JCM THE JOINT CREDITING MECHANISM

Introduction of the Joint Crediting Mechanism (JCM) & Financing Programme for JCM Model Projects

2022-2023

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About the Joint Crediting Mechanism（JCM）

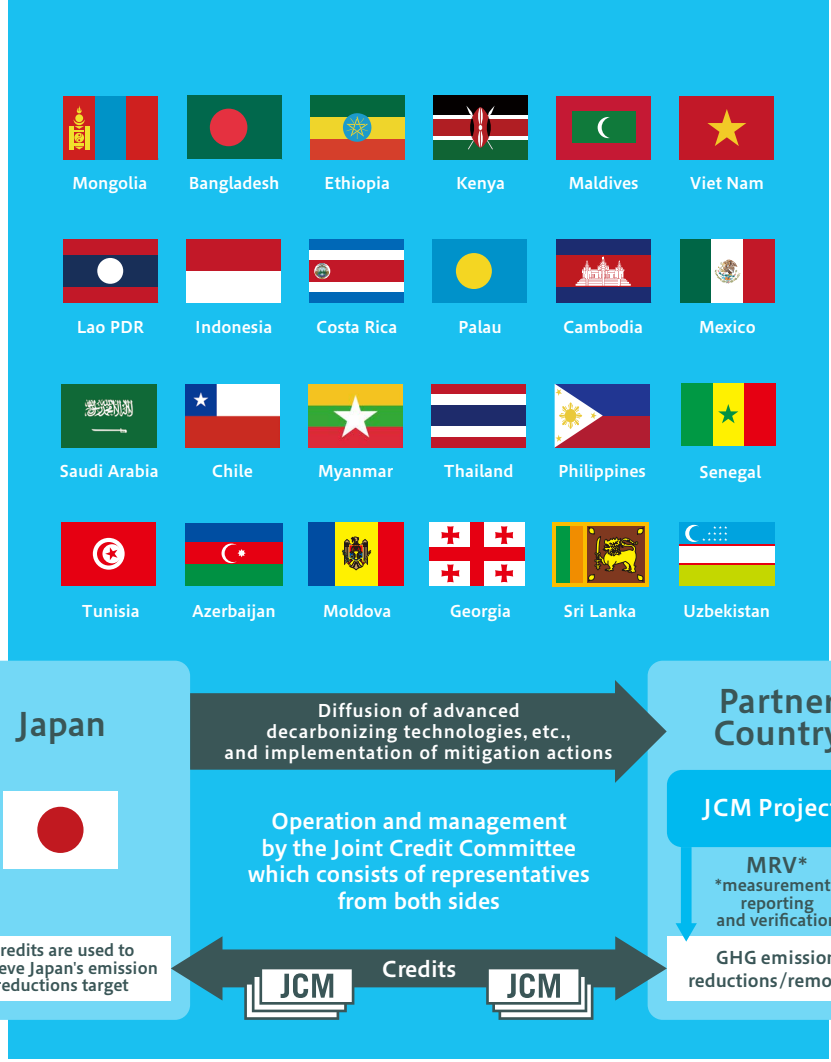
Japan, aiming to facilitate global GHG emission reduction and removal, implements the Joint Crediting Mechanism（JCM）as a scheme for decarbonizing technology diffusion and implementation measures to respond to challenges in partner countries in a flexible and swift manner.
The use of carbon market mechanisms, including the JCM, is articulated under Article 6 of the Paris Agreement. The market mechanism under Article 6, including the JCM, is not only for GHG emission reduction, but also for the sustainable development of the partner countries.
Japan has established partnerships with 24 countries（as of October 25th, 2022）and continues to communicate with other developing countries.

Basic Concept of the JCM

- Facilitating diffusion of advanced decarbonizing technologies, products, systems, services and infrastructure as well as implementing mitigation actions, and contributing to the sustainable development of developing countries
- Appropriately evaluating contributions from Japan to GHG emission reductions and removals in a quantitative manner and using them to achieve Japan and partner country's NDC emission reduction targets
- Contributing to the ultimate objective of the UNFCCC by facilitating global actions for GHG emission reductions and removals

Position of the JCM in the Plan for Global Warming Countermeasures
（Cabinet Decision, October 2021）

Japan will establish and implement the Joint Crediting Mechanism（JCM）in order to quantitatively evaluate contributions of Japan to greenhouse gas emission reductions and removals which are achieved through the diffusion of, among others, leading decarbonizing technologies, products, systems, services, and infrastructures as well as through the implementation of measures in developing countries and others, and in order to use such contributions to achieve Japan's NDC. By doing so, through public-private collaborations, Japan aims to secure accumulated emission reductions and removals at the level of approximately 100 million t-CO2 by fiscal year 2030.



JCM Global Partnership

JCM Global Partnership aims to strengthen international partnerships towards decarbonization by facilitating mutual communication among various entities such as JCM partner countries, international organizations, local governments, private companies and financial institutions for decarbonizing project development through the JCM, the Article 6 of the Paris Agreement（market mechanisms）, and achievement of SDGs.

JCM Global Partnership

Three Pillars of Activities

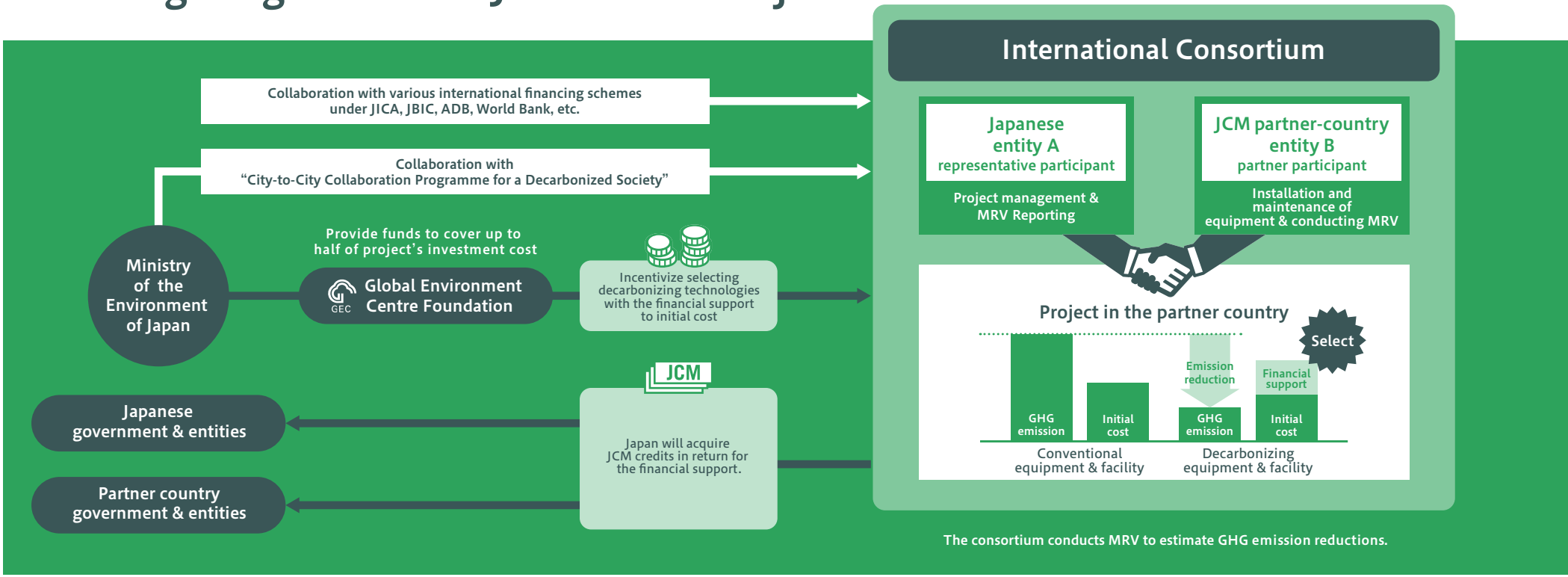
http://carbon-markets.env.go.jp/eng/jcmgp/index.html

JCM × Decarbonizing Project
Promoting utilization of financing schemes and business matchings to formulate JCM projects through collaboration among various stakeholders

JCM × Article6 (Market mechanisms)
Sharing how the JCM is being implemented as a program under Article 6 of the Paris Agreement with actual cases

JCM × SDGs
Sharing relevant information of JCM's contribution to SDGs

Financing Programme for JCM Model Projects



JCM Model Projects Flow

Call for proposal

Evaluation of proposals
(Proposal review & interview with applicants, Inquiry of PIN* to partner countries)

Selection of model projects

Documentation briefing for the notice of contract of financing

Review of application documents

Submission of application

Notice of contract of financing

Model Projects Start

Implementation of model projects

- 1-year project & Last year of 2 or 3-year project ····· Submission of final reports & Onsite inspection
- 1st year & midterm of 2 or 3-year project ··· Submission of midterm reports & Midterm inspection

Inspection

Disbursement of financial support

- 1-year project & Last year of 2 or 3-year project ····· Disbursement of financial support
- 1st year & midterm of 2 or 3-year project ··· Disbursement of part of financial support

※PIN: The Project Idea Note is a proposal document shared with a partner country prior to the selection as a JCM Model Project.
※Submission of application should be done within 30 days after the selection of model projects so that the notice of contract of financing can be established within 60 days after the selection.

MRV Process for the JCM (MRV：Measurement, Reporting and Verification)

JCM Project Registration and Credit Issuance

Main Actors at each Process	Process	
Project Participant / Each Government Joint Committee	Submission of Proposed Methodology	Methodology Development
Joint Committee	Approval of Proposed Methodology	
Project Participant	Development of PDD※	Project Registration
Third Party Entities	Validation	
Joint Committee	Registration	
Project Participant	Monitoring	Credit Issuance
Third Party Entities	Verification	
Joint Committee decides the amount Each Government issues the credit	Issuance of JCM credits	

※PDD: Project Design Document

MRV Process for the JCM

Measurement, Reporting and Verification of amount of GHG emission reductions for JCM Project

Measurement

Reporting

Verification

JCM Credit

Representative Participant of JCM Projects shall conduct measurement, reporting and verification (MRV) of the GHG emission reductions realized after installation and commissioning of the facilities/equipment for the issuance of JCM credits.

Examples of JCM Model Projects by Technology

Energy Efficiency

Chiller (Thailand)
The Kansai Electric Power Company, Incorporated

Boiler (Viet Nam)
Acecook Co., Ltd.

Amorphous Transformers (Lao PDR)
Yuko Keiso Co., Ltd.

LPG Boilers (Mongolia)
Saisan Co.,Ltd.

Energy Efficiency

Raw Water Intake Pumps (Viet Nam)
Yokohama Water Co., Ltd.

Energy Efficient Distillation System (Mexico)
Suntory Spirits Ltd.

Effective Use of Energy

Waste Heat Recovery (Myanmar)
Global Engineering Co., Ltd.

Gas Co-generation System & Chiller (Thailand)
Kansai Electric Power Co., Inc.

Renewable Energy

Binary Geothermal Power Generation (Philippines)
Mitsubishi Heavy Industries, Ltd.

Mini Hydro Power (Indonesia)
Toyo Energy Farm Co., Ltd.

Solar Power (Chile)
Farmland Co., Ltd.

Solar Power (Palau)
Sharp Energy Solutions Corporation

Renewable Energy

Biogas Power & Fuel Conversion (Philippines)
Itochu Corporation

Waste Handling and Disposal

Power Generation with Methane Gas Recovery System (Mexico)
NTT Data Institute of Management Consulting, Inc.

Waste to Energy Plant (Myanmar)
JFE Engineering Corporation

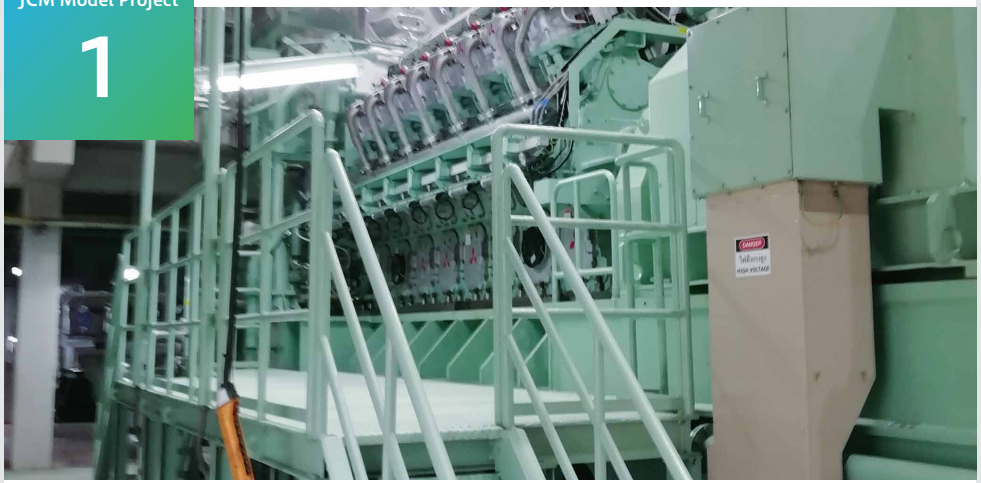
Transportation

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

Case Examples of JCM Model Project

1

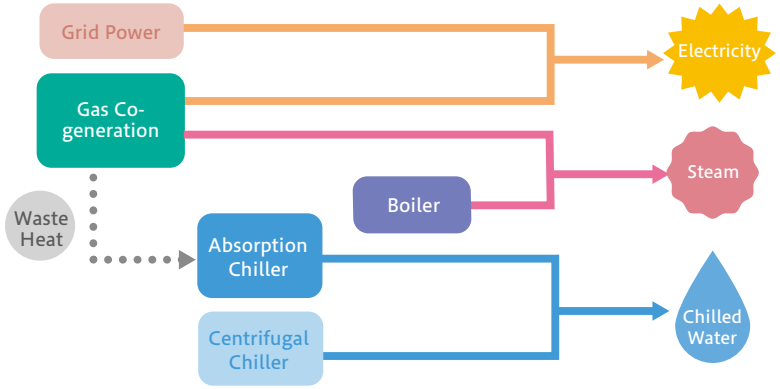
● Effective Use of Energy ● Energy Efficiency



Introduction of Gas Co-generation System and Absorption Chiller to Fiber Factory

Country	Thailand
Representative	The Kansai Electric Power Co., Inc.
Partner	Kansai Energy Solutions (Thailand) Co., Ltd.

This project aims to reduce CO2 emissions by introducing gas co-generation system (5 MW class x 2 sets) and absorption chiller (800 USRT class) to fiber factory in Bangpa-in, Ayutthaya.These gas co-generation system and absorption chiller contribute to energy saving and cost reduction and can improve reliability for power supply.



Case Examples of JCM Model Project

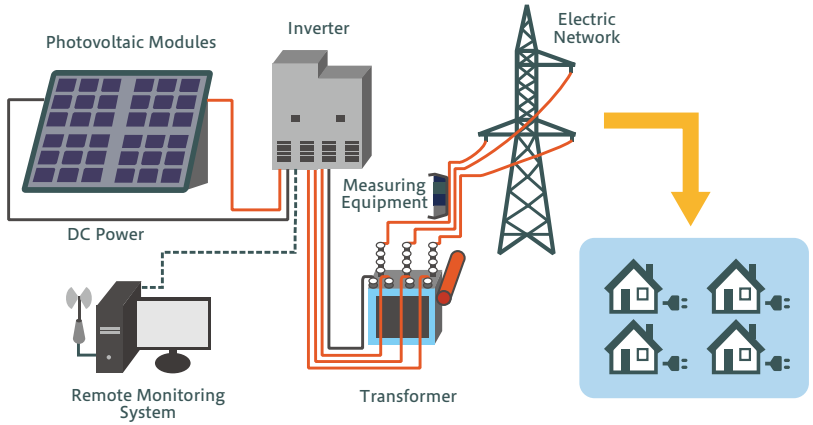
2

● Renewable Energy

3MW Solar Power Project in Chillan, Ñuble Region

Country	Chile
Representative	FARMLAND Co., Ltd.
Partner	Land and Sea SpA, Farmdo Energy Chile SpA

This project aims to reduce greenhouse gas emissions by constructing a photovoltaic power generation facility with generating capacity of 3 MW and supplying electricity to the urban area of Chillan, Ñuble Region. This project contributes to Chile's policy to achieve a renewable energy ratio target of 70% by 2050.



Case Examples of JCM Model Project

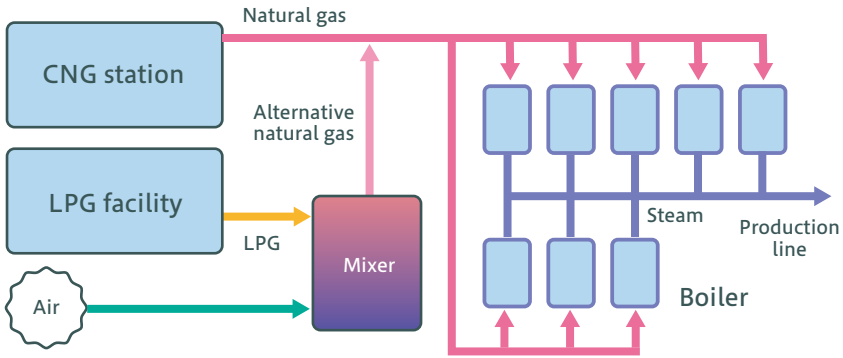
3

City-to-City Collaboration ● Energy Efficiency

Introduction of High Efficiency Boiler System to Food Factory

Country	Vietnam
Representative	Acecook Co., Ltd.
Partner	Acecook Vietnam Joint Stock Company Sojitz Osaka Gas Eenergy Co., Ltd.

This project replaces existing coal boilers at the Binh Duong plant and Hung Yen plant operated by Acecook Co., Ltd. with high-efficiency once-through boilers that uses CNG and LPG instead of coal for fuel. The boiler system flexibly responds to fuel market trends and reduces greenhouse gas emissions.



Case Examples of JCM Model Project

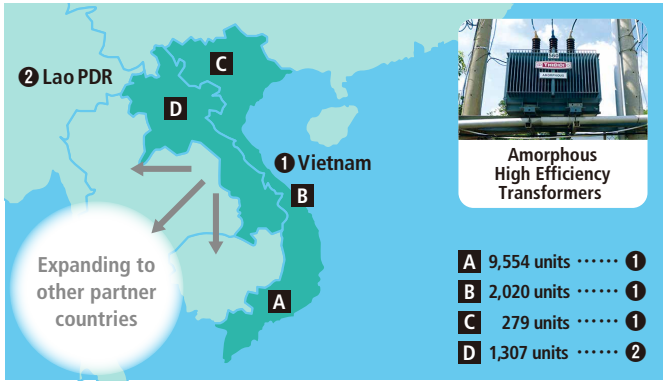
4

● Energy Efficiency

Introduction of Amorphous High Efficiency Transformers in Power Grid

Countries	Vietnam, Lao PDR
Representative	Yuko Keiso Co., Ltd.
Partner	①EVN SPC, EVN HANOI, KHANH HOA PC, DON NAI PC ②Electricite Du Laos

The purpose of this project is to reduce CO2 emissions and non-load losses (standby electricity) through the introduction of amorphous high efficiency transformers instead of transformers with silicon steel core in power grid. 1,307 transformers in total were introduced to Electricite Du Laos. Before Lao PDA, this technology had been widely introduced in Vietnam and further expansion to other JCM partner countries can be expected.



Case Examples of JCM Model Project

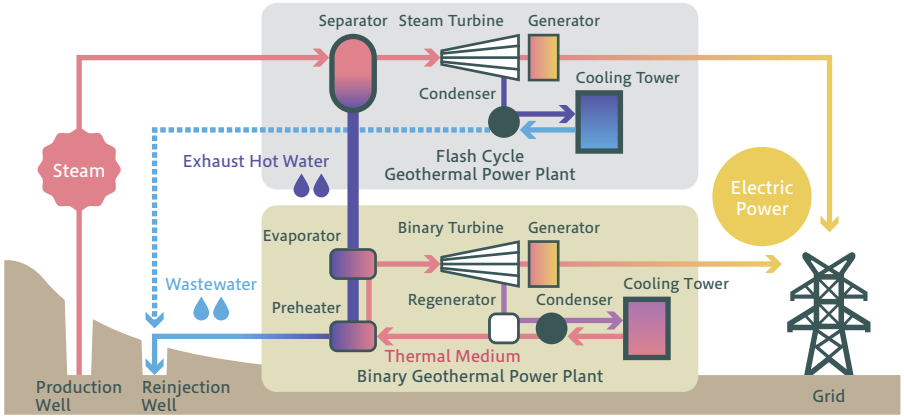
5

Renewable Energy

29MW Binary Power Generation Project at Palayan Geothermal Power Plant

Country	Philippines
Representative	Mitsubishi Heavy Industries, Ltd.
Partner	Bac Man Geothermal Inc.

This project introduces a 29 MW binary geothermal power plant with the Organic Rankine Cycle (ORC) system to the existing 120MW flash type geothermal power plant in southern part of the Luzon island. This plant utilizes exhaust hot water of low enthalpy from the existing power plant without producing hazardous gasses.



Case Examples of JCM Model Project

6

Renewable Energy

Introduction of Biomass Boiler to Cooking Oil Factory

Country	Thailand
Representative	Tepia Corporation Japan Co., Ltd.
Partner	Thanakorn Vegetable Oil Products Co., Ltd.

A biomass boiler with the steam production capacity of 35 tons per hour is installed in a cooking oil factory in Samut Prakan Province. The steam is used in the oil production process. Palm Kernel Shell (PKS) is used as its biomass fuel, and PKS is produced from multiple suppliers so as to secure the stability of steam production.

Case Examples of JCM Model Project

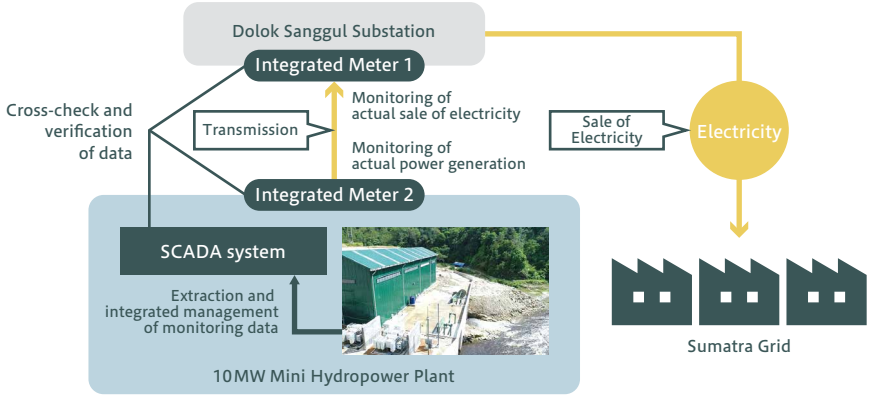
7

Renewable Energy

10MW Mini Hydro Power Plant Project in North Sumatra

Country	Indonesia
Representative	Toyo Energy Farm Co., Ltd.
Partner	PT. Citra Multi Energi

A mini hydro power plant is constructed in Humbang Hasunduran District of North Sumatra with a capacity of 10MW (5MWx2). The electricity generated by the plant is to be supplied to a power company, resulting in GHG emission reductions by replacing grid electricity. As North Sumatra has been experiencing energy shortages, this project is also expected to contribute to improving energy supply in the region.



Case Examples of JCM Model Project

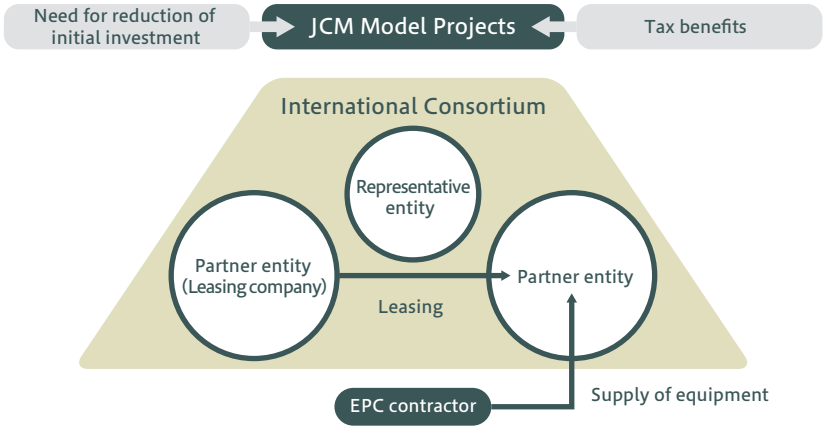
8

Energy Efficiency

Introduction of Low-carbon Facilities Utilizing Lease Scheme

Country	Indonesia
Representative	Tokyo Century Corporation
Partner	PT. Dynaplast, etc.

By introducing highly efficient injection molding machines and refrigerators with a leasing scheme, power consumption and CO2 emissions will be reduced. The leasing scheme offers an alternative long-term financing and is expected to expand advanced low-carbon or decarbonizing technologies.

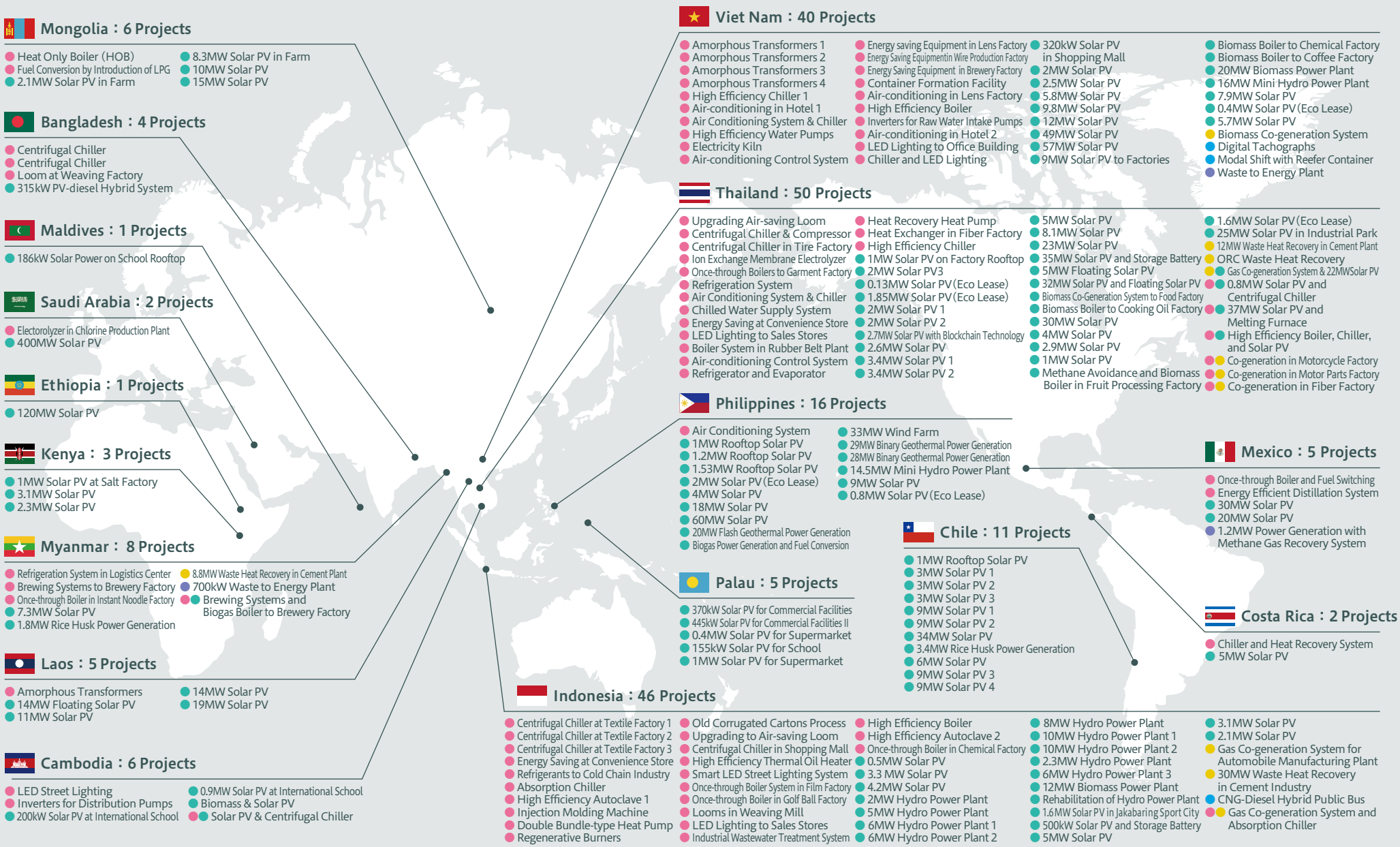


JCM Model Projects (FY2013-2022)

Total 211 projects

As of September, 2022

Energy Efficiency　Renewable Energy　Effective Use of Energy　Waste Handling and Disposal　Transportation



Mongolia : 6 Projects

- Heat Only Boiler (HOB)
- Fuel Conversion by Introduction of LPG
- 2.1MW Solar PV in Farm
- 8.3MW Solar PV in Farm
- 10MW Solar PV
- 15MW Solar PV

Bangladesh : 4 Projects

- Centrifugal Chiller
- Centrifugal Chiller
- Loom at Weaving Factory
- 315kW PV-diesel Hybrid System

Maldives : 1 Projects

- 186kW Solar Power on School Rooftop

Saudi Arabia : 2 Projects

- Electorolyzer in Chlorine Production Plant
- 400MW Solar PV

Ethiopia : 1 Projects

- 120MW Solar PV

Kenya : 3 Projects

- 1MW Solar PV at Salt Factory
- 3.1MW Solar PV
- 2.3MW Solar PV

Myanmar : 8 Projects

- Refrigeration System in Logistics Center
- Brewing Systems to Brewery Factory
- Once-through Boiler in Instant Noodle Factory
- 7.3MW Solar PV
- 1.8MW Rice Husk Power Generation
- 8.8MW Waste Heat Recovery in Cement Plant
- 700kW Waste to Energy Plant
- Brewing Systems and Biogas Boiler to Brewery Factory

Laos : 5 Projects

- Amorphous Transformers
- 14MW Floating Solar PV
- 11MW Solar PV
- 14MW Solar PV
- 19MW Solar PV

Cambodia : 6 Projects

- LED Street Lighting
- Inverters for Distribution Pumps
- 200kW Solar PV at International School
- 0.9MW Solar PV at International School
- Biomass & Solar PV
- Solar PV & Centrifugal Chiller

Viet Nam : 40 Projects

- Amorphous Transformers 1
- Amorphous Transformers 2
- Amorphous Transformers 3
- Amorphous Transformers 4
- High Efficiency Chiller 1
- Air-conditioning in Hotel 1
- Air Conditioning System & Chiller
- High Efficiency Water Pumps
- Electricity Kiln
- Air-conditioning Control System
- Energy saving Equipment in Lens Factory
- Energy Saving Equipmentin Wire Production Factory
- Energy Saving Equipment in Brewery Factory
- Container Formation Facility
- Air-conditioning in Lens Factory
- High Efficiency Boiler
- Inverters for Raw Water Intake Pumps
- Air-conditioning in Hotel 2
- LED Lighting to Office Building
- Chiller and LED Lighting
- 320kW Solar PV in Shopping Mall
- 2MW Solar PV
- 2.5MW Solar PV
- 5.8MW Solar PV
- 9.8MW Solar PV
- 12MW Solar PV
- 49MW Solar PV
- 57MW Solar PV
- 9MW Solar PV to Factories
- Biomass Boiler to Chemical Factory
- Biomass Boiler to Coffee Factory
- 20MW Biomass Power Plant
- 16MW Mini Hydro Power Plant
- 7.9MW Solar PV
- 0.4MW Solar PV (Eco Lease)
- 5.7MW Solar PV
- Biomass Co-generation System
- Digital Tachographs
- Modal Shift with Reefer Container
- Waste to Energy Plant

Thailand : 50 Projects

- Upgrading Air-saving Loom
- Centrifugal Chiller & Compressor
- Centrifugal Chiller in Tire Factory
- Ion Exchange Membrane Electrolyzer
- Once-through Boilers to Garment Factory
- Refrigeration System
- Air Conditioning System & Chiller
- Chilled Water Supply System
- Energy Saving at Convenience Store
- LED Lighting to Sales Stores
- Boiler System in Rubber Belt Plant
- Air-conditioning Control System
- Refrigerator and Evaporator
- Heat Recovery Heat Pump
- Heat Exchanger in Fiber Factory
- High Efficiency Chiller
- 1MW Solar PV on Factory Rooftop
- 2MW Solar PV3
- 0.13MW Solar PV (Eco Lease)
- 1.85MW Solar PV (Eco Lease)
- 2MW Solar PV 1
- 2MW Solar PV 2
- 2.7MW Solar PV with Blockchain Technology
- 2.6MW Solar PV
- 3.4MW Solar PV 1
- 3.4MW Solar PV 2
- 5MW Solar PV
- 8.1MW Solar PV
- 23MW Solar PV
- 35MW Solar PV and Storage Battery
- 5MW Floating Solar PV
- 32MW Solar PV and Floating Solar PV
- Biomass Co-Generation System to Food Factory
- Biomass Boiler to Cooking Oil Factory
- 30MW Solar PV
- 4MW Solar PV
- 2.9MW Solar PV
- 1MW Solar PV
- Methane Avoidance and Biomass Boiler in Fruit Processing Factory
- 1.6MW Solar PV (Eco Lease)
- 25MW Solar PV in Industrial Park
- 12MW Waste Heat Recovery in Cement Plant
- ORC Waste Heat Recovery
- Gas Co-generation System & 22MWSolar PV
- 0.8MW Solar PV and Centrifugal Chiller
- 37MW Solar PV and Melting Furnace
- High Efficiency Boiler, Chiller, and Solar PV
- Co-generation in Motorcycle Factory
- Co-generation in Motor Parts Factory
- Co-generation in Fiber Factory

Philippines : 16 Projects

- Air Conditioning System
- 1MW Rooftop Solar PV
- 1.2MW Rooftop Solar PV
- 1.53MW Rooftop Solar PV
- 2MW Solar PV (Eco Lease)
- 4MW Solar PV
- 18MW Solar PV
- 60MW Solar PV
- 20MW Flash Geothermal Power Generation
- Biogas Power Generation and Fuel Conversion
- 33MW Wind Farm
- 29MW Binary Geothermal Power Generation
- 28MW Binary Geothermal Power Generation
- 14.5MW Mini Hydro Power Plant
- 9MW Solar PV
- 0.8MW Solar PV (Eco Lease)

Palau : 5 Projects

- 370kW Solar PV for Commercial Facilities
- 445kW Solar PV for Commercial Facilities II
- 0.4MW Solar PV for Supermarket
- 155kW Solar PV for School
- 1MW Solar PV for Supermarket

Chile : 11 Projects

- 1MW Rooftop Solar PV
- 3MW Solar PV 1
- 3MW Solar PV 2
- 3MW Solar PV 3
- 9MW Solar PV 1
- 9MW Solar PV 2
- 34MW Solar PV
- 3.4MW Rice Husk Power Generation
- 6MW Solar PV
- 9MW Solar PV 3
- 9MW Solar PV 4

Mexico : 5 Projects

- Once-through Boiler and Fuel Switching
- Energy Efficient Distillation System
- 30MW Solar PV
- 20MW Solar PV
- 1.2MW Power Generation with Methane Gas Recovery System

Costa Rica : 2 Projects

- Chiller and Heat Recovery System
- 5MW Solar PV

Indonesia : 46 Projects

- Centrifugal Chiller at Textile Factory 1
- Centrifugal Chiller at Textile Factory 2
- Centrifugal Chiller at Textile Factory 3
- Energy Saving at Convenience Store
- Refrigerants to Cold Chain Industry
- Absorption Chiller
- High Efficiency Autoclave 1
- Injection Molding Machine
- Double Bundle-type Heat Pump
- Regenerative Burners
- Old Corrugated Cartons Process
- Upgrading to Air-saving Loom
- Centrifugal Chiller in Shopping Mall
- High Efficiency Thermal Oil Heater
- Smart LED Street Lighting System
- Once-through Boiler System in Film Factory
- Once-through Boiler in Golf Ball Factory
- Looms in Weaving Mill
- LED Lighting to Sales Stores
- Industrial Wastewater Treatment System
- High Efficiency Boiler
- High Efficiency Autoclave 2
- Once-through Boiler in Chemical Factory
- 0.5MW Solar PV
- 3.3 MW Solar PV
- 4.2MW Solar PV
- 2MW Hydro Power Plant
- 5MW Hydro Power Plant
- 6MW Hydro Power Plant 1
- 6MW Hydro Power Plant 2
- 8MW Hydro Power Plant
- 10MW Hydro Power Plant 1
- 10MW Hydro Power Plant 2
- 2.3MW Hydro Power Plant
- 6MW Hydro Power Plant 3
- 12MW Biomass Power Plant
- Rehabilitation of Hydro Power Plant
- 1.6MW Solar PV in Jakabaring Sport City
- 500kW Solar PV and Storage Battery
- 5MW Solar PV
- 3.1MW Solar PV
- 2.1MW Solar PV
- Gas Co-generation System for Automobile Manufacturing Plant
- 30MW Waste Heat Recovery in Cement Industry
- CNG-Diesel Hybrid Public Bus
- Gas Co-generation System and Absorption Chiller

Outline of Guidelines for Submitting JCM Model Project Proposal in FY2022 (1)

Purpose

To financially support the implementation of projects which reduce greenhouse gas (GHG) emissions by utilizing leading decarbonizing technologies in developing countries, and in return, to acquire JCM credits to achieve Japan's GHG emission reduction target.

Eligible Projects

Projects that reduce energy-related CO2 emissions with leading decarbonizing technologies in developing countries, with which Japan has signed or has been consulting to sign a bilateral document on JCM, and that are expected to contribute to achieving Japan's NDC through the JCM

Requirements for Representative Participant

A representative participant of the JCM model project shall be a Japanese entity and shall appropriately manage and implement the project as a representative entity of an international consortium which includes JCM partner-country entities. A representative participant also shall conduct measurement, reporting and verification (MRV) of GHG emission reductions.

Implementation Period of Model Projects

Participants of the model project shall start installation after the contract of finance is concluded and shall finish installation and payments of the eligible facilities and equipment within 3 years.

Budget

About JPY 17.1 billion (approx. USD 158 million) from FY 2022 for 3 years

Financial Support per Project

Equal to or less than JPY 2 billion in principle

Maximum Percentage of Financial Support

Shall be determined according to the number of previously selected project(s) using a similar technology in each partner country.

Number of previously selected project(s) using a similar technology in each partner country	None (0)	Up to 3 (1-3)	More than 3 (4 and more)
Percentage of financial support	Up to 50%	Up to 40%	Up to 30%

Costs Covered by Financial Support

This programme covers the following costs that directly contribute to energy-related CO2 emission reductions. The typical costs not covered by this programme are also listed below.

Covered

- Facilities/equipment (including monitoring equipment)
- Main construction work
- Ancillary work
- Machinery and appliances
- Surveying and testing
- Administrative work
- Other necessary costs approved by GEC

NOT covered

- Removal of existing facilities/equipment (including miscellaneous expenses related to removal costs)
- Equipment and consumable supplies/materials for maintenance of the facilities/equipment installed by the model project, emergency facilities/equipment, safety equipment (such as fire extinguisher, sprinkler, PPE, etc.) and security equipment.
- Civil engineering work and building (excluding structures that directly contribute to energy-related CO2 emission reductions)
- Cost related to a simple restoration of function, such as restoring the function to the state at the time of installation by updating existing facilities/equipment
- Spare parts (excluding those used for testing and commissioning)
- On-site inspections and writing reports that are submitted to GEC as part of the model project
- Forward exchange contract and remittance charge
- Cost related to land acquisition

※Costs eligible for financial support in the JCM Eco Lease Scheme are limited to a leasing fee of the costs of facilities/equipment and relevant lease interests.

Outline of Guidelines for Submitting JCM Model Project Proposal in FY2022（2）

Period of Measurement, Reporting and Verification（MRV）

Participants of the model project shall conduct measurement, reporting and verification（MRV）of GHG emission reductions until the end of legal durable years of the facilities/equipment as stipulated by the Japanese law. Please note that the legal durable years of the same facility may vary depending on the purpose of business usage as shown in the examples below.

Ministerial Ordinance on the Durable Years, etc. of Depreciable Assets
（Ordinance NO.15 of Ministry of Finance, March 31, 1965）

Appendix table 2 **Producing "other final products" by using installed facilities**

Appendix table 1 **Other cases than the above**
ex. the building owner introduces facilities as shared equipment

〈Examples〉

Category of technology	Purpose of business usage	Legal durable years
Solar power generation facilities	Electric power sales	17 years
	Internal consumption at car manufacturing factories	9 years
	Internal consumption from rooftop equipment on warehouses	12 years
Boilers	Cooking oil production	10 years
	Rubber products production	9 years
	Hot water supply for hotels	17 years
Absorption chillers	Supply of chilled water in chemical factories	8 years
	Air conditioning in shopping malls	15 years

※For questions regarding how to determine the appropriate legal durable years for your project, please contact Japanese local tax office.

Cost-effectiveness of Emission Reductions of GHGs

The cost of reducing 1 ton of GHG emissions shall be JPY4,000/tCO2eq or lower in principle. However, if the number of similar technological projects in a partner country is 5 or more, its cost-effectiveness is expected to be JPY3,000/tCO2eq or lower. If it is 10 or more, JPY2,500/tCo2eq or lower.If it is 20 or more, JPY2,000/tCo2eq or lower

Cost-effectiveness of emission reductions of GHG（JPY/tCO2eq）
＝ Amount of financial support（JPY）
÷ Total emission reductions of GHG（tCO2eq）*

*Total emission reductions of GHG
＝ Emission reductions of GHG per year（tCO2eq/y）× legal durable years（y）

*Amount of financial support（JPY）
＝ Costs eligible（JPY）× Percentage of financial support（%）

In principle, If the number of similar technology in a partner country is less than 5,
JPY4,000/tCO2eq or lower

If the number of similar technology in a partner country is 5 or more,
JPY3,000/tCO2eq or lower

If the number of similar technology in a partner country is 10 or more,
JPY2,500/tCO2eq or lower

If the number of similar technology in a partner country is 20 or more,
JPY2,000/tCO2eq or lower

Solar power project（except Thailand in which the number of similar technology is 20 or more）
JPY2,500/tCO2eq or lower

Hydropower project
JPY500/tCO2eq or lower

※Regarding the number of similar technology in the partner countries, please refer to Annex 2 "Categorization by applied technology type, Number of JCM model project by each country" of Guidelines for Submitting Proposals.

Outline of Guidelines for Submitting JCM Model Project Proposal in FY2022 (3)

Main Evaluation Criteria for Selecting JCM Model Projects in FY2022 including New Points

☑ Measures to respect human rights

Project participant should take the best possible measures to respect human rights under its own responsibility in accordance with the Action Plan on Busine ss and Human Rights (2020-2025) (the Inter-Ministerial Committee for Japan's National Action Plan on Business and Human Rights, October 2020)

☑ Countries of priority

The model project shall prioritize the partner countries that have already established the JCM. Also, project proposals in the Indo-Pacific region (specifically Asia and Island regions) and African region will be received on the premise that selection is considered in parallel with bilateral negotiations for new partner countries, based on the Implementation of Article 6 following COP26 (MOEJ, November 2021).

☑ Additional point for JCM focus areas of the Infrastructure Initiative for Decarbonization (MOEJ, June 2021)

Projects that introduce following leading decarbonizing technol ogies that are among the focus areas for JCM according to the Infrastructure Initiative for Decarbonization (MOEJ, June 2021) (*Excluding countries that have already introduced or are introducing these technologies as JCM model projects):
1) Renewable energies (solar power, wind power, hydro power, geothermal energy, biomass energy, green hydrogen, and so forth)
2) Green logistics including cold chain (non-fluorocarbon cooling system, modal shift, airports, ports and harbors, and so forth)
3) Waste management infrastructure (waste to energy, and so forth)

☑ Criteria for solar power plants

The conversion rate from optical to electric energy of photovoltaic modules must be 20% or higher.

☑ Criteria for solar power plants with batteries

- Photovoltaic module:
  The efficiency of photovoltaic modules must be 20% or higher.
- Battery:
  If the battery meets the requirements stipulated in Guidelines for Submitting Proposals, the battery will also be covered by this programme.

JCM Eco Lease Scheme

From the fiscal year 2020, "JCM Eco Lease Scheme" is implemented to cover leasing charges and interests. This scheme has an advantage in reducing the reporting burden of representative participants with shorter monitoring period and simpler proposal document.

Representative Participant	Japanese leasing company
Amount of Financial Support	Up to JPY500 million for 3 years in principle
Percentage of Financial Support	Uniformly 10% of total leasing charges including leasing interests
Period of MRV	Equal to leasing period
Leasing Period	At least 5 years
Costs Eligible for Financing	Leasing charges of the costs of facilities/equipment and relevant lease interests
Eligible Type of Technologies	In principle, technologies with JCM methodology (ies) that have been either approved or proposed
Financial Statement for Application	Only financial statements of Representative Participant need to be submitted.

Submission of Proposals

How to Submit Proposals:
Proposals must be submitted electronically.

Period:
From Wednesday, 6 April 2022 to Wednesday, 30 November 2022 (12:00 JST)
*It may be closed before the deadline based on the availability of remaining budget.

Japan Platform for Redesign: Sustainable Infrastructure (JPRSI)

What is JPRSI?

JPRSI is a public-private partnership platform established by the Ministry of the Environment of Japan in September 2020 to comprehensively support partner countries' governments and corporations, etc. to improve environment by introducing Japanese environmental infrastructure.

Environmental Infrastructure

① Infrastructure for Environmental Conservation

Waste to energy (WtE), waste water treatment plant, decentralized domestic wastewater treatment system ("Johkasou"), renewable power generation, renewable hydrogen etc.

② Infrastructure that Contributes to Decarbonization and Reduction of Environmental Impacts

- Introduction of renewable energy and energy-saving equipment to infrastructures and cities,
- Highly-efficient energy utilization and management in infrastructure,
- Introduction of equipment for emissions reduction of pollutants (wastewater, exhaust gas, dust, etc.),
- Introduction of disaster prevention systems that contribute to climate change adaptation, etc.

Major Activities and Achievements

① Dissemination of technical information provided by Japanese companies

A list of environmental technologies of JPRSI members is compiled and disseminated (179 technologies, available in English)

② Matching local needs with Japanese corporations' solutions

The JPRSI platform receives inquiries from local governments and/or private sectors of commerce with interest in Japanese environmental technologies and the possibility to collaborate in projects, and introduces the inquiries to JPRSI members for matching.

JPRSI Members (as of September 30, 2022)

461 Japanese corporations etc.

Japan
Corporations
Local governments
Financial institutions (banks, Investors, etc.)
Consultants
Experts
Relevant ministries and agencies

Sharing information

Matching needs and solutions

Partner countries
Governments
Cities
Corporations

International organizations/MDBs
ADB, GCF etc.

JPRSI HP:
JPRSI Secretariat (FY2022)
Overseas Environment Cooperation Center (OECC)
Mail: info-jprsi@oecc.or.jp

Application Support by GEC for JCM Model Project

GEC Website

GEC introduces project examples selected so far in the JCM Model Project on the GEC website. You can search by sector such as renewable energy for project study. For additional information, please refer to “Guidelines for Submitting Proposals” and Q&A on the website.

Suitable for **Obtaining information on the programme including past projects and how to apply, etc.**

https://gec.jp/jcm/

“JCM Global Match” JCM Business Matching Platform – Free of charge -

The JCM Global Match is a free-of-charge online business matching platform designed to help you find your business partners for an International Consortium of your JCM Model Project. Among the registrants in the platform, you will be able to find Japanese and international companies with excellent decarbonization technologies, JCM partner country companies to use such technologies, consultants familiar with the JCM Programme and helpful in deal making, and Japanese and multinational financial institutions. About 40 % of the registrants are Japanese entities and the rest are from more than 40 countries.
You can appeal your company’s specialties and projects to all the registrants in various ways, like adding your information in the profile and specialty sections, posting a chat about your company or project in the "Open Discussion" room, etc. And you can find your potential business partner from the search window or the lists of the companies by categories. If you find a registrant of a company you are interested in, send a “Matching Request” to him/her. Once the receiver accepts your request, you can get his/her whereabouts to contact directly with him/her. In addition, you will get useful information about JCM and events on the platform. Register now. It’s easy.
(Contact for JCM Global Match: jcm-gm@gec.jp)

Suitable for **Finding JCM project partners including Japanese companies expanding business overseas and overseas companies wishing to introduce technologies using JCM funding.**

https://gec.force.com/JCMGlobalMatch/s/?language=en_US

Consultation by GEC

GEC provides application consultation in order to assist project formation for entities interested in JCM Model Project. Please feel free to contact us. Please send an e-mail to jcm-info@gec.jp. Subject of e-mail should be “Consultation on application for JCM Model Project (Your company name)”.

Suitable for **Asking questions to or consulting with GEC staff directly at various phases of proposal preparation from early planning to application.**

Cover Pictures

Top from the left ; Amorphous Transformers (Lao PDR) Yuko Keiso Co., Ltd. / Boiler (Viet Nam) Acecook Co., Ltd. / Chiller (Thailand) The Kansai Electric Power Co., Inc. / Boiler (Indonesia) Japan Pulp and Paper Company Limited
Bottom from the left ; Solar Power (Cambodia) Asian Gateway Corporation / Waste Heat Recovery (Myanmar) Global Engineering Co., Ltd. / Gas Co-generation System and Chiller (Thailand) The Kansai Electric Power Co., Inc. / Solar Power (Mexico) Sharp Energy Solutions Corporation

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