



ISAP2022 Thematic track 7

Japan's Contributions for a Decarbonised Asia: Multi-Layered Approaches Taken by Stakeholders

MOE Japan's efforts towards a decarbonised Asia

Dec. 1 2022

SHIGEMATSU Takayuki, WATANABE Satoshi

Office for International Cooperation for Transition to Decarbonization and Sustainable Infrastructure,
Global Environment Bureau, Ministry of the Environment, Japan

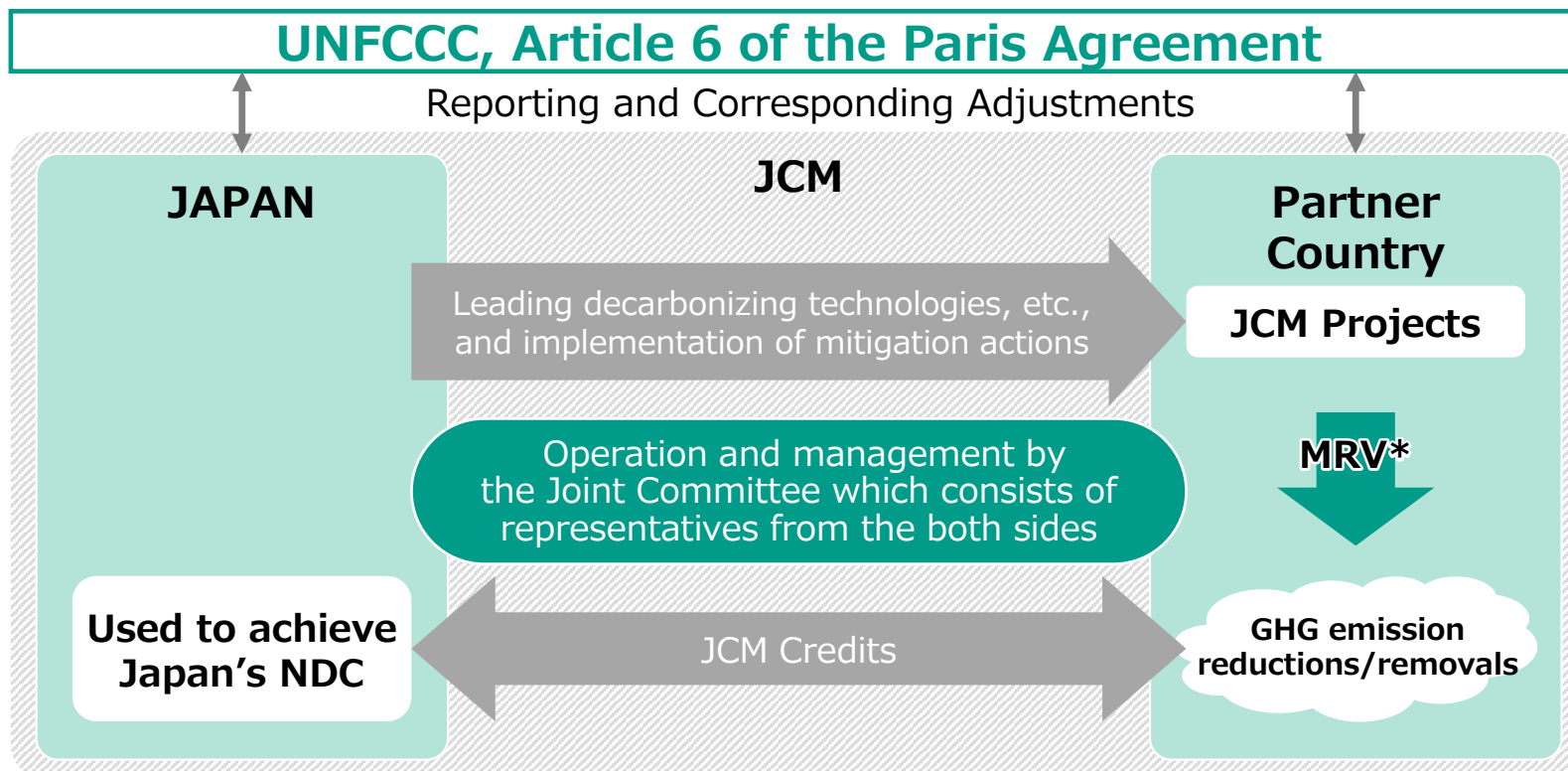


- 1. The Joint Crediting Mechanism (JCM)**
- 2. Paris Agreement Article 6 Implementation Partnership**
- 3. City-to-City Collaboration Program**
- 4. Japan Platform for Redesign: Sustainable Infrastructure (JPRSI)**

Basic Concept of the JCM



- **Facilitate diffusion of leading decarbonizing technologies and infrastructure**, etc., through investment by Japanese entities, thereby contributing to GHG emission reductions or removals and sustainable development in partner countries.
- **Contribute to the achievement of both countries' NDCs** while ensuring the avoidance of double counting through corresponding adjustments.
- Implement the JCM consistent with the guidance on **cooperative approaches**, referred to in **Article 6, paragraph 2 of the Paris Agreement**.



*measurement, reporting and verification

JCM Financing Programme by MOEJ (FY2013~2022) as of October, 2022

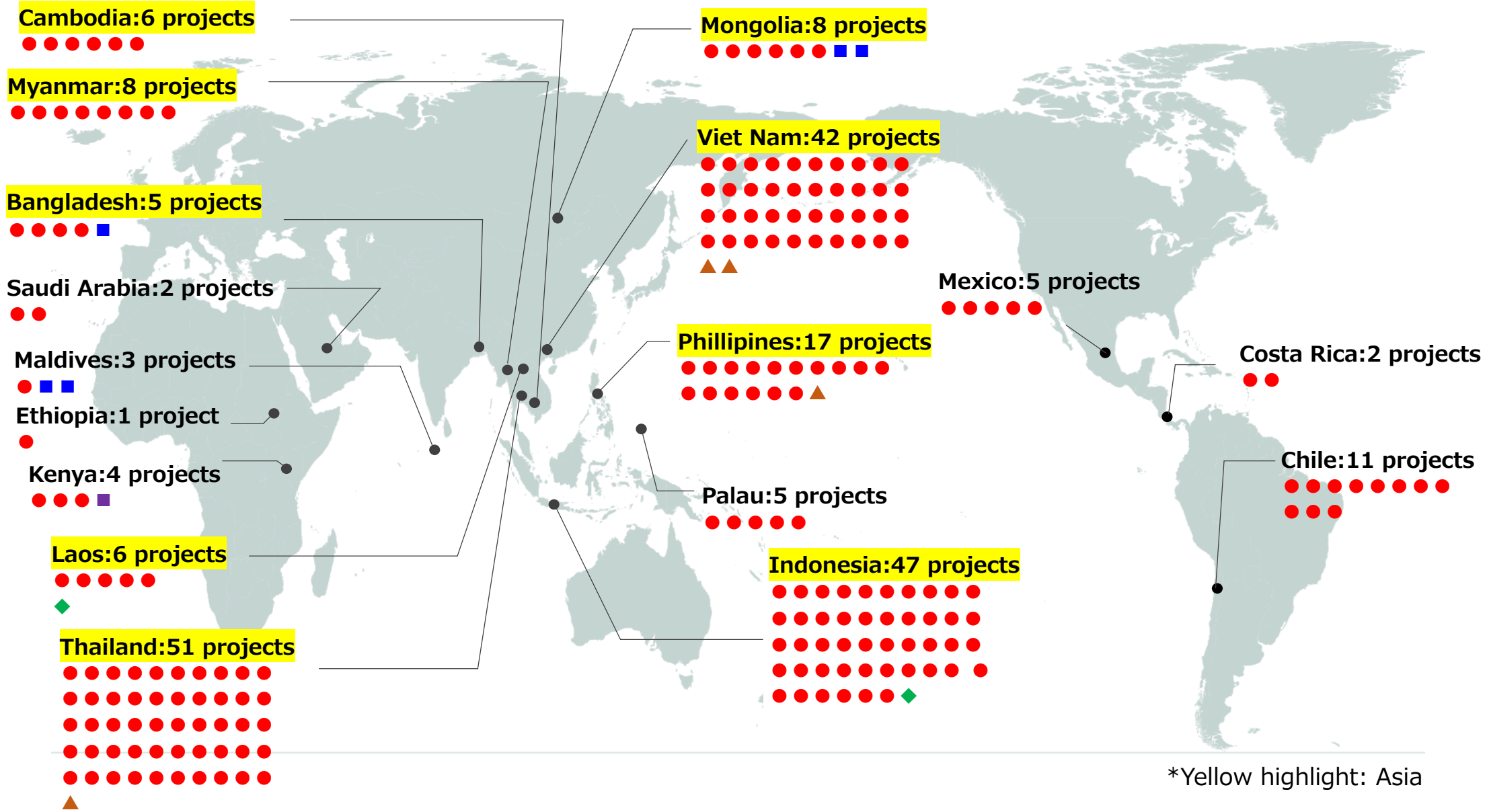


Total **223** projects (**24** partner countries)

(● Model Project: 211 projects (including Eco Lease: 5 project), ■ ADB: 5 projects, ■ UNIDO 1 project, ◆ REDD+: 2 projects, ▲ F-gas: 4 projects)

129 projects have been started operation.

68 projects with have been registered as JCM projects.



*Yellow highlight: Asia

Projects supported by the JCM financing programmes



Renewable Energy



Solar power, FARMLAND Co., Ltd., Chile



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



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



Biomass Co-Generation System, Fuji-Foods Corporation, Thailand



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

Energy efficiency [Consumer sector]



High-efficiency refrigerator, Mayekawa MFG, Indonesia



Energy saving at convenience stores, Panasonic, Indonesia



High-efficiency air-conditioning system, Hitachi, Daikin, Vietnam

Energy efficiency [Industrial sector]



Optimization in petroleum refining plant, Yokogawa Electric Corp. Indonesia



Energy-saving of mobile communications base transceiver stations, KDDI Corp. Indonesia

Energy efficiency [Urban sector]



LED street lighting system with wireless network control, MinebeaMitsumi, Cambodia



Amorphous transformers in power distribution, Hitachi Materials, Vietnam

Waste



Power Generation with Methane Gas Recovery System, NTTDATA, Mexico



Waste to Energy Plant, JFE engineering, Myanmar

Transport



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

JCM Business Matching Site “JCM Global Match”



Features of the “JCM Global Match”

Launched in July 2019

Many participants all over the world including Japan and the JCM partner countries have already signed up.

Reformed on December 2nd 2020 with a lot of improvements!

1. Faster registration (takes 1 min only!)
2. Search bar to find your partners by names of technologies or companies
3. Useful communication among all participants via chat rooms
4. Opportunity to promote your company by Profile and Specialties sections
5. 1 to 1 Communication by private chat and Email addresses exchange
6. Reservation of your Scheduled Meetings

*Google Chrome and Firefox are recommended browsers.

Matching Name	Status	Name	Own
20201202-20	Matching	Aoyama Nanako	Aoya
20201203-21	Matching	Aoyama Nanako	Aoya

☆ **Please sign up**→

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



Paris Agreement Article 6 Implementation Partnership



Website: <https://a6partnership.org/>

Background

- Capacity building support for countries and relevant parties as well as global collaboration among international organizations are essential for swift and robust implementation of “high integrity carbon markets” aligned with Article 6 of the Paris Agreement.
- “High integrity carbon markets” will vitalize global decarbonization markets and private investment.
- Japan will continue working to achieve global emission reductions and decarbonization through the efforts of the “Article 6 Implementation Partnership”.

Overview

Promoting international collaboration for capacity building related to the Paris Agreement Article 6, including by sharing good practices and supporting the implementation of Article 6.

Participants

45 countries • 24 international organizations (As of November 30)

Countries

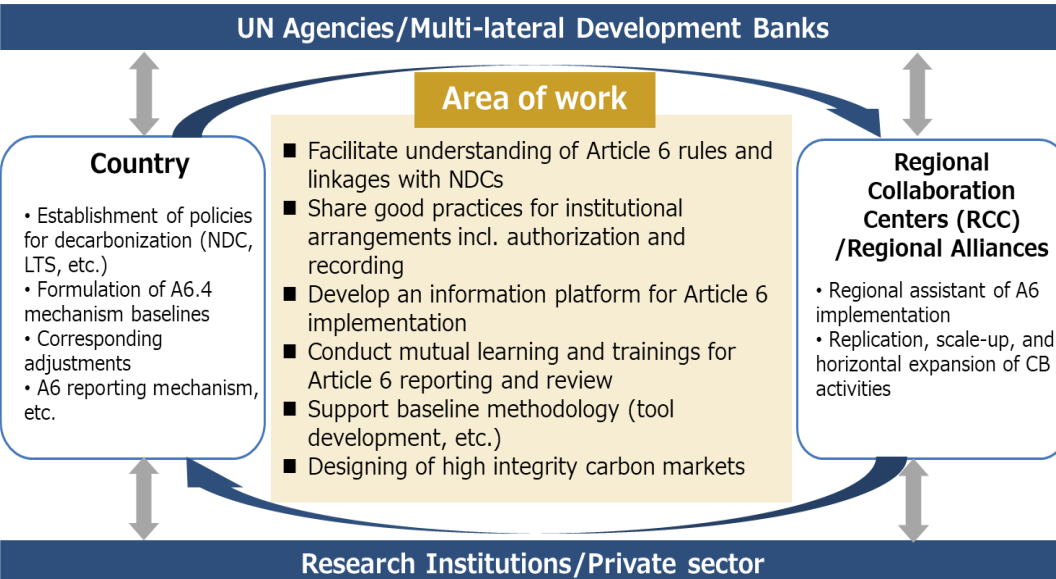
G7 countries, Australia, NZ, Switzerland, Brazil, India, Kenya, Ethiopia, Uganda, UAE, Thailand, Maldives, Palau, etc.

Organizations

UNFCCC secretariat, UNEP, UNDP, UNIDO, World Bank, ADB, AFD (African Development Bank), EBRD (European Bank for Reconstruction and Development), etc.

Launch event

- **Date** November 16, 2022
- **Venue** COP27 Japan Pavilion
- **Main participants** Japan, US, Germany, Italy, NZ, Singapore, Sweden, Estonia, UNFCCC secretariat, World Bank, IETA



Signature for collaboration

Letter of Intent signed on November 16, 2022, between Mr. Nishimura, Minister of Environment, and Mr. Stiell, Executive Secretary of the UNFCCC, on collaboration under this partnership.



City-to-City Collaboration Program



[Basic concept]

- Pairing Japanese cities with partner cities abroad and promoting transfer of **knowledge and experience for decarbonization** in partnership with private solution providers.



- **Co-create low-carbon projects**
- Support developing **policies and plans** to promote climate actions
- **Build capacity** for government staff
- Raise awareness of stakeholders

Cities taking part in the City-to-City Collaboration Program

(FY2013~2022)



Partnering 20 Japanese cities with 45 cities/regions in 13 countries

	Foreign city	Japanese city
Maldives		
1	Malé	Toyama
India		
2	Bangalore	Yokohama
Myanmar		
3	Yangon (region)	Kitakyushu
4	Yangon(city)	Kawasaki
5	Ayeyarwady	Fukushima
6	Sagaing	Fukushima
7	Mandalay	Kitakyushu
8	Yangon City	Fukuoka
9	Sagaing Region, Ayeyarwady Region	Fukushima
Mongolia		
10	Ulaanbaatar	Sapporo·Hokkaido Government
11	Ulaanbaatar city and Tuv aimag	Sapporo
Lao PDR		
12	Vieng chan	Kyoto

Vietnam		
13	Hai Phong	Kitakyushu
14	Da Nang	Yokohama
15	Ho Chi Minh	Osaka
16	Kiên Giang and others	Kobe
17	Can Tho	Hiroshima
18	Soc Trang Province	Hiroshima
19	Hanoi City	Fukuoka
20	Quang Ninh	Shiga Prefecture
21	Ba Ria-Vung Tau	Sakai City

Thailand		
22	Bangkok (Bangkok Port·Laem Chabang Port)	Yokohama (Yokohama Port Pier)
23	Rayong	Kitakyushu
24	Chiang Mai	Kitakyushu
25	Eastern Thailand(EEC)	Osaka

Cambodia		
26	Phnom Penh	Kitakyushu
27	Siem Reap	Kanagawa

Malaysia		
28	Iskandar Development Area	Kitakyushu
29	Iskandar Development Area · Kota Kinabalu	Toyama
30	Penang and others	Kawasaki
31	Kuala Lumpur	Tokyo, Saitama

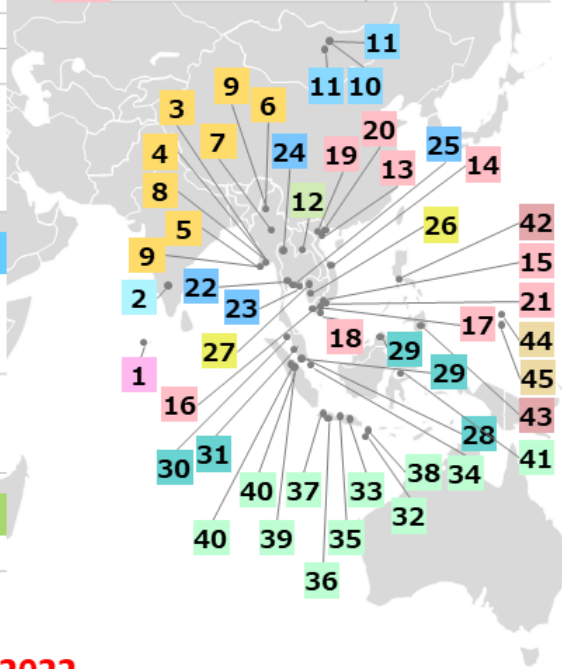
Indonesia		
32	Denpasar	Tokyo Union
33	Surabaya	Kitakyushu
34	Batam	Yokohama
35	Semarang*	Toyama
36	Bandung	Kawasaki
37	Special Capital Territory of Jakarta	Kawasaki
38	Bali*	Toyama
39	Rokan Hulu, Riau	Kawasaki
40	Rokan Hulu Regency and Pekanbaru City	Kawasaki
41	Gorontalo	Ehime

※ Joint project for Bali and Semarang

Philippines		
42	Quezon	Osaka
43	Davao	Kitakyushu

Palau		
44	Koror	Kitakyushu
45	Airai	Urasoe

Chile		
46	Renca, Santiago	Toyama



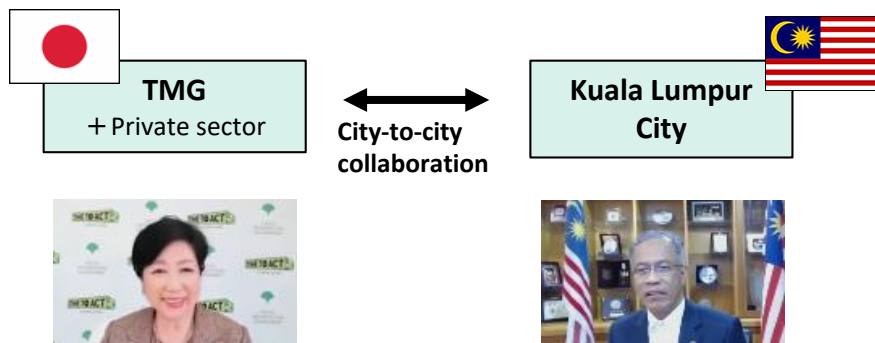
Red: Ongoing projects in FY2022

Success Cases of City-to-City Collaboration



- Through city-to-city collaboration projects with other countries, Japanese systems and initiatives will be transferred in a form that meets the needs of these countries, thereby encouraging zero carbon pledges and implementation of specific measures in overseas cities.

Announcement on zero carbon supported by institutional transfer (Tokyo Metropolitan Government and Kuala Lumpur City)



<Details of collaboration>

- ✓ Transfer of TMG's green building system
- ✓ Development of zero carbon scenario in KL

➔ **KL announced its commitment to be carbon neutral by 2050**

The first case of "decarbonization domino effect"

Introduction of environmental infrastructure through joint study (Yokohama City and Da Nang City)



<Details of collaboration>

- ✓ Study on introduction of energy-saving equipment into water supply projects

- ➔ **Applying decarbonized technologies with JCM grants**
(Installation of energy efficient pumps in Water Supply Joint Stock Company Da Nang)
- ➔ **Replicating similar projects in other cities**
(Energy efficient water intake pumps at the Ho Chi Minh City Water Treatment Plant)

Zero Carbon City International Forum 2022



- In March 2022, **the U.S. and Japan co-hosted** the "Zero Carbon City International Forum" based on the "U.S.-Japan Global Subnational Zero Carbon Promotion Initiative".
- 22 cities and 10 organizations from 14 countries took the stage to **share advanced examples of cities** and discussed ways to further promote their efforts, confirming **the importance of national and subnational cooperation and international city-to-city collaboration.**

Organizers:

Ministry of the Environment, Japan
Office of Special Presidential Envoy for
Climate, the United States of America



Co-Organisers:

UNFCCC, ICLEI, IGES

Collaborators:

OECD, GCOM

Venue:

Online,
Simultaneous
Japanese-English
interpretation

Scan here to visit the
website and video.



DAY1 3/9 10:00-12:15 (JST) / 3/8 20:00-22:15 (EST)

● Opening Remarks

- **KISHIDA Fumio, Prime Minister, Japan (video message)**
- **Minister of the Environment, YAMAGUCHI Tsuyoshi**
- **Rahm Emanuel, United States Ambassador to Japan**

● Framing Session

- **Patricia Espinosa, Executive Secretary, UNFCCC**

● Session 1: How cities are moving towards zero carbon

● Session 2: National-subnational and city-to-city cooperation

● Closing Remarks

DAY2 3/10 21:00-23:15(JST), 7:00-9:15(EST)

● Opening Remarks

● Session 1: City-to-City Collaboration: accelerating the decarbonization domino

● Session 2: trends and initiatives to promote transition in key areas

● Session 3: Pursuing Resilient Cities

● Session 4: Zero Carbon Urban and Town Development

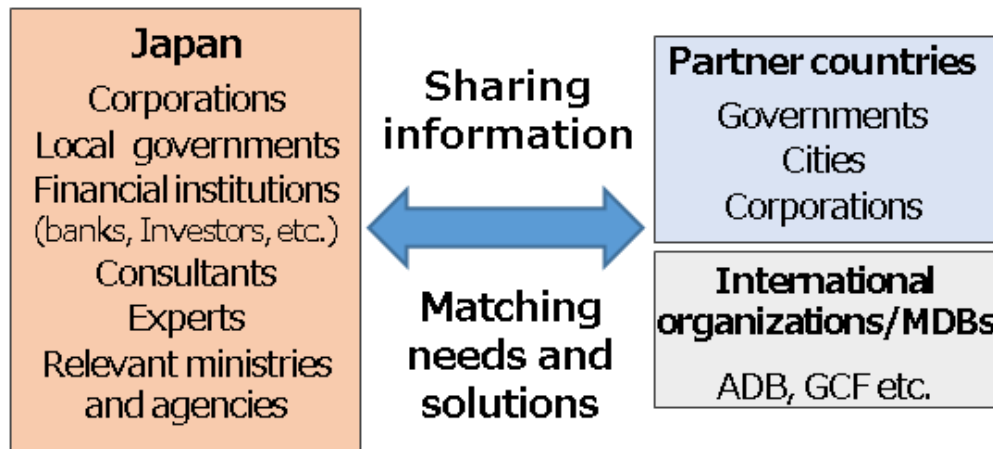
● Closing Plenary & Closing remarks

Japan Platform for Redesign: Sustainable Infrastructure (JPRSI)



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

Overview



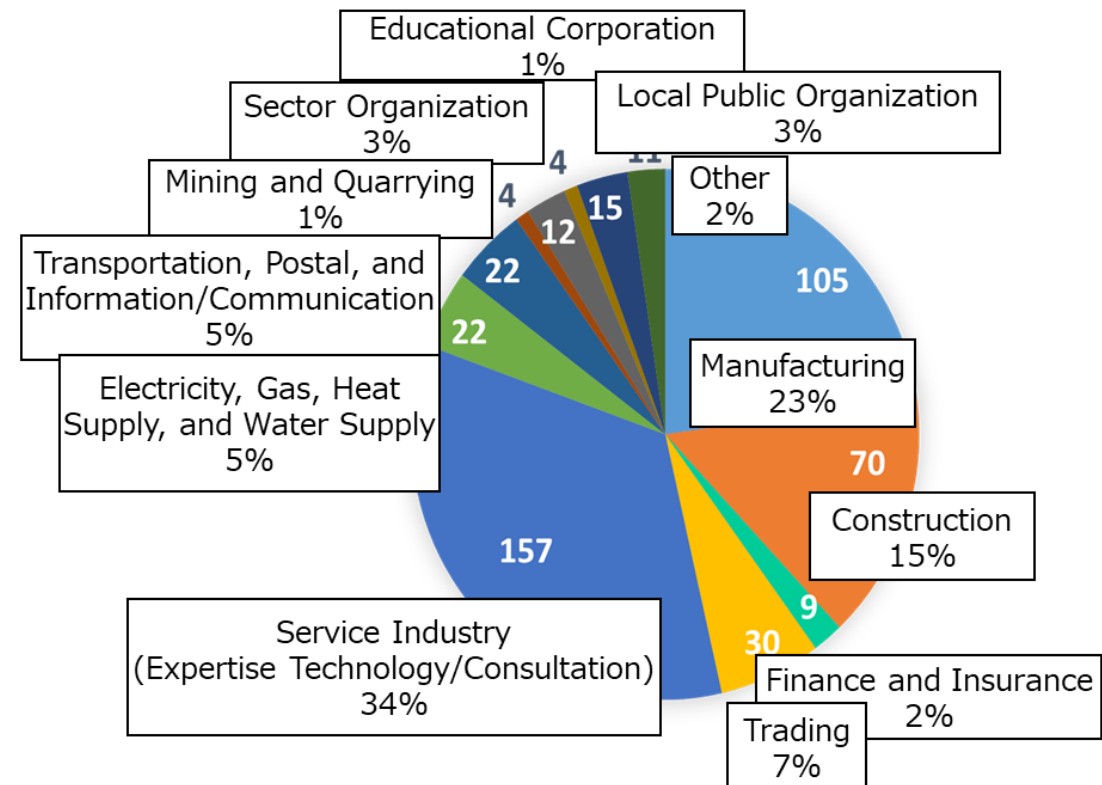
1. Dissemination of technical information provided by Japanese companies
2. Matching local needs with Japanese corporations' solutions



Contact us

Number of Entities Joined

461 entities have joined the platform (as of September 2022).



Thank you for your kind attention



Ministry of the Environment