

Japan's support to realize “Leapfrog” Low Carbon Development in Asian Cities

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(1) Environmentally Sustainable Cities : ESC

East Asia Summit Environment Ministers Meeting (EAS-EMM)



Oct. 2008 1st EAS-EMM

“ESC should be an immediate priority area”

5th High Level Seminar on Environmentally Sustainable Cities is scheduled on 28 Feb -1 March 2013 at Indonesia (HLS-ESC)

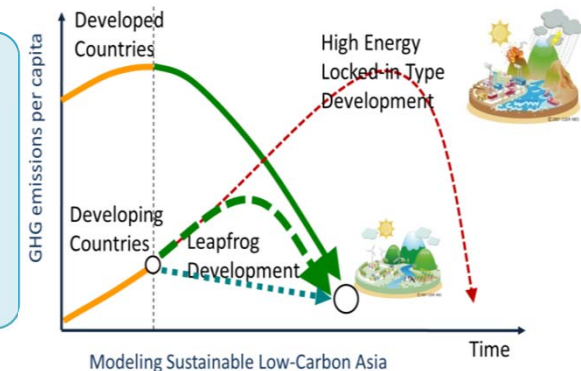
HLS	Date	Venue	Co-organisers
1 st	March, 2010	Jakarta, Indonesia	Japan, Indonesia, Australia, Singapore
2 nd	March, 2011	Kitakyusyu, Japan	Japan, Australia, Cambodia, Malaysia, Thailand
3 rd	March, 2012	Siem Reap, Cambodia	Japan, Cambodia, Australia, Thailand
4 th	March, 2013	Hanoi, Viet Num	Japan, Indonesia, Australia, Viet Num



(2) Japan's New Support Program Enabling "Leapfrog" Development

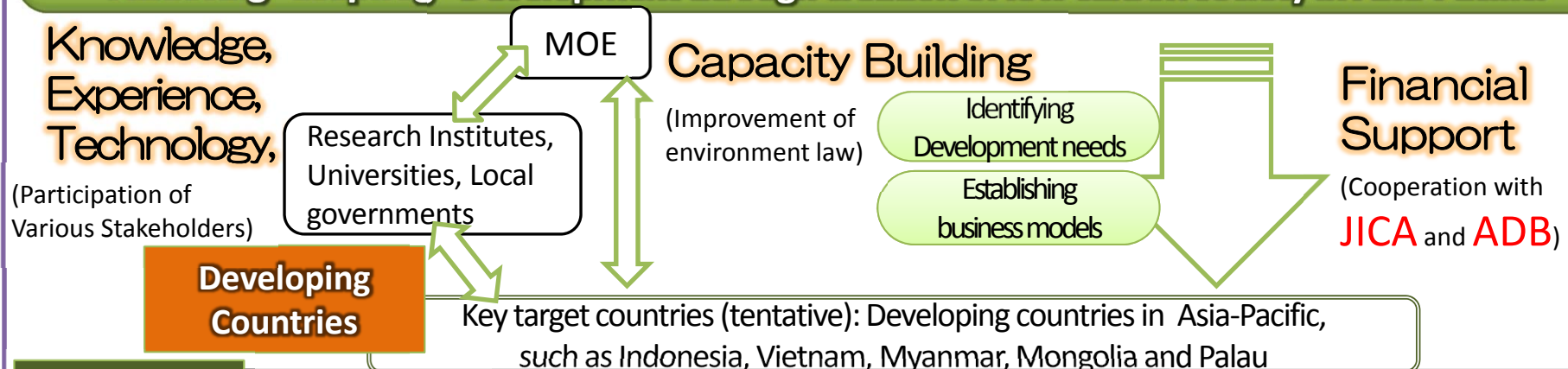
Objective

- To support **developing countries to leapfrog to low carbon societies** with Japan's knowledge, experience, technology, human capital and finance by utilizing **JCM (Joint Crediting Mechanism)**, with establishing the concept of a **"human society that harmonizes and enriches the environment and life"** as a new paradigm for the 21st century.



Scheme

Achieving "Leapfrog" Development through creation of low carbon society in Asia-Pacific.



Subject area

Environmentally Sustainable Cities

Energy Saving and Renewable			Transport	Waste management	Water treatment
✓ Photovoltaic	✓ Independent	✓ ESCO Project	✓ Public transportation system	✓ Incinerator	✓ Water supply
✓ Wind	✓ distributed power	✓ Inverter	✓ Electric bike and vehicle	✓ Separate collection	✓ Sewage system
✓ Micro hydro	✓ Battery, HEMS	✓ Heat pump	✓ Logistics and traffic flow measure	✓ Compost	✓ Water saving device
✓ Marine energy	✓ Smart meter			✓ Landfill	
✓ Biomass	✓ Waste heat recovery				

(3) Joint Crediting Mechanism (JCM)

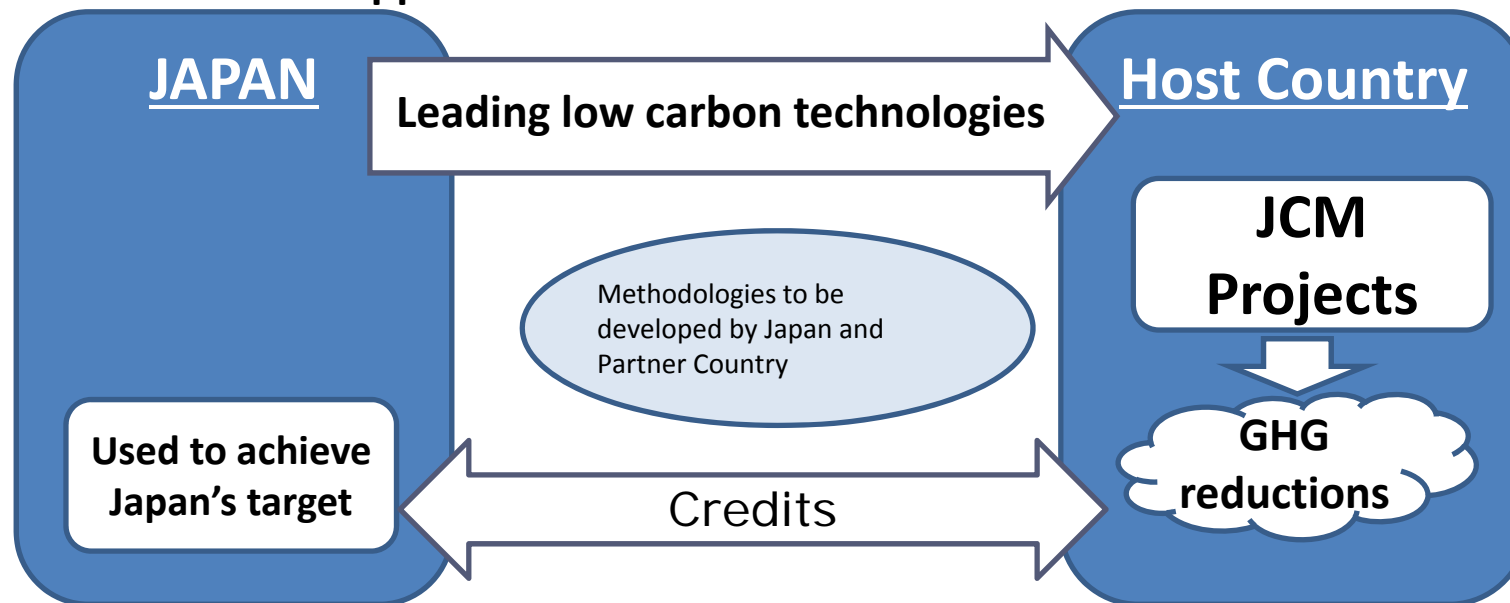
Purpose of JCM

- 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)

- Maintaining simplicity and practicality based on the rules and guidelines
- Applied to broader areas with co-benefits, including energy saving, transport, wastewater and waste management
- Applied to various countries



Signatory Countries

Mongolia, Bangladesh, Ethiopia, Kenya, Maldives, Viet Nam, Lao PDR, Indonesia

(4) 17 ESC Feasibility Studies using JCM

	Country	Area	Projects
1	Bangladesh	Dhaka,	Law carbon & safe water supply in rural area;CO2 free & green water supply project
2	Cambodia	Phnom Penh City	Quantification of GHG reduction effect of countermeasures in water supply sector and study of MRV methodology
3	Indonesia	Jakarta	Feasibility study of dissemination of Japanese standard digital tachometer and unification of regional standard for the water supply countermeasures in ASEAN metropolis
4	Indonesia	Jakarta	Recovery and destruction of fluorocarbons
5	Indonesia	Jakarta	Energy saving scheme development project for promoting energy efficiency equipment
6	Indonesia	Medan	Water supply system in ASEAN countries:CO2 half water supply project
7	Indonesia	Norogati	Water supply system development project in waste and wastewater management sector
8	Indonesia	Surabaya	Study for designing a low-carbon city plan
9	Malaysia	Iskandar	Study for large-scale formation of greenhouse gas emission reduction projects
6	Malaysia	Iskandar	Water supply system in ASEAN countries:CO2 half water supply project
4	Malaysia	Iskandar	Study for recovery and destruction of fluorocarbons
10	Malaysia	Perlis	Study for developing a low carbon society through "Waste to Energy technology" in
11	Mongolia	Ulaanbaatar (Ulan Bator)	Energy efficiency improvement of energy supply side and demand side
12	Myanmar	Yangon	Support for carbon city development through Joint Crediting Mechanism(JCM) project formulation
13	South-Pacific Island Countries		Study for introduction of GHG mitigation and adaptation measures
3	Thailand	Bangkok	Feasibility study of dissemination of Japanese standard digital tachometer and unification of regional standard for the water supply countermeasures in ASEAN metropolis
4	Thailand	Bangkok	Strategic promotion of recovery and destruction of fluorocarbons
14	Vietnam	Ho Chi Minh	Study for Osaka city water supply system introduction project for developing low-carbon
6	Vietnam	Ho Chi Minh	Water supply system in ASEAN countries:CO2 half water supply project
15	Vietnam	Ho Chi Minh	Wide scale energy saving equipment introduction feasibility study under JCM through diffusion of water saving equipment and energy saving equipment
16	Vietnam	Ho Chi Minh City and Da Nang City	Study for low-carbon community development by promoting energy saving equipment and motor bikes
17	Vietnam	Da Nang City	Introduction, issue identification and evaluation of waste management and recycling technology

