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# Recent Progress of the Joint Crediting Mechanism(JCM)

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Ministry of the Environment, Japan



Ministry of the Environment

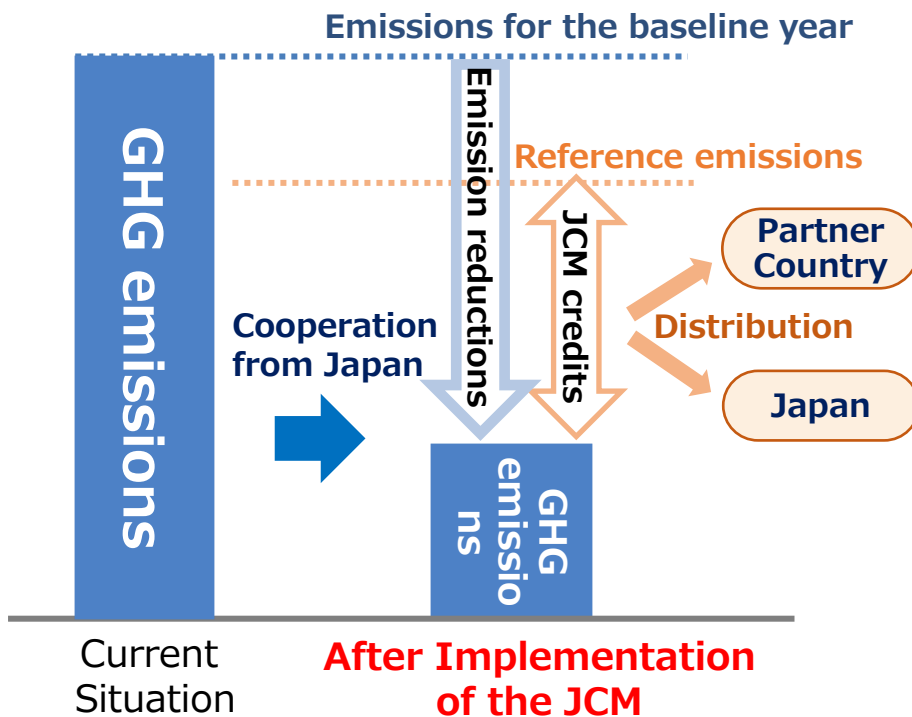
# Basic Concept of the JCM



- In partner countries mainly in the Global South, Japanese companies and the Japanese government collaborate on implementing mitigation measures in terms of **technology and financial support**. The achieved GHG emission reductions or removals will be shared as JCM credits between the partner countries and Japan.
- It **contributes to achieving reduction & absorption targets of both Japan and partner countries**, while **invigorating the economies of both nations through corporate participation**. Additionally, it contributes to **solving various social, economic, environmental issues** (sustainable development) of partner countries.
- Since the first signing with Mongolia in 2013, Japan has established the JCM with **29 countries\*** and over **250 projects** are currently being implemented (as of October 2024).” **JCM target: cumulative GHG emission reduction for 100 mil tons** of CO2 eq. by 2030.

\* Mongolia, Bangladesh, Ethiopia, Kenya, Maldives, Viet Nam, Lao PDR, Indonesia, Costa Rica, Palau, Cambodia, Mexico, Saudi Arabia, Chile, Myanmar, Thailand, Philippines, Senegal, Tunisia, Azerbaijan, Moldova, Georgia, Sri Lanka, Uzbekistan, Papua New Guinea, United Arab Emirates, Kyrgyz Republic, Kazakhstan, Ukraine

## Basic Concept



## JCM Projects

### Renewable Energy



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



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

### Energy efficiency



Optimization in petroleum refining plant, Yokogawa Electric Corp. Indonesia

### Effective Use of Energy



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

### Waste



Waste to Energy Plant, JFE engineering, Viet Nam

### Transport



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

# Benefits from the JCM



- The JCM offers **Social, Economic, Environmental Benefits** to both Japan and partner countries.

## Japan

- Exploring **New Business Opportunities**
- Enhancing **Corporate Value**  
→ Attracting new investment
- Acquiring **JCM Credits**  
→ **Contribute to NDC(Reduction & Absorption Target)**  
→ Utilizing them for emission offset  
※Generating revenue from their sale
- **Enhancing Presence** through contributions to global decarbonization

## Partner countries

- Exploring **New Business Opportunities**
- Enhancing **Corporate Value**  
→ Attracting new investment
- Diffusion of superior decarbonization technologies and products
- Contribute to NDC (Reduction and absorption target) of partner countries
- **Solving Social, Economic, Environmental issues** such as air pollution and infrastructure development





# List of JCM partner countries and projects supported by MOEJ (FY2013-2024) as of October 11, 2024



## Total 252 projects (29 partner countries)

(Model Project: 235 projects(including Eco Lease: 7projects), ADB: 8 projects, UNIDO: 1 project, REDD+: 2 projects, F-gas: 4 projects, New Technology : 2project)

### Eastern Europe

-  20. Azerbaijan
-  21. Moldova
-  22. Georgia
-  29. Ukraine

### Asia Pacific

-  1. Mongolia: 10 projects
-  2. Bangladesh: 5 projects
-  5. Maldives: 4 projects
-  6. Viet Nam: 50 projects
-  7. Laos: 6 projects
-  8. Indonesia: 51 projects
-  10. Palau: 6 projects
-  11. Cambodia: 5 projects
-  15. Myanmar: 8 projects
-  16. Thailand: 51 projects
-  17. Philippines: 20 projects
-  23. Sri Lanka: 3 projects
-  24. Uzbekistan
-  25. Papua New Guinea
-  27. Kyrgyz Republic
-  28. Kazakhstan

### Latin America

-  9. Costa Rica: 2 projects
-  12. Mexico: 5 projects
-  14. Chile: 16 projects

### Africa

-  3. Ethiopia
-  4. Kenya: 5 projects
-  18. Senegal
-  19. Tunisia: 2 projects

### Middle East

-  13. Saudi Arabia: 3 projects
-  26. UAE

# Variety of JCM project types



- So far, there have been **257 technology adoptions** 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



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

### Hydro power



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

### Biogas



Biogas Power Generation, ITOCHU Corporation, Philippines

### Geothermal power



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

# Variety of JCM project types



## Energy efficiency

### Consumer sector



Energy saving at convenience stores, Panasonic, Indonesia



High-efficiency refrigerator, Mayekawa MFG, Indonesia



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

### Industrial sector



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

## F-gas



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

## Transport



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

## REDD+



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

# Overview of Japan's support for the JCM partner countries



## Ministry of the Environment

Programme	Type of support
Project development/capacity building/MRV support	Technical cooperation
<b><u>Finance Programme for JCM Model Projects*</u></b>	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



Thank you for your kind attention



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