

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

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(1) Joint Crediting Mechanism (JCM)

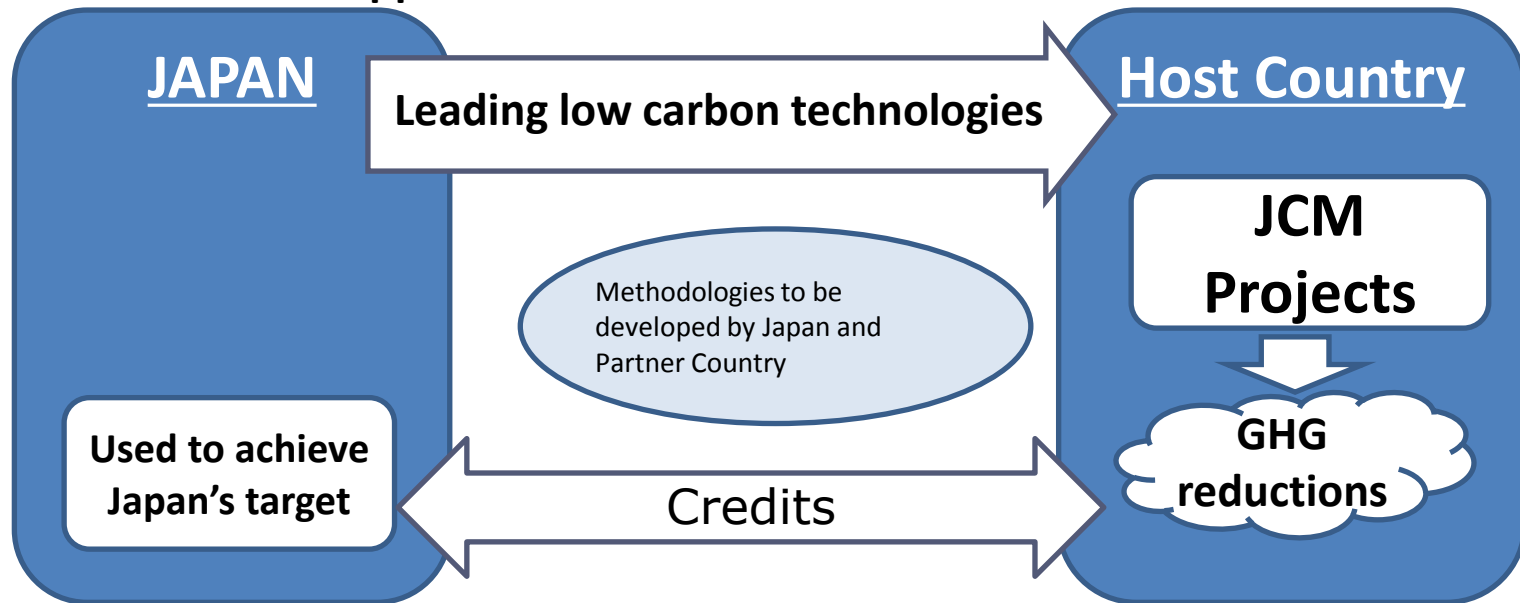
Purpose of JCM

- 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



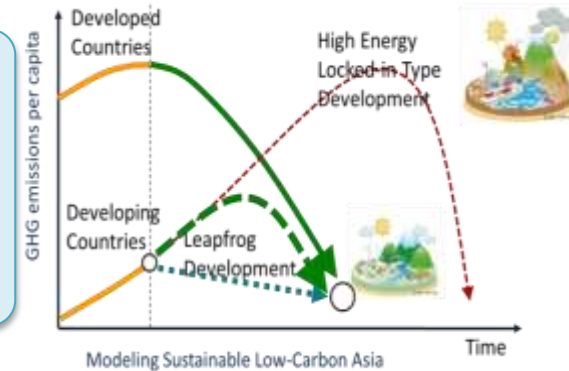
Signatory Countries

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

(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.

Knowledge, Experience, Technology, Policy

MOE

Capacity Building

Financial Support

Research Institutes, Universities, Local governments

(Improvement of environment law)

Identifying Development needs

Establishing business models

(Cooperation with JICA and ADB)

Developing Countries

Key target countries (tentative): Developing countries in Asia-Pacific, such as Indonesia, Vietnam, Myanmar, Mongolia and Palau

Subject area

Environmentally Sustainable Cities

Energy Saving and Renewable

- ✓ Photovoltaic
- ✓ Wind
- ✓ Micro hydro
- ✓ Marine energy
- ✓ Biomass
- ✓ Independent distributed power
- ✓ Battery, HEMS
- ✓ Smart meter
- ✓ Waste heat recovery
- ✓ ESCO Project
- ✓ Inverter
- ✓ Heat pump

Transport

- ✓ Public transportation system
- ✓ Electric bike and vehicle
- ✓ Logistics and traffic flow measure

Waste management

- ✓ Incinerator
- ✓ Separate collection
- ✓ Compost
- ✓ Landfill

Water treatment

- ✓ Water supply
- ✓ Sewage system
- ✓ Water saving device

(3) 17 ESC Feasibility Studies using JCM

	Country	Area	Projects
1	Bangladesh	Dhaka,	Low 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	Water supply system development project for promoting energy efficiency equipment
6	Indonesia	Medan	Water supply system in ASEAN countries:CO2 half water supply project
7	Indonesia	Norogriyo	Water supply system development project for promoting energy efficiency equipment
8	Indonesia	Surabaya	Water supply system development project for promoting energy efficiency equipment
9	Malaysia	Iskandar	Water supply system development project for promoting energy efficiency equipment
6	Malaysia	Iskandar	Water supply system in ASEAN countries:CO2 half water supply project
4	Malaysia	Iskandar	Recovery and destruction of fluorocarbons
10	Malaysia	Perak	Water supply system development project for promoting energy efficiency equipment
11	Mongolia	Ulaanbaatar (Ulan Bator)	Water supply system development project for promoting energy efficiency equipment
12	Myanmar	Yangon	Water supply system development project for promoting energy efficiency equipment
13	South-Pacific Island Countries		Water supply system development project for promoting energy efficiency equipment
3	Thailand	Bangkok	Water supply system development project for promoting energy efficiency equipment
4	Thailand	Bangkok	Water supply system development project for promoting energy efficiency equipment
14	Vietnam	Ho Chi Minh	Water supply system development project for promoting energy efficiency equipment
6	Vietnam	Ho Chi Minh	Water supply system development project for promoting energy efficiency equipment
15	Vietnam	Ho Chi Minh	Water supply system development project for promoting energy efficiency equipment
16	Vietnam	Ho Chi Minh City and Da Nang City	Water supply system development project for promoting energy efficiency equipment
17	Vietnam	Da Nang City	Water supply system development project for promoting energy efficiency equipment

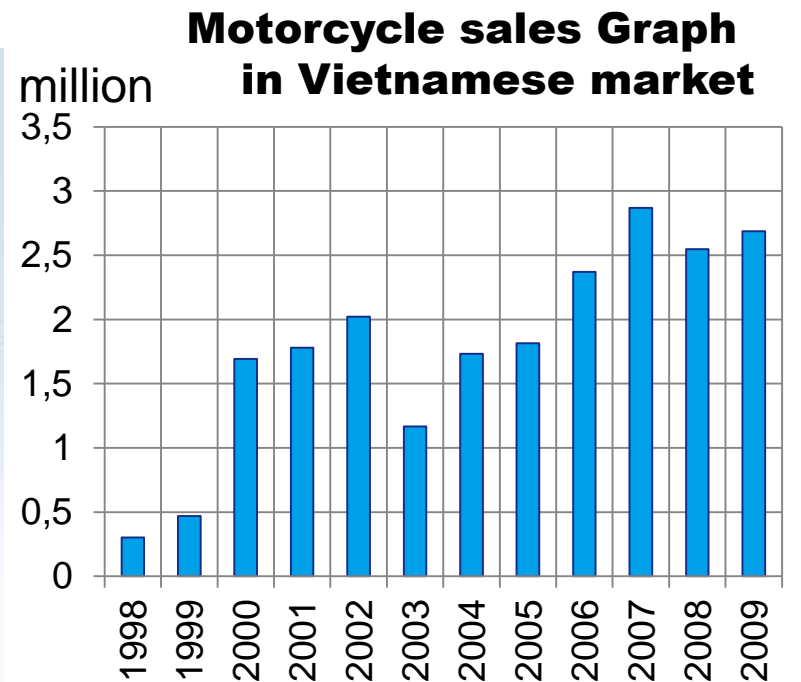
(4) FS project - Promoting electric motorbikes in Vietnam

Purpose of the Project

- Promoting electric bikes in Vietnam to replace existing gasoline bikes.
- Development of Eco-community through IT-based management system

Technologies Promoted by the Project

1. High efficiency electric vehicles produced by leading electric bike manufacturer of Japan



Source : Motorcycle market overview

(4) FS project – Promoting Eco-driving by Digital tachograph

Overview of the Fleet Management Tests in Southeast Asia

東南アジア運行管理実験概要

Subject countries : Indonesia (Jakarta) and Thailand (Bangkok)

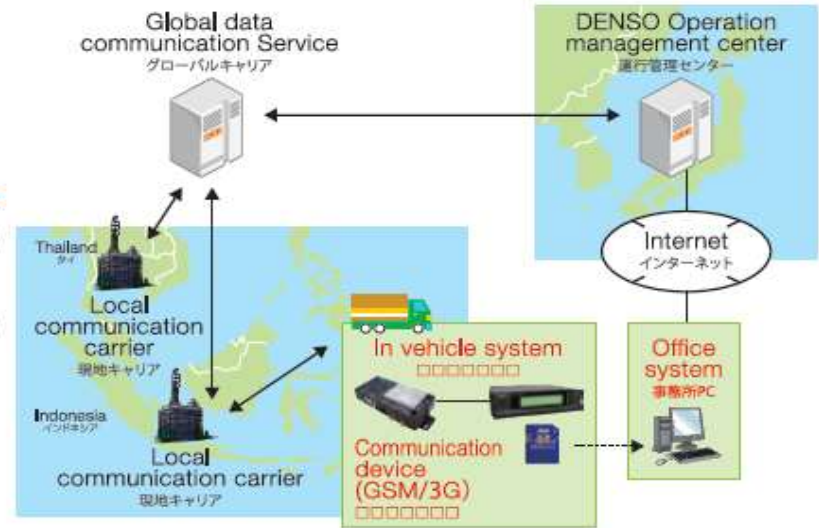
Duration : October 2013 to February 2014

Purpose : Reducing fuel costs (CO₂ emissions), preventing traffic accidents, providing driver education, and increasing fleet operation efficiency

対象国:インドネシア(ジャカルタ)、タイランド(バンコク)

期間:2013年10月~2014年2月

目的:燃料費削減(CO₂削減)、事故防止、安全運転指導、運行効率化



Guidance on Safe and Fuel-efficient Driving

