Recent Development of The Joint Crediting Mechanism (JCM)

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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 from Japan to GHG emission reductions or removals 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.



JCM Partner Countries

> Japan has held consultations for the JCM with developing countries since 2011 and has established the JCM with Mongolia, Bangladesh, Ethiopia, Kenya, Maldives, Viet Nam, Lao PDR, Indonesia, Costa Rica, Palau, Cambodia, Mexico, Saudi Arabia and Chile.



Mongolia Jan. 8, 2013 (Ulaanbaatar) Bangladesh Mar. 19, 2013 (Dhaka)

Ethiopia

May 27, 2013 (Addis Ababa)



Maldives Jun. 29, 2013 (Okinawa)

Viet Nam Jul. 2. 2013 (Hanoi)



Lao PDR Aug. 7, 2013 (Vientiane)

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Saudi Arabia May 13, 2015



Indonesia Aug. 26, 2013 (Jakarta)



Chile May 26, 2015 (Santiago)



Costa Rica Dec. 9, 2013 (Tokyo)



Palau Jan. 13, 2014 (Ngerulmud)



Cambodia Apr. 11, 2014 (Phnom Penh)



Mexico Jul. 25, 2014 (Mexico City)

> Three (3) JCM projects have been registered between Indonesia and Japan and one (1) JCM project has been registered between Palau and Japan.

Approved JCM Methodologies

No.	Country	Sectoral Scope	Methodology Title	GHG Emission Reduction Measures	
MN_A M001	Mongolia	Energy distribution	Installation of energy-saving transmission lines in the Mongolian Grid	Replacing the existing conductors in transmission lines with Low Electrical Power Loss Aluminum Conductors, Aluminum-Clad Steel Reinforced, which have lower transmission loss compared to the existing conductors.	
MN_A M002	Mongolia	Energy industry	Replacement and Installation of High Efficiency Heat Only Boiler (HOB) for Hot Water Supply Systems	This project involves the installation of new HOB for hot water supply system and the replacement of existing coal-fired HOP. The Boiler efficiency of the reference HOB is typically lower than that of the project HOB.	
MV_A M001	Maldives	Energy industries	Displacement of Grid and Captive Genset Electricity by Solar PV System	Displacement of grid electricity and/or electricity using diesel fuel as a power source by installation and operation of the solar PV system(s).	
VN_A M001	Viet Nam	Transport	Transportation energy efficiency activities by installing digital tachograph systems	Improvement of driving efficiency by installation of digital tachograph system to freight vehicle fleets providing to the drivers a real-time feedback against inefficient driving.	
VN_A M002	Viet Nam	Energy demand	Introduction of Room Air Conditioners Equipped with Inverters	Energy saving achieved by introduction of RACs equipped with inverters.	
VN_A M003	Viet Nam	Energy demand	Improving the energy efficiency of commercial buildings by utilization of high efficiency equipment	Reduction of electricity and fossil fuel consumed by existing facilities is achieved by replacing or substituting these facilities with high efficiency equipment.	
ID_AM 001	Indonesia	Energy industries	Power Generation by Waste Heat Recovery in Cement Industry	Replacing the electricity from the grid with the one to be generated by waste heat recovery system with suspension preheater boiler and air quenching cooler boiler.	
ID_AM 002	Indonesia	Energy demand	Energy Saving by Introduction of High Efficiency Centrifugal Chiller	Saving energy by introducing high efficiency centrifugal chiller for factories, commerce facilities, etc.	
ID_AM 003	Indonesia	Energy demand	Installation of Energy-efficient Refrigerators Using Natural Refrigerant at Food Industry Cold Storage and Frozen Food Processing Plant	Saving energy by introducing high efficiency refrigerators to the food industry cold storage and frozen food processing plants.	
ID_AM 004	Indonesia	Energy demand	Installation of Inverter-Type Air Conditioning System for Cooling for Grocery Store	Saving energy by introducing inverter-type air conditioning system for cooling for grocery stores.	
ID_AM 005	Indonesia	Energy demand	Installation of LED Lighting for Grocery Store	This methodology applies to the project that aims for saving energy by introducing LED (Light Emitting Diode) lighting for grocery store in Indonesia.	
PW_A M001	Palau	Energy industries	Displacement of Grid and Captive Genset Electricity by a Small-scale Solar PV System	Displacement of grid electricity and/or electricity using diesel fuel as a power source by installation and operation of the solar PV system(s).	

Registered JCM Projects

Registration No.	Country	Sectoral Scope	Registration Date	Project Title	Emission Reduction (average ton per year)
ID001	Indonesia	Energy demand	31 October, 2014	Energy Saving for Air-Conditioning and Process Cooling by Introducing High-efficiency Centrifugal Chiller	114
ID002	Indonesia	Energy demand	29 March, 2015	<u>Project of Introducing High</u> <u>Efficiency Refrigerator to a Food</u> <u>Industry Cold Storage in Indonesia</u>	120
ID003	Indonesia	Energy demand	29 March, 2015	Project of Introducing High Efficiency Refrigerator to a Frozen Food Processing Plant in Indonesia	21
PW001	Palau	Energy industry	21 April, 2015	Small scale solar power plants for commercial facilities in island states	227



(ID001)



(ID002)



(ID003)



(PW001)

JCM project pipelines (Selected projects under Financing Programme and Demonstration Projects)

