

Joint Crediting Mechanism (JCM) Promotion Scheme

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Overview of the JCM Promotion Scheme

Feasibility Studies & Capacity Building

- JCM Feasibility Study (FS)
- JCM Project Planning Study (PS)
- Large Scale JCM Feasibility Study
- Consultations, workshops
- Training courses, study tours

Financial Support for Projects

- JCM Model Projects
- Collaborative Financing Programme
- ADB Trust Fund

Technical support

- JCM Methodology
- PDD for project registration
- Monitoring report for credit issuance
- Validation and verification by TPE

Capacity Building Programmes & Feasibility Studies

Capacity Building Programmes

Activities

Consultations, workshops, seminars, training courses and study tours for government officials, private sector, candidates for validation and verification entities

Scope

Facilitating understanding on the JCM rules and guidelines, enhancing capacities for implementing MRV



Feasibility Studies

JCM Feasibility Study (FS)

To survey feasibility of potential JCM projects

JCM Project Planning Study (PS)

To develop a JCM Project in the following fiscal year

Large Scale JCM Feasibility Study

To survey feasibility of potential large scale JCM projects including city level cooperation



Outreach

New Mechanisms Information Platform <http://www.mmechanisms.org/e/index.html>

GEC (Global Environment Centre Foundation) <http://gec.jp>

Overview of JCM Planning/Feasibility Studies in 2015

- ◆-- JCM Project Planning Study (PS)
- ◆-- JCM Feasibility Study (FS)

Mongolia:

- ◆ Distributed heat supply system using biomass and coal mixture combustion type boiler

Lao PDR:

- ◆ Utilization of agricultural biomass in Cement Kiln
- ◆ Biogas recovery and utilization in tapioca starch factory

Myanmar:

- ◆ Rice husk power generation in rice mill factory in Ayeyarwady

Viet Nam:

- ◆ Recovery and utilization of biogas from agricultural processing waste in Ninh Binh Province
- ◆ Waste Heat Recovery Power Generation at Cement Factory in Quang Ninh Province

Bangladesh:

- ◆ Energy saving by utilizing lithium-ion batteries at base transceiver stations in unstable-grid areas

Costa Rica:

- ◆ Low-carbon project by introducing PV and energy saving equipment in Hotel, Office Building and others

Philippines:

- ◆ Talubin Mini-Hydropower Project

Chile:

- ◆ Geothermal Power Generation in the south of Santiago

Thailand:

- ◆ Energy saving by introducing regenerative energy storage system in Skytrain
- ◆ Saving Energy for station facilities utilizing regenerative energy from trains
- ◆ Energy saving by co-generation project in the fiber factory

Cambodia:

- ◆ Installation of high-efficiency chillers in large-scale hotels

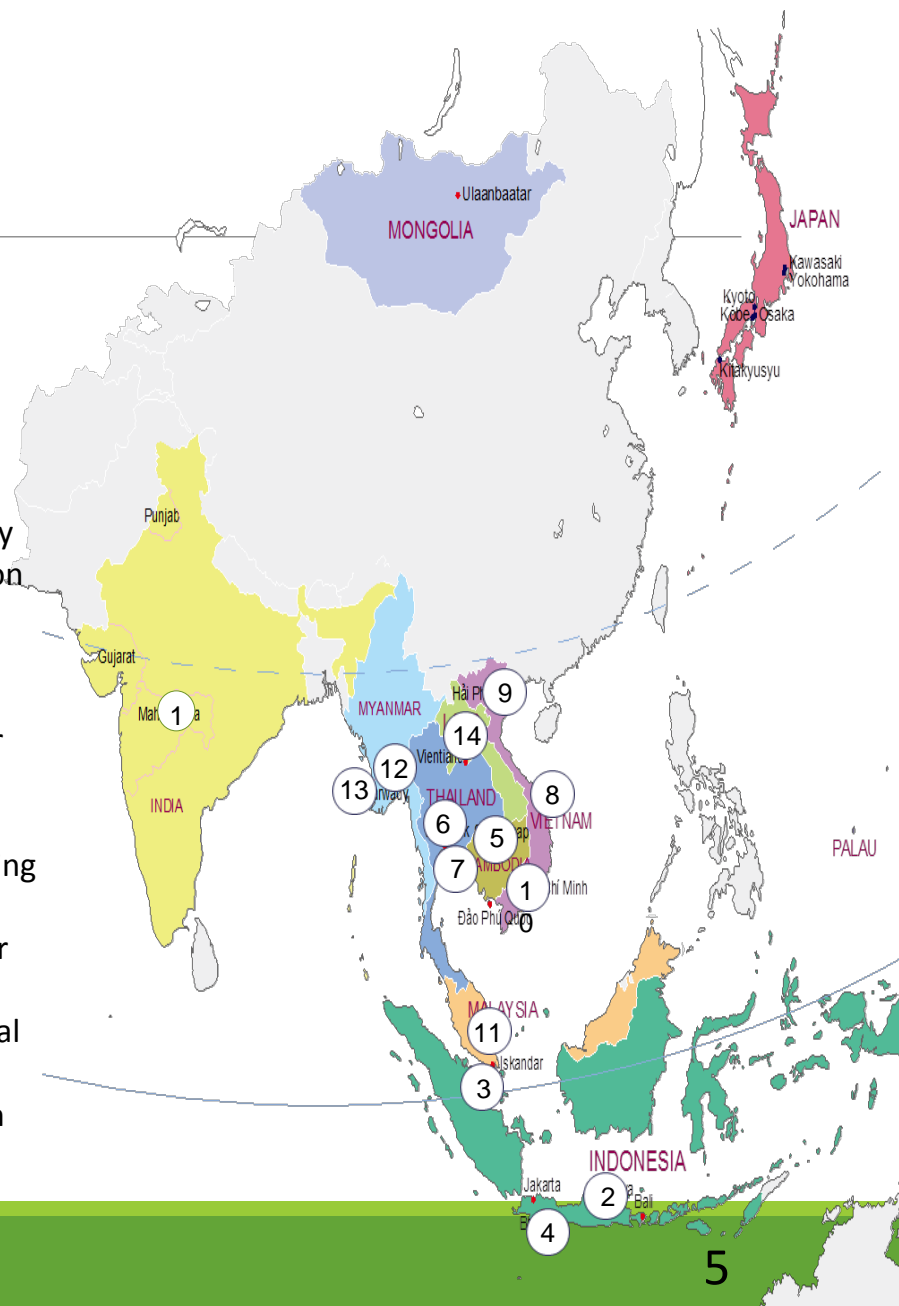
Indonesia:

- ◆ Energy saving in industrial wastewater treatment for rubber industry
- ◆ Hybrid Power Generation Project Using Biogas and Solar Power
- ◆ Development of District Energy Supply Business by introducing co-generation
- ◆ Introduction of co-generation and solar power generation systems in large shopping malls

FY2015 Feasibility studies for large scale project development

Project List

1. Promotion of low carbon city by properly developing material recycling systems in Bengaluru City (Bangalore City)
2. Establishment of Base for Low-Carbon Project Expansion in Surabaya (Surabaya)
3. Project for Developing JCM projects under city-to-city collaboration between Yokohama city and Batam city (Batam)
4. Project for Low Carbon Society Development under Collaboration between Bandung City and City of Kawasaki (Bandung City)
5. Project for Developing Low-carbon Tourism Cities through the Joint Crediting Mechanism in Siem Reap (Siem Reap)
6. JCM projects development (energy efficiency, and waste and waste water) under the Bangkok Master Plan on Climate Change, and study on financial and other facilitation schemes for introducing low carbon technologies (Bangkok)
7. Promotion of Decarbonizing of Municipal Waste Management and Ecological Industrial Town in Rayong Prefecture (Rayong Pref.)
8. JCM Feasibility Study in Da Nang through "Technical Cooperation for Sustainable Urban Development" with Yokohama City (Da Nang)
9. The whole city low carbonization in Hai Phong City (Hai Phong)
10. Ho Chi Minh City – Osaka City Cooperation Programme for Developing Low Carbon City (Ho Chi Minh)
11. Establishment of Base for Low-Carbon Project Expansion in Iskandar (Iskandar)
12. Study for building a sustainable low carbon city around the industrial zone in Patheingyi city, Ayeyarwady Division, Myanmar (Patheingyi)
13. JCM Project Formulation Study through City-to-City Collaboration in Yangon (Yangon)
14. Programme for the Establishment of Low-Carbon Historic City in Vientiane, based on City-to-City Cooperation between Vientiane Capital and Kyoto City (Vientiane Capital)



JCM Model Projects

The budget for FY 2015

*2.4 billion JPY (approx. USD24 million) per year by FY2017
(total 7.2 billion JPY)*

Finances part of
investment costs
(up to the half)

**Government of
Japan**

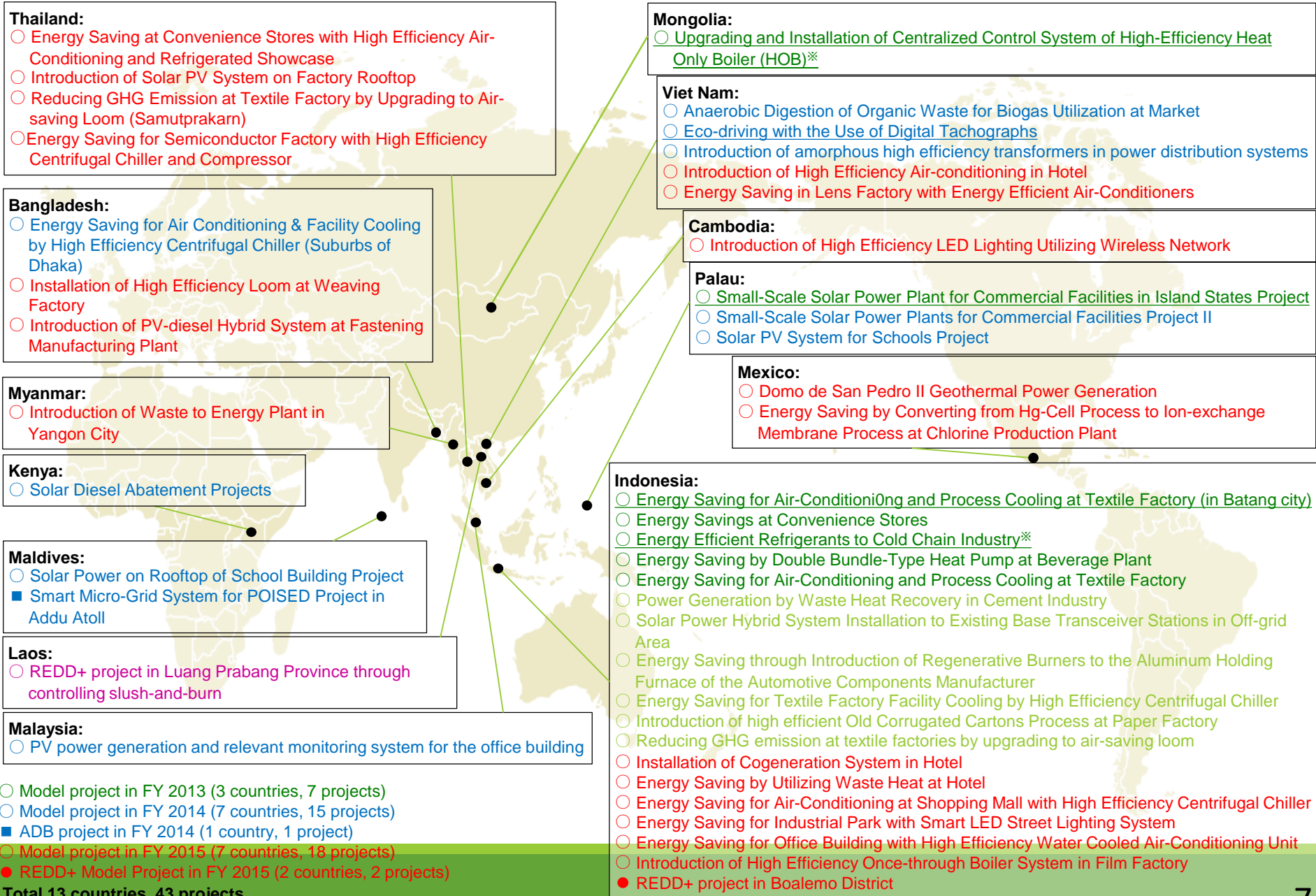
Conducts MRV and delivers at
least half of JCM credits to the
Japanese government

**International consortiums
(Japanese and host country entities)**



- Financing scope: facilities, equipment, vehicles, that reduce CO₂ from fossil fuel combustion, and construction cost for installing those facilities.
- Projects completion : installation starts after the adoption of the funding and must be completed within three years.

JCM Financing programs FY2013/2014/2015)



- Model project in FY 2013 (3 countries, 7 projects)
- Model project in FY 2014 (7 countries, 15 projects)
- ADB project in FY 2014 (1 country, 1 project)
- Model project in FY 2015 (7 countries, 18 projects)
- REDD+ Model Project in FY 2015 (2 countries, 2 projects)

Total 13 countries, 43 projects
 - The underlined projects have been registered as the JCM projects (7 projects) *these projects account for 2 registered JCM projects respectively, as they're operating in different sites

Support Program Enabling “Leapfrog” Development

Collaborative Financing Programme

Budget for FY 2015

1.8 billion JPY (approx. USD18 million) per year by FY2018

Scheme

To finance projects that provide additional GHG emission reduction to projects supported by JICA and other financial institutions.

Purpose

To expand superior and advanced low-carbon technologies for building a low-carbon society.

ADB Trust Fund

Budget for FY 2015

1.8 billion JPY (approx. USD18 million) per year

Scheme

To provide the financial incentives for the adoption of the advanced low-carbon technologies that are superior in GHG emission reduction but expensive in ADB- financed projects.

Purpose

To develop ADB projects as the “Leapfrog” developments by the advanced technologies.

JICA, other

Financial assistance/financial investments for overseas investment and lending

MOEJ

Finance

Contribution

ADB Trust Fund

Finance

Supported Project by JICA, etc.

Collaboration

JCM Project

Superior Advanced Low Carbon Technologies

ADB Project

- Waste to Energy Plant
- Renewable Energies
- Water Supply and Sewage Systems
- Transportation

GHG Emission Reduction

Technical Support Provided by MOEJ



- **JCM Methodology development**
- **Project Design Document (PDD) for project registration**
- **Support for monitoring report for credit issuance (only first time)**
- **Validation and Verification by Third Party Entity (TPE)**

IGES provides the technical support (Methodology Development, PDD development and Preparation of monitoring Report)

List of projects and studies held in Myanmar

Host Country ⇅	Type ⇅	Year ⇅	Entity ⇅	Title ⇅	Sector ⇅	⇅
Indonesia & Myanmar	FS	2013	Mizuho Bank, Ltd.	Solar-diesel hybrid system to stabilise solar power generation	Renewable Energy	
Myanmar	JCM Model Project	2015	JFE Engineering Corporation	Introduction of Waste to Energy Plant in Yangon City	Waste Management /Biomass Utilisation	
Myanmar	PS	2015	Fujita Corporation	Rice husk power generation in rice mill factory in Ayeyarwady	Waste Management /Biomass Utilisation	
Myanmar	FS	2014	Nikken Sekkei Civil Engineering Ltd.	Environment Improvement through Utilization of Biogas from POME Fermentation System	Waste Management /Biomass Utilisation	
Myanmar	FS	2014	JFE Engineering Corporation	Introduction of Waste to Energy Plant in Yangon City	Waste Management /Biomass Utilisation	
Myanmar	FS	2013	Nippon Koei Co., Ltd.	Geothermal binary power generation	Renewable Energy	

Source: <http://gec.jp/jcm/projects/index.html>