

Recent Development of The Joint Crediting Mechanism (JCM)

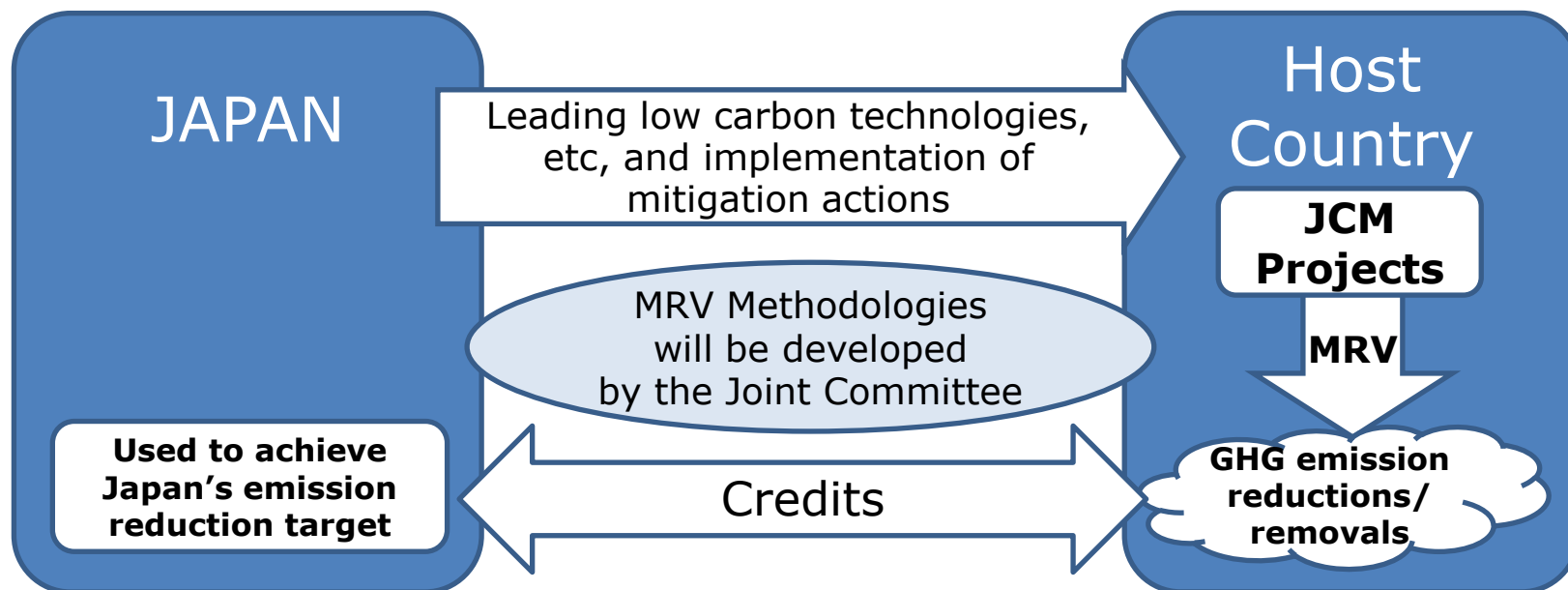
April 2014

Embassy of Japan in Indonesia

All ideas are subject to further consideration and discussion with host countries

Basic Concept 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 to GHG emission reductions or removals from Japan in a quantitative manner, by applying measurement, reporting and verification (MRV) methodologies, and use 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 CDM.



Project Cycle of the JCM and the CDM

JCM

<Main actors at each process>

CDM

Project Participant / Each Government
Joint Committee

Submission of
Proposed
Methodology

Project Participant

Joint Committee

Approval of
Proposed
Methodology

CDM Executive Board

Project Participant

Development
of PDD

Project Participant

Third Party Entities

Validation

Designated Operational Entities
(DOEs)

Joint Committee

Registration

CDM Executive Board

Project Participant

Monitoring

Project Participant

Third Party Entities

Verification

DOEs

Joint Committee decides the amount
Each Government issues the credit

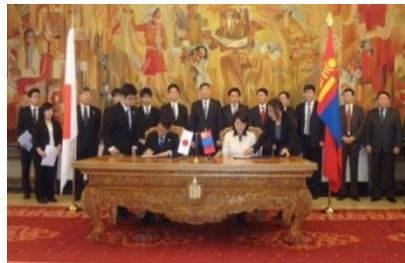
Issuance
of credits

CDM Executive Board

Can be conducted by the same TPE
Can be conducted simultaneously

Countries with which Japan has signed on bilateral documents

➤ Japan has held consultations for the JCM with developing countries since 2011 and signed the bilateral document for the JCM with Mongolia, Bangladesh, Ethiopia, Kenya, Maldives, Viet Nam, Lao PDR, Indonesia, Costa Rica and Palau.



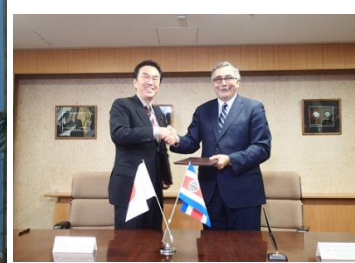
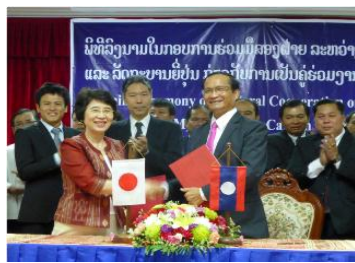
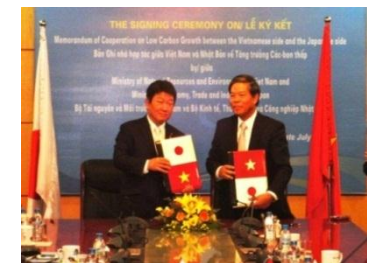
Mongolia
On January 8, 2013
(Ulaanbaatar)

Bangladesh
On March 19, 2013
(Dhaka)

Ethiopia
On May 27, 2013
(Addis Ababa)

Kenya
On June 12, 2013
(Nairobi)

Maldives
On June 29, 2013
(Okinawa)



Viet Nam
On July 2, 2013
(Hanoi)

Lao PDR
On August 7, 2013
(Vientiane)

Indonesia
On August 26, 2013
(Jakarta)

Costa Rica
On December 9, 2013
(Tokyo)

Palau
On January 13, 2014
(Ngerulmud)

Approaches for promoting JCM project formulation

Example of JCM Feasibility Studies/Model Projects /Demonstration Projects (2010 to 2013)

Red: JCM Model Projects
 Green: JCM Demonstration Projects
 Black: JCM Feasibility Studies

- Mongolia:**
- Upgrading and Installation of Centralized Control System of High- Efficiency Heat Only Boiler
 - Energy-saving power transmission system
 - Highly Efficient Transmission and Coal Power Plant
 - Wind-Power Generation
 - 10MW-scale solar power generation for stable power supply
 - Energy conservation at cement plant
 - Improvement of thermal installation and water cleaning/air purge at power plants

- Bangladesh:**
- Brick Production based on Non-Firing Solidification Technology
 - CCGT Power Generation
 - High-efficiency rice husk based cogeneration
 - Solar power generation with long-life storage battery in non-electrified regions

- Viet Nam:**
- Integrated Energy Efficiency Improvement at Beer Factory
 - Highly Efficient Coal Power Plants (Ultra Super Critical)
 - Highly Efficient Air Conditioning
 - Highly Efficient Transformer
 - Water purification and sludge emission reduction
 - Vehicle-mounted terminal (digital tachograph)

- Kenya:**
- Expansion of geothermal project

- Myanmar:**
- Run-of-river Micro Hydro Power Generation

- Maldives:**
- Air conditioners by using deep sea water

- Sri Lanka:**
- Sustainable biomass-based power generation

- Djibouti / Rwanda:**
- Geothermal Power Generation

- India:**
- Energy Efficient Technologies for Integrated steel works
 - Efficient Air Conditioners
 - Utilization of LED Lights at Office Buildings
 - High-Performance Industrial Furnaces to Aluminum Industry
 - Bagasse-based Power Generation including Waste Heat Utilization

- Laos:**
- Energy saving at beer plant
 - Forest conservation measures (REDD+)

- Thailand:**
- Promotion of use of electric vehicles
 - Energy saving in industrial park
 - Energy Savings through Building Energy Management System
 - Bagasse-based Cogeneration at Sugar Mill

- Cambodia:**
- Small-scale Biomass Power Generation by Using Stirling Engines

- Mexico:**
- CCS (Carbon dioxide Capture and Storage)

- Indonesia:**
- Energy Efficient Refrigerants to Cold Chain Industry
 - Energy Saving for Air-Conditioning and Process Cooling at Textile Factory
 - Energy Savings at Convenience Stores
 - Mega-Solar Power Plants Using Thin-Film Solar Cells
 - Optimum Control of Plant Equipment
 - Wind-Power Generation
 - Energy-saving stores based on CO2 refrigerant
 - Forest conservation measures (REDD+)
 - Anaerobic treatment for wastewater from rubber plants
 - Solar power system at off-grid cell towers
 - Improvement of REDD+ implementation using IC technology

New Mechanisms Information Platform

The screenshot displays the homepage of the New Mechanisms Information Platform, specifically the Joint Crediting Mechanism (JCM) section. The page features a navigation menu with options like 'Joint Crediting Mechanism (JCM)', 'Support Programmes', 'Information on NAMAs', 'Useful Experiences', 'Useful Calculation Methodology', and 'REDD/REDD+'. The main content area includes a section titled 'About JCM' with bullet points describing the proposed elements and objectives. A diagram illustrates the flow of 'Leading Low Carbon Technologies, etc., and implementation of mitigation actions' from Japan to a 'Host Country' for a 'JCM Project', resulting in 'GHG emission reductions / removals' and 'Credits' that are returned to Japan. Below this, there is a table of 'Relevant documents of the JCM' with columns for 'Date' and 'Title'. The table lists four documents from September 2013 to March 2013. At the bottom, there are sections for 'JCM Partner Country Information' listing countries like Mongolia, Bangladesh, Ethiopia, Kenya, Maldives, Viet Nam, Laos, Indonesia, and Costa Rica, and 'Methodologies and Projects Information' with links for 'Methodologies' and 'Projects'.

Joint Crediting Mechanism (JCM)

About JCM

- Proposed Elements of the Joint Crediting Mechanism (JCM)
- To facilitate 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.
- To appropriately evaluate contributions to GHG emission reductions or removals from developed countries in a quantitative manner, through mitigation actions implemented in developing countries and use those emission reductions or removals to achieve emission reduction targets of the developed countries.
- To contribute to the ultimate objective of the UNFCCC by facilitating global actions for emission reductions or removals.

Japan → Leading Low Carbon Technologies, etc., and implementation of mitigation actions → **Host Country**

Used to achieve Japan's emission reduction target

MRV Methodologies will be developed by the Joint Committee

JCM Project

MRV

Credits

GHG emission reductions / removals

Relevant documents of the JCM

Date	Title
Sep 12, 2013	Recent Development of The Joint Crediting Mechanism (JCM)
Jul 10, 2013	Recent Development of The Joint Crediting Mechanism (JCM)
May 23, 2013	Recent Development of the Joint Crediting Mechanism (JCM) / Bilateral Offset Credit Mechanism (BOCM)
Mar 8, 2013	Recent Development of the Joint Crediting Mechanism (JCM) / Bilateral Offset Credit Mechanism (BOCM)

Relevant Documents:

- Gov't of Japan
- Submissions to the UNFCCC
- MOEJ
- MOFA

JCM Partner Country Information

- Mongolia
- Bangladesh
- Ethiopia
- Kenya
- Maldives
- Viet Nam
- Laos
- Indonesia
- Costa Rica

Methodologies and Projects Information

- Methodologies
- Projects

- New Mechanisms Information Platform website was established to provide the latest movements and information on the JCM.
- Help Desk also accepts and answers inquiries regarding the JCM.
- Another dedicated website for the JCM will be launched. In the meantime, all the documents regarding the JCM development (e.g. outcome of the JC, decisions, methodologies, and projects) are uploaded on this website.
- URL:
<http://www.mmechanisms.org/e/initiatives/index.html>