

Recent Developments of the Joint Crediting Mechanism(JCM)

Seminar on the JCM Implementation in Thailand 19 December 2024

Ministry of the Environment, Japan



Basic Concept of the JCM

- 環境省
- 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> <u>investment</u>. <u>The part of the achieved GHG emission reductions or removals will be shared</u> <u>as JCM credits</u> between the partner countries and Japan.
- Japan has established the JCM with 29 countries and over 250 projects are currently being implemented .(*JCM target: cumulative GHG emission reduction for 100 mil tons of CO2 eq. by 2030.)

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 <u>Corporate Value</u> → Attracting new investment 	• Enhancing Corporate Value \rightarrow Attracting new investment
 Acquiring <u>JCM Credits</u> → <u>Contribute to NDC(Reduction & Absorption Target)</u> → Utilizing them for emission offset ※Generating revenue from their sale 	 Diffusion of superior decarbonization technologies and products 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



JCM projects in Thailand

 On November 19th, 2015, Japan and Thailand signed the bilateral document of the JCM.
 51 projects and 58 technologies have been currently being implemented in Thailand. (Some projects introduce multiple technologies)

Renewable energy accounts for the majority at 48%, followed by energy efficiency improvement at 40%.



Others

Overview of Japan's support for the JCM partner countries



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Ministry of the **Environment**

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

Potential use of JCM Credits



- JCM credits acquired by companies through private JCM can be utilized for the purpose of carbon offsetting.
 - > The domestic calculation, reporting, and publication system (SHK system)
 - > Use for the achievement of companies' voluntary targets in the GX League
 - Carbon offsetting
- In the GX League, participating companies are supposed to be engaged in emission trading in the Carbon Credit Market under Tokyo Stock Exchange, Inc in order to achieve their targets. Pricing and monetization of the JCM credits will be expected through trading JCM credits in the Carbon Credit Market.



Scheme of the JCM

estimated emission reductions. Required for project registration.





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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JCM Partner Country - Japan

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Thank you for your kind attention



Contact: info@jcm.go.jp