to establish 3R Knowledge Hub



Initiatives in Waste Management Sector...

- ADB has been supporting municipal waste management in urban development projects
 - Waste to energy (recycle)
 - Landfills (recycle)
 - Composting (recycle)
- ADB provided upfront financing for 8 projects under CDM through APCF in the sector
- Management of municipal waste management is an integral part of most urban sector initiatives

Due to financial limitations private sector participation is considered increasingly important

Initiatives in Waste Management Sector...

- Under a TA: Project Preparation Support for Livable Cities in Asia ADB has earmarked \$2million to undertake
 - Project development in medium and small towns catering to MSW
 - Targeted studies to address policy, technology and knowledge barriers in 3R applications
 - Development of large scale waste management projects to facilitate private sector participation

Initiatives in Waste Management Sector...

- To enhance 3R elements in municipal waste management specific effort for
 - Promoting Municipal Waste Management through Composting
 - Promoting recycling in municipal solid waste management through suitable business models
 - Overcoming stakeholder barriers to energy efficient housing in Developing Asian Countries
 - Enhancing sustainability of 3RKH Operations

Initiatives in Waste Management Sector...

- Promoting Municipal Waste Management through Composting
 - To identify, analyze and extract lessons from model composting schemes in selected Asian countries
 - To identify barriers and driving forces for promoting composting as a potential business in target countries.
 - To develop guidelines for planning and managing composting schemes, so as to maximizing their benefits, scaling up and replication

Initiatives in Waste Management Sector...

- Promoting recycling in municipal solid waste management through suitable business models
 - To investigate and extract lesson learnt from Wongpanit recycling business model and other models in select countries
 - To identify barrier and driving factor of recycling business development in target countries.
 - To provide recommendations for establishment environmentally and socially sound recycling sector for encouraging the 3Rs

Initiatives in Waste Management Sector...

- Overcoming stakeholder barriers to energy efficient housing in Developing Asian Countries
 - Understand the drivers of and trends in energy efficient housing, and reviewing existing policies and opportunities
 - Identify systemic and infrastructural barriers to stakeholder participation
 - Develop incentives to facilitate action at the life cycle stages of design, production and use;
 - Provide policy recommendations removing the barriers and promoting incentives towards sustainable energy efficient housing.

3R Knowledge Hub

- A joint initiative of Government of Japan and ADB in partnership with UNEP and AIT
- Objective to provide one stop guidance and updated information for 3R applications in waste management
- Runs a website that received over 100,000 hits during three years of operations

3R Knowledge Hub – www.3rkh.net

- Provides information on
 - Experts on 3R and in waste management
 - Good industry practices in 3R
 - Case studies – success stories as well as challenges faced
 - Specific projects and 3R initiatives in DMCs
 - Status of SWM and HCWM in select countries in Asia-Pacific regions
 - Manuals, guidelines and policy briefs on 3R

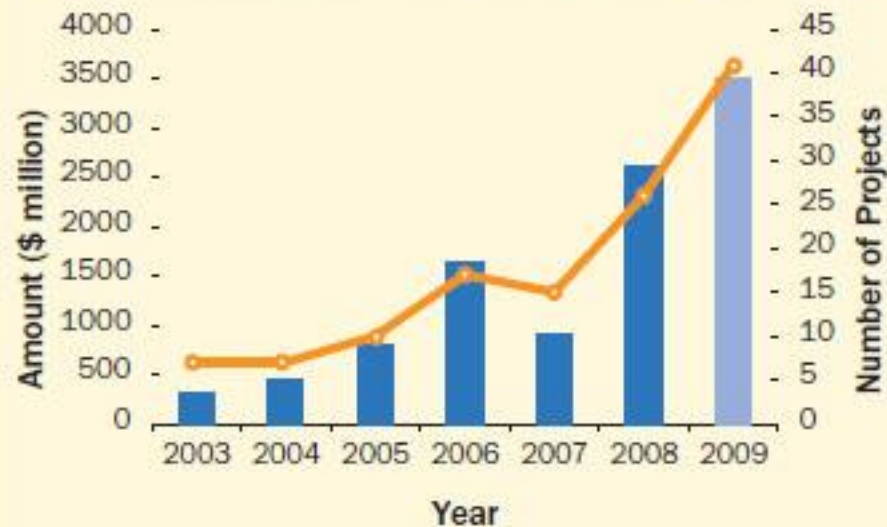
Enhancement of 3RKH to facilitate generation & transfer of knowledge...

- Improve, extend and augment the Function and contents of 3RKH
 - Addition of knowledge products based on the recent and future work of 3RKH
 - CDM guidance in waste management sector
 - Review of Recycling Technologies, Products and Market and recommendations to overcome the barriers
 - Networking with Experts, Partners, Regional Institutes and Organizations
- Engagement of external experts to review/develop 3R products, prepare 3R proposals and provide fee-based user support

Trend of Environmental Investments...

Projects with Environment Sustainability as Theme

Loan Amount and Number of Projects, 2003–2009



Legend

■ amount — number

For More Information

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