Japan’s New Expanded ESC Program using Joint Crediting Mechanism

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Vision for Environmentally Sustainable Cities
Japan’s Package Support

Japan
- Ministries
- Local Gov
- Private sector
- Research institutions
- Joint Crediting Mechanism

Japan’s Package Support
- Technology Transfer
- Action plan
- Legislations, Standards
- Capacity Building

Environmentally Sustainable Cities
- Technology
- System
- Human resource

Partner Cities
## Joint Crediting Mechanism (JCM)

### Purpose of JCM

- To facilitate diffusion of low carbon technologies
- To evaluate GHG emission reductions
- To contribute to the ultimate objective of the UNFCCC

### Advantage of JCM

(Compliment to CDM)

- Simple procedures, Short processing time
- Applied to broader areas with co-benefits, including energy saving, transport, wastewater and waste management
- Applied to various countries

### Diagram

- **JAPAN**
  - Leading low carbon technologies
  - Used to achieve Japan’s target

- **Host Country**
  - JCM Projects
  - GHG reductions
  - Credits

- Methodologies to be developed by Japan and Partner Country
Example of Japan’s Package Support

In case of Waste Management

- Planning
- Capacity Building
- Smart Separation and collection
- Support for Planning
- Training Workshop
- Japan’s Local gov Support
- Japan’s know-how, system & technology

- Reduce: Efficient resource productivity
- Reuse: Market
- Recycle: Kitakyushu Eco town
- Incineration: Waste to Energy
- Landfill

- Methane Gas Recovery
- Heat / Hot water
Waste Treatment

Separate Collection By Local Government

- Mon: (no collection)
- Tue: Plastic Packaging
- Wed: Combustible Waste
- Thu: Paper, Bottle, PET etc
- Fri: Non-burnable waste
- Sat: Combustible Waste

Efficient Waste Power Generation

Compost

Energy CO2 reduction

Landfill disposal reduction
Example of Japan’s Package Support

In case of Water-saving and Sewage sludge to Energy / Recycling

Planning

Capacity Building

Support for Planning

Training Workshop

Water-saving hot-water supply system
Water-saving toilet system

Japan’s know-how, institution and technology

Sewage treatment

Sewage sludge Methane gas recovery

Incineration

Landfill

Heat / Hot water

Methane Gas Recovery

Recycling
Water-saving Shower
35% reduction vs conventional type

Water-saving Toilet
4.8L
* 6L; Regulation of most developed countries

Efficient Waterworks

Sludge Incinerator

Photovoltaic

Dispose of Sewage

Individual Sewage Treatment Tank

Water saving

Water pollution prevention

GHG reduction
Example of Energy Saving (ESCO)

EMS promotion for SMEs (Eco Action 21)

- **Plan**: Formulation of a plan
- **Do**: Implementation of the plan
  - Turn off the lights when not used
  - Introduce efficient copy machine
  - Control air conditioner with light-duty garment in summer
- **Check**: Verification of action progress
- **Action**: Overall assessment and review

**BEMS**

- Photovoltaic
- Lighting
- Air conditioner
- Office machine
- Elevator
- Pump
- Data center
- User

**Energy reduction**

**CO2 reduction**

**Heat pump**

**Inverter**
Objective: Sharing the latest information and best practices on smart city.

Participants: approx. 7,000 including Government (central and local), International Organizations, Businesses, Academia, NGOs, Civil Societies

Structure (draft): International Conference, Seminars for Local Government and Business, Exhibition, etc.

Date: October 21st – 25th, 2013
Venue: PACIFICO Yokohama Conference Center
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