

JCM Webinar in Chile

Financing Programme for JCM Model Projects and JCM Global Match

December 10, 2020

**Global Environment Centre Foundation
(GEC)**



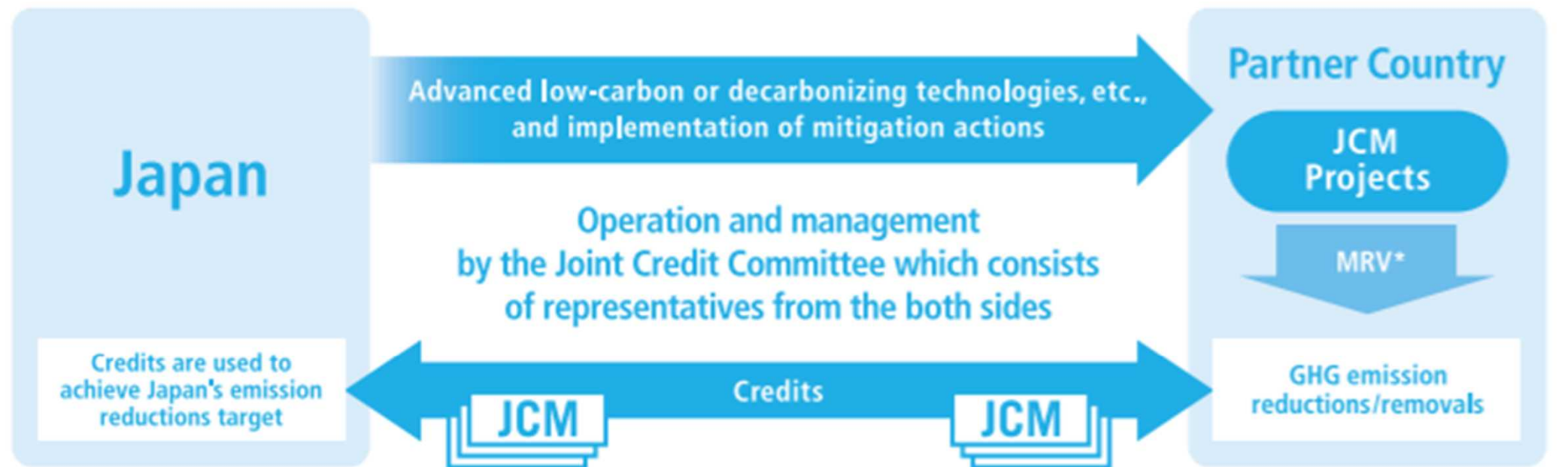
- 1. Overview and Recent trend of the
Financing Programme for JCM Model
Projects**
- 2. Covid-19 Impact and Countermeasures**
- 3. Promotion / “JCM Global Match”**

Basic concepts of JCM

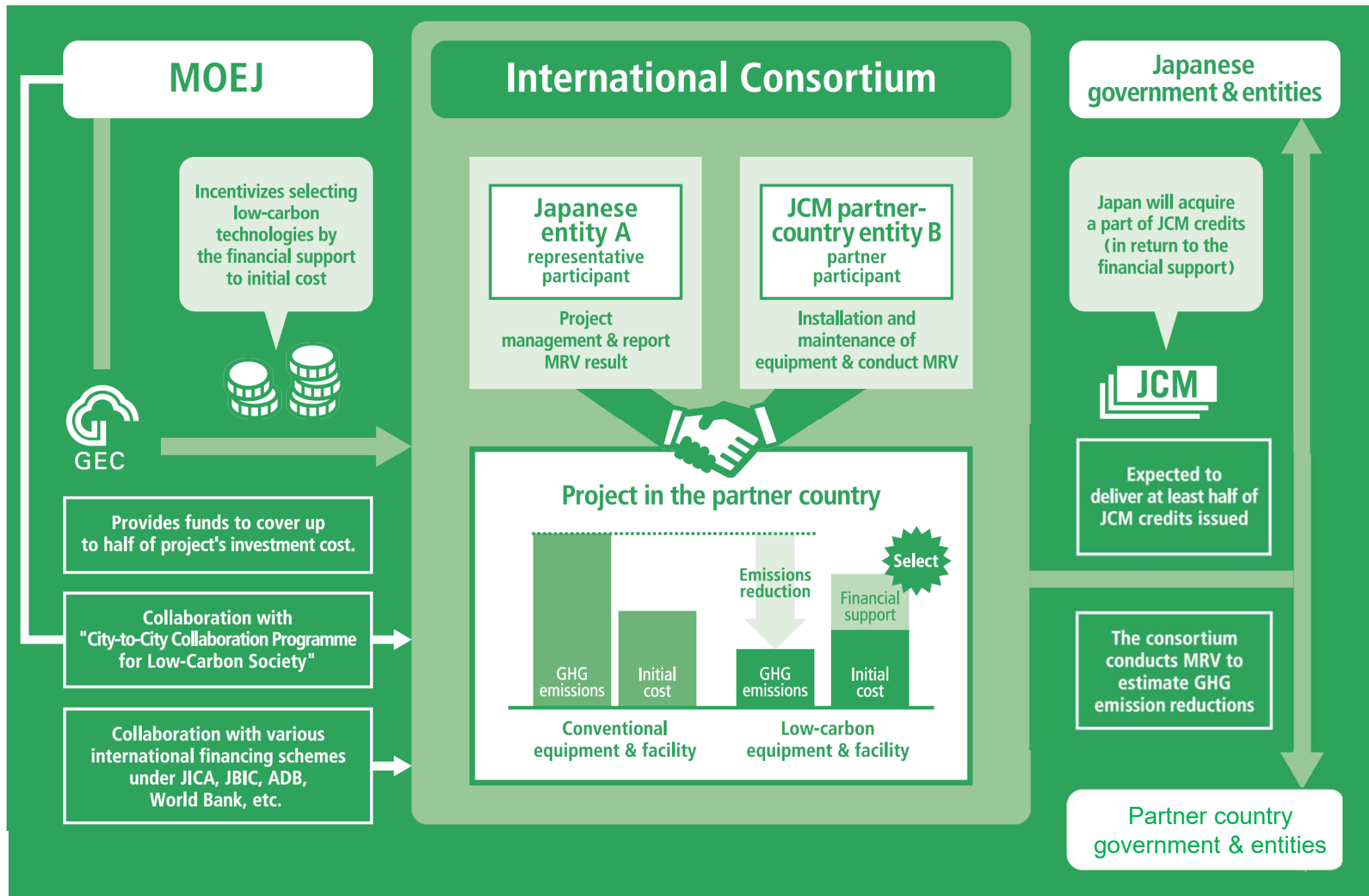
Facilitating diffusion of advanced low-carbon or decarbonizing technologies, products, system, services and infrastructure as well as implementation of mitigation actions, and contributing to sustainable development of developing country.

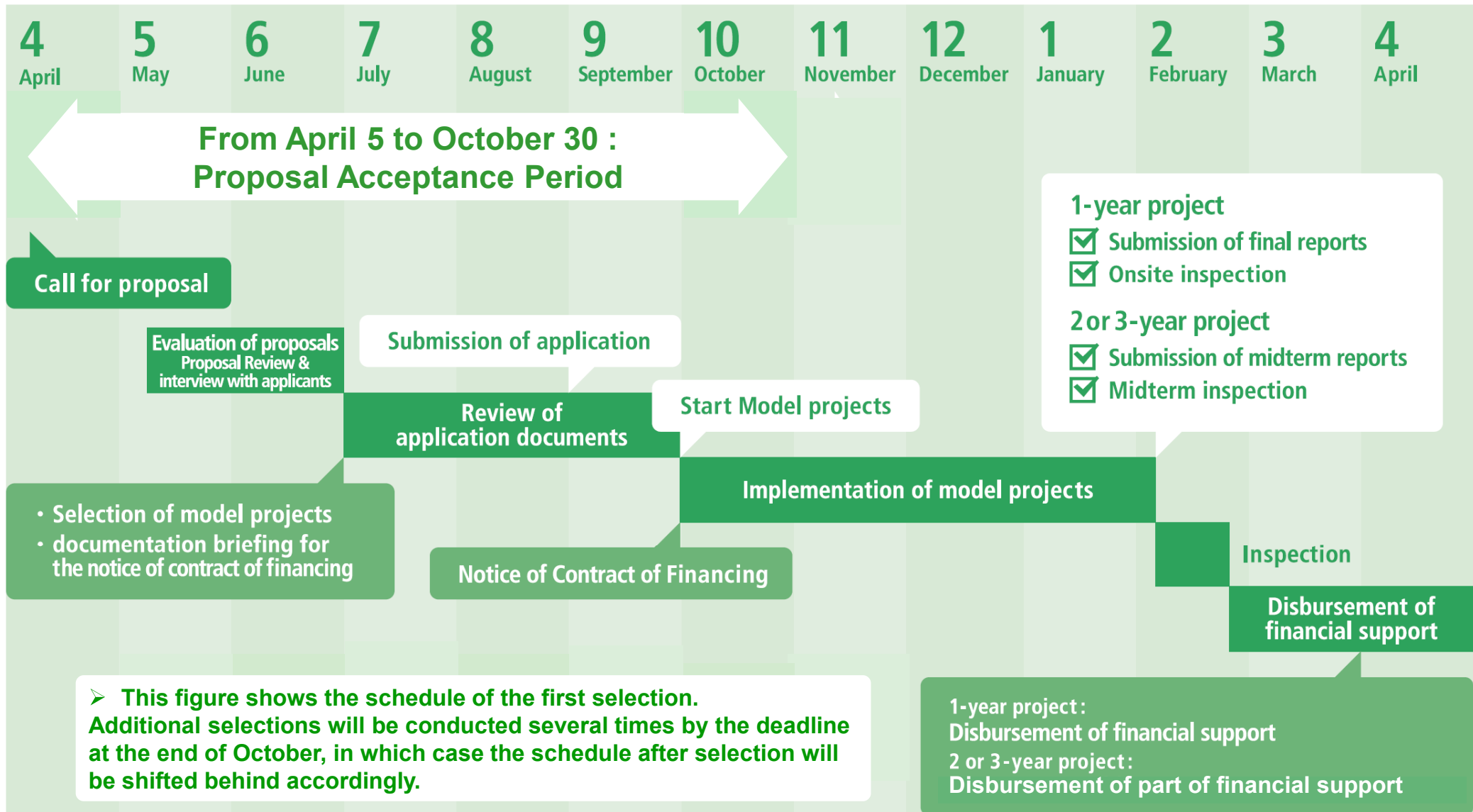
Appropriately evaluating contributions from Japan to GHG emission reductions or removals in a quantitative manner and use them to achieve Japan's emission reduction target.

Contributing to the ultimate objective of the UNFCCC by facilitating global actions for GHG emission reductions or removals.



*measurement, reporting and verification





JCM Financing Programme by MOEJ (2013~2020 Oct)

Total 172 projects / 17 countries

(● Model Project:162, ■ ADB:6, ◆ REDD+:2, ▲ F-gas:2)

● Renewable Energy

● Effective Use of Energy

● Energy Efficiency Improvement

● Transport

● Waste Handling and Disposal

Lao PDR : 5 projects

Myanmar : 8 projects

Bangladesh : 5 projects

Saudi Arabia : 2 projects



Ethiopia : 1 project

Kenya : 2 projects



Maldives : 3 projects



Thailand : 36 projects

A 4x10 grid of colored circles. The top row consists of 10 red circles. The second row consists of 6 red circles followed by 4 green circles. The third row consists of 10 blue circles. The bottom row consists of 5 blue circles followed by a black triangle.

Mongolia : 9 projects

Viet Nam : 27 projects

Cambodia : 7 projects

Philippines : 14 projects

Palau : 5 projects

● ● ● ● ●

Indonesia : 35 projects

- **Mexico : 6 projects**



Costa Rica :
2 projects

Chile :
5 projects

● ● ● ● ●

Introduction of 1MW Rooftop Solar Power System to University [Active]

RP : Waseda Environmental Institute Co., Ltd.

PP : MGM Innova Capital Chile SpA

NTT Data Institute of Management Consulting Inc.



This project has solar system at 4 campuses of the Chilean University: Universidad Técnica Federico Santa María (San Joaquín, Valparaíso, Viña del Mar, and Vitacura).

Other Projects [Now Installing]

Project Title	Year	Entity
<u>1.4MW Solar Power and 2.3MWh Storage Battery Project in San Pedro de Atacama City</u>	2018	Liberal Solution Co., Ltd.
<u>3.4MW Rice Husk Power Generation Project in Maule</u>	2019	Asian Gateway Corporation
<u>3MW Solar Power Project in Chillan, Nuble Region</u>	2019	FARMLAND Co., Ltd.
<u>3MW Solar Power Project Utilizing Farmland in Valparaiso Region</u>	2020	FARMLAND Co., Ltd.

List of JCM Financing Programme by MOEJ (FY2020)

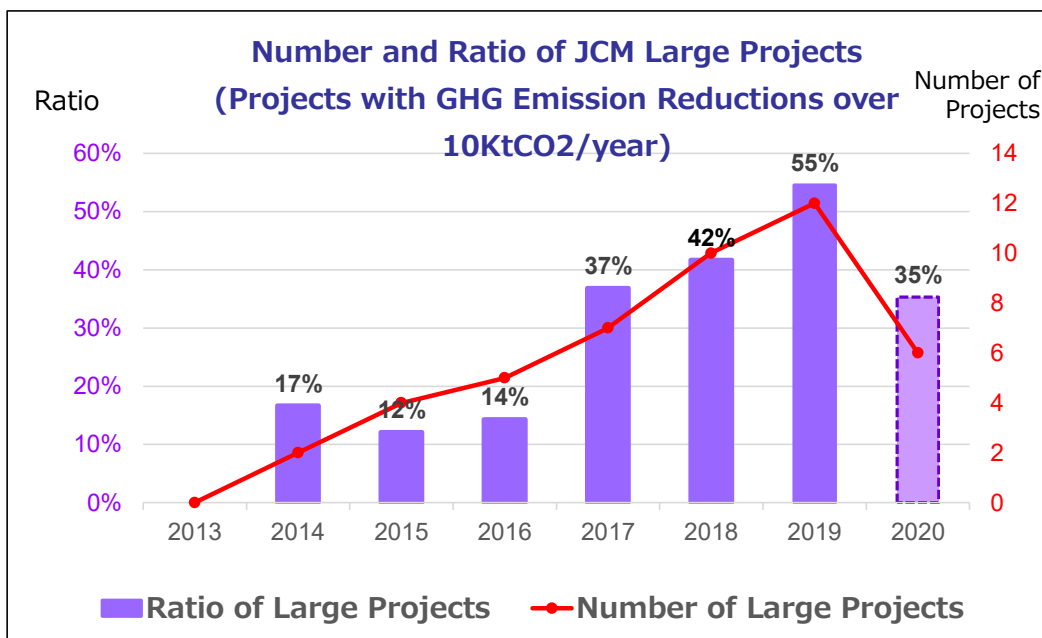
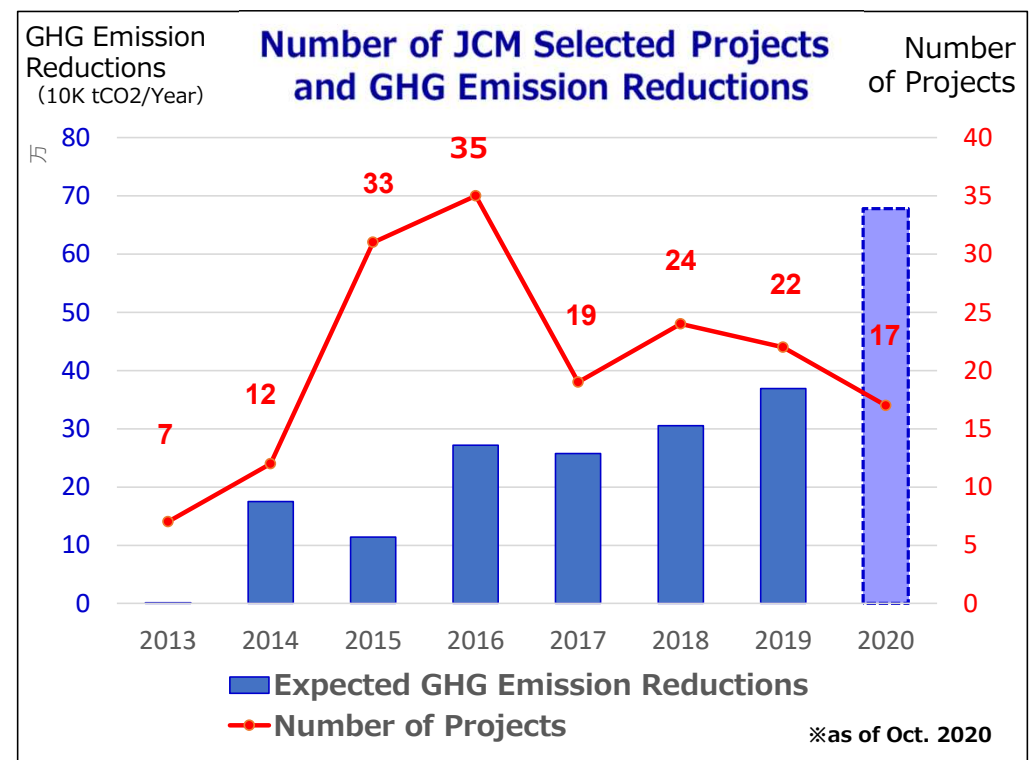
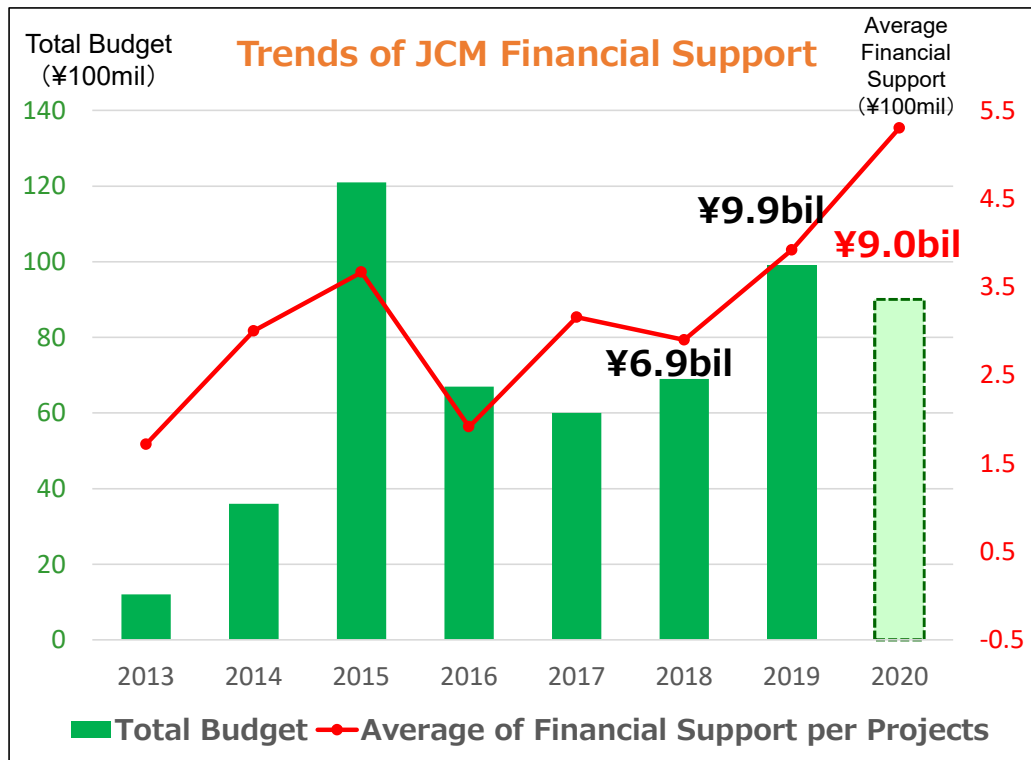
Global Environment Centre Foundation
as of September 24, 2020

Country	Representative Participant	Project Title	Sector	tCO ₂ /y
Vietnam	Kanematsu KGK Corp.	57MW Solar Power Project in An Giang Province	Solar	28,208
Vietnam	Marubeni Corporation	Introduction of Biomass Boiler to Soluble Coffee Manufacturing Plant	Biomass	23,908
Vietnam	Acecook Co., Ltd.	Introduction of High Efficiency Boiler System to Food Factory	Boiler	9,852
Vietnam	DAIICHI JITSUGYO CO., LTD.	Introduction of Biomass Co-generation system to Food Factory	Biomass	24,115
Vietnam	Hitachi-Johnson Controls Air Conditioning, Inc	Introduction of High Efficiency Air-conditioning System to Hotel in Ho Chi Minh City	Air-conditioning	188
Lao PDR	Kayama Kogyo Co., Ltd.	14MW Solar Power Project in Vientiane Province and Borikhamxay Province	Solar	8,030
Indonesia	NiX Co., Ltd.	6MW Mini Hydro Power Plant Project in West Pasaman, West Sumatra	Hydro	18,319
Saudi Arabia	Marubeni Corporation	400MW Solar Power Project in Rabigh Region	Solar	477,129
Chile	FARMLAND Co., Ltd.	3MW Solar Power Project Utilizing Farmland in Valparaiso Region	Solar	2,632
Myanmar	Tokyo Century Corporation	7.3MW Solar Power Project in Mandalay International Airport and Yangon City	Solar ●	3,276
Thailand	The Kansai Electric Power Company, Incorporated	Introduction of 8.1MW Rooftop Solar Power System in Motorcycle Factory and Fiber Factory	Solar ●	3,797
Thailand	The Kansai Electric Power Company, Incorporated	Introduction of Energy Saving Centrifugal Chillers to Machinery Factory	Chiller	225
Thailand	The Kansai Electric Power Company, Incorporated	Introduction of 2.6MW Rooftop Solar Power System to Semiconductor Factory	Solar ●	1,188
Thailand	Sumitomo Mitsui Finance and Leasing Company, Limited	Introduction of 5MW Rooftop Solar Power System to Aluminum Building Materials Factory	Solar ●	2,116
Thailand	Inabata Co., Ltd.	2.5MW Solar Power Project with Blockchain Technology in Chiang Mai University Town Community	Solar ●	1,093
Philippines	Mitsubishi Heavy Industries, Ltd.	29MW Binary Power Generation Project at Palayan Geothermal Power Plant	Geothermal	72,200
Philippines	Tokyo Century Corporation	Introduction of 2MW Solar Power System to Shopping Mall(JCM Eco Lease Scheme)	Solar ●	1,476

Repeater

Emission reduction over
10,000tCO₂/year

Trends in the JCM Model Projects



- It is expected to propose a project that will achieve greater GHG emission reductions and cost effectiveness.
- Large projects have been increased gradually, but in this year, it turned to decrease.

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Impact to Installing Projects

- Government services stalled, licenses and permits delayed.
- Design work is delayed due to telework
- Supply is delayed due to suspension of factory
- Installation work is delayed due to engineers' inability to enter the project site.
- Difficulty in securing labor for construction
- Delays in banking operations (loan contracts, remittances)
- Deterioration of cash flow of the project partner
- Reassessment of the project feasibility (especially in tourism and transportation)

Impact to Project Proposals

- Change / reduction of project plan
- Reduction of investment budget, difficulty in raising funds
- Delay / termination of project formulation

Countermeasures

★ **Avoiding stagnation in the project**

- ✓ Enhance cooperation with web conference.
- ✓ Local human resources
- ✓ Remote monitoring, recording
- ✓ Connection with public institutions (Embassy•JICA•JETRO)

★ **Assessment of the project**

- ✓ Content, scale, schedule
- ✓ Financing, investment planning
- ✓ Force majeure clause

Support by MOEJ/GEC

• **Online Application** :

Documents (proposals, reports etc.) can be submitted online.

• **Online Meeting** :

Evaluation interviews, regular meetings, etc. are held online.

• **Webinars** :

Seminars are held in a webinar format.

• **Online Inspection** :

Final inspection (photos, video images, etc. are needed)

Requests (submitted in the questionnaire)

- ✓ Flexibility of selection schedule
- ✓ Early consultation for budget carry-over
- ✓ Issuance of various letters for permit application, entry visa, etc.

Manufacturing

2018 Indonesia/Introduction of High Efficiency Injection Molding Machine to Plastic Parts Factory

- ✓ Demand for disinfectant surges due to covid-19
- ✓ The injection molding machine was switched to the disinfection cap production.



Commissioning

2019 Mongolia/Fuel Conversion by Introduction of LPG Boilers to Beverage Factory

- ✓ For travel restrictions, consortium entities held online meetings with EPC Contractor and boiler manufacturer.
- ✓ Boiler manufacturer confirmed the status of commissioning through online communication.



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<Objective> ① Promotion of JCM Financing Scheme
② Support for project formation
(※ business matching / individual consultation)

<Format> **All events will be held as webinars in FY2020.**

■ Webinar

- Thailand : August 25
- Indonesia : September 30
- Tokyo : December 7
- Chile : December 10
- Mexico : January 19
- Costa Rica : January
- Vietnam : February



Webinar for Thailand
(August 2020)



Seminar in Indonesia
(October 2019)

■ GEC's Website on JCM

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

■ GEC's JCM Twitter

https://twitter.com/GEC_JCM_Info

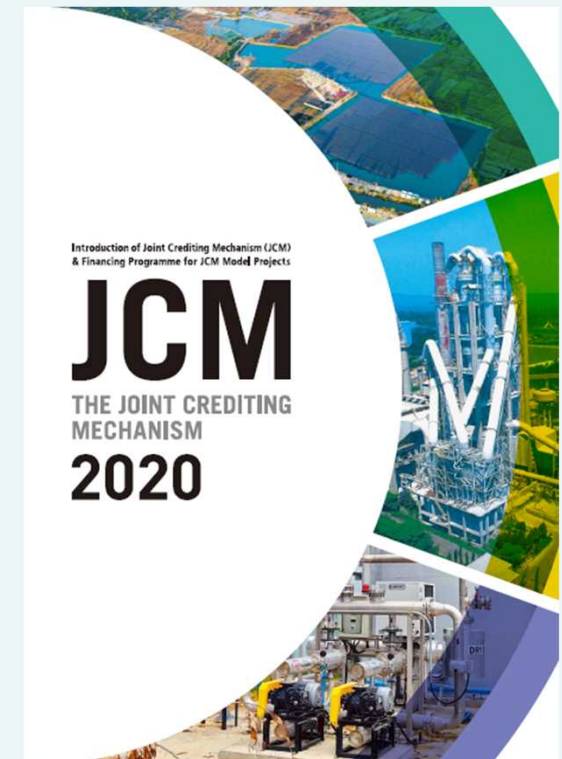
■ JCM Booklet

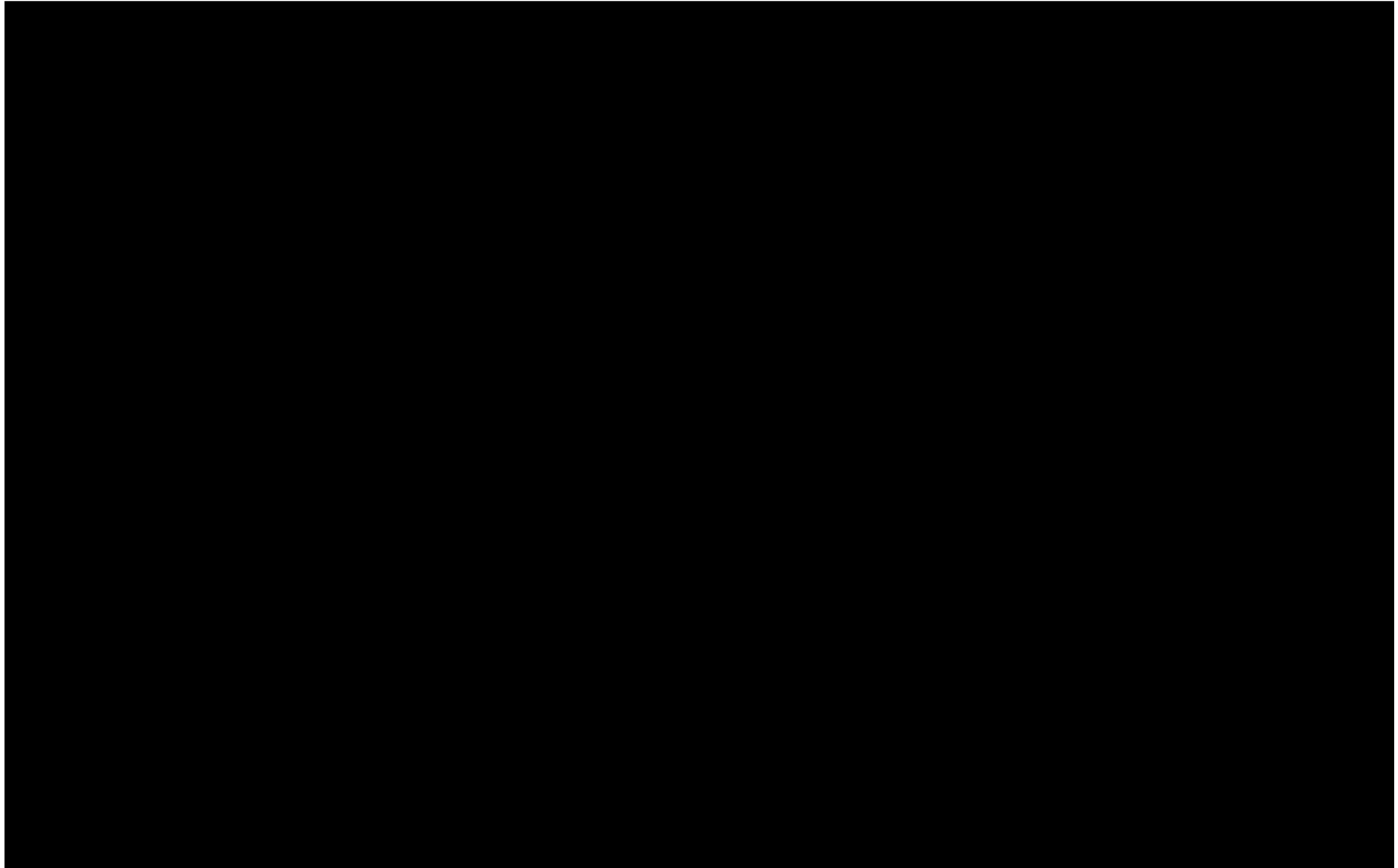
<http://gec.jp/jcm/jp/publications/>

■ Business matching site

"JCM Global Match"

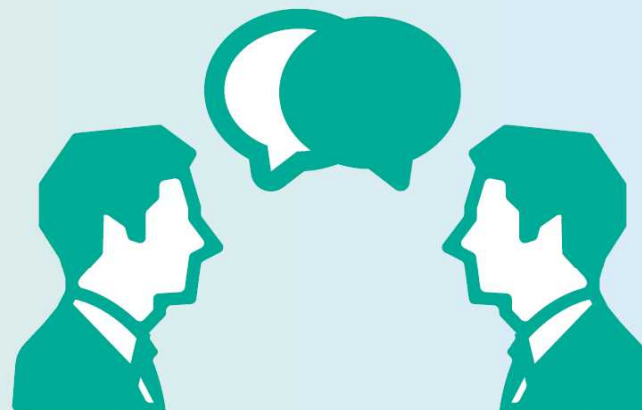
<https://gec.force.com/JCMGlobalMatch/>





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.

■ Contact:

Takeyama, Tango

Global Environment Centre Foundation (GEC) Tokyo Office

E-mail : jcm-info@gec.jp

※Currently, due to COVID-19, we are partially doing telework, and provide application consultation at web conference. Please send an e-mail to contact us.

Muchas Gracias ! Thank you!

Global Environment Centre Foundation(GEC) Tokyo Office

E-mail : jcm-info@gec.jp

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

