

Overview of the Financing Programmes for JCM Model Projects

28th January 2020

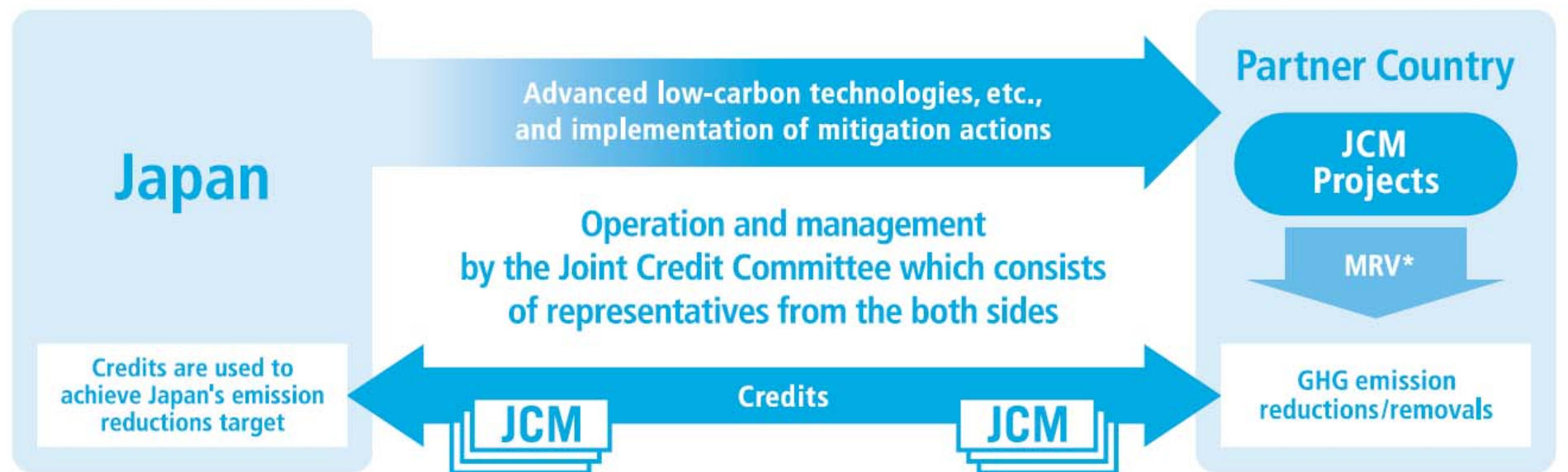
Global Environment Centre Foundation (GEC)

1. Basic concept of the JCM Model Projects
2. JCM Model Projects in Kenya
3. Guideline for Project Proposal
4. Project Map, Technology and Infrastructure through JCM
5. JCM Global Match
6. JCM Promotion

Facilitating diffusion of advanced low-carbon or decarbonizing technologies, products, system, services and infrastructure as well as implementation of mitigation actions, and contributing to sustainable development of developing country.

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.

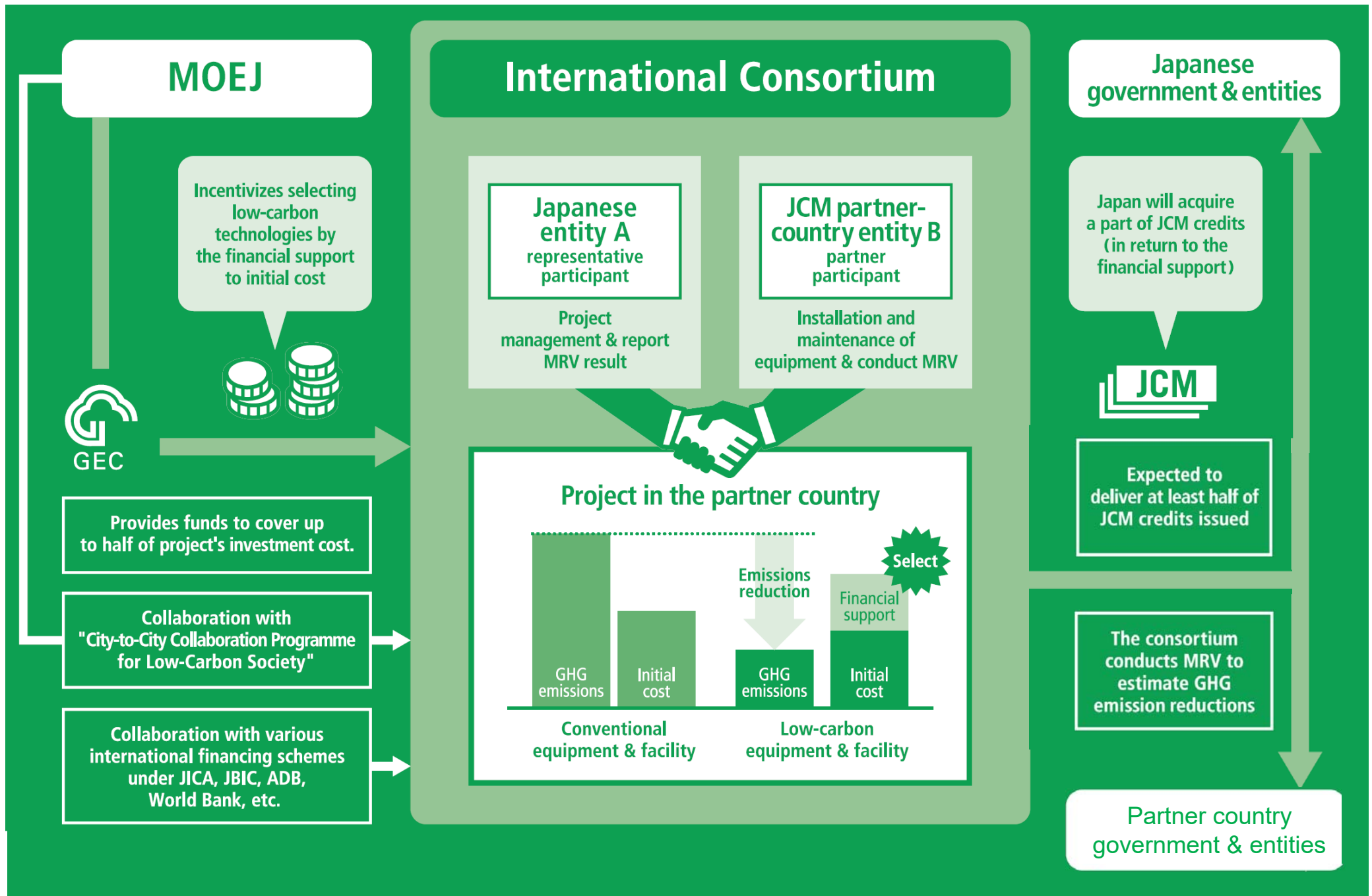


*measurement, reporting and verification

1. Basic concept of the JCM Model Projects (2)



Global Environment Centre Foundation



2. JCM Model Projects in Kenya (1)

Introduction of Solar PV System at Salt Factory

Representative Participant

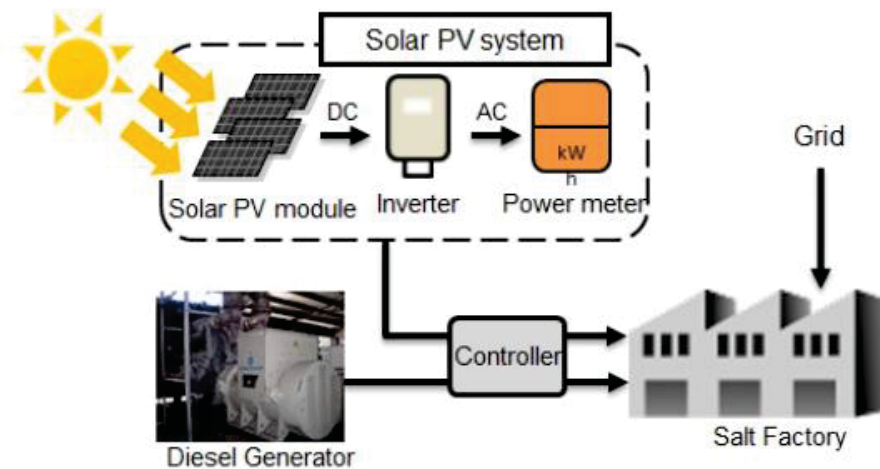
Pacific Consultants Co., Ltd.

Partner Participant : Krystalline Salt Limited (Kaysalt)

Host Country	Kenya
Year	2015
Type	JCM Model Project
Sector	Renewable Energy

Outline of GHG Mitigation Activity

This project aims to reduce CO₂ emissions by introducing a 991kW solar PV system at a salt factory of Krystalline Salt Limited (Kaysalt). All of the generated electricity is used in the factory. The factory usually uses grid electricity but also uses captive diesel power generation during power outages. Therefore the project introduces a controller device which enables safe operation of the solar PV system together with the diesel generators. The generated electricity will displace electricity use from both grid and diesel generators.



Site of JCM Project

Expected GHG Emission Reductions

888 tCO₂/year

= PV generation

× Reference emission factor

= 1,667 [MWh/year] × 0.533 [tCO₂/MWh]



2. JCM Model Projects in Kenya (2)

38MW Solar Power Project in Makueni county

Representative Participant

Sharp Energy Solutions Corporation

Partner Participant : rAREH Icon Solar Limited, responsAbility Renewable Energy Holding, Legacy Energy Limited

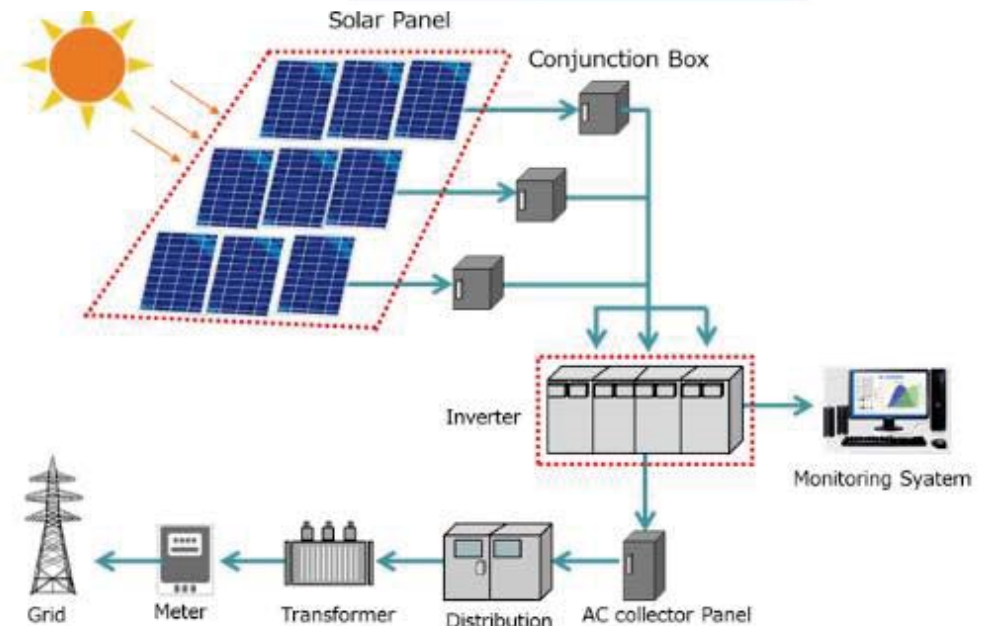
Host Country	Kenya
Year	2018
Type	JCM Model Project
Sector	Renewable Energy

Outline of GHG Mitigation Activity

Sharp Energy Solutions Corporation together with rAREH Icon Solar Limited and its shareholders, responsAbility Renewable Energy Holding and Legacy Energy Limited, will introduce a 38MW solar power plant in Makueni county, Kenya.

All the net generated solar power is to be connected to the power grid. This project contributes to achieving Kenya energy policy to increase photovoltaic power plants up to 800MW by 2030.

Site of JCM Project



Expected GHG Emission Reductions

35,034tCO₂/year

= (Reference CO₂ emissions) [tCO₂/year]

– (Project CO₂ Emission) [tCO₂/year]

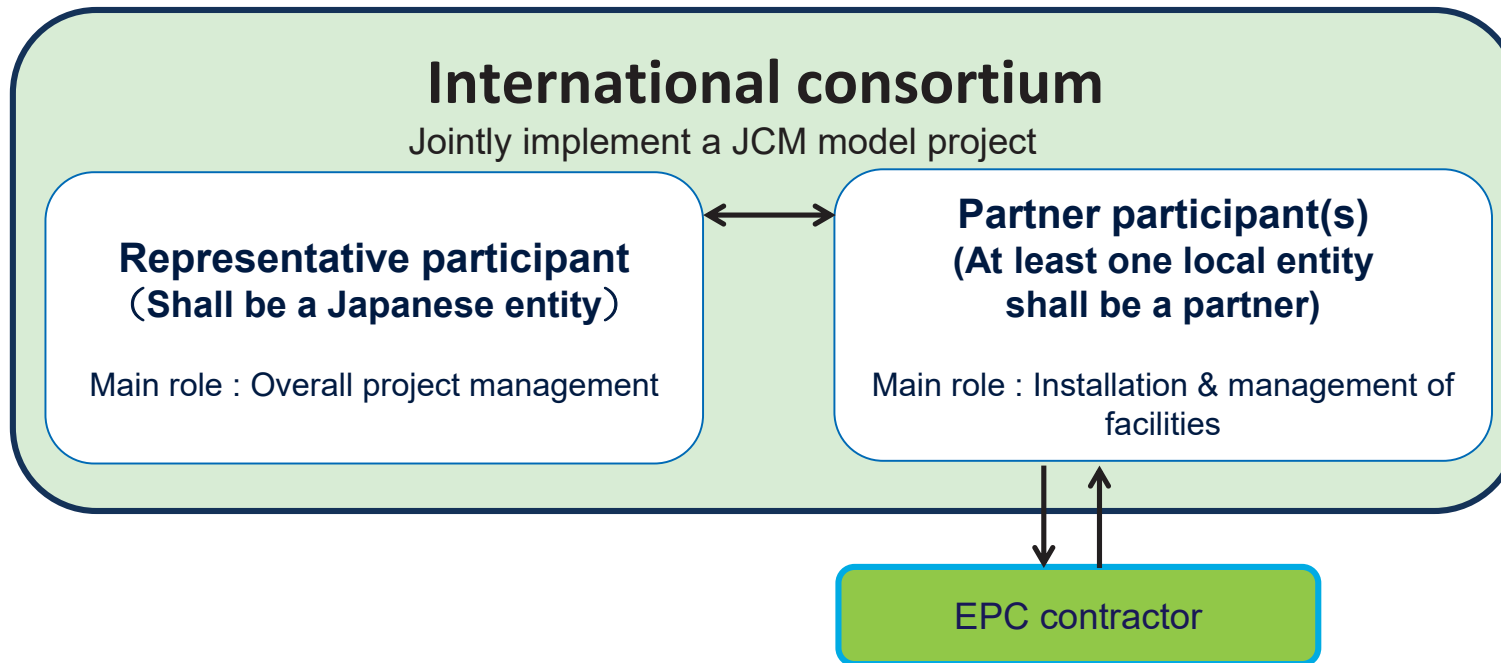
= ((Reference Power consumption) [MWh/year]

– 0 [MWh/year])) × Emission Factor [tCO₂/MWh]

What kind of projects are supported by this financing programme?



- Reduce energy-related CO₂ emissions with leading low carbon technologies in partner countries
- Contribute to the sustainable development in partner countries.
- Reduction of GHG emissions achieved by the projects can be quantitatively calculated and verified.
- Facilities installed by the projects do not receive any other subsidy by the Government of Japan.



➤ Consortium must include both an owner and user of facility installed by the model project.

- (a) A representative participant of the model project shall be a Japanese entity of an international consortium.
- (b) A participant shall have capability for the implementation, such as technical capacity to appropriately implement the eligible project.
- (c) A participant shall have a financial basis to bear the costs necessary to appropriately implement the eligible project.
- (d) A participant shall have adequate management structures and handling capacity for accounting and other administrative work related to the eligible project;
- (e) A participant shall explain the contents, effect on GHG emission reductions, details of the cost, investment plan, etc. of the eligible project.

What kind of cost is covered & not covered by this programme?

✓ COVERED

- (a) Main construction work
- (b) Ancillary work
- (c) Machinery and appliances
- (d) Surveying and testing
- (e) Facilities/equipment (including monitoring equipment)
- (f) Administrative work; and
- (g) Other necessary costs approved by GEC

What is the criteria of cost-effectiveness?

JPY4,000/tCO₂equivalent

$$= \frac{\text{Amount of financial support[JPY]}}{\text{Emission reductions of GHG [tCO}_2\text{equivalent/y]} \times \text{legal durable years[y]}}$$

Legal durable years of the facilities is stipulated by the Japanese law, and are dependent on the industry classification.

JPY3,000/tCO₂equivalent

In case the number of PV JCM Model Projects by each country is 5 or more.
(Mongolia and Thailand)

Guideline

for Submitting
JCM model project proposal in FY2019

3. Overview of JCM Model Projects in FY2019



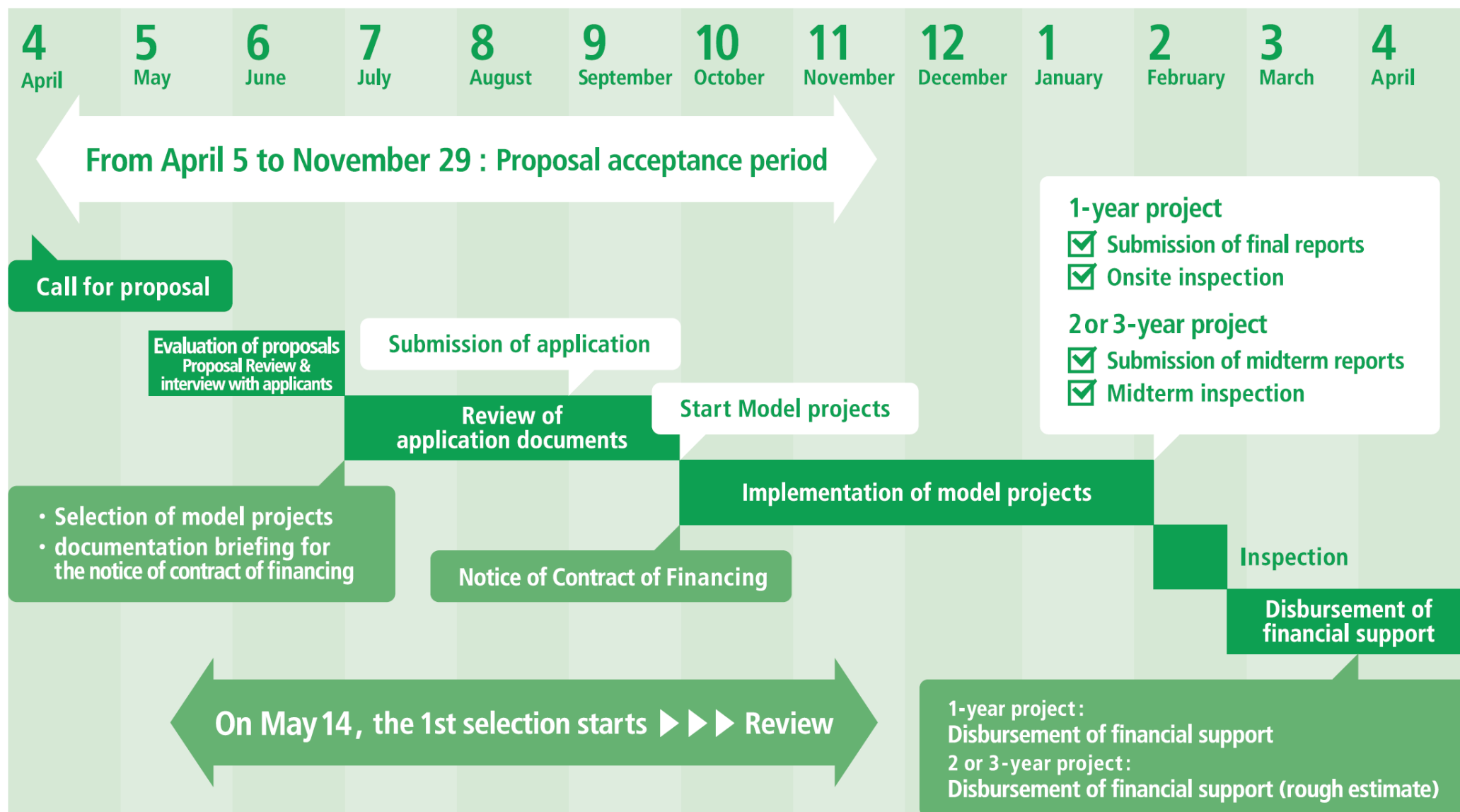
Global Environment Centre Foundation

Budget	JPY9.9 billion (Approx. USD90million)	<div>Financial support per project</div> <hr/> <div>From ¥50million to ¥2billion (approx.)</div>
Executing Entity	International Consortium that consists of a Japanese entity and a JCM partner-country entity (ies)	
Scope of Financing	Facilities, equipment, vehicles, etc. which reduce CO2 from fossil fuel combustion as well as construction cost for installing those facilities, etc.	
Eligible Projects	Start installation after the Contract of Finance is concluded and finish installation within 3 years.	
Maximum percentage of Financial Support	Maximum of 50% and reduce the percentage according to the number of already selected project(s) using a similar technology in each partner country. ※ Number of already selected project(s) using a similar technology in each partner country : none (0) = up to 50%, up to 3 (1-3) = up to 40%, more than 3 (>3) = up to 30%. The percentage of financial support will be determined by GEC.	
Cost-effectiveness	Cost-effectiveness of GHG emission reductions is expected to be JPY4,000/tCO2eq or better. ※ If the number of PV projects in a partner country is 5 or more, cost-effectiveness is expected to be JPY3,000/tCO2eq or better.	

Guideline

for Submitting
JCM model project proposal in FY2019

3. JCM Model Projects Schedule in FY2019



Guideline

for Submitting
JCM model project proposal in FY2019

4. Project Map of JCM Financing Programme Global Environment Centre Foundation

Total 159 projects (● Model Project: 150 projects, ■ ADB: 5 projects, ◆ REDD+: 2 projects, ▲ F-gas: 2 projects) Other 1 project in Malaysia
95 underlined projects have been started operation.
48 projects with * have been registered as JCM projects.

Cambodia: 7 projects

- LED Street Lighting
- 200kW Solar PV at International School*
- Solar PV & Centrifugal Chiller
- Inverters for Distribution Pumps
- Battambang Wastewater Treatment Project
- Solar PV & Biomass Power Plant
- 1.1MW Solar PV

Myanmar: 7 projects

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

Bangladesh: 6 projects

- Centrifugal Chiller
- Loom at Weaving Factory*
- 315kW PV-diesel Hybrid System*
- 50MW Solar PV Power Plant
- Centrifugal Chiller*
- High Efficiency Transmission Line

Saudi Arabia: 1 project

- Electrolyzer in Chlorine Production Plant

Maldives: 3 projects

- 186kW Solar Power on School Rooftop*
- Smart Micro-Grid System
- 1.1MW Rooftop Solar PV

Ethiopia: 1 projects

- 120MW Solar PV

Kenya: 2 projects

- 1MW Solar PV at Salt Factory
- 38MW Solar PV

Laos: 4 projects

- ◆ REDD+ through controlling slush-and-burn
- Amorphous transformers
- 14MW Floating Solar PV
- 11MW Solar PV

Thailand: 32 projects

- Energy Saving at Convenience Store
- Upgrading Air-saving Loom*
- Centrifugal Chiller in Tire Factory
- Air Conditioning System & Chiller*
- Ion Exchange Membrane Electrolyzer
- LED Lighting to Sales Stores
- Co-generation System PV
- Heat Recovery Heat Pump
- Boiler System in Rubber Belt Plant
- Biomass Co-generation System
- Co-generation in Fiber Factory
- 3.4MW Solar PV
- 0.8MW Solar PV and Centrifugal Chiller
- Heat Exchanger in Fiber Factory
- 1MW Solar PV on Factory Rooftop*
- Centrifugal Chiller & Compressor*
- Co-generation in Motorcycle Factory
- Refrigeration System
- Chilled Water Supply System
- 12MW Waste Heat Recovery in Cement Plant
- Refrigerator and Evaporator
- 5MW Floating Solar PV
- Air-conditioning Control System
- Energy Saving Equipment in Port
- Biomass Boiler
- 25MW Solar PV in Industrial Park
- Introduction of Scheme for F-gas Recovery and Destruction
- 37MW Solar PV and Melting Furnace
- 30MW Biomass Power Plant in Sugar Factory

Mongolia: 10 projects

- Heat Only Boiler (HOB)**
- 2.1MW Solar PV in Farm*
- 10MW Solar PV*
- 8.3MW Solar PV in Farm
- 15MW Solar PV
- 20MW Solar PV
- 21MW Solar PV
- Upscaling Renewable Energy Sector
- Fuel Conversion by Introduction of LPG Boilers
- Improving Access to Health Services

Viet Nam: 23 projects

- Digital Tachographs*
- Amorphous transformers 1*
- Air-conditioning in Hotel*
- Electricity Kiln
- Air-conditioning in Lens Factory*
- Container Formation Facility*
- Amorphous transformers 2*
- 320kW Solar PV in Shopping Mall*
- Air-conditioning Control System
- High Efficiency Water Pumps 1*
- Energy saving Equipment in Lens Factory*
- Amorphous transformers 3*
- Energy Saving Equipment in Wire Production Factory*
- Amorphous transformers 4
- Energy Saving Equipment in Brewery Factory
- High Efficiency Chiller
- Modal Shift with Reefer Container
- Inverters for Raw Water Intake Pumps
- ▲ Collection Scheme and Dedicated System of F-gas
- Biomass Boiler to Chemical Factory
- Air-Conditioning System and Air Cooled Chillers
- 44MW solar PV
- Air-Conditioning System and High Efficiency Chiller

Mexico: 6 projects

- 2.4MW Power Generation with Methane Gas Recovery System
- Once-through Boiler and Fuel Switching
- 20MW Solar PV
- 30MW Solar PV1
- Energy Efficient Distillation System
- 30MW Solar PV2

Philippines: 12 projects

- 15MW Hydro Power Plant
- 4MW Hydro Power Plant
- 1.53MW Rooftop Solar PV
- 1MW Rooftop Solar PV
- 1.2MW Rooftop Solar PV
- 4MW Solar PV
- 2.5MW Rice Husk Power Generation
- 0.16MW Micro Hydro Power Plant
- 18MW Solar PV
- 19MW Hydro Power Plant
- 47MW Wind Power
- Biogas Power Generation and Fuel Conversion

Palau: 5 projects

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

Indonesia: 34 projects

- Centrifugal Chiller at Textile Factory*
- Refrigerants to Cold Chain Industry**
- Centrifugal Chiller at Textile Factory 2*
- 507kW Solar Power Hybrid System
- Centrifugal Chiller at Textile Factory 3*
- Upgrading to Air-saving Loom*
- Smart LED Street Lighting System
- Gas Co-generation System*
- 1.6MW Solar PV in Jakabaring Sport City*
- 10MW Hydro Power Plant
- Looms in Weaving Mill*
- Industrial Wastewater Treatment System
- 0.5MW Solar PV*
- Gas Co-generation system
- Absorption Chiller
- CNG-Diesel Hybrid Public Bus
- Rehabilitation of Hydro Power Plant
- Injection Molding Machine 3
- 2MW Mini Hydro Power Plant
- 10MW Hydro Power Plant
- 6MW Hydro Power Plant
- Energy Saving at Convenience Store*
- Double Bundle-type Heat Pump*
- 30MW Waste Heat Recovery in Cement Industry*
- Regenerative Burners
- Old Corrugated Cartons Process*
- Centrifugal Chiller in Shopping Mall*
- Once-through Boiler System in Film Factory*
- Once-through Boiler in Golf Ball Factory*
- REDD+ through controlling slush-and-burn
- LED Lighting to Sales Stores
- High Efficiency Autoclave
- 12MW Biomass Power Plant
- Boiler to Carton Box Factory

Costa Rica: 2 projects

- 5MW Solar PV
- Chiller and Heat Recovery System

Kenya: 4 projects

- 1MW Rooftop Solar PV*
- 1.4MW Solar PV and 2.3MWh Storage Battery
- 3.4MW Rice Husk Power Generation
- 3MW Solar PV

4. Categorization by Technology Type for JCM Model Projects Global Environment Centre Foundation

New Technologies

Autoclave

Multi-effect Distillation System

Injection Molding Machine

Biogas Boiler

Reefer Container

CNG-Diesel Hybrid Bus

Sector	Technology	Mongolia	Bangladesh	Ethiopia	Kenya	Maldives	Viet Nam	Lao PDR	Indonesia	Costa Rica	Palau	Cambodia	Mexico	Saudi Arabia	Chile	Myanmar	Thailand	Philippine	Total
		MN	BD	ET	KE	MV	VN	LA	ID	CR	PW	KH	MX	SA	CL	MM	TH	PH	
1. Energy Efficiency	Air Conditioning System						2		1								1		4
	Chiller		2				3		4	1		1					3		14
	Refrigerator								1							2	4		7
	Absorption Chiller Using Waste Heat								2								2		4
	Swirling Induction Type Air-conditioning System																1		1
	Double Bundle-type Heat Pump						1		1								1		3
	Fridge and Freezer Showcase								1								1		2
	Boiler	1					1		2				1			2	1		8
	Water Heater Using Waste Heat									1									1
	Waste Heat Recovery System															2	1		3
	Transformer						4	1											5
	LED Lighting								2								2		4
	LED Street Lighting with Dimming System								1			1							2
	Pump						1												1
	Air Compressor						1										1		2
	Aeration System								1										1
	Regenerative Burners								1										1
	Gas Fired Furnace						1												1
	Air Conditioning Control System						1										1		2
	Frequency Inverter for Pump						1					1							2
	Loom		1						2								1		4
	Old Corrugated Cartons Process								1										1
	Battery Case Forming Device						1												1
	Electrolyzer in Chlorine Production													1			1		2
	Wire Stranding Machines						1												1
	Gantry crane																1		1
	Electric Forklift																1		1
	Autoclave								1										1
	Multi-effect Distillation System												1						1
	Injection Molding Machine								1										1
2. Renewable Energy	Solar Power Plant	6	2		2	1	1	2	2	1	4	2	2		1		9	4	39
	Solar Power Plant with Battery								1						1				2
	Small Hydropower Plant								3									3	6
	Wind Power Plant												1						1
	Biomass Power Plant								1							1		1	3
	Biomass boiler																1		1
	Biogas boiler															1			1
3. Effective Use of Energy	Biomass Co-generation			1													1		2
	Power Generation by Waste Heat Recovery								1							1	1		3
4. Waste Handling and Disposal	Gas Co-generation								2								3		5
	Waste-to-Energy Plant															1			1
5. Transportation	Power Generation by Methane Recovery												1						1
	Digital Tachograph System						1												1
	CNG-Diesel Hybrid Bus								1										1
Total	Reefer Container						1												1
	Number of technology : 45	7	5	1	2	1	21	3	33	3	4	5	6	1	2	10	38	8	150

4. Infrastructure through JCM



Global Environment Centre Foundation

- 1 Thailand / FAST RETAILING CO., LTD.
High Efficiency LED Lighting
- 2 Cambodia / AEON MALL Co., Ltd.
Solar Power System and High Efficiency Centrifugal Chiller
- 3 Bangladesh / Ebara Refrigeration Equipment & Systems Co., Ltd.
High Efficiency Centrifugal Chiller
- 4 Mexico / Suntory Spirits Limited
Once-through Boiler and Fuel Switching



- 1 Palau / Pacific Consultants Co., Ltd.
Solar Power Plants for Commercial Facilities
- 2 Indonesia / Toyota Tsusho Corporation
Double-Bundle type Heat Pump
- 3 Indonesia / Hokusai Co., Ltd.
CNG-Diesel Equipment to Public Bus
- 4 Thailand / Yokohama Port Corporation
Energy Efficient Equipment to Bangkok Port



INDUSTRY

COMMERCE

COMMERCE

PVs for shopping malls, office use /
Energy-efficient air conditioners, etc.

TRANSPORT

Eco driving / Modal shift / Low-carbon ports

INDUSTRY
MANUFACTURING

Energy saving devices / Biomass / PVs, etc.

POWER GENERATION
& SUPPLY

Large-scale solar power /
Waste heat recovery power generation /
Small hydropower generation, etc.

URBAN
INFRASTRUCTURE

Waste-to-energy / Energy-saving water and sewage /
LED street lights, etc.

TRANSPORT



URBAN INFRASTRUCTURE

Accelerating International Promotion of Infrastructure through JCM

Along with the Overseas Development Strategy (Environment)
compiled by Cabinet Office, Government of Japan in June 2018, the
JCM model project aims to contribute to global GHG emission
reductions, through the diffusion of leading low carbon or
decarbonizing technologies.

POWER GENERATION AND SUPPLY

- 1 Indonesia / Environmental Management and Technology Center
Energy Saving in Industrial Wastewater Treatment System
- 2 Myanmar / Kirin Holdings Company, Limited.
Energy Saving Brewing Systems
- 3 Thailand / TSB Co., Ltd.
Floating Solar Power System
- 4 Mexico / NTT DATA INSTITUTE OF MANAGEMENT CONSULTING, INC.
Power Generation with Methane Gas Recovery System



- 1 Viet Nam / Yuko Kasei Co., Ltd.
Amorphous High Efficiency Transformers in power grid
- 2 Viet Nam / Yokohama Water Co., Ltd.
High Efficiency Water Pumps
- 3 Myanmar / JFE Engineering Corporation
Waste to Energy Plant in Yangon City
- 4 Myanmar / Fujita Corporation
Rice Husk Power Generation

05

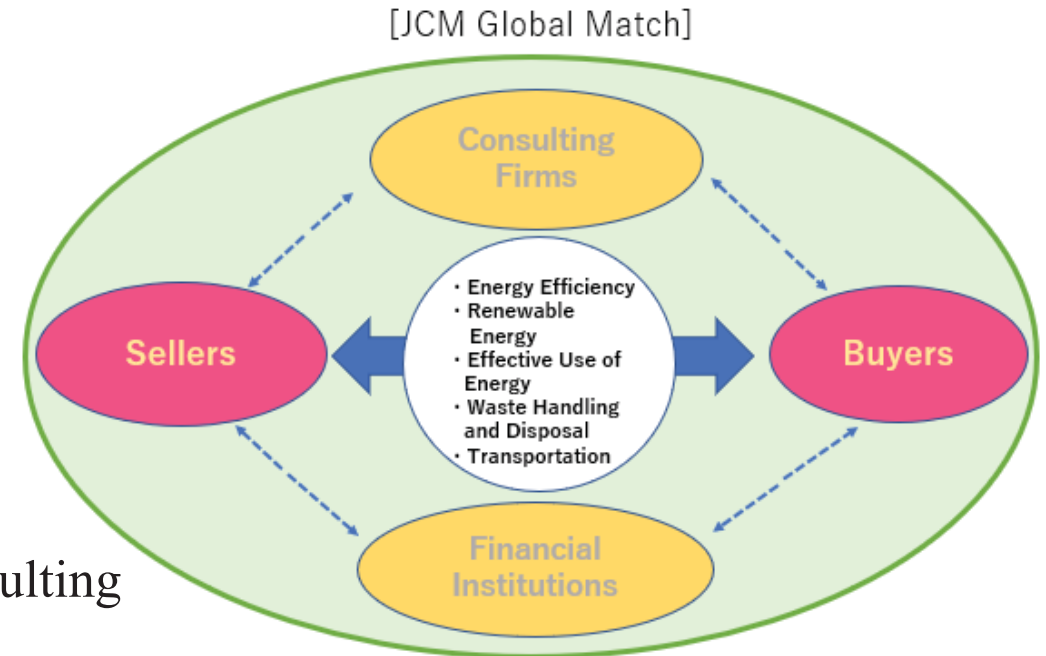
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◆ Objectives

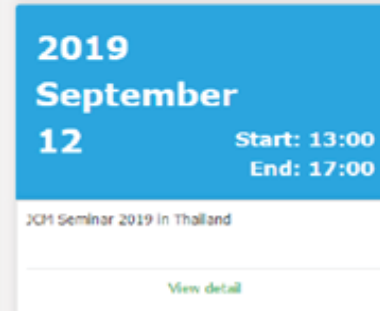
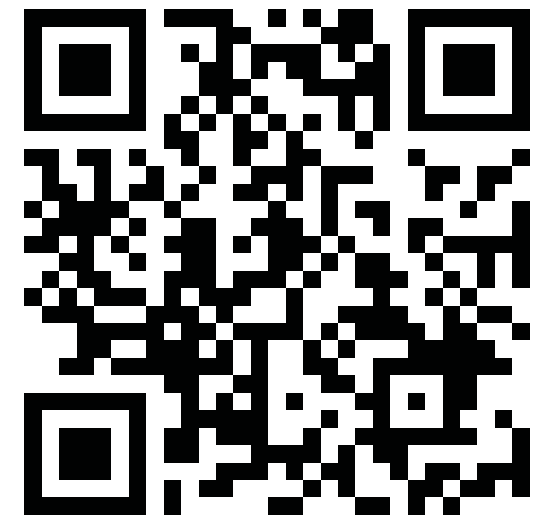
- To facilitate project formation of the JCM
- To provide means to find project partners

◆ Features

- Automated match-making website
- Web-based registration for future meetings
- Supported by financial institutions and consulting firms

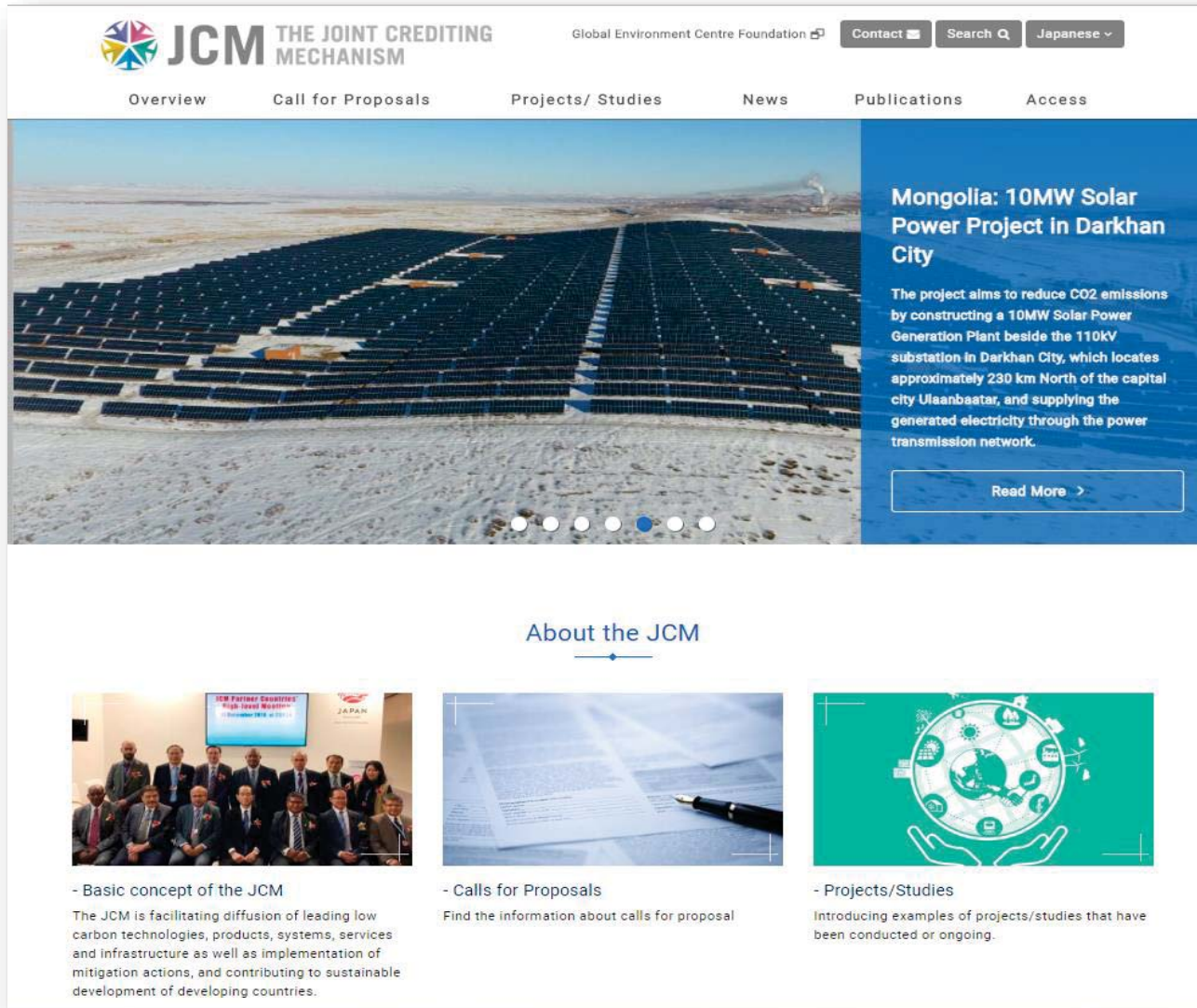


QR code
to see the website



<https://gec.force.com/JCMGlobalMatch/>

JCM Website— search past projects



The screenshot shows the JCM website homepage. At the top, there is a navigation bar with the JCM logo, the text 'THE JOINT CREDITING MECHANISM', and links for 'Global Environment Centre Foundation', 'Contact', 'Search', and 'Japanese'. Below the navigation bar are tabs for 'Overview', 'Call for Proposals', 'Projects/ Studies', 'News', 'Publications', and 'Access'. The main content area features a large image of a solar power project in Mongolia. To the right of the image, there is a text box titled 'Mongolia: 10MW Solar Power Project in Darkhan City' with a description of the project and a 'Read More' button. Below the main image, there is a section titled 'About the JCM' with three sub-sections: 'Basic concept of the JCM', 'Calls for Proposals', and 'Projects/Studies'. Each sub-section has a small image and a brief description.

JCM THE JOINT CREDITING MECHANISM

Global Environment Centre Foundation

Contact Search Japanese

Overview Call for Proposals Projects/ Studies News Publications Access

Mongolia: 10MW Solar Power Project in Darkhan City

The project aims to reduce CO2 emissions by constructing a 10MW Solar Power Generation Plant beside the 110kV substation in Darkhan City, which locates approximately 230 km North of the capital city Ulaanbaatar, and supplying the generated electricity through the power transmission network.

Read More >

About the JCM

- Basic concept of the JCM**
The JCM is facilitating diffusion of leading low carbon technologies, products, systems, services and infrastructure as well as implementation of mitigation actions, and contributing to sustainable development of developing countries.
- Calls for Proposals**
Find the information about calls for proposal
- Projects/Studies**
Introducing examples of projects/studies that have been conducted or ongoing.

JCM Website contains..

- Overview of JCM
- Application Guidelines
- Search function for the Past Projects

<http://gef.jp/jcm/>

Twitter — To Get Updated Information on JCM



Twitter

- Announcement and report of JCM Events
- Multilateral account
(English, Japanese, sometime Spanish)
- Relevant news
- Just search “@GEC_JCM_Info”
and follow us!

https://twitter.com/GEC_JCM_Info

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 Getting advice on your proposal at various phases.



Thank you for your attention

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E-mail : jcm-info@gec.jp

URL : <http://gec.jp/>



Appendix

Partner Country	Entity	Project Title	Sector	Expected GHG Emission Reductions (tCO ₂ /y)
Mongolia	Saisan Co.,Ltd.	Fuel Conversion by Introduction of LPG Boilers to Beverage Factory	Energy Efficiency Improvement	5,781
Palau	Sharp Energy Solutions Corporation	Introduction of 1MW Solar Power System on Supermarket Rooftop	Renewable Energy	843
Mexico	Sharp Energy Solutions Corporation	30MW Solar Power Project in La Paz city	Renewable Energy	36,807
Philippines	Voith Fuji Hydro K.K.	19 MW Mini Hydro Power Plant Project in Isabela Province	Renewable Energy	46,836
Philippines	Tokyo Century Corporation	18MW Solar Power Project in Collaboration with Power-supply Company	Renewable Energy	11,981
Vietnam	DAIICHI JITSUGYO CO., LTD.	Introduction of Biomass Boiler to Chemical Factory	Renewable Energy	16,211
Thailand	Toyota Motor Corporation	Introduction of 37 MW Solar Power System and High Efficiency Melting Furnace in Vehicle & Engine Factory	Energy Efficiency Improvement/ Renewable Energy	19,483
Thailand	NIPPON STEEL ENGINEERING CO., LTD.	Efficiency Improvement of Co-generation System by Installation of Heat Exchanger in Fiber Factory	Energy Efficiency Improvement	359
Philippines	ITOCHU Corporation	Biogas Power Generation and Fuel Conversion Project in Pineapple Canneries	Renewable Energy	52,156
Maldives	Sharp Energy Solutions Corporation	1.1MW Rooftop Solar System in Maamigili and Maandhoo Island	Renewable Energy	862
Vietnam	Hitachi-Johnson Controls Air Conditioning, Inc.	Introduction of High Efficiency Air-conditioning System and Air Cooled Chillers to Hotel and Office Buildings	Energy Efficiency Improvement	2,661
Indonesia	Aura Green Energy Co., Ltd	2MW Mini Hydro Power Plant Project in East Nusa Tenggara Province	Renewable Energy	6,839
Indonesia	Japan Pulp and Paper Company Limited	Introduction of High Efficiency Boiler System to Carton Box Factory	Energy Efficiency Improvement	975
Chile	Asian Gateway Corporation	3.4MW Rice Husk Power Generation Project in Maule	Renewable Energy	8,572
Ethiopia	Sharp Energy Solutions Corporation	120MW Solar Power Project in Metehara, Oromia Region	Renewable Energy	30,007
Vietnam	Kanematsu KGK Corp.	49MW Solar Power Project in An Giang Province	Renewable Energy	24,021
Vietnam	Hitachi-Johnson Controls Air Conditioning, Inc.	Introduction of Centrifugal Chillers to Hospital	Energy Efficiency Improvement	270
Indonesia	Voith Fuji Hydro K.K.	10MW Hydro Power Project in Bengkulu Province	Renewable Energy	35,950
Indonesia	Voith Fuji Hydro K.K.	6MW Hydro Power Project in West Sumatera Province	Renewable Energy	17,242
Cambodia	WWB Corporation	Hybrid Power Plant Project with Biomass and Solar Power in Kandal Province	Renewable Energy	1,881
Cambodia	Asian Gateway Corporation	Introduction of 1.1MW Solar Power System at International School	Renewable Energy	503
Chile	FARMLAND Co., Ltd.	3MW Solar Power Project in Chillan, Nuble Region	Renewable Energy	1,899
Thailand	Global Engineering Co., Ltd.	Introduction of 15MW Biomass Power System to Sugar Plant	Renewable Energy	11,999
Philippines	Chodai Co., Ltd.	33MW Wind Power Project in Caraga Region, Mindanao	Renewable Energy	35,350

End