Ongoing JCM Projects (as in Nov 2015)

Model/Demonstration Projects are promoted to follow the steps described in the JCM project cycle . Official MRV (measurement, reporting, and verification) of emissions reduction starts after a project is registered.

A JCM Model Project

1. **Energy Saving at Convenience Stores**
   Lawson, INC.
   PT. Midi Utama Indonesia Tbk
2. **Energy Saving for Air-Conditioning and Process Cooling at Textile Factory**
   Ebara Refrigeration Equipment & Systems,
   Nippon Koei Co., Ltd.
   PT. Primatexco,PT. Ebara Indonesia
3. **Energy Saving by Installation of Double Bundle-type Heat Pump**
   Toyota Tsusho Corporation
   PT. TTL Residences
4. **Power Generation by Waste-heat Recovery in Cement Industry**
   JFE Engineering Corporation
   PT. Semen Indonesia Tbk



5. **Solar Power Hybrid System Installation to Existing Base Transceiver Stations in Off-grid Area**
   ITOCHU Corporation
   PT. Telekomunikasi Selular
6. **Introduction of High Efficient Old Corrugated Cartons Process at Paper Factory**
   Kanematsu Corporation
   PT Fajar Surya Wisesa Tbk.
7. **Installation of Gas Co-generation System for Automobile Manufacturing Plant**
   Toyota Tsusho Corporation
   Toyota Motor Manufacturing Indonesia

B JCM REDD+ Model Project

1. **REDD+ Project in Boalemo District**
   Kanematsu Corporation
   Gobel group DKM (PT. Dharma Karyatama Mulia, Boalemo District)

C JCM Demonstration Project

1. **Remote Auto-Monitoring System for Thin Film Solar Power Plant in Indonesia**
   SHARP Corporation
   PT. PLN
2. **Energy Saving by Optimum Operation at Oil Refinery**
   Yokogawa Electric Corporation
   PT. Pertamina (Refinery Unit V)
3. **Utility Facility Operation Optimization Technology**
   Azbil Corporation
   Azbil Berca Indonesia, PT. Pertamina



D JCM Registered Project

1. **Energy Saving for Air-Conditioning and Process Cooling by Introducing High-efficiency Centrifugal Chiller**
   Ebara Refrigeration Equipment & Systems Co. Ltd.
   Nippon Koei Co. Ltd.
   PT. Primatexco Indonesia
2. **Project of Introducing High Efficiency Refrigerator to a Food Industry Cold Storage in Indonesia**
   Mayekawa Manufacturing Co.,Ltd.
   PT. Adib Global Food Supplies, PT. Mayekawa Indonesia
3. **Project of Introducing High Efficiency Refrigerator to a Frozen Food Processing Plant in Indonesia**
   Mayekawa Manufacturing Co.,Ltd.
   PT. Adib Global Food Supplies, PT. Mayekawa Indonesia

Indonesia JCM Secretariat

Established by the Coordinating Ministry for Economic Affairs of the Republic of Indonesia in February 2014 to support the JCM Joint Committee, to act as center of JCM information and communication, and to collaborate with all stakeholders to ensure smooth implementation for the achievement of JCM purpose.

Coordinating Ministry for Economic Affairs
Republic of Indonesia

In cooperation with:

JICA

For Further Information

Indonesia JCM Secretariat
BUMN Building 18th Floor
Jl. Medan Merdeka Selatan 13,
Jakarta - 10110 Indonesia
www.jcmindonesia.com
info@jcmindonesia.com

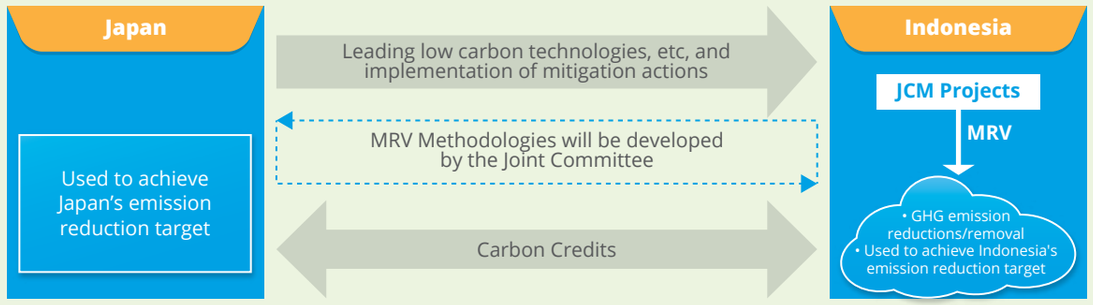
JCM (Joint Crediting Mechanism)

The Joint Crediting Mechanism(JCM) encourages cooperation between Japanese and Indonesian institutions to promote implementation of Low Carbon Development activities in Indonesia.

History of the JCM in Indonesia

- 2010 : Initial discussions between National Council on Climate Change of Indonesia as JCM focal point and Japanese Government Delegation
- 2011 : Formal meeting on the JCM between National Council on Climate Change of Indonesia and related ministries and Japanese Government Delegation
- 2012 : Establishment of Coordination Team for Inter-State Carbon Trade Negotiation (Tim Koordinasi Perundingan Perdagangan Karbon Antarnegara (TKPPKA))
- 2013 : Signing on JCM Cooperation between the Governments of Indonesia and Japan, and Establishment of JCM Joint Committee consisting of members from Indonesia and Japan
- 2014 : Establishment of Indonesia JCM Secretariat

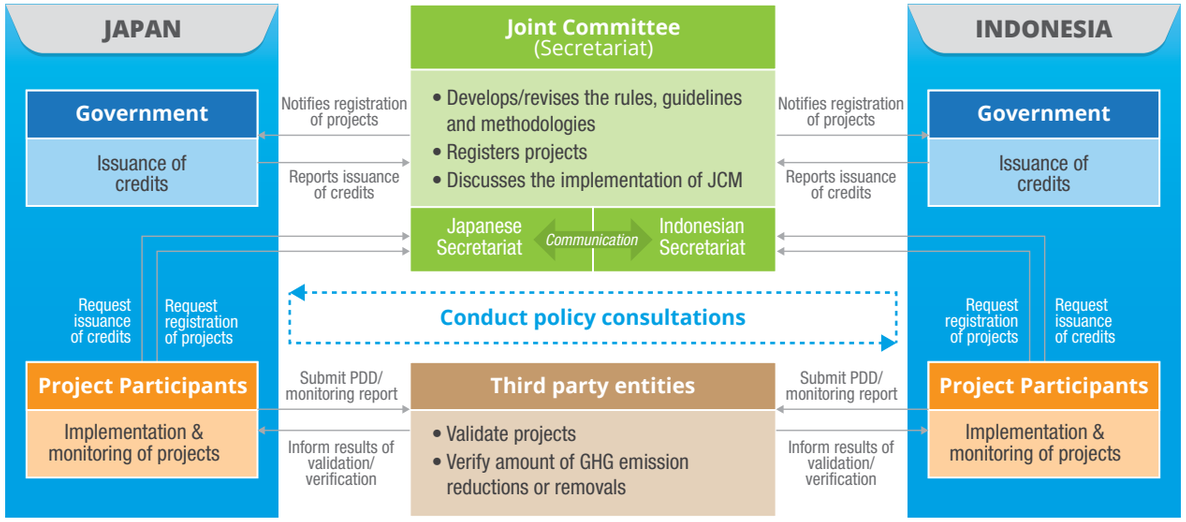
Basic Concept of the JCM Cooperation between Japan and Indonesia



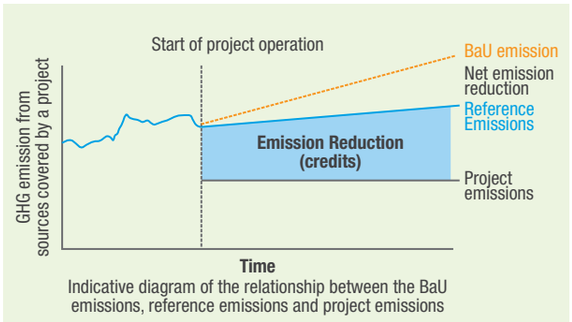
Purpose of the JCM

- Facilitating diffusion of leading low carbon technologies, products, systems, services, and infrastructure as well as implementation of mitigation actions, and contributing to sustainable development of developing countries;
- Appropriately evaluating contributions from Japan to GHG emission reductions or removals in a quantitative manner, by applying measurement, reporting, and verification (MRV) methodologies, and using them to achieve Japan's emission reduction target;
- Contributing to the ultimate objective of the UNFCCC by facilitating global actions for GHG emission reductions or removals, complementing the Clean Development Mechanism (CDM).

The JCM Cooperation Scheme



MRV Methodology



Indicative diagram of the relationship between the BaU emissions, reference emissions and project emissions

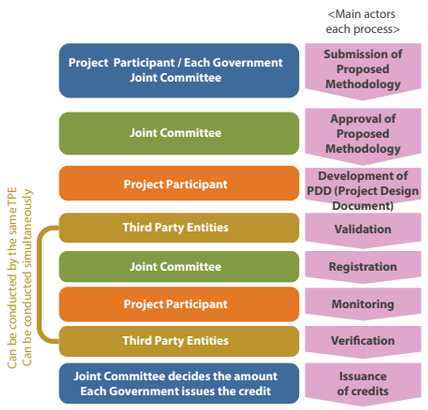
The reference emissions are calculated to be below or at least on the same level business-as-usual (BaU) emissions, by conservatively estimating/identifying plausible emission or by other methods determined in the methodologies to be approved by the Joint Committee.

The net emission reductions from JCM projects are accounted as Indonesian domestic emission reductions.

Approved JCM MRV methodologies (as of November 2015):

1. Power Generation by Waste Heat Recovery in Cement Industry
2. Energy Saving by introduction of High Efficiency Centrifugal Chiller
3. Installation of Energy-efficient Refrigerators Using Natural Refrigerant at Food Industry Cold Storage and Frozen Food Processing Plant
4. Installation of Inverter-Type Air-Conditioning System for Cooling for Grocery Store
5. Installation of LED Lighting for Grocery Store
6. GHG emission reductions through optimization of refinery plant operation in Indonesia
7. GHG emission reductions through optimization of boiler operation in Indonesia
8. Fridge-freezer showcase by using natural refrigerant for grocery store
9. Replacement of conventional burners with regenerative burners for aluminum holding furnaces
10. Introducing double-bundle modular electric heat pumps to a new building

Methodology update and public comments are available on **www.jcmindonesia.com**



Project Cycle of the JCM

The image describes the steps to follow for project participants, third-party entities (TPEs), the Joint Committee, the secretariat, both Government sides, and other stakeholders, for approval of a methodology, registration of JCM project, issuance of credits and related actions.

JCM Promotion Scheme

1 Financing Programme for JCM Model Project by MOEJ

- Scope of the financing: facilities, equipment, vehicle, etc. which reduce CO_2 from fossil fuel combustion as well as construction cost for installing those facilities, etc.

2 Promotion Scheme for JCM Demonstration Projects by METI/NEDO

- JCM Demonstration Projects are funded by METI Japan and implemented by NEDO (New Energy and Industrial Technology Development Organization), which supports the project costs necessary to verify the amount of GHG emission reduction in line with JCM rules and guidelines.
- Coverage of project cost: Cost of the JCM Demonstration Projects necessary for MRV: e.g. Cost of design, machines, materials, labor, travel, etc.

3 New Support Program Enabling "Leapfrog" Development (Fund/ADB) by MOEJ

Collaborative Financing Programme

Scheme

To finance the projects which have the better efficiency of reducing GHG emission in collaboration with other projects supported by JICA and other governmental-affiliated financial institute.

Purpose

To expand superior and advanced low-carbon technologies for building the low carbon society as the whole city wise and area wise in the wider fields, and to acquire credits by the JCM.

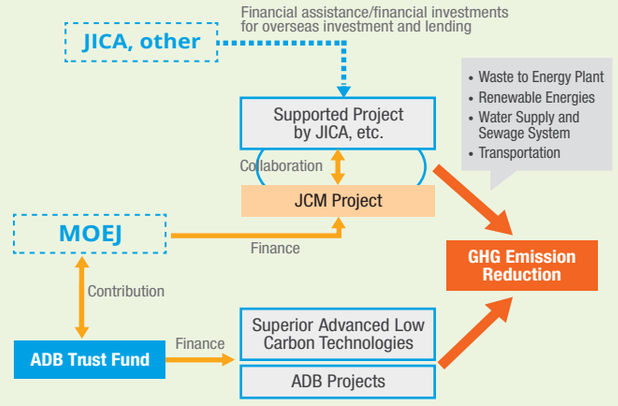
ADB Trust Fund (JF JCM)

Scheme

To provide the financial incentives for the adoption of the advanced low-carbon technologies which 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 and to show the effectiveness of the JCM scheme by the acquisition of credits of the JCM.



4 JCM REDD+ Model Projects by MOEJ

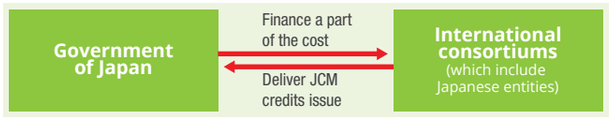
Background

- Degradation of forests in developing countries
- 17 demonstration feasibility studies from 2011 to 2014

Expected outcome

- Participatory monitoring of illegal logging, disaster prevention and forest restoration.
- Provision of alternative livelihood

Project Outline



- Expected to deliver at least half of JCM credits except partner country's allocation which is based on the law
- These projects may be carried out with the cooperation of other organization such as like JICA.

5 JCM Feasibility Study (FS) by MOEJ and METI/NEDO

The study to promote potential JCM projects, survey their feasibility, check the practicality of the MRV methodology, and elaborating investment plan.

MOEJ : Ministry of Environment of Japan
METI : Ministry of Economy, Trade and Industry of Japan
NEDO : New Energy and Industrial Technology Development Organization
ADB : Asian Development Bank