

Recent Developments of the Joint Crediting Mechanism(JCM)

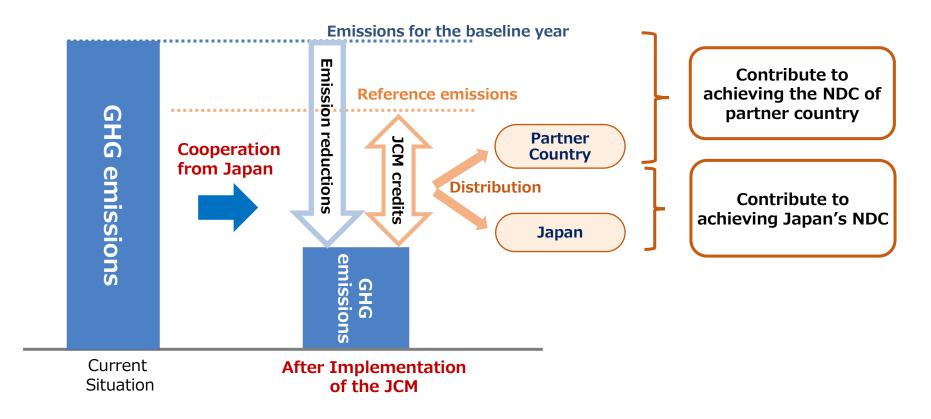
Session 4 ~Climate Change Mitigation and JCM~ 15 January 2025

Ministry of the Environment, Japan

Basic Concept of the JCM

- JCM
- In partner countries mainly in the Global South, Japanese companies and the Japanese government collaborate on implementing mitigation measures in terms of <u>technology and financial</u> investment. The part of the achieved GHG emission reductions or removals will be shared as JCM credits between the partner countries and Japan.
- Japan has established the JCM with 29 countries and over 250 projects are currently being implemented.

Basic Concept



Benefits from the JCM



The JCM offers <u>Social, Economic, Environmental Benefits</u> to both Japan and partner countries.

Japan	Partner countries
 Exploring <u>New Business Opportunities</u> 	 Exploring <u>New Business Opportunities</u>
• Enhancing Corporate Value \rightarrow Attracting new investment	• Enhancing Corporate Value \rightarrow Attracting new investment
 Acquiring <u>JCM Credits</u> → <u>Contribute to NDC(Reduction &</u> <u>Absorption Target)</u> 	 Diffusion of superior decarbonization technologies and products
 → Utilizing them for emission offset ※Generating revenue from their sale 	 Contribute to NDC (Reduction and absorption target) of partner countries
 Enhancing Presence through contributions to global decarbonization 	 Solving Social, Economic, Environmental issues such as air pollution and infrastructure development

Variety of JCM project types

- So far, there have been <u>257 technology adoptions</u> in 18 countries.
 *Note: The number of adoptions exceeds the number of projects because multiple technologies can be implemented within a single project.
- 56% of these are related to renewable energy, followed by 34% for energy efficiency, making up the majority.

Renewable Energy

Solar power



Solar power, FARMLAND Co., Ltd., Chile

<u>Biogas</u>



Biogas Power Generation, ITOCHU Corporation, Philippines



Floating Solar PV,TSB Co., Ltd.,Thailand

Geothermal power



Binary Power Generation Project at Geothermal Power Plant, MHI, Ltd., Philippines

Hydro power



Hydro Power Plant, Toyo Energy Farm Co., Ltd., Indonesia



Energy efficiency

Consumer sector



Energy saving at convenience stores, Panasonic, Indonesia

Industrial sector



High-efficiency refrigerator, Mayekawa MFG, Indonesia



Introduction of Amorphous High Efficiency Transformers in Power Grid , Yuko Keiso Co., Ltd. , ①Vietnam, ②Lao PDR



Energy-saving of mobile communications base transceiver stations, KDDI Corp. Indonesia



Optimization in petroleum refining plant, Yokogawa Electric Corp. Indonesia



Introduction of High Efficiency Once Through Boiler to Garment Factory, Osaka Gas Co., Ltd., Thailand

Variety of JCM project types



Waste



Waste to Energy Plant, JFE engineering, Viet Nam

Effective Use of Energy



Gas Co-generation System and Absorption Chiller, Kansai Electric Power, Thailand

Transport



CNG-Diesel Hybrid Public Bus, Hokusan Co., Ltd., Indonesia

REDD+



REDD+ project in Luang Prabang Province through controlling slash-andburn, Waseda University,





Development of a Fluorocarbon Collection and Destruction Model Project in Metro Manila, Philippines Utilizing Mixed Combustion Technologies , Marubeni Corporation, Philippines

List of JCM partner countries and projects supported by MOEJ (FY2013-2024) as of December 6, 2024

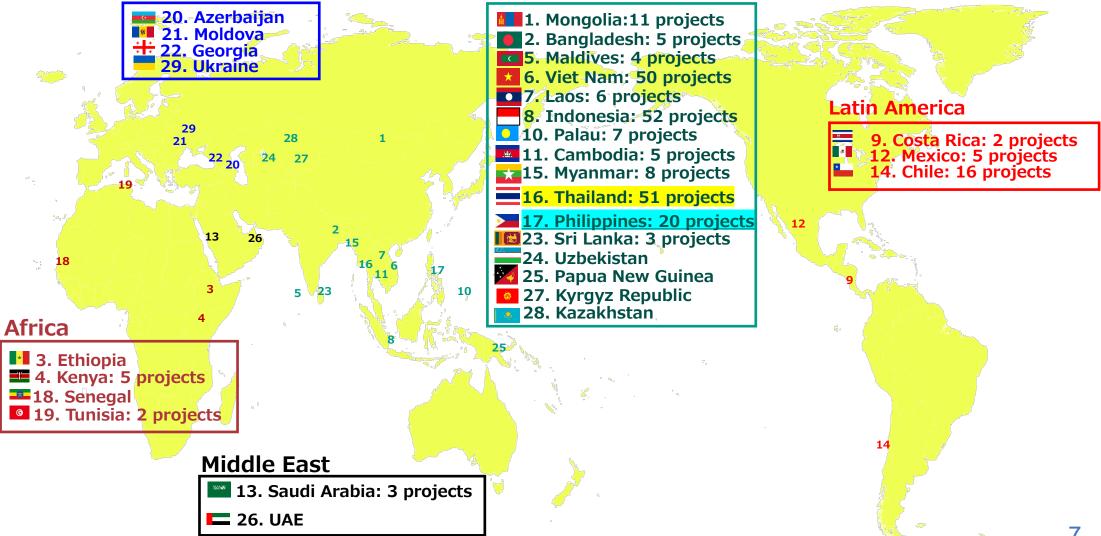


Total 255 projects (29 partner countries)

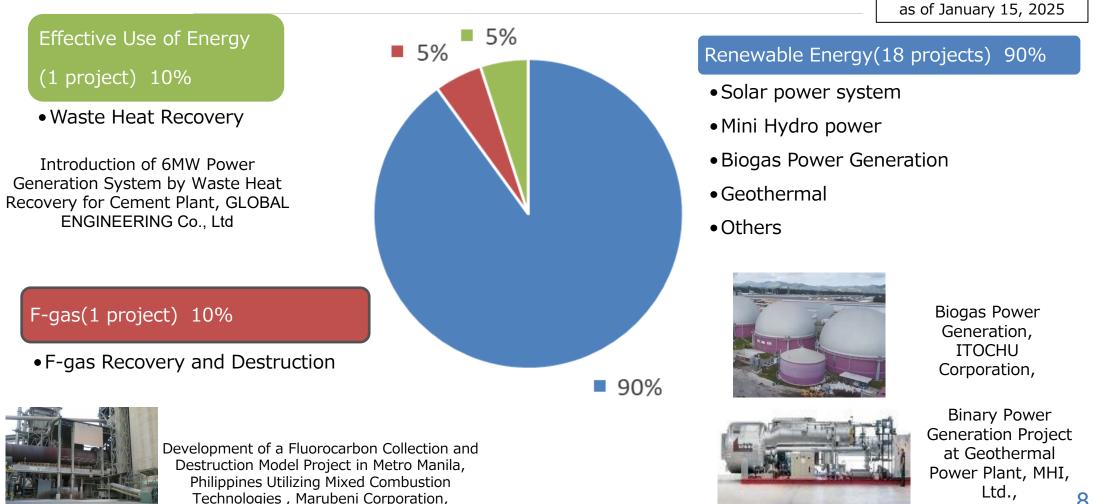
(Model Project: 238 projects(including Eco Lease: 7projects), ADB: 8 projects, UNIDO: 1 project, REDD+: 2 projects, F-gas: 4 projects, New Technology : 2project)

Asia Pacific

Eastern Europe



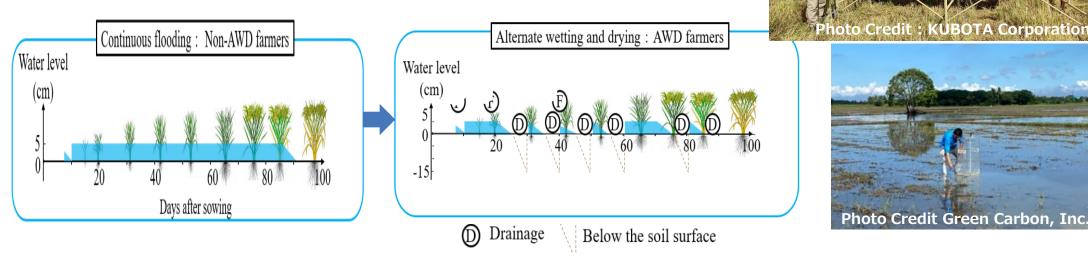
On January 12th, 2017, Japan and Philippines signed the bilateral document of the JCM. 20 projects and 20 technologies have been currently being implemented in Philippines. Renewable energy accounts for the majority at 90%.



New potential field of JCM in Philippines ~AWD~

- ✓ Japan has launched a project with Asian Development Bank to develop <u>the first agricultural</u> project on JCM in Japan/Asia.
- ✓ In June, <u>draft JCM methodology</u> for "Alternate Wetting and Drying (<u>AWD</u>)" in <u>the Philippines</u> was <u>developed and published</u>.
- ✓ By this methodology, Japan aims to issue <u>the world's first JCM credit in agriculture</u>.

GHG Emission Reduction from Rice Paddies by Alternate Wetting and Drying (AWD)



"Alternate Wetting and Drying (AWD)" can reduce about 30% of GHG emissions from rice fields in general* and will be a significant solution in a wide area in the Asia-Monsoon region.

*Ai LEON and Taro IZUMI, JIRCAS, "Impacts of alternate wetting and drying on rice farmers' profits and life cycle greenhouse gas emissions in An Giang Province in Vietnam" Journal of Cleaner Production, Volume 354, 2022

Overview of Japan's support for the JCM partner countries



Ministry of the <u>Environment</u>

Programme	Type of support	
Project development/capacity building/MRV support	Technical cooperation	
Finance Programme for JCM Model Projects*	Subsidy(Grant)	
Finance Programme for F-gas Recovery and Destruction Model Projects*		
Japan Fund for the JCM (JF JCM) - managed by ADB		
JCM support programme by UNIDO*		
Demonstration Programme for Application of New Decarbonizing Technology*		

* These programmes can support projects implemented by government-owned companies but not those implemented by the government itself.

Ministry of Economy, Trade and Industry

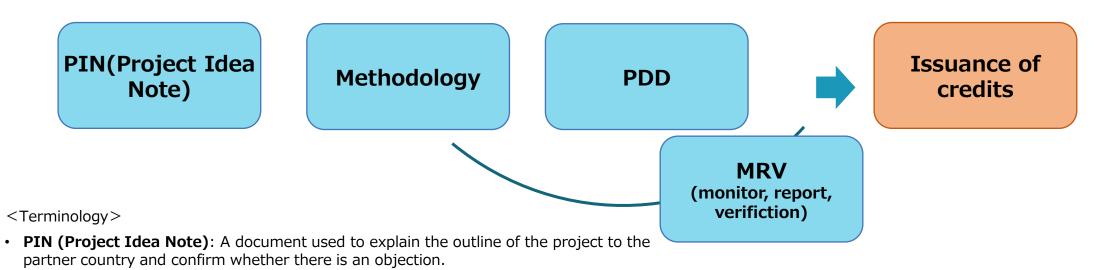
JCM Feasibility Study	Technical cooperation
JCM Demonstration Programme	Government-commissioned project
New JCM methodologies development study/ JCM Crediting support / MRV application study	Technical cooperation

Ministry of Agriculture, Forestry and Fisheries

Development of MRV for JCM projects in Agriculture –implemented by ADB	Technical cooperation	
Field studies for JCM REDD+	Government- commissioned project	1

Scheme of the JCM

Flow of the JCM



• **PDD (Project Design Document)**: A document that includes monitoring methods and estimated emission reductions. Required for project registration.

Key Players and Roles in the JCM

Project Participants

 Implementation & monitoring of projects

Joint Committee (Secretariat)

- Confirmation of no objection to PIN
- Registration of projects
- Decision of issuance of credits

Government

 Issuance of credits by JC decision

Third party entities

- Validation of projects
- Verification of amount of GHG emissions reduction or removal



JCM Website



URL: https://www.jcm.go.jp/

Contents

- General information page
- Individual JCM Partner countries-Japan page

Function

- Information sharing to the public, e.g.,
 - the JC decisions
 - rules and guidelines
 - methodologies and projects
 - issuance of JCM credits
 - call for public inputs/comments
 - status of TPEs, etc.
- Internal information sharing for the JC members, e.g.
 - File sharing for electric decisions by the JC

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Thank you for your kind attention



Contact: info@jcm.go.jp