

Global Environment Centre Foundation

Annual Report 2024



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Message from President

Global Environment Centre Foundation (GEC), a public interest incorporated foundation, engages in a wide range of initiatives to protect the global environment. These include technical cooperation with developing countries, contributions to climate change mitigation, and training programmes on environmental technologies. Alongside these efforts, GEC actively supports the achievement of the Sustainable Development Goals (SDGs) and contributes to global greenhouse gas reduction in line with the Paris Agreement.

One of our core activities is supporting collaborative initiatives with the United Nations Environment Programme International Environmental Technology Centre (UNEP-IETC), which aligns with GEC's founding purpose. Together with the City of Osaka, we have provided operational support for these joint efforts. In February 2025, we contributed to the organisation of the UNEP Global Dialogue, which also included youth sessions and waste management workshops focused on Cambodia and Pakistan—demonstrating our wide-ranging operational support.

GEC has also supported the hosting of various conferences in Japan and abroad, and continues to collaborate with diverse stakeholders, including Osaka University and the Life Conference, to prepare for UNEP-affiliated programmes during the Thematic Weeks of Expo 2025 Osaka, Kansai. As part of this, we will participate in the thematic week titled “The Future of the Planet and Biodiversity”, co-hosted with UNEP. On 21 September 2025, we will present the session “Our Actions Protect the Planet – Plastics and a Resource-Circulating Society” at the Expo venue's Thematic Week Studio. Through discussions on resource circulation and ecosystem restoration, we aim to communicate UNEP's environmental messages to a global audience.

In the field of climate change, GEC has been designated as the implementing entity for the Joint Crediting Mechanism (JCM) under Japan's revised Act on Promotion of Global Warming Countermeasures. As part of this mandate, the JCM Implementation Agency (JCMA) was officially launched on 1 April 2025 by the Government of Japan.

The JCM currently operates with 30 partner countries, and JCMA serves as its central coordinating body. It is responsible for overseeing the full operational cycle of the scheme—including credit issuance, registry management, dissemination of relevant information, support for project implementation procedures, consultations for project development, and promotional activities. These responsibilities are carried out on behalf of the Minister of the Environment, the Minister of Economy, Trade and Industry, and the Minister of Agriculture, Forestry and Fisheries of Japan. JCMA plays a crucial role in ensuring the JCM's long-term success, and GEC is fully committed to fulfilling this vital mission.

To support these developments, we have also strengthened our internal structure. As part of efforts to enhance productivity and cohesion within the organisation, GEC relocated its Tokyo office in June 2025.

GEC remains steadfast in its mission. We will continue to monitor global trends and work closely with relevant organisations, national governments, and both domestic and international companies. Through these partnerships, we will pursue meaningful contributions toward achieving the SDGs and reducing global greenhouse gas emissions in accordance with the Paris Agreement.

We deeply appreciate your continued understanding and support of GEC's work.



July 2025

SHIMOJO Shinji
President
Global Environment Centre Foundation

Support Activities for United Nations Environment Programme (UNEP) International Environmental Technology Centre (IETC) to Promote Environmentally Sound Technologies



Global Environment Centre Foundation (GEC) was commissioned by the Osaka City to implement the “UNEP-IETC Collaboration Project for FY2024,” and carried out projects related to “Implementation of international workshops”, “Overseas cooperation and collaboration support in the environmental field”, “Support for Public Relations” and “UNEP Sustainability Action”.

To contribute to the achievement of the SDGs, we actively participated in and supported UNEP Sustainability Action as a member, and promoted efforts in collaboration with IETC, the Japanese government, Osaka Prefecture and City, and related companies and organizations to implement the PLL (People’s Living Lab) proposal for the Expo 2025 Osaka, Kansai. Furthermore, GEC was entrusted by UNEP with a programme on “Strengthening Plastic Pollution Management in Asia and the Pacific (Mekong-Pacific Project)” and implemented the “Japan Study Programme on transformation towards a circular economy for plastics” for capacity building and developed a “Technical Report on Best Practices, Policies, and Business Cases for Plastic Circular Economy in Japan”.

Support Activities for UNEP-IETC Collaboration Project (Commissioned by Osaka City)

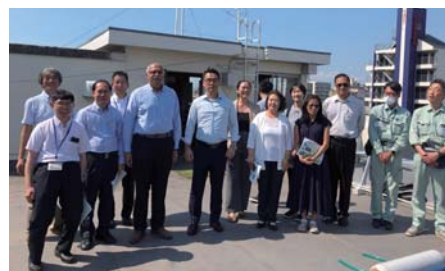
(1) International Workshop

GEC co-organised a UNEP workshop “Meeting of the Thematic Working Group on Air Quality and Health (June)” in Osaka and co-organised “UNEP Global Dialogue: Circular Economy Model of Waste Management (February)” in collaboration with UNEP-IETC. Many stakeholders, including Japanese and international governments, international organizations, private companies, NPOs, and academic institutions, participated in a wide range of thematic sessions, where important insights and lessons were shared.

In addition, as part of the UNEP Mekong Pacific Project, which aims to manage and tackle with plastic pollution in the world, GEC participated in “UNEP Forum on Mitigating Plastic Pollution from Runoff (October)” and “Closing Conference: Strengthening Plastic Pollution Management in Asia and the Pacific (March)” was held in Bangkok, Thailand, and GEC introduced their efforts in plastic pollution management and countermeasures through a collaborative scheme among the three parties – IETC, Osaka City and GEC. A summary of the implementation of and participation in these meetings is as follows.

UNEP Meeting – Thematic Working Group on Air Quality and Health

Date:	13–14 June, 2024
Venue:	UNEP-IETC / GEC Office, etc.
Organisers:	UNEP, WHO, Government of Japan, others
Co-organisers:	GEC and Osaka City
Attendees:	23 people: UNEP, WHO, Ministry of the Environment of Japan, Korea National Institute for Environmental Studies, countries in the Asia-Pacific region (Indonesia, Malaysia, Cambodia, Laos, Thailand, Korea), Osaka City, IGES, GEC, others
Summary:	The meeting was held in Osaka to address air quality and health priorities in the Asia-Pacific region. The two-day program included sharing initiatives and knowledge on air pollution and health, and a visit to relevant facilities in Osaka City.



UNEP Forum on Mitigating Plastic Pollution from Runoff

Date: 29 October–1 November 2024
Venue: Centara Life Hotel Bangkok Phra Nakhon
Conference Room, Bangkok, Thailand
Organiser: UNEP
Participants: 83 people and 45 people online
Participating countries (20): Cambodia, China, Cook

Islands, Fiji, France, Indonesia, Japan, Korea, Laos, Malaysia, Mongolia, New Zealand, Palau, Philippines, Sri Lanka, Sweden, Thailand, Tuvalu, UK, Vietnam

Summary: This forum aimed to address the root causes of pollution from plastic spills and to implement concrete measures to prevent plastic spills throughout the plastic value chain. GEC presented its efforts to promote the reduction of plastic pollution, as well as its tripartite (IETC, Osaka City, and GEC) partnerships.



UNEP Global Dialogue – Circular Economy Models of Waste Management

Date: 17–18 February 2025
Venue: GEC / UNEP-IETC Office, Osaka
Co-organisers: UNEP-IETC, GEC, IGES

Participants: approx. 80 people: policy makers, private sector, academia, youth group, etc. from 14 countries

Summary: UNEP Global Dialogue is a biennial high-level meeting of key stakeholders, including policy makers, private sector representatives, academia, civil society, and youth, with the aim of building strategies to advance circular waste management practices through participation and active dialogue. Focusing on the circular economy model for innovation, the meeting, under UNEP's leadership, included knowledge sharing and active discussions on the following key themes:

- Promoting circularity in waste management
- Integration of the informal sector and gender mainstreaming
- Strengthening Public-Private Partnerships (PPPs) and Extended Producer Responsibility (EPR)
- Designing innovative policy frameworks to support circular waste management

Participants reviewed insights from the best practices in the world and engaged in discussions on developing comprehensive and sustainable waste management solutions in line with the Sustainable Development Goals (SDGs). The event was a valuable opportunity to explore sustainable pathways in each of the areas of social equity, gender responsiveness, and influential policy frameworks, as well as to build partnerships among the participants.



Closing Conference: Strengthening Plastic Pollution Management in Asia and the Pacific

Date: 4–5 March, 2025
Venue: Amari Bangkok Hotel Meeting Room, Bangkok, Thailand

Organiser: UNEP

Number of participants: approx. 85 people and 45 people online

Participants: Japan, Cambodia, Thailand, Vietnam, Indonesia, Malaysia, Sri Lanka, Cook Islands, Tonga, Fiji, etc.

Summary: This conference was organised as a closing meeting of the Project on Enhancing Plastic Pollution Control in Asia and the Pacific (Mekong Pacific Project), which has been implemented by the Government of Japan in cooperation with UNEP since 2019, and was held to conclude the project, present the efforts and achievements, and explore future initiative and integrated actions. GEC reported on the results of the “Japan Study Programme on transformation towards a circular economy for plastics”, which was held in Osaka in September 2024 and introduced the technical report.



(2) Support for Overseas Cooperation and Collaboration in the Environmental Field

The following activities were implemented for two target cities, Maharashtra State, India and Phnom Penh, Cambodia.

• Maharashtra State, India

For the study visit in Maharashtra State in January, the areas for future collaboration were confirmed through the policy dialogue with Maharashtra Pollution Control Board (MPCB), also an agreement on the project collaboration with Maharashtra Energy Development Agency (MEDA) has been made. In addition, we visited Japanese and Indian companies in Maharashtra State and had a positive exchange discussion for possible collaboration areas in the project.



• Phnom Penh, Cambodia

In order to collaborate with IETC's waste management programme, GEC supported organizing a project meeting and site visits for Cambodia and Pakistan on 19–21 in Osaka. Government official and NPO group were invited, and they joined the 3 day-meeting to review the project activities for the next phase of each programme.



(3) Public Relations and Outreach Activities for UNEP-IETC

GEC worked closely with IETC to organise environmental events and exhibition booth, translated summaries of UNEP's flagship report "Global Waste Management Outlook (GWMO) 2024" and prepared materials introducing IETC's projects. Regarding the environmental events, GEC co-organised an event for youth on the theme of plastic pollution with Osaka University and the Inochi Forum. In addition, we supported event publicity and IETC outreach activities to raise awareness of IETC.

• Environmental Events



World Environment Day Event at Kaiyukan, 9 June, 2024

• Booth Exhibit at Environment Events



Eco Ennichi 2024, 9 November 2024



One World Festival, 8–9 February 2025

(4) Support for UNEP Sustainability Action

GEC managed the website and conducted the following events to promote the UNEP Sustainability Action Programme.

Save Our Planet and Our Future – Actions to Plastic Pollution

Date and Time: 29 September 2024, 15:00–16:40

Location: The University of Osaka Nakanoshima Center

Organisers: GEC, UNEP-IETC, Inochi Forum, Osaka

University Social Solutions Initiative, Uyama

Laboratory, Graduate School of Engineering,

Osaka University, Girl Scouts of Osaka

Prefecture / Girl Scouts of Japan

Summary: An environmental awareness event was organised for youth who lead the future society. Through lectures and workshops, participants learned the current plastic waste problem and share their actions for protecting the global environment and all lives.



UNEP Global Dialogue Youth Event – Circular Economy Model of Waste Management

Date and Time:	19 February 2025, 9:30–18:30
Location:	Tsurumi no Mori Geihinkan, Osaka
Organisers:	UNEP, GEC, IGES and Children and Youth Major Group to UNEP (CYMG)
Participants:	Youth participants from 41 countries, approx. 140 (40 on-sites, 100 online) 41 countries (Japan, Korea, China, Algeria, Australia, Bangladesh, Chad, Cote d'Ivoire, Germany, Estonia, India, Indonesia, Italy, Ghana, Jamaica, Kenya, Lesotho, Macau, Malaysia, Mexico, Morocco, Montenegro, Jordan, Laos, Libya, Liechtenstein, Romania, Luxembourg, Lebanon, Russia, South Africa, Zambia)
Summary:	The event aimed to expand youth opinions internationally toward the realisation of a zero waste and sustainable future society. Declaration on Zero Waste and Circularity was developed as “Mottainai Youth Declaration on Zero Waste and Circularity” based on active discussions through lectures and workshops. This reflects youth priorities and diverse perspectives and contributes to strategies for sustainable change, and will be shared with policy makers and others at the next UN Environment Assembly.



Exchange Meeting for UNEP Sustainability Action

Date and Time:	3 March 2025, 14:20–15:10
Location:	Conference room at Avex Inc. headquarters, Tokyo
Participant:	UNEP-IETC, GEC, Fast Retailing, Seven & i Holdings, Rakuten Group, Kosaka Daimaou, Murata Manufacturing, Avex, Ministry of the Environment, Japan, Osaka City, and GEC
Summary:	Members of the UNEP Sustainability Action Team exchanged opinions on how to build a sustainable society based on resource recycling and how to collaborate to address environmental issues together and explored the future direction and possibilities for collaboration.

Strengthening Plastic Pollution Management in Asia and the Pacific (Mekong-Pacific Project) (Commissioned by UNEP)

GEC was commissioned by UNEP to implement the Mekong Pacific Project, which aims to strengthen plastic pollution management in the Asia-Pacific region, funded by the Japanese government and carried out the following two activities. The results of this project were presented at “Closing Conference: Strengthening Plastic Pollution Management in Asia and the Pacific”^{*} was held in Bangkok, Thailand in March.

(1) Implementation of “Japan Study Programme on Transformation Towards a Circular Economy for Plastics”

GEC organised and conducted a capacity building programme on “Strengthening Plastic Pollution Management in Asia and the Pacific (Mekong-Pacific Project)” in Osaka, Japan on 23–27 September 2024 to strengthen the knowledge and capacity of environmental administrators in the Asia-Pacific region to develop and implement a regulatory framework for a circular economy of plastics. 27 government officials from 17 countries in the Asia-Pacific region participated in this program to learn about Japan's knowledge, experience, best practices, and technologies for plastics pollution management.

GEC worked with UNEP and Japanese government, local governments, private sector, experts, industry associations, academic institutions, and other relevant stakeholders to carry out the integrated programmes of lectures, site visits, and mutual learning sessions.



Japan Study Programme on Transformation Towards a Circular Economy for Plastics

Dates:	23–27 September 2024
Venue:	UNEP-IETC/GEC meeting room, etc.
Participants:	Government officials from the Asia-Pacific region (27 people from 17 countries: Cook Islands, Kiribati, Timor-Leste, Nauru, Tonga, Vanuatu, Fiji, Palau, Marshall Islands, Micronesia, Papua New Guinea, Samoa, Tuvalu, Thailand, Malaysia, Laos, Cambodia)

“Closing Conference: Strengthening Plastic Pollution Management in Asia and the Pacific”

It was also described as the activity of the UNEP-IETC Collaboration Project.



Japan Study Programme on Transformation Towards a Circular Economy for Plastics

(2) Development of “Technical Report on Best Practices, Policies, and Business Cases for Plastic Circular Economy in Japan”

GEC also developed a “Technical Report on Best Practices, Policies, and Business Cases for Plastic Circular Economy in Japan”. The report includes best practices and case studies on the circular economy of plastics in Japan, policy trends for reducing plastic pollution, and examples of Japanese businesses implementing upstream solutions in the plastics value chain. The report will be posted on UNEP’s Global Partnership on Plastic Pollution and Marine Litter (GPML) website.

UNEP Programme Development Support Project (GEC’s independent project)

GEC collaborated and coordinated with UNEP-IETC and implemented various events, public relations, and other activities, based on the “Basic Strategy for Plastic Pollution Countermeasures”. In order to promote support for building projects in which UNEP-IETC partners and the UNEP Sustainability Action Team can participate, aiming to solve social issues in developing countries under the UNEP Medium-Term Strategy (2022–2025).

And GEC also have provided support for the coordination of programmes in collaboration with UNEP during the Expo period, including the pre-event for the Expo 2025 Osaka, Kansai, Japan.

Operation for Kansai Asia Environmental and Energy Saving Business Promotion Forum (Team E-Kansai)



GEC has served as secretariat to the Kansai Asia Environmental and Energy Saving Business Promotion Forum (Team E-Kansai) since May 2013. The forum provided information to regular members through e-mail magazines, newsletters and coordinator reports, and posted information on our website, and also held an online seminar on the topic of environmental business in Viet Nam on March 2025.



Mini seminar on environmental business in Viet Nam

Promotion of the Water Environment Business



The Shiga Prefectural Government established the Shiga Water Environment Business Promotion Forum (Team Water Shiga) in March 2013 to facilitate development of the water environment business by taking advantage of the accumulated results of water environment-related industries and research institutions as well as activities to conserve the water environment of Lake Biwa. The Prefectural Government not only provides information about recent trends in the water environment business, activities of pioneering companies, and various support measures, but also operates Team Water Shiga as a forum for matching and team-building to set up actual business projects, joint development, and so on.

Commissioned to conduct the ‘Survey & Coordination for Water Environment Business

Promotion' by the Shiga Prefectural Government, activities of the project included: (1) Offering seminars and the Asia Regional Sessions in Shiga prefecture, (2) Participating in business exhibitions in Japan, (3) Implementing business matching in the water treatment field with Vietnamese companies, and other activities including support for the development of projects and support for the overseas deployment of forum members.

(1) Seminars and the Asia Regional Sessions in Shiga Prefecture

The Shiga Water Environment Business Seminar and the Asia Regional Sessions were held, aimed at sharing and discussing information useful for supporting forum members' overseas expansion.



The Shiga Water Environment Business Seminar

(2) Participating in Business Exhibitions in Japan

To attract new forum members and promote sales by forum members through introducing the forum's activities and the businesses of forum members, GEC supported Team Water Shiga's booth at 'Inter Aqua 2025', which was domestic exhibitions related to manufacturing and the water environment.



The booth at 'Inter Aqua 2025'

(3) Business Matching on Water Treatment in Shiga

With the aim of contributing to developing projects and expanding individual businesses, representative from member companies of Vietnam-Japan Institute of Advance Technology (VJIAT) and the faculty of Environmental Engineering at Hanoi University of Civil Engineering in Vietnam were invited to Shiga Prefecture. During their visit, business matching seminar and networking events with forum members were held, in addition to inspections of water and environment-related public facilities and companies in Shiga prefecture.



Courtesy visit to Shiga Prefecture

Date	Programme
3rd December 2024	<ul style="list-style-type: none"> • Courtesy visit to Shiga Prefecture • Brief explanation of the program
4th December 2024	<ul style="list-style-type: none"> • Business matching seminar and networking events
5th December 2024	<ul style="list-style-type: none"> • Inspection of four water and environment-related public facilities and companies in Shiga prefecture



Presentation by Shiga Prefecture and Forum members at a seminar (Inter Aqua2025)



Business matching seminar between with VJIAT and Hanoi University of Civil Engineering



Site visit to the sewage treatment plant at the "Konan Chubu Sewage Treatment Centre"



Introduction of water environment technologies at "Ohmi Environment Conservation Foundation"

Model Project for Improving Water Environment in Asia



The "Project to reduce volume and promote reuse of water by membrane treatment of high-concentration oil-containing wastewater, Vietnam". consisted of GEC, DAICEN MEMBRANE-SYSTEMS Ltd., and Osaka Institute of Technology financed by MOEJ.



Seminar participants inspecting the demonstration equipment



Group photo at the dissemination seminar

The tubular membrane module is used to separate oil-containing wastewater from metal processing / metal treatment factories, into highly concentrated wastewater and reusable water.

In FY2024, the demonstration test was implemented and verification on business effect and applicability as a business model based on the results were considered.

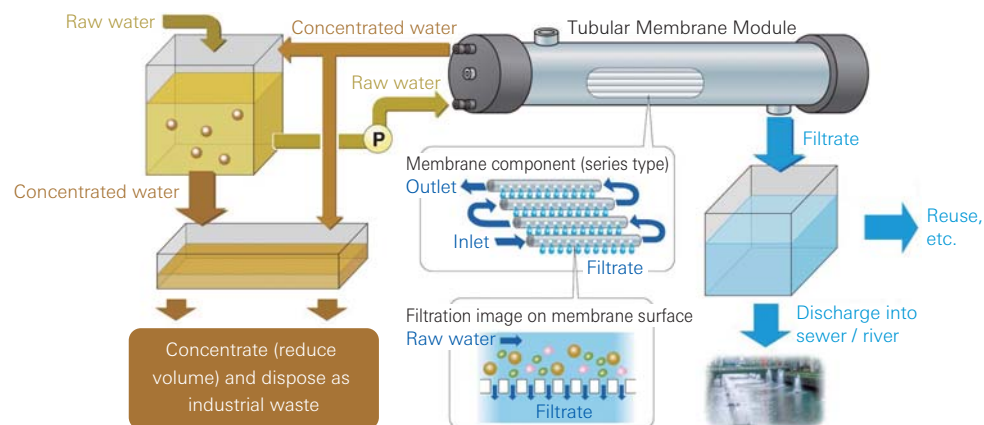
The following items were implemented:

1) water quality analysis and evaluation of the demonstration test to determine the effectiveness in improving water quality, 2) dissemination seminar, and 3) review of plans for commercialization in Vietnam.

Implementation Systems

Japan side	<ul style="list-style-type: none"> • Global Environment Centre Foundation(GEC) • DAICEN MEMBRANE-SYSTEMS Ltd. • Osaka Institute of Technology
Vietnam side	<ul style="list-style-type: none"> • Institute of Science and Technology for Energy and Environment, Vietnam Academy of Science and Technology(VAST-ISTEE) • Vietnam-Japan Institute of Advance Technology(VJIAT), National University of Civil Engineering

Systematic Diagram on Tubular Membrane Module



Support for Tripartite Environment Ministers Meeting among China, Japan and Korea (TEMM) (commissioned by OECC)



The 25th Tripartite Environment Ministers Meeting among China, Japan and Korea (TEMM25) was physically held on 29 September 2024 in Jeju Island, Korea. GEC participated in the TEMM25. At the TEMM25, three Environmental Ministers exchanged their perspectives related to their environmental policies, the actions to address global and regional environmental problems, and the progress of the Tripartite Joint Action Plan (TJAP) 2021–2025 updated and adopted at the TEMM22 held in 2021.



25th Tripartite Environment Ministers Meeting (TEMM25)

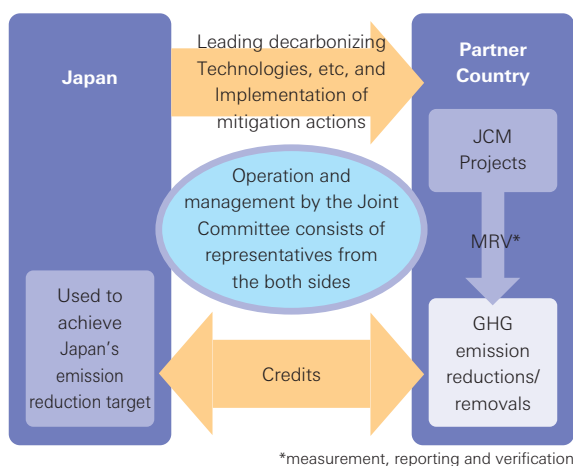
In addition, GEC, as a Japanese implementing agency in charge of the Tripartite Environmental Pollution Prevention and Control Technology Cooperation Network Information Platform, collaborated with Chinese and Korean implementation agencies to operate and maintain the platform, and worked to consider the improvement of the web platform.

What is the Joint Crediting Mechanism (JCM)?

The JCM is a mechanism based on bilateral agreements between Japan and developing countries. It facilitates the diffusion of leading decarbonising technologies, products, systems, services, and infrastructure as well as the implementation of mitigation actions, and contributes to sustainable development in developing countries. It quantitatively evaluates contributions to GHG emission reductions or removals by Japan and uses them to achieve Japan's emission reduction target.

The JCM contributes to the ultimate objective of the UNFCCC by facilitating global actions for GHG emission reduction or removal. As of July 2025, the following 30 countries have signed bilateral documents for introducing the JCM: Mongolia, Bangladesh, Ethiopia, Kenya, the Maldives, Vietnam, Lao PDR, Indonesia, Costa Rica, Palau, Cambodia, Mexico, Saudi Arabia, Chile, Myanmar, Thailand, the Philippines, Senegal, Tunisia, Azerbaijan, Moldova, Georgia, Sri Lanka, Uzbekistan, Papua New Guinea, United Arab Emirates, Kyrgyz, Kazakhstan, Ukraine and Tanzania.

JCM Scheme between Japan and Partner Country



Subsidy Programme for the JCM Facility Introduction



The Ministry of the Environment, Japan (MOEJ) provides financial support for several programmes and activities including the Subsidy Programme for the JCM Facility Introduction to facilitate the development of JCM Projects. GEC is commissioned by the MOEJ to serve as an implementing organisation to manage these programmes and activities.

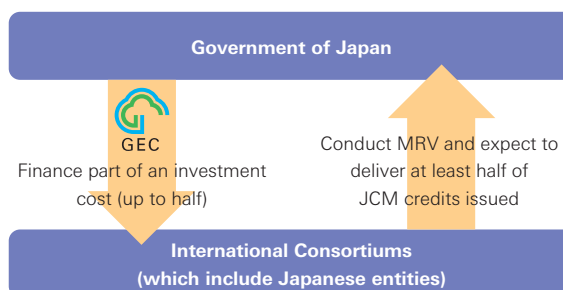
As for the Subsidy Programme for the JCM Facility Introduction, GEC has played the role since 2014.

The purpose of this programme is to financially support the implementation of projects that reduce GHG emissions by utilising leading decarbonising technologies in developing countries, and in return, to seek to acquire JCM credits towards achieving Japan's GHG emission reduction target.

The total number of JCM Projects financially supported by the MOEJ reached 247, including those selected in FY2024. The total expected reduction is 3,316,022tCO₂/year. Of these, 213 projects have started operations and are thus contributing to the reduction of GHG emissions.

Each year, GEC calls for, reviews and selects project proposals for the Subsidy Programme, and manages the

JCM Projects by MOEJ



- Scope of Subsidy: facilities, equipment, vehicles, etc. which reduce CO₂ from fossil fuel combustion as well as construction costs for installing such facilities, etc
- Eligible projects: those starting installation after the adoption of the financing and finishing installation within three years.

selected projects. In FY2024, GEC held open calls for proposals from April through November and selected 17 projects in total in consultation with the MOEJ, as listed in the table below.

JCM Projects financially supported by MOEJ Selected in FY2024

No.	Partner Country	Representative Participant	Title
1	Chile	Farmland Co., Ltd.	12MW Solar Power and 33MWh Storage Battery Project in Rancagua City
2	Thailand	NIPPON STEEL ENGINEERING CO., LTD.	Introduction of Biomass Co-generation System to Chemical Factory
3	Thailand	DAIKI ALUMINIUM INDUSTRY CO., LTD.	Productivity Improvement of Aluminium Ingots Using High Efficiency Furnace System
4	Mongolia	Asian Gateway Corporation	15MW Solar Power and 80MWh Storage Battery Project in Erdene, Dornogovi Province
5	Indonesia	The Kansai Electric Power Company, Incorporated	Introduction of 0.8MW Rooftop Solar Power System to Automotive Parts Factory
6	Palau	SeED Okinawa LLC	Introduction of 0.6MW Solar Power and 0.3MWh Storage Battery to Resort Hotel
7	Indonesia	AGC Inc.	Energy Saving Project in the Automotive Glass Manufacturing Process
8	Indonesia	The Kansai Electric Power Company, Incorporated	Introduction of 1.5MW Rooftop Solar Power System to Food and Automotive Parts Factories
9	Cambodia	MinebeaMitsumi Inc.	20MW Solar Power Project in Krakor, Pursat Province
10	Cambodia	The Chugoku Electric Power Co., Inc.	10MW Solar Power and 3MWh Storage Battery Project in Pursat Province
11	Philippines	TOKAI CORPORATION	4.5MW Mini Hydro Power Plant in Piapi River, Luzon
12	Thailand	MinebeaMitsumi Inc.	104MW Solar Power and 129MWh Storage Battery Project in Bang Pa-in, Ayutthaya Province
13	Thailand	MinebeaMitsumi Inc.	48MW Solar Power and 60MWh Storage Battery Project in Lopburi Province
14	Thailand	Tokyo Century Corporation	Introduction of Solar Power and Heat Battery to Packaging Factory
15	Tunisia	Eurus Energy Holdings Corporation	100MW Solar Power Project in Sidi Bouzid Region
16	Indonesia	Tokyo Century Corporation	Introduction 2.7 MW Solar Power System to Steel Wire Products Factory
17	Indonesia	The Kansai Electric Power Company, Incorporated	Introduction 0.7 MW Rooftop Solar Power System to Automotive Parts Factory

As of July 2025, GEC has selected a total of 247 projects and more than half of the projects have completed the installation of facilities. These projects have been, or are expected to be, registered as JCM Projects, and the GHG emission reductions will be appropriately calculated for issuing JCM credits through a robust process.

Photos from Projects that completed installation in FY2024



Mexico

- Introduction of 0.5MW Rooftop Solar Power System to Automotive Parts Factory (JCM Eco Lease Scheme)
- BOT Lease Co., Ltd.



Philippines

- 27MW Solar Power Project in Dagohoy, Bohol Island
- Kyuden International Corporation



Philippines

- Introduction of 1.2MW Rooftop Solar Power System to Electronic Equipment Assembly Factory (JCM Eco Lease Scheme)
- Tokyo Century Corporation



Indonesia

- Introduction of 3MW Rooftop Solar Power System to Paper Factory in Java Island
- Alampont Inc.



Sri Lanka

- 13.5MW Solar Power Project in Kebithigollewa, North Central Province
- Shibata Corporation Co., Ltd.



Kenya

- Introduction of 2.9MW Rooftop Solar Power System to Food Processing Facilities
- AAIC Japan Co., Ltd.



Kenya

- Introduction of 2.3MW Rooftop Solar Power System to Hatchery, Meat Processing and Battery Facilities
- AAIC Japan Co., Ltd.



Vietnam

- 16MW Mini Hydro Power Plant Project in Binh Thuan Province
- Kanematsu KGK Corp.



Vietnam

- Energy Supply Project by 7.9MW Rooftop Solar Power System to Automotive and Garment Factories
- The Kansai Electric Power Company, Incorporated.



Thailand

- Energy Supply Project by 4.0MW Rooftop Solar Power System to Parts and Tools Factories
- The Kansai Electric Power Company, Incorporated



Philippines

- Energy Supply Project by 4.4MW Solar Power System to Ceramic Factory and Cement Plant
- Marubeni Corporation



Philippines

- Introduction of 0.8MW Solar Power System to Aluminum Products, Packaging Materials and Automotive Parts Factories (JCM Eco Lease Scheme)
- Tokyo Century Corporation



Indonesia

- Introduction of 5MW Solar Power System to Vehicle and Engine Plants
- Toyota Motor Corporation



Vietnam

- Introduction of 5.8MW Rooftop Solar Power System to Fastener Factories
- Marubeni Corporation



Indonesia

- Introduction of 3.1MW Rooftop Solar Power System to Fast-Moving Consumer Goods and Printing Factories in Java Island
- Alampont Inc.



Indonesia

- Introduction of 2.1MW Solar Power System to Steel Wire Products and Aluminum Factories
- Tokyo Century Corporation



Chile

- 9MW Second Solar Power Project in Yungay, Biobio Region
- Eurus Energy Holdings Corporation



Chile

- 9MW Solar Power Project in Teno, Maule Region
- Eurus Energy Holdings Corporation



Vietnam

- Energy Supply Project by 1.8MW Rooftop Solar Power System to Automotive Parts Factory and Construction Materials Factory
- The Kansai Electric Power Company, Incorporated.



Lao PDR

- Introduction of Amorphous High Efficiency Transformers in Power Grid II
- Yuko Keiso Co., Ltd.



Mongolia

- 15MW Solar Power Project in Erdene, Dornogovi Province
- Asian Gateway Corporation



Kenya

- Introduction of 1.7MW Rooftop Solar Power System to Cold Storage Facility and Battery Case Factory
- AAIC Japan Co., Ltd.



Vietnam

- Energy Supply Project by 0.8MW Rooftop Solar Power System to Chemical Factory
- The Kansai Electric Power Company, Incorporated.



Chile

- 28MW Solar Power Project Utilizing PMGD Scheme
- DAIICHI JITSUGYO CO., LTD.



Vietnam

- Introduction of 3.7MW Rooftop Solar Power System to Factories
- Sharp Energy Solutions Corporation



Philippines

- Tanawon 20MW Flash Geothermal Power Plant Project
- Mizuho-Toshiba Leasing Company Ltd.



Vietnam

- Introduction of 6.5MW Rooftop Solar Power System in Industrial Park
- Osaka Gas Co., Ltd.



Indonesia

- 6MW Mini Hydro Power Plant Project in Besay River, Lampung Province
- WWS-JAPAN Co.



Indonesia

- 5MW Hydro Power Project in Bengkulu Province
- Voith Fuji Hydro K. K.



Chile

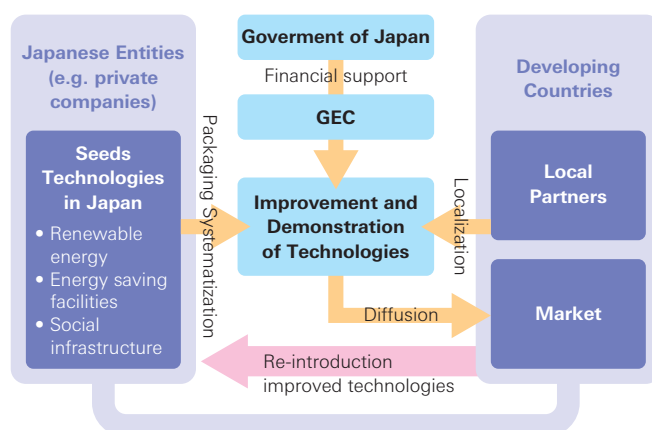
- 25.8MW Solar Power Project in Arica region
- Sharp Energy Solutions Corporation

Financing Programme to Demonstrate Decarbonisation Technology for Realising Co-Innovation



On behalf of the Ministry of the Environment, Japan (MOEJ), GEC began implementing the 'Financing Programme to Demonstrate Decarbonisation Technology for Realising Co-Innovation' in 2019.

This financial support programme aims to create innovations that are beneficial to both Japan and developing countries through collaboration (co-innovation). The goal is to create a low-carbon society by renovating and disseminating high-quality low-carbon technologies (including decarbonising technologies) and products, which are Japan's strengths. This is achieved by systematising and packaging multiple technologies, encouraging their adoption, and consequently bringing benefits to the developers in Japan.



GEC's Activities in FY2024

Since the programme was to be implemented over a five-year period, there was no call for new projects in FY2024, and the ongoing projects were managed and operated.

- Among the eight projects selected between FY2020 and FY2022, three projects remained incomplete by FY2023 and were carried over into FY2024. Of these, one was discontinued due to the withdrawal of the project participants. Consequently, the two remaining projects received advice from the committee. One project, having been completed in FY2024, received guidance on commercialisation, while the other project that was not completed and was carried forward into FY2025, was provided with advice on the forthcoming approach towards completion. As for the final inspection of the project that was completed in FY2024, GEC conducted a review of the final report and made a disbursement of the financial support.

Project Selected in FY2022 (1 Projects)

No.	Country	Project Participants	Progress Status	Title
22-1	Maldives	Kanadevia Corporation (ex. Hitachi Zosen Corporation)	Carried forward into 4th FY	Demonstration of decarbonized seawater desalination system using solar power generation and NAS battery in Maldives

Projects Selected in FY2021 (3 Projects)

No.	Country	Project Participants	Progress Status	Title
21-1	Viet Nam, Thailand	Sumisho Global Logistics Co., Ltd.	Completed in FY2023	Low-carbon cold chain logistics model demonstration project using high performance reefer containers
21-2	Thailand, Viet Nam	Kaneka Corporation	Completed in FY2023	Demonstration project of the stylish and high-efficiency BIPV system to the high-rise building in Thailand
21-3	Malaysia	Sumitomo Heavy Industries, Ltd.	Discontinued in FY2024	Development and Demonstration of a CFB (Circulating Fluidized Bed) Boiler utilizing palm residue as a biomass fuel in Southeast Asia

Projects Selected in FY2020 (4 Projects)

No.	Country	Project Participants	Progress Status	Title
20-1	Mongolia	Zeneral Heatpump Industry Co.,Ltd.	Completed in FY2024	The demonstration of a hybrid source (ground source / solar heat) heat pump heating system for extremely cold regions
20-2	Indonesia, Vietnam	Fukushima Galilei Co.Ltd.	Completed in FY2023	Demonstration of High-performance ventilation, air conditioning, and showcase combined control to Food Supermarket in Asia
20-3	Thailand	Hasegawa Electric Industries Company Limited	Completed in FY2023	Introduction and demonstration of load-linked flow control system technology for existing water-cooled air conditioning systems in hospitals and other buildings in Thailand
20-4	Indonesia	Mikawa Environmental Technology Inc.	Completed in FY2023	Demonstration of GHG-free production of functional activated carbon using coconut-shell by integrating carbonization and activation process

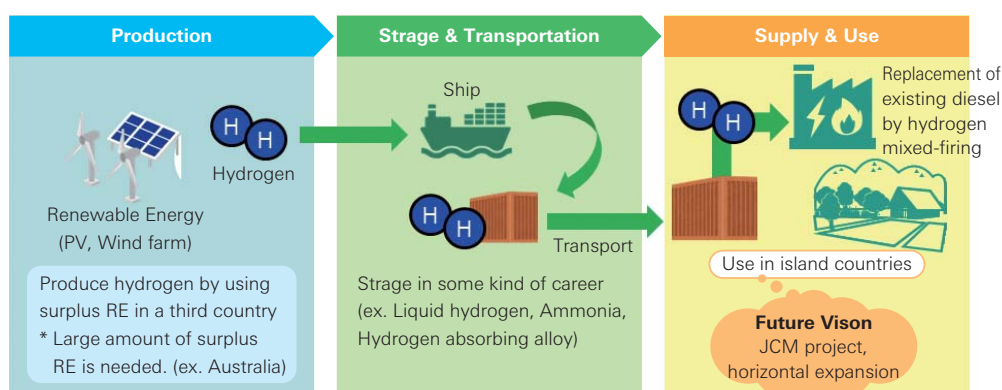


No.20-1: The demonstration of a hybrid source (ground source / solar heat) heat pump heating system for extremely cold regions

Pilot Project for Comprehensive Support throughout the Whole Hydrogen Supply Chain Abroad



This programme started in FY2021 to provide financial support to projects that aims to produce hydrogen in a country with abundant renewable energy, and transport and utilise it in a small island country. The goal of this pilot project is to advance utilisation of hydrogen made with renewable energy while contributing to Japan's GHG emission reduction goals.



GEC's Activities in FY2024

Since the programme was planned to be implemented over a period of three years, a call for new project proposals was not issued. Instead, the focus was on managing and operating the ongoing projects.

- Project management: GEC oversaw the progress of the three projects that had been selected in FY2021 and FY2022 through monthly reports and meetings, and provided suggestions for improvement when needed.



No.22-1: Project for transportation of green hydrogen derived from geothermal power generation in New Zealand to Fiji and utilization of a dual fuel generator

- Committee advice: One project that was completed in FY2024, received commercialisation advice from the evaluation committee, and the other two projects those were not completed and carried forward into FY2025 received advice on the forthcoming approach towards completion.

Project Selected in FY2022 (1 Project)

No.	Country	Project Participant	Progress Status	Title
22-1	New Zealand, The Republic of Fiji	Obayashi Corporation	Completed in FY2024	Project for transportation of green hydrogen derived from geothermal power generation in New Zealand to Fiji and utilization of a dual fuel generator

Projects Selected in FY2021 (2 Projects)

No.	Country	Project Participant	Progress Status	Title
21-1	Australia, Indonesia	Marubeni Corporation	Carried forward into 5th Fiscal Year	Production of economical green hydrogen in South Australia, transportation of hydrogen by metal hydride to Indonesia and utilization of hydrogen through fuel cell in industrial town in Indonesia
21-2	Australia, The Republic of Palau	Sojitz Corporation	Carried forward into 5th Fiscal Year	Demonstration Project on Green Hydrogen Production in Australia, its Transportation to Palau and Utilization by Fuel Cell and Fuel Cell Boat

Demonstration Programme for Application of New Decarbonizing Technology



In this project, demonstration projects will be implemented to promote the introduction of advanced decarbonization technologies (e.g., hydrogen produced with renewable energy) that have not been implemented as JCM projects in the JCM Partner Countries, and conducted Measurement, Reporting and Verification (MRV) of GHG emission reductions. In addition, during or after the demonstration period, the project participant will aim to issue JCM credits for the GHG emission reductions in the country where the demonstration project takes place. Furthermore, within a few years after the completion of the project, next commercial-based projects are expected to be submitted to the “Financing Programme for JCM Model Projects”.

In this first year of the project, after the screening committee consisting of experts approved the screening criteria for adoption, the grant rules were established, and two rounds of call for proposals and evaluation by the screening committee were conducted. After the second round of call for proposals, one candidate was selected for adoption, and after the joint committee of the partner country confirmed that there were no objections to the project outline (Project Idea Note), the project was adopted.

In FY2024, after one round of call for proposal and evaluation by the screening committee was conducted, one candidate project was selected for adoption, and after the joint committee of the partner country confirmed that there were no objections to the project outline (Project Idea Note), the project was adopted.

New Project Selected in FY2024 (1 projects)

No.	Country	Project Participants	Progress Status	Title
24-1	Thailand	Macnica, Inc.	Ongoing	Demonstration Project of Perovskite Solar Cell System in Subtropical Region

Project Selected in FY2023 (1 projects)

No.	Country	Project Participants	Progress Status	Title
23-1	Mongolia	Overseas Environmental Cooperation Center	Ongoing	Demonstration project for green hydrogen production by wind power generation and heat supply using hydrogen boiler

Financing Programme for the Joint Crediting Mechanism (JCM) F-gas Recovery Destruction Model Project in FY2024

This Programme aims to reduce GHG emissions by recovering and destroying hydrofluorocarbons (HFCs) from used machinery, etc., preventing their release into the atmosphere, on the premise that the JCM scheme will be utilised. The Projects aim to contribute to Japan's emission reduction targets by acquiring the GHG emission reductions as JCM credits. This programme was directly executed by the Ministry of the Environment of Japan until fiscal year 2022 and since fiscal year 2023, GEC has been the executing organisation for the financial support programme. GEC opened a call for proposals for projects eligible for the financial support from July 8 to August 23 and conducted document reviews and hearing screening of the applications in order to select projects in consultation with the MOEJ. No projects were selected, and this programme was completed in FY2024.

In FY 2024, GEC engaged in the following activities.

- GEC held open calls for proposals and selected a new project in consultation with the MOEJ and the evaluation committee of experts.
- Call for proposals was announced on GEC website.
- The applications were accepted from July 8 to August 23, and the review process began on August 23.

Based on the results of the screening, no projects were selected.

Financing Programme for the Joint Crediting Mechanism (JCM) F-gas Recovery Destruction Model Project in FY2023

2 projects were completed in FY2024.

Projects Selected During the Fiscal Year 2023 (2 Projects)

No.	Country	Implementer	Title
1	Philippines	Marubeni Corporation	Development of a Fluorocarbon Collection and Destruction Model Project in Metro Manila, Philippines Utilizing Mixed Combustion Technologies
2	Vietnam	Marubeni Corporation	Development of Fluorocarbons collection scheme and installation of mixed combustion decomposition facility in Vietnam

Support for the Efficient Implementation of MRV Activities, Awareness Raising and Promotion for JCM



GEC was commissioned in April 2023 by the MOEJ to support the efficient implementation of MRV activities related to the Subsidy Programme for the JCM Facility Introduction, and to promote understanding and participation in the JCM scheme domestically and internationally.

Support for Efficient Implementation of MRV for JCM

This task involves supporting the process of MRV activities such as JCM project registration and credit issuance of JCM Model Projects. In fiscal 2023, GEC supported 8 project registrations and 13 credit issuances for projects of which facilities were installed in the JCM Model Projects in coordination with the MOEJ, related institutions, and partner countries.



No.1: Development of a Fluorocarbon Collection and Destruction Model Project in Metro Manila, Philippines Utilizing Mixed Combustion Technologies



No.2: Development of Fluorocarbons collection scheme and installation of mixed combustion decomposition facility in Vietnam

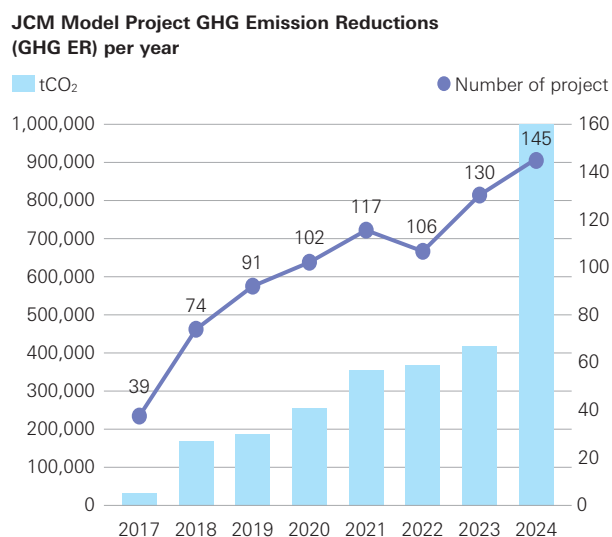
In FY2023, the Joint Committee (JC) with partner countries, which consist of government members of both Japan and the partner country were held with Partner countries and GEC participated the JCs. Since government officials in charge of the JCM came to Japan invited by Ministry of the Environment Japan in February 2024, GEC held face to face bilateral meeting with 21 partner countries and gave presentations on the JCM Model Projects and shared the latest information based on accumulated knowledge and experience as the implementing organisation of the JCM Model Projects.

GEC held a webinar for the representative participants together with the MOEJ, the Institute for Global Environmental Strategies (IGES) and Overseas Environmental Cooperation Centre (OECC) to explain the procedures of MRV activities after completion of installation of the facilities, focusing on the schedule and points to be noted during MRV activities.

Annual Report of JCM Model Project

After completion of facility installation, annual reports of JCM Model Project are submitted by representative participants to report the actual GHG emission reductions. Representative participants also report the reason if the amount of actual GHG emission reductions did not reach the expected amount.

The following figure shows the number of project and the actual GHG emission reductions reported by the annual report of JCM Model Project from 2017 to 2023. Amount of GHG emission reductions in 2024 is app. 100 million ton-CO₂ equivalent and the cumulative amount of GHG emission reductions from 2017 is app. 280 million ton-CO₂ equivalent.



Awareness-raising Activities for JCM

(1) Website and Social Media Platform

• JCM Website by GEC

New additions to the website include a webpage for each JCM Project financially supported by the MOEJ that were newly selected for FY2024, and the webpage for existing projects were updated.

In addition, the webpages for Demonstration Programme for Application of New Decarbonization Technology as well as Finance Programme for F-gas Recovery and Destruction Projects were updated. Lastly, a webpage for the JCM brochure was updated to attract more viewers.

• SNS

39 posts were made on X to disseminate information regarding JCM news and events, which resulted in a total of 1,077 followers as of March 2025.

(2) JCM Seminars in JCM Partner Countries

A series of seminars were held for the attendees in Moldova and Thailand. The seminars were participated by government officials and business leaders from Japan and the above-mentioned countries. It aimed at sharing an overview and progress of the JCM Financing

Programme, and project development and scaling up those future projects.

With this year's theme 'Contribution to GHG Emission Reductions through the JCM', the seminars introduced the JCM Financing Programme as well as good examples of the projects.

Furthermore, individual meetings were held with those who expressed interest, where they received guidance directly from GEC.

- **JCM Seminar in Moldova**

A seminar was held in a hybrid format of face-to-face and online on 26 September 2024 with 84 attendees. GEC received requests for 12 individual meetings where they were provided with guidance on JCM.

- **JCM Seminar in Thailand**

A face-to-face seminar was held on 19 December 2024 with 175 attendees. GEC also received 21 requests for individual meetings where they were provided with guidance on JCM.

In addition, GEC joined the JCM seminars organised by other organisations for Ukraine, Kazakhstan, Chile, Malaysia and Uzbekistan, to discuss the Subsidy Programme for the JCM Financing Programme, JCM Global Match as well as to hold consultation meetings.

(3) Presentation on JCM at International Conferences

- **COP29**

At a side-event organised by the MOEJ, IGES, A6IP Center, GEC, the Ministry of Environment of Switzerland and KliK Foundation on 16 November 2024, on the theme of "Article 6.2 Implementation for High Integrity: Updates, Lessons and Challenges", representatives from GEC acted as a moderator and assisted the logistics and public relations.

- **Global Forum on Stocktaking of the Article 6 Implementation and Linking to Climate Finance: Update on Progress and the Way Forward**

The Article 6 Forum hosted by the National Institute of Green Technology (NIGT) of Korea was held in Seoul, Korea on 12 September 2024. GEC made a presentation on the JCM and Subsidy Programme for the JCM Facility Introduction, and participated in a panel discussion and answered questions.

- **Roundtable Discussion on Advancing Air Quality and Climate Change Co-Benefits for Central Asian Cities**

As part of the Integrated Programme for Better Air Quality in Asia (IBAQ), Clean Air Asia hosted the "Roundtable Discussion on Advancing Air Quality and Climate Change Co-Benefits for Central Asian Cities" on 29 November 2024 in Tashkent, Uzbekistan, where GEC made an online presentation on the Subsidy Programme for the JCM Facility Introduction.

- **Training Workshop on Carbon Markets and Article 6 Implementation**

The Asian Development Bank Institute (ADBI) and UNEP Copenhagen Climate Centre hosted "Training Workshop on Carbon Markets and Article 6 Implementation" in Tokyo, Japan, for government agencies from Asian countries on 9 December 2024, where GEC made a presentation on the JCM and NDC achievement.

(4) JCM Symposium in Japan

Aiming to further expand the JCM and the JCM Financing Programme, the "FY2024 Seminar on Decarbonizing Investment through the JCM and Individual Consultations: Accelerating Toward Net Zero through Public-Private Partnership" was held on 19 March 2025 in a hybrid face-to-face and online format with 334 attendees.

In this seminar, the MOEJ explained the



Moldova JCM Seminar



Thailand JCM Seminar



JCM Symposium in Japan



JCM Symposium in Japan

latest trends of the JCM and its potential for promoting decarbonization investment and the Ministry of Economy, Trade and Industry (METI) explained the Ministry's JCM promotion efforts. GEC also made a presentation on the latest trends and key points for success in Subsidy Programme for the JCM Facility Introduction, in addition to an introduction to JCM Global Match and the procedures for crediting. The seminar concluded with a question-and-answer session, where questions were actively raised. After the seminar, individual consultations on the JCM and Subsidy Programme for the JCM Facility Introduction were held for those who wished to participate.

Promotional Activities for JCM

(1) Identification of Potential Projects, Challenges, and Solutions

• Identification of Large Scale Projects

In order to identify large and effective JCM projects, GEC held consultation meetings with companies that have the ability to develop large scale JCM projects and showed interest in JCM in the past, as well as presentation meetings with business associations. This year, two industrial sectors were selected as potential sectors for large-scale projects, which were power generation companies and gas distribution companies. In addition, the logistics sector was selected to initiate “green” logistic projects, and presentation meetings were held with logistics companies. Through the meetings, we received valuable comments and feedback.

• Surveys

Two surveys were conducted to identify projects that were likely to be submitted for the JCM Model Project in the next few years. The first survey was conducted in July 2024 while second one was in January 2025. The feedback received will be used not only to identify future potential projects, but also to improve the way the JCM is operated.

• JCM Consultation Meetings

Throughout the year GEC met with companies who were preparing to submit JCM proposals. The number of these meetings was 182 in 2024, which was slightly more than that of the previous years.

(2) Renewal of JCM Global Match

GEC continued to improve the user interface of the JCM Global Match, such as enhancement of the browsing function, uploading financing menus of MDBs, and posting news to the information board. GEC also strove hard to gain new users by active public relations such as introduction of the platform in seminars, and the number of users reached 1,038 as of March 2025. GEC helped the users to take a full advantage of the platform by sending monthly magazines and to make successful matching by sending recommendation of matching and weekly reminders to those who had not answered the requests.



Top page of the new JCM Global Match

(3) Enhancement of Relationship with Financial Institutions

It is essential that financial institutions provide funds to JCM Model Projects. It should be also noted that they could let their borrowers set up international consortiums. From this point of view, GEC has been enhancing its approach to its relationship with financial institutions by promoting awareness of JCM, and sharing information of business partners. Major multilateral development banks and international and Japanese financial institutions are paying more attention to the new partner countries and Private Sector JCM. GEC will keep enhancing the relationships with more financial institutions.

(4) Contributing to the SDGs through the Subsidy Programme for JCM Facility

Introduction

GEC conducted a survey with the representative participants whose projects were selected in FY2022 and FY2023 from the perspectives of ‘business and human rights’ and ‘respect for human rights in the supply chain,’ to know the actual situation of their activities. While we confirmed that most initiatives are being implemented, there were inconsistencies in the level of awareness and implementation of human rights respect not only within the companies themselves but also across the entire supply chain, and challenges and difficulties were identified through the survey.

In addition, GEC conducted several on-line interviews and a face-to-face interview to partner participants of the JCM projects with a particular focus on those demonstrating proactive efforts to SDGs. The interview results will be summarised in articles and published on the GEC website as examples of best practices, with information available in both Japanese and English.

Assistance to Ministry of Environment on its Evaluation of Proposals for Japan Fund for Joint Crediting Mechanism (JFJCM)



The Ministry of the Environment, Japan (MOEJ) has been funding the Japan Fund for Joint Crediting Mechanism (JFJCM) established within the ADB since 2014 to accelerate the uptake of advanced decarbonising and low-carbon technologies in developing countries in the Asia and the Pacific region. Commissioned by the MOEJ, GEC provided assistance on the evaluation process for the Initial Project Title and Description (ITD) forms for two potential JFJCM projects (one for Papua New Guinea, and another for Kyrgyz Republic), and provide the MOEJ the technical advice on the Project Idea Notes (PINs) for those potential projects. In addition, GEC assessed the contents of the draft documents for the possible technical assistance to be financed by the JFJCM.

Assistance to Ministry of Environment on its Evaluation of all for Proposals for UNIDO-JCM Programme

The Ministry of the Environment, Japan has been funding the UNIDO-JCM Programme, established within UNIDO in 2022 to accelerate the uptake of advanced low-carbon and decarbonising technologies in Africa. Because UNIDO evaluates proposals independently from the Ministry of the Environment, Japan, GEC did not have an opportunity to assist the Ministry on such evaluations. However, GEC provided assistance to UNIDO and the Ministry when UNIDO renewed its Call for Proposal. Also, GEC supported the Ministry to assess a PIN of a Senegalese project and marketing of the Programme.

Support for Japan Platform for Redesign: Sustainable Infrastructure (JPRSI)

Japan Platform for Redesign: Sustainable Infrastructure (JPRSI) website was launched in August 2020 by the Ministry of the Environment, Japan as a bilingual online network to publish and share information on environmental technology among ministries, local municipalities, private enterprises, financial institutions, international organisations, and academic experts. Up to FY2024, 361 entries (+64 from the last fiscal year) of the technology developed by JPRSI members have been registered in the platform (in English). GEC assisted in improving the user interface of the technology search and other relevant pages.



Page of Technology List of JPRSI

Secretariat Operations of the Joint Committee for JCM

Commissioned by MURC, GEC engaged in “Consultation services related to individual JCM projects, including the Private-Sector JCM Projects” as part of the “Secretariat operations for the Joint Committee on the Joint Crediting Mechanism for Fiscal Year 2024” implemented by the Ministry of the Environment.

The principal roles of GEC included:

(1) Consultation on the preparation of Project Idea Notes (PINs)

GEC have counselled on inquiries about projects concerning the Private-Sector JCM reached through the JCM website (<https://www.jcm.go.jp>). As of March 2025, 45 cases were handled. In the course of these consultations, GEC provided advice on the preparation of PINs and reviewed the drafts before submitting to the Government of Japan.

(2) Arrangement and assistance for the assessment of PINs by the Government of Japan

In addition to PINs for Private-Sector JCM projects, GEC accepted the submission of PINs for the following government-financing projects to administer completeness check.

- ADB’s JFJCM project: 1 provisional project (in Palau)
- JCM Financing Programme for model project: 27 potential projects
- Demonstration Programme for Application of New Decarbonizing Technology” by the Ministry of the Environment, Japan: 1 provisional project (in Thailand)

(3) Revision of the Guidance for the Development of Private-Sector JCM Projects

Based on the knowledge developed through the consultations in the 1) and the assessment of PINs in the 2), GEC drafted the revised version of the “Guidance for the Development of Private-Sector JCM Projects” jointly published by the Ministry of the Environment, the Ministry of Economy, Trade and Industry, the Ministry of Foreign Affairs and the Ministry of Agriculture, Forestry and Fisheries in March 2024. The following sections were added in the revision:

- Revision of the Global Warming Action Plan,
- Crediting period after the adoption of Article 6 of the Paris Agreement
- PIN confirmation process,

GEC participated in the “Regular Talks on Private-Sector JCM” led by the Ministry of the Environment, the Ministry of Economy, Trade and Industry, the Ministry of Foreign Affairs and the Ministry of Agriculture, Forestry and Fisheries, where the draft was presented to the government. The revised Guidance was submitted for review.

Japan International Cooperation Agency (JICA) Group Training Project



Commissioned by JICA, GEC has carried out the “Knowledge Co-Creation Program” for Municipal Solid Waste Management Practice in English as well as in French.

In FY2024, over 10 participants joined the English course (A). This was the largest number of participants since the restrictions on travel to Japan due to the COVID-19 pandemic. Meanwhile, three participants from Djibouti, Mali, and the Democratic Republic of the Congo participated in the French course (B). All three countries have been participating in this training course consistently, and we look forward to continuing our relationship with them in the future.

We will continue to strengthen cooperation with relevant organizations in order to respond to the needs of developing countries, and aim to address the wide range of training programmes for regions where environmental cooperation has been insufficient, such as Central and Eastern Europe and the former Soviet Union, in addition to African countries.

Municipal Solid Waste Management Practice (A), (B)

Training Dates / Participants	Programme
<Course A (English)> <ul style="list-style-type: none"> Distance learning: 8 May – 11 June 2024 In Japan: 12 June – 18 July 2024 11 participants from 9 countries: Brazil (2), Kenya, Laos, Liberia (2), Papua New Guinea, Sudan, Turkey, Ukraine, Zambia 	<u>Objective</u> To develop leaders and core people who will play a major role in the planning and execution of waste management projects in their own countries. <u>Collaborators</u> Osaka City Environment Bureau, Kyoto City Environment Policy Bureau, Fukuoka University, Osaka Metropolitan University Hospital, Osaka Waste Management Authority, Nantan City Yagi Bioecology Centre, Senri Recycle Plaza, Fukuoka Environment Foundation, EX Research Institute Ltd., Takakura Environment Research Institute, Kansai Recycling Systems Co., Ltd., Nomura Kohsan Co., Ltd., Kobe Environmental Creation Co., Ltd., Kanadevia Corporation, Osaka Gas Co., Ltd., etc.
<Course B (French)> <ul style="list-style-type: none"> Distance learning: 30 September – 5 November 2024 In Japan: 6 November – 7 December 2024 3 participants from 3 countries: Djibouti, Mali, DR-Congo 	<u>Lectures</u> Waste Management Administration in Japan, Waste Management in Osaka City, Environmental Hygiene in Developing Countries, Semi-aerobic Landfill Technologies, Improvement of Municipal Solid Waste Collection, 3Rs Approach, Disaster Waste Management, etc. <u>Site Visit / Practical</u> Former Landfill Site, Bio-gas and Composting Facilities, Takakura Composting Method, Developing Environmental Education Materials, Resource Recycling Facility, Bio-methanation Demonstration Plant, Medical Waste Treatment Plant, Drop-off Collection Station in Kyoto City

GEC Networking Project for Former Training Course Participants



Since FY1998, GEC has established a GEC Overseas Ex-participant Network in order to provide follow-up and accurately understand the current needs in developing countries. We are working to reinforce the network by operating a member website and organising local follow-up seminars.

In order to introduce the latest training materials as much as possible to network members, we have started distributing mainly on-demand training materials (video files) created for JICA programme through SNS.

In FY2024, 11 members from course A (English) and 3 members from course B (French) were newly registered, respectively.

Distance learning

Due to the Covid-19 pandemic from 2020, online distance learning using the Internet is being implemented to substitute for the training in Japan. From FY2022, after the pandemic, the training programme has been combined with distance learning, such as the use of on-demand materials prior to training in Japan.



Workshop for Developing Environmental Education Materials



Lecture on Semi-aerobic Landfill Technology



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