

# JCM Good practices of creating co-benefits for sustainable development

December 10, 2019

## Maiko Uga Ministry of the Environment ,Japan









## Basic Concept of the Joint Crediting Mechanism (JCM)

- Facilitating diffusion of leading low-carbon or decarbonizing technologies ,etc 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 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.



\*measurement, reporting and verification

## The Joint Crediting Mechanism (JCM)





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,<sup>3</sup> 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)



Mexico Jul. 25, 2014 (Mexico City)



- **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) Manufacturers Users of Entities for recovery and Entities for destruction of used F-gas (may use existing transportation of used F-gas of equipment equipment which uses F-gas which uses F-gas (recycling or scrap entities) facility for destruction) Purpose

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

## Project Period

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



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### 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





## 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

As of August	2,	2019
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- 1. Low Carbon Development Partnership
- 2. JCM model project evaluation
- 3. JCM guidelines
  - Guidelines for Developing Sustainable Development Implementation Plan and Report in Indonesia
  - Guidelines for Developing Sustainable Development Contribution Plan and Report in Mongolia

# JCM Business Matching Site "JCM Global Match"

# 環境省

# 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

JCM Global Match A match-making platform for climate technology projects
🗳 User ID
Password
Log in.
Forgot your password? Not a member? Administrator Log in



# Muchas gracias! Thank you for your attention!

