

Scaling up of the JCM through collaboration with relevant organizations

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Maiko Uga Ministry of the Environment ,Japan









The Joint Crediting Mechanism (JCM)

- Facilitating diffusion of leading low carbon technologies through contributions from Japan and evaluating realized GHG emission reductions or removals in a quantitative manner to use them for achieving Japan's emission reduction target.
- > Japan will address the high initial cost barrier of introducing advanced low-carbon technologies in the Partner countries (17 countries) through the JCM (GoJ implements several supporting schemes)



Waste heat recovery in Cement Industry, JFE engineering, Indonesia



Eco-driving with Digital Tachographs, NITTSU, Vietnam



Energy saving at convenience stores. Panasonic. Indonesia



High efficiency air-conditioning High-efficiency Heat only and process cooling, Ebara refrigeration equipment & systems, Indonesia



Boilers, Suuri-Keikaku, Mongolia



Upgrading air-saving loom at textile factory, TORAY etc., Indonesia, Thai, Bangladesh



Installing solar PV system, PCKK, Palau Maldives



Amorphous transformers in power distribution. Hitachi Materials, Vietnam



Co-generation system at factory, Toyota, Nippon Steel & Sumikin Engineering, Indonesia, Thai



Regenerative Burners in industries, Toyotsu Machinery, Indonesia





High efficiency airconditioning system, Hitachi, Daikin, Vietnam



LED street lighting system with wireless network control.² MinebeaMitsumi, Cambodia



Solar power .Farmdo Co., Ltd., Mongolia



Waste to Energy Plant, JFE engineering, Myanmar



High efficient refrigerator, Mayekawa MFG, Indonesia





Contributions from Japan





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, Chile, Myanmar, Thailand and the Philippines.



Mongolia Jan. 8, 2013



Bangladesh Mar. 19, 2013 (Dhaka)



Ethiopia May 27, 2013 (Addis Ababa)



Kenva Jun. 12,2013 (Nairobi)



Maldives Jun. 29, 2013 (Okinawa)



Viet Nam Jul. 2, 2013 (Hanoi)



Lao PDR Aug. 7, 2013 (Vientiane)



Saudi Arabia May 13, 2015



Indonesia Aug. 26, 2013 (Jakarta)



Chile May 26, 2015 (Santiago)



Costa Rica Dec. 9, 2013 (Tokyo)



Myanmar Sep. 16, 2015 (Nay Pyi Taw)



Palau Jan. 13, 2014 (Ngerulmud)



Thailand Nov. 19, 2015 (Tokyo)



Cambodia Apr. 11, 2014 (Phnom Penh)



the Philippines Jan. 12, 2017 (Manila)



Jul. 25, 2014 (Mexico City)

Mexico

JCM's Contribution to NDC



- JCM's conservative emission reduction calculation (reference emissions below BaU emissions) will ensure a net decrease and/or avoidance of GHG emissions.
- This part of emission reductions will automatically contribute to the achievement of NDC.





- **1.** JCM Model Projects by Ministry of the Environment
- 2. JCM F-gas Recovery and Destruction Model Project
- 3. ADB Trust Fund: Japan Fund for Joint Crediting Mechanism
- 4. Collaboration with the World Bank Group

JCM Model Projects by MOE



Budget for projects starting from FY 2019 is <u>9.9 billion JPY</u> (approx. <u>USD 99 million</u>) in total by FY2021 (1 USD = 100 JPY)

XIncludes collaboration with projects supported by JICA and other governmental-affiliated financial institute.









JCM F-gas Recovery and Destruction Model Project by MOE



Conduct MRV to estimate GHG [Draft budget for FY 2018] emission reductions. Government of Japan 40 million JPY (approx. 0.4 At least half or ratio of financial million USD) (1 USD = 100 JPY) support to project cost (larger ratio Finance part of the cost in flat-rate will be applied) of JCM credits issued (up to 40 million JPY/year) are expected to be delivered to the government of Japan International consortiums (which include Japanese entities) Users of Manufacturers Entities for recovery and Entities for destruction of transportation of used F-gas of equipment equipment used F-gas (may use existing which uses F-gas which uses F-gas (recycling or scrap entities) facility for destruction) Purpose Project Period

To recover and destroy F-gas (GHG except for energy-related CO2, etc) from used equipment instead of releasing to air, and reduce emissions

Scope of Financing

- •Establish scheme for recovery and destruction
- •Install facilities/equipment for recovery/destruction
- •Implementation of recovery, transportation, destruction and monitoring

Three years in maximum (Ex. 1st year for scheme, 2nd vear for facilities, 3rd year for recovery/destruction)

Eligible Projects

- •After the adoption of financing, start implementation of recovery/destruction within three years
- •Aim for the registration as JCM project and issuance credits



Draft Budget for FY2019

•JPY 1 billion (approx. USD 10 million

Scheme

To provide the financial incentives for the adoption of advanced low-carbon technologies which are superior in GHG emission reduction but expensive in ADB(Asian Development Bank)-financed projects

Purpose

To develop ADB projects with sustainable and low-carbon transition perspective by introducing advanced low-carbon technologies as well as to acquire JCM credits



JCM Financing Programme by MOEJ (FY2013~2019) as of Nov 26, 2019



Boiler to Carton Box Factory



Technologies Transferred through JCM by MOEJ(FY2013-2019)



- Total of 147**JCM Projects** being developed in 17 partner countries
- 48% are energy efficiency and 43% are renewable energy
- Effective use of Energy, Transport, Waste to energy, F-gas Recovery and Destruction and REDD+ project shares 9%

Waste 2%

• Waste to Energy

Effective Use of Energy 3%

- Waste Heat Recovery
- Gas Co-generation

Renewable energy 43%

- Solar
- Micro hydro
- wind
- Biomass



Collaboration with the World Bank Group



Memorandum of Cooperation between World Bank Group & MOEJ

- Identify suitable WBG programs where the MOEJ could potentially participate through appropriate identified means and jointly develop mitigation outcomes from the projects using the JCM methodology
- Explore the possibility to scale up the JCM projects under the PMR and PMR Successor Program
- Share information on identified candidate programs with the MOEJ to explore and examine potential arrangements of the pilot projects with the JCM including utilization of Measurement, Reporting and Verification ("MRV") methodologies





Areas of Cooperation

Piloting Article 6 of the Paris Agreement

- Collaboration with World Bank supported programs
- Replication and scale-up JCM projects under the Bank program
- Application of JCM methodologies

Partnership for Market Readiness (PMR)

- Collaboration with PMR and next phase
- Scale-up JCM projects under the PMR and next phase

Carbon Pricing Leadership Coalition (CPLC)

• Showcasing MOEJ's initiatives and business case for carbon pricing.

Innovate 4 Climate (I4C)

• Participation and cooperate to I4C

JCM Business Matching Site "JCM Global Match"



https://gec.force.com/JCMGlobalMatch/

Objectives

 To facilitate business match making of sellers and buyers of low and zero carbon technology for the JCM project

♦ Features

- Automated match-making website based on registered information
- Arrangement of face-to-face meetings
- Financial institutions and consulting firms can also participate for match-making





QR code to see the website





Muchas gracias! Thank you for your attention!

