

Contributions to SDGs through JCM Projects

Collection of Good Practice Cases

February 20, 2026

Global Environment Centre Foundation

Case #1 Contribution towards SDGs through JCM Model Projects



Selected Year: 2021

Host Country: Vietnam

Project Title: Waste to Energy Project in Bac Ninh Province

Representative Participant: JFE Engineering Corporation

Partner Participant: T&J Green Energy Company Limited

(Project Information URL ↓)

https://gec.jp/jcm/projects/21pro_vnm_01/



Project Overview:

The first waste-to-energy facility jointly funded by Japanese and Vietnamese companies.

The project involves the introduction of a large-scale waste-to-energy facility in Bac Ninh Province, Vietnam, with a processing capacity of 500 tons per day and a power generation output of 11.6 MW. The facility will be managed and operated by T&J Green Energy Company Limited ('T&J'), a joint venture (SPC: Special Purpose Company) established by JFE Engineering Corporation ('JFE') and Thuan Thanh Environment Joint Stock Company ('TT'), the largest waste management company in the north of the country.

The new facility will incinerate 230 tons per day of general waste generated and disposed of as landfill in the area, as well as 120 tons per day of general waste and 150 tons per day of industrial waste currently incinerated at other facilities to generate electricity. The project contributes to the proper disposal of waste in

Vietnam and enables power generation without the use of fossil fuels, thereby reducing methane emissions at landfill sites and reducing greenhouse gases by replacing fossil fuel-derived electricity with renewable energy. The construction of the plant started in 2022 and the plant will be operational in the first quarter of 2024.

【Motivation and background behind the contribution towards SDGs】

As a local company in Vietnam, T&J is committed not only to addressing climate change and taking environmental pollution prevention measures through this project, but also to contributing to the local community. Since the start of the project, the company has been actively building relationships with the neighboring communities and conducting a wide range of activities, including sustainable community development. Based on a survey by a consulting company, the number of neighboring households expected to be affected by the project has been identified as 111, and T&J's community activities are directed at these households.

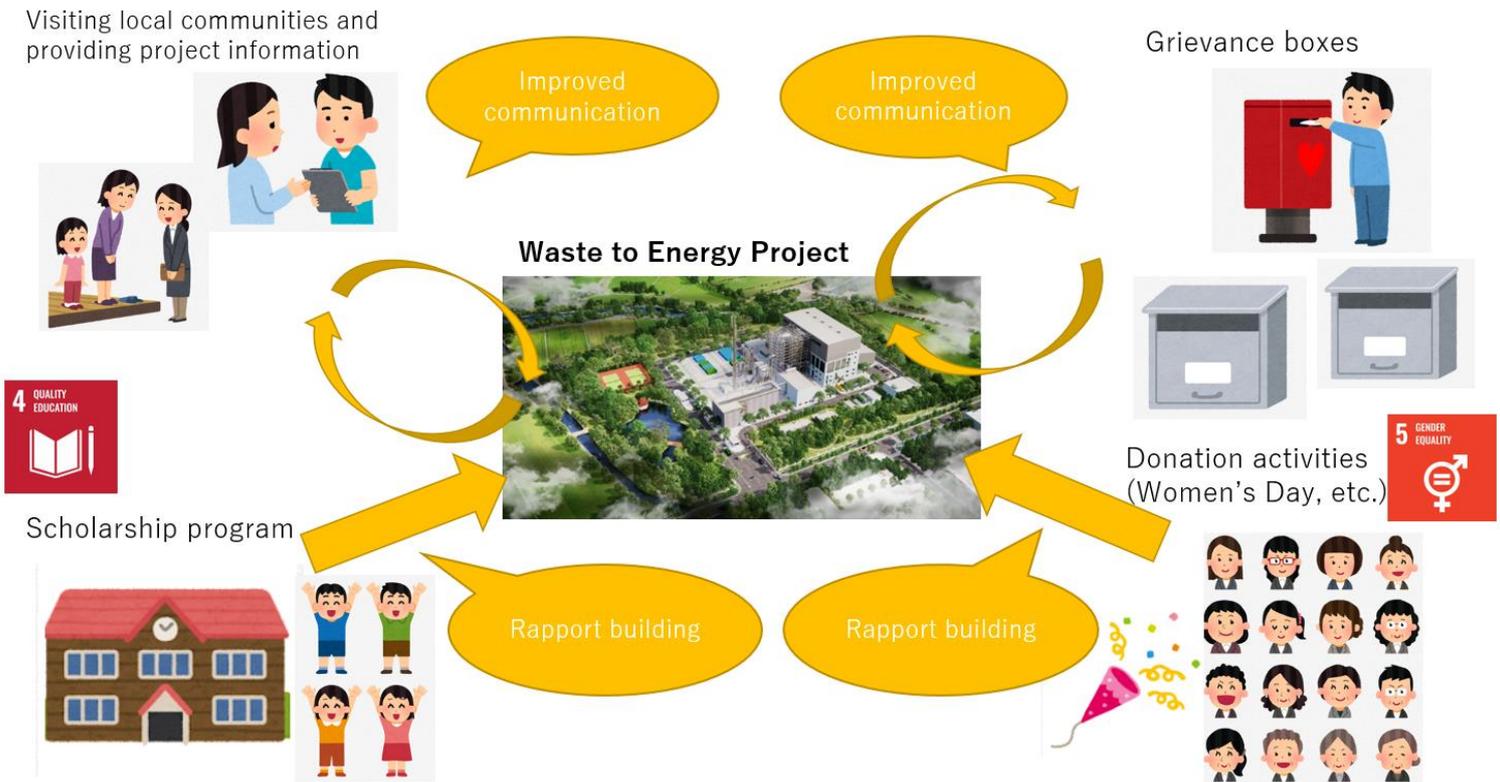
【Community Activities】

In addition to the initiatives that T&J has voluntarily undertaken as part of its corporate social responsibility and in line with the importance it places on relations with the residents living near the project location, these initiatives have been enhanced at the request of local authorities and the International Finance Corporation (IFC), which provides financing to T&J. Taking into account Vietnamese culture and customs, T&J's Vietnamese staff take the lead in community-based activities.

(i) Introduction of Community Grievance Redress Mechanism: Grievance boxes have been set up in a total of seven locations in six villages in neighboring areas and at the project site, which are directly and easily accessible to residents. To date, there have been zero complaints received. Grievances and complaints can also be communicated by phone and on the website at any time.

(ii) Building relationships through communication with the residents of the six neighboring villages affected by the project and the local authorities in the area. T&J staff visit the local residents to explain the project and listen to their opinions, comments and also, their complaints or grievances, if any. Similarly, the project is also explained and reported to the local authorities.

(iii) As community development, T&J have made donations to support the vulnerable communities (poor and elderly) and local communities at some special events such as on Vietnamese Women's Day (celebrated on 20 October in Vietnam) and at traditional festivals. T&J has also prioritized employment from the neighboring communities. Activities currently under consideration include offering scholarship to children from unprivileged families (tuition support) and installation of street lighting in the surrounding area as a safety measure at night.



【Benefits gained through T&J's SDGs initiatives】

As mentioned above, no grievances have been received from neighbors to date, and T&J has established good relations with the neighboring communities so that any problems can be dealt with immediately if they arise. Building relationships with local communities is essential when conducting business. In this respect, the Vietnamese staff in charge of local initiatives at T&J are highly trusted by their neighbors and are recognized as members of the community. Seeing the positive outcome of T&J's initiatives in Vietnam leading to the development of local communities and the improvement of residents' lives is expected to motivate shareholders to reinforce its SDGs initiatives in the future. Creation of employment opportunities is particularly a meaningful initiative in the context of sustainable development, with two of T&J's seven staff members are from the surrounding communities and more positions are planned to be created for local employment when the facility is operational.



①

①&② T&J Staff communicating with local residents



②



③



④



⑤

③,④&⑤
T&J's gift donation events at local villages for the Vietnamese Lunar New Year and Women's Day

Contribution to SDGs through JCM Model Project (2)



Selected year: 2021

Partner Country: Philippines

Project Title: Tanawon 20MW Flash Geothermal Power Plant Project

Representative Participant: Mizuho-Toshiba Leasing Company Ltd.

Partner Participant: Bac-Man Geothermal Inc.

(Project Outline URL ↓)

https://gec.jp/jcm/projects/21pro_phl_02/



Project Outline :

This is a geothermal power generation project by a Japanese company Mizuho-Toshiba Leasing Company Ltd. and a partner company Bac-Man Geothermal Inc. (BGI), which is a subsidiary of Energy Development Corporation(EDC), the Philippines pioneer and the largest vertically integrated geothermal company in the world the Philippines.

In this project, BGI introduces a new 20 MW Flash Geothermal power plant system and new facilities for connection to the grid at Tanawon area of southern part of the Luzon island, providing a reliable power source to fulfill the power demand in the area.

This project promotes fuel diversification to improve safety and supply capacity of energy, which is the strategic direction of the Department of Energy on the Philippines. The use of renewable and sustainable energy resources to reduce dependence on oil imports, and shifting to advanced clean technology will contribute to the significant reduction of air pollution and greenhouse gas emissions.

【Background of tackling SDGs through JCM Model Project】

EDC experienced a devastating damage by a huge super typhoon HAIYAN (Yolanda) in 2013, and led by its parent company First Philippine Holdings decided to rethink its mission. Thus, they started various activities for SDGs to mitigate the global climate change aiming to realize renewable and decarbonized future. EDC generates low carbon power to reduce the grid's emission intensity to let nature to rehabilitate and to protect people's well-being

EDC key stakeholders are the following five: ①Customers, ②Co-Creators, ③Earth, ④Communities, ⑤Investors. Without serving the stakeholders properly, the EDC business has potential risks in the financial and material aspects for sustainable growth.

In order to maintain steady growth and steady management of the business while keeping good reputation in the society, fulfilling the social responsibility and holding trust among customers, EDC commits to support to the five pillars of SDGs: Planet, People, Prosperity, Peace and Partnership.

【Specific Activities for SDGs】

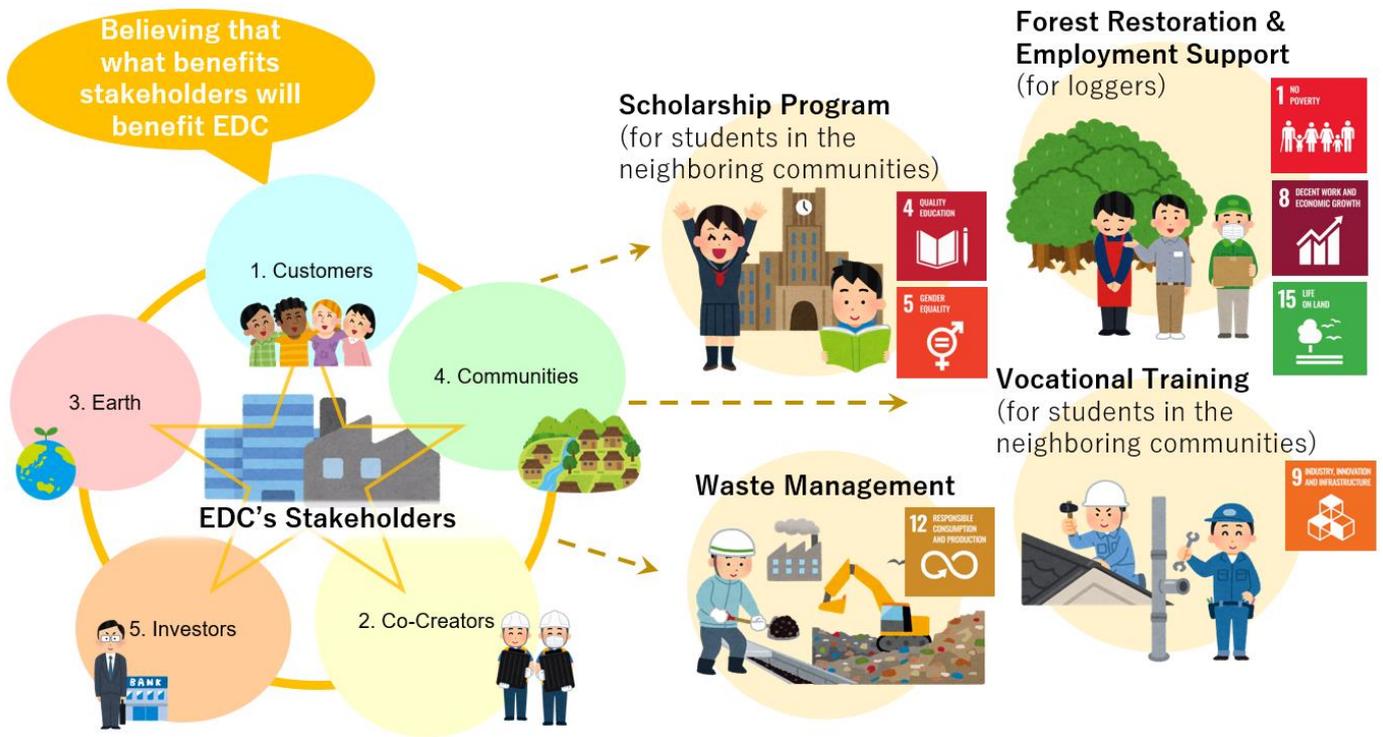
- ① Stop illegal logging and deforestation: Illegal logging escalates the decrease of the forest, which will increase the risk of natural disasters such as landslides. EDC provides the loggers alternative ways to make living. EDC also protects and restore forests in geothermal concessions. The restored forests now absorb 1.5 million tonnes of carbon dioxide a year to mitigate climate change. They also promoted Manito Mangrove Ecotourism and completed the improvement of facilities which allowed the assisted cooperative (ALBAFA) launch and its Manito mangrove River Cruise on September 7, 2023.



- ② Provide scholarship: EDC provides high-school students living in the communities near the geothermal plant scholarships to enable them to receive college/university education. The monthly support is 6,000 PHP for supplies, meals and transportation expenses. Laptop PCs are also provided to assist their study. They continued support to 70 college scholars from the 64 barangays of Sorsogon city. Security Bank account enrollment and stipend processing is ongoing.
- ③ Provide vocational training: EDC provides high-school students living in the communities near the geothermal plant vocational training for their immediate livelihood. Every year, about 100 students receive the training, which helps them to obtain stable jobs with higher salaries. Procurement of materials (tools and consumables) for turnover to Rizal Integrated National School in December 2023 is ongoing.

Providing higher education opportunities to the local students brings advantages not only to the recipients but also the provider. The recipients can get higher education, and the provider can get good human resources. The college/university graduates with this scholarship accumulates over 200, some of them joined the EDC group companies. Those finished vocational training accumulates over 1000 in ten years. They are working in the EDC-related jobs or are endorsed to other companies to ensure all are employed.

- ④ Waste Management in the EDC group : Various wastes such as office trash, business machines, small electric appliances, bottles, cans and plastics are strictly separated and reused or recycled. EDC group is promoting plastic recycling, which is not yet popular in the Philippines.



【Advantages through SDGs Activities】

The waste management in the workplace changes the mindset of the workers contributing to reduction of waste volume in the workplace. Wastes emit carbon emissions that also cause climate change.

Case #3 Contribution towards SDGs through JCM Model Projects



Selected Year: 2013

Host Country: Mongolia

Project Title: Upgrading and Installation of Centralized Control System of High-efficiency Heat Only Boiler (HOB)

Representative Participant: Suuri-Keikaku Co., Ltd.

Partner Participant: Anu-Service

(Project Information URL ↓)

https://gec.jp/jcm/projects/13pro_mgl_01/



▲ High-efficiency Heat Only Boilers (HOBs) installed in Bornuur soum (district).

Project Overview:

By replacing old low-efficiency heat supply boilers in public facilities to contribute not only to reducing GHG emissions but also other air pollutants in the surrounding environment.

This project was implemented by Suuri-Keikaku Co., Ltd. to replace low-efficiency, old-type boilers with the latest high-efficiency heat only boilers (HOBs) at the 118th School in Ulaanbaatar city and to install the centralized heat supply system with the latest HOBs in hospitals and other public facilities in Bornuur, a rural area near Ulaanbaatar city. At Bornuur site, the HBOs were connected by piping and electrical works and a centralized control system was installed to manage and optimize the operation based on the temperature and oxygen content of the exhaust gas. Technical guidance by Japanese engineers was also provided to transfer boiler operation technology. The improved boiler efficiency has reduced the consumption of coal as the boiler fuel, CO₂ emissions and other air pollutants.

As a result of the recognition of the effectiveness and significance of the project, the upscaling of the central heating system and the installation of central water and sewage systems are being planned in Bornuur.



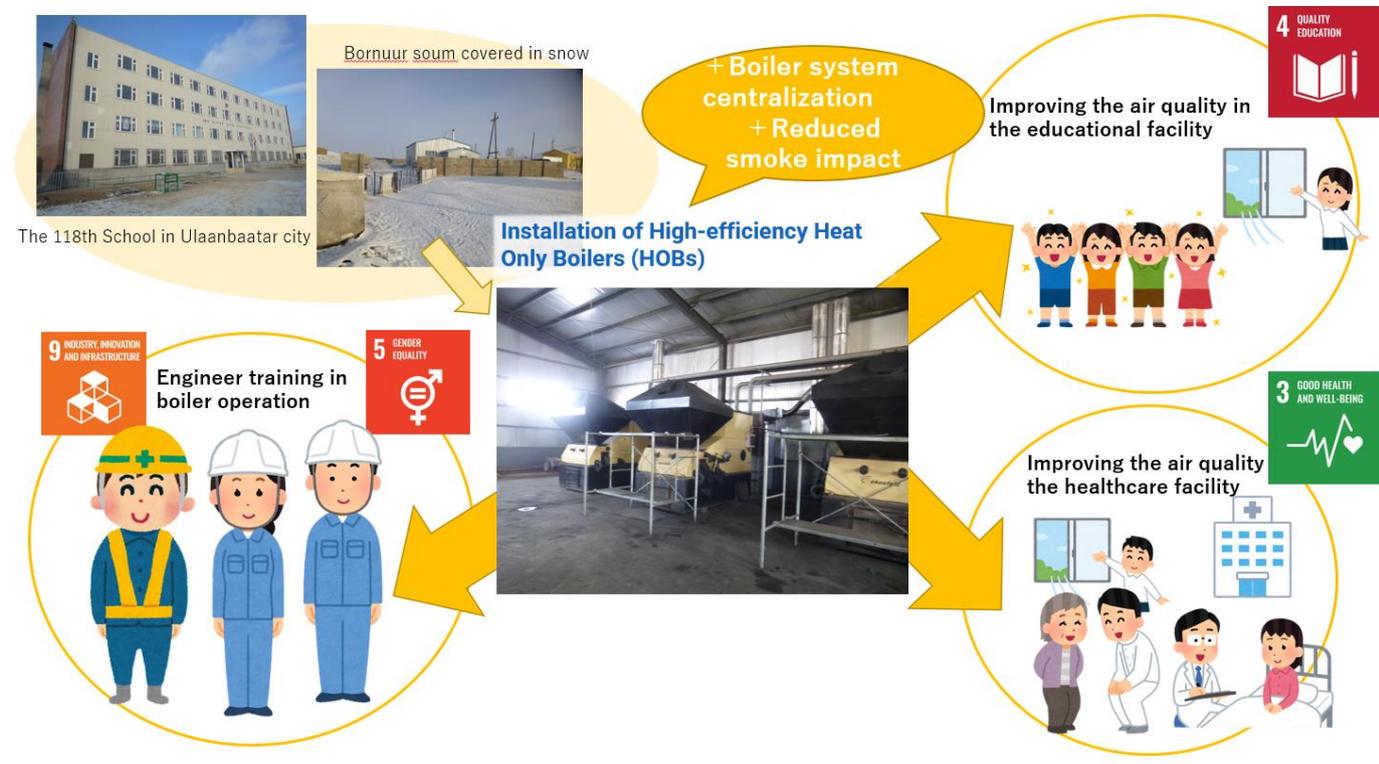
▲ The 118th School in Ulaanbaatar city (to the right) and boiler building (to the left)

【Motivation and background behind the contribution towards SDGs】

“When we started the research for this project in 2011, it was before the SDGs were born, thus we, as an environmental consultancy company, were not focusing on aligning with the SDGs themselves, but we implemented the project to reduce environmental impact in line with our vision”, says Mr. Kuwahara from Suuri-Keikaku Co., Ltd., who oversaw the project. In Mongolia, winter is severely cold, heating systems are indispensable as living infrastructure. As there is a large demand for heating systems throughout the country, improving the efficiency of the systems, and reducing environmental impact and GHG emissions, etc. are important themes among environmental issues in the country. A few years after

the start of the project, the term SDGs gradually became more common after the 2015 UN Summit, and we were happy as Suuri-Keikaku Co., Ltd. to be able to re-evaluate this project as a project that can contribute to the SDGs.

【Contribution towards the SDGs -in the areas of education, healthcare and industrial revitalization-】



(i) Introducing the latest HOBs as well as increasing the height of the chimney have reduced the amount of coal smoke and odor emitted from the boilers, allowing children to study comfortably at school.

(ii) The supply of hot water for heating to the hospital, which was introduced in a regional centralized manner instead of individual heating systems for each facility, has enabled medical treatment away from the smoke and odor emitted from the heating system, creating a healthier environment for the hospital users.

(iii) Japanese engineers provided training of data-based boiler operation optimization techniques and maintenance methods to the local engineers, laying the groundwork for the diffusion of the HOBs technology locally.

Regarding gender equality, the percentage of women entering university is higher than that of men in Mongolia. Against this background, many women are playing an active role in the office of Anu-Service, the Partner Participant of this project. On the other hand, more men are employed in the field of high-efficiency boiler operation, as the work of carrying coal and monitoring it 24 hours a day in three shifts requires physical strength.



▲ Hospital in Bornuur where HOBs were installed.

【Benefits gained through SDGs initiatives -as an environmental consultancy with experience in JCM Model Project -】

According to Mr. Kuwahara from Suuri-Keikaku Co., Ltd., one of the benefits of having implemented the JCM Model Project that can contribute to the SDGs, is that the company, as an environmental consultancy, has been able to demonstrate that it is an environmentally and community-friendly project. Furthermore, the fact that the effects of the project are expanding lead by local initiative, with subsequent projects being implemented, has given the company confidence that it has indeed implemented a project that will improve the quality of lives of the local people.

The 118th school will switch to district heating from the local power plant in accordance with the Mongolian Government's policy, and the HOBs installed in the project will be relocated to Ughtaalsaidam soum (district), 150 km northwest of Ulaanbaatar city, to supply heating for the town hall, school, boarding house, kindergarten, cultural center, flats, etc. The relocation work is currently underway with the aim of starting operation in autumn 2023. The relocated boiler will be properly managed by Anu-Service, the Mongolian Partner Participant of the project, and its operational status will be monitored using heat meters to ensure efficient operation.

Case #4 Contribution towards SDGs through JCM Model Projects



Selected Year: 2021

Host Country: Thailand

Project Title: Introduction of High Efficiency Once Through Boiler to Garment Factory

Representative Participant: Osaka Gas Co., Ltd.

Partner Participant: OSAKA GAS (THAILAND) CO., LTD. and Parfun Textile Co., Ltd.

(Project Information URL ↓)

https://gec.jp/jcm/projects/21pro_tha_01/



Project Overview :

The garment factory requires a large amount of heat during the dyeing and drying processes.

This project aims to reduce greenhouse gas (GHG) emissions by replacing the existing water tube boilers with high-efficiency once-through boilers at the garment factory of Parfun Textile Co., Ltd. in Nakhon Pathom province, converting the fuel from coal to natural gas.

The use of steam is essential in the dyeing and drying processes in garment factories. Until now, coal combustion water tube boilers have been used to produce steam at the factory of Parfun Textile Co., Ltd. in Nakhon Pathom province, where there are many areas where natural gas pipelines have not been laid, and factories in these areas mainly use coal or oil as fuel. However, with the global trend towards decarbonization, Parfun Textile Co., Ltd. became increasingly aware of the importance of low-carbonization and decarbonization of its products, and it was

around that time Parfun Textile Co., Ltd. received a proposal from OSAKA GAS (THAILAND) CO., LTD. to introduce high efficiency once-through boilers at their factory, converting to natural gas, a low-carbon fuel. Even though the price of fuel would increase, Parfun Textile Co., Ltd. decided to take a step forward to replace the coal-fired water tube boilers with natural gas-fired once-through boilers to fulfil its corporate social responsibility by taking environmental measures and contributing to society, and to contribute to low carbon emissions in Thailand and the world.

【Motivation and background behind the contribution towards SDGs】

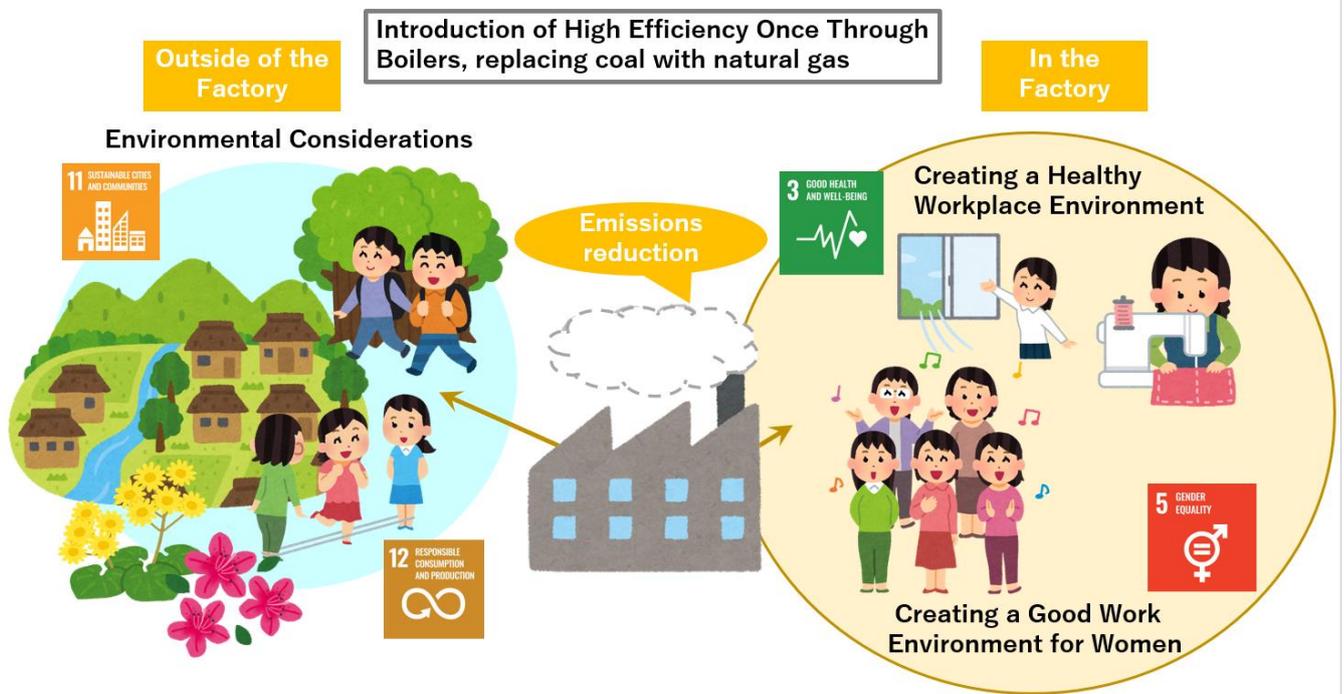
Environmental considerations for the surrounding area of the factory

- ✓ The production of garments requires a lot of energy, so the environmental impact cannot be ignored.
- ✓ The impact on the surrounding environment is a matter of particular concern. There were complaints from neighbors about the odor caused by coal fuel, but after the introduction of the natural gas-fired once-through boilers, no complaints have been received.
- ✓ The switch to natural gas-fired once-through boilers has resulted in cleaner soot emissions and reduced the impact on the surrounding environment.

Workplace environment

- ✓ 95% of the employees working at Parfun Textile Co., Ltd. are women.
- ✓ Efforts are made to create a good work environment for women.
- ✓ The company has struggled with how to keep the workplace environment clean, as the yards where coal is stored can be dusty.
The use of natural gas eliminates the need for coal storage, which contributes to keeping the factory clean at all times.

【Initiatives of Parfun Textile Co., Ltd.】



【Benefits gained through the SDGs initiatives】

Contribution to the low carbonization of products

- ✓ Parfun Textile Co., Ltd. has established initiatives and targets for reducing CO₂ emissions from the energy used to manufacture its garment products, and regularly reports to its business partners on the implementation plan and results in achieving these targets, which is highly appreciated.
- ✓ Parfun Textile Co., Ltd. feels that it is contributing to global environmental protection through significantly reducing the carbon footprint of its products by converting coal fuel to natural gas.

(Future prospects of Parfun Textile Co., Ltd.)

- ✓ We would like to consider not only low and decarbonization for heat demand, but also decarbonization for electricity demand.
- ✓ We believe that continuous environmental measures are essential as an important mission of the company and are in the process of installing a solar power generation system as our next project.

(Future prospects of the Representative Participant, Osaka Gas Co., Ltd.)

- ✓ We would like to actively engage in introducing rooftop solar systems, etc. to our factories around the world.

Case # 5

Contribution towards SDGs through the JCM Project



Selected Year	2022
Host Country	Kenya
Project Title	Introduction of 3.1MW Rooftop Solar Power System to Food Processing Facilities
Representative Participant	AAIC Japan Co., Ltd.
Partner Participants	Unga Holdings Limited / Unga Limited / Unga Farm Care (E.A.) Limited

(Project Information URL ↓)
https://gec.jp/jcm/projects/22pro_ken_01/



▲ Solar panels installed at UNGA's feed processing facility in Nakuru County

【Project Summary: Solar Power Equipment to Be Installed on Factory Rooftop by Utilizing the JCM Project Financially supported by MOEJ】

This project involves the installation of a total of 3.1 MW of solar power systems across four grain milling facilities and three feed processing facilities located in Nairobi County, Eldoret County, and Nakuru County in the Republic of Kenya. By generating and consuming electricity on-site, the project reduces reliance on grid electricity and contributes to the reduction of greenhouse gas (GHG) emissions.

【Motivation and background for taking on the SDGs: A Business Rooted in the Vision of ‘Taking Responsibility for the Future and the Environment’】

UNGA Group has embraced the philosophy of “taking responsibility for the future and the environment” and has been actively promoting the Sustainable Development Goals (SDGs) since around 2020. According to Mr. Anton, who kindly participated in this interview, the company began its sustainability journey by gaining a basic understanding of carbon footprints and assessing water usage and waste emissions at its factories. Building on this foundation, UNGA introduced energy-saving measures at all of its facilities, which also involved phasing out outdated equipment as part of process improvements. The economic benefits derived from these SDG initiatives have also played a significant role in motivating the company to continue its efforts.

【SDGs-related initiatives: From energy conservation to greywater utilization】

Each factory is engaged in a variety of sustainability efforts. Key initiatives include:

1. Promoting the use of renewable energy at all factory sites.
2. Installing underground tanks to collect rainwater, which is reused as greywater for toilets and irrigation purposes.
3. Monitoring waste disposal and the volume of defective products being reworked, and introducing process improvements to minimize waste.
4. Partnering with a local Kenyan company to collect and recycle vinyl packaging materials generated at the company’s facilities.

【Business and Stakeholder Benefits from SDG Initiatives: Driving Cost Reductions through Sustainability】

UNGA realizes that its SDG initiatives have resulted in significant cost savings, which have enhanced the company’s overall competitiveness. As such, the company considers its own business operations and shareholders to be the primary beneficiaries of these efforts. Moreover, the reduction in energy costs through the adoption of energy-efficient equipment has helped offset expenses related to landfill use and waste disposal.



▲ Solar panels installed at the UNGA factory near Nairobi

【Future Challenges for SDG Initiatives: Promoting the Use of Renewable Energy】

UNGA has set a target of generating 28% of its total energy consumption from renewable sources. However, progress has been uneven across its factories, with some being slower to adopt solar power generation (PV). Additionally, the impact of recent climate conditions—such as a prolonged rainy season and lower-than-usual temperatures in 2024—has hindered solar output, resulting in a current renewable energy ratio of only 9%. The company recognizes that further efforts are necessary to reach its target.

In addition, UNGA has been working on the SDGs, so relatively easy measures are already in place. However, economic barriers to initiatives such as energy-saving measures are expected to be a major challenge in the future due to the impact of rising prices.

【About the JCM Project financially supported by MOEJ】

The JCM Project financially supported by the MOEJ, played a crucial role in making this project a reality. Without this support, it would have been difficult to carry out the project as planned or to introduce equipment that exceeded the originally envisioned specifications. For this reason, UNGA expresses its deep appreciation for the support provided through the JCM Project



7 AFFORDABLE AND CLEAN ENERGY



13 CLIMATE ACTION



Transitioning to clean energy



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



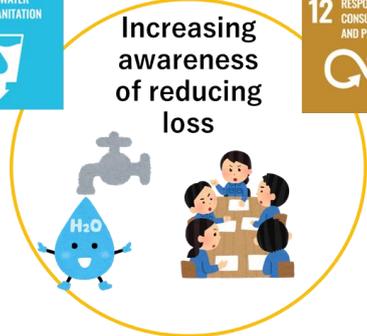
Raising awareness about waste



6 CLEAN WATER AND SANITATION



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



Increasing awareness of reducing loss

Case #6 Contribution towards SDGs through JCM Projects



Selected Year: 2023

Host Country: Mexico

Project Title: Introduction of 0.5MW Rooftop Solar Power System to Automotive Parts Factory (JCM Eco Lease Scheme)

Representative Participant: BOT Lease Co., Ltd.

Partner Participant: KUROTA MEXICO, S.A. DE C.V.
BOT FINANCE MEXICO, S.A. DE C.V., SOFOM, E.N.R.

(Project Information URL)

https://gec.jp/jcm/projects/23pro_mex_01/



▲ PV Panels installed on Rooftop of KUROTA MEXICO Factory

Project Overview

The first JCM Eco-Lease Project in Mexico

This project is to install a 0.5 MW solar power generation system on the roof of an automotive parts factory, replace part of the grid electricity consumption with renewable energy, and contribute to reducing greenhouse gas (GHG) emissions.

BOT FINANCE MEXICO, S.A. de C.V. SOFOM E.N.R., which is one of group companies of representative participant, has entered into a sale-and-lease-back agreement with the KUROTA MEXICO, S.A. DE C.V. and provided the finance leasing.

[Initiatives related to SDGs]

BOT Lease Co., Ltd. (hereinafter referred to as 'BOT Lease') implements the following initiatives related to environment, labour, social contribution, and recycling activities.

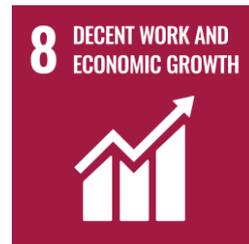
1. Environment

BOT Lease has identified 'Climate Change Response and Environmental Conservation – Achieving Carbon Neutrality' as a key priority. Under this policy, BOT Lease promotes initiatives related to renewable energy and energy-efficient and fuel-efficient properties, aiming to achieve a decarbonised society. Additionally, starting in the 2023 fiscal year, target amounts for initiatives related to sustainable finance have been disclosed on their website (domestic initiatives only). The JCM Eco-Lease project also serves as a clear example of their efforts overseas, making it a significant appeal.



2. Labour

BOT Lease has established internal systems to promote diversity and inclusion. For employees in Japan, e-learning on codes of conduct and other topics in accordance with MUFG rules, as well as training by external lecturers are conducted regularly. (e.g., study sessions on renewable energy).



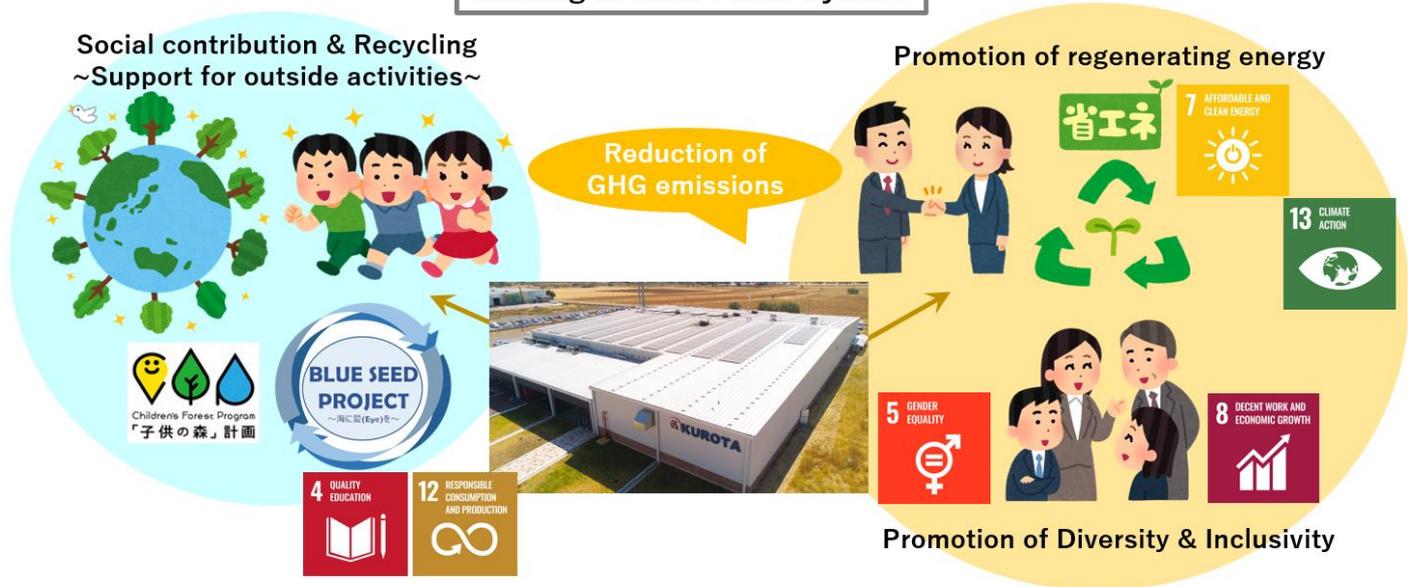
3. Social contribution

BOT Lease donates the proceeds from the re-lease agreement to the 'Children's Forest project' implemented by the International NGO (OISCA: The Organization for Industrial, Spiritual and Cultural Advancement-International). This project aims to support tree planting activities and environmental education in the Asia-Pacific region, with the goal of fostering a love of nature in future generations.

4. Recycling activities

BOT Lease participates in the 'BLUE SEED PROJECT' to collect empty disposable contact lens cases. This project is an initiative to address the problem of plastic waste by recycling the collected cases, with the proceeds donated to marine litter prevention efforts.

Leasing of Solar Panel System



【Benefits for businesses and beneficiaries resulting from SDG initiatives】

As the first JCM Eco-Lease project in Mexico, BOT Lease had an opportunity to introduce this project at the JCM seminar held in Mexico in November 2022. This has led to an increase in inquiries about the subsidy programme for the JCM facility introduction not only in Mexico and Japan but also in other JCM partner countries such as Indonesia, the Philippines, and Thailand. (Inquiries have come from seminar attendees and major Japanese machinery manufacturers, among others.)

- The increase in inquiries has helped raise awareness among employees and national staff stationed overseas about SDGs initiatives.
- BOT Lease provides training opportunities in Japan for national staff overseas every year. In the 2024 fiscal year, a two-hour training session on ESG/SDGs was conducted. Participants showed a high level of interest and listened attentively.
- Additionally, through this project, we have established support from companies with which we previously had limited contact, fostering positive relationships. These partnerships now extend beyond Mexico to Japan and ASEAN countries, where we are collaborating in SDG promotion initiatives at each other's overseas offices.

【Challenges in implementing SDG-related activities】

It is challenging to balance the core business of a leasing company—finance (short-term revenue)—with achieving SDGs. While some customers understand the importance of decarbonisation efforts associated with capital investments, there is a dilemma in that these efforts do not necessarily translate into pricing strategies. Therefore, we are considering leveraging subsidy programmes, but the variety of such programmes makes it difficult to fully understand them, which is another challenge.

Regarding the subsidy programme for the JCM facility introduction, the use for technologies other than solar power is perceived as having complex methodologies and high barriers to entry. However, we are exploring the possibility of collaborating with external partners to explore methodologies for technologies other than solar power.

Case #7 Contribution towards SDGs through JCM Project



Selected Year: 2022

Partner Country: Viet Nam

Project Title: 40MW Onshore Wind Power Generation Project in Lao Bao Commune, Quang Tri Province

Representative Participant: Shizen Energy Inc.

Partner Participant: Shizen International Inc.
Hai Anh Trading and Technologies JSC
Hai Anh Quang Tri Wind Power JSC

(Project Overview URL ↓)

[40MW Onshore Wind Power Generation Project in Huong Hoa District, Quang Tri Province | JCM The Joint Crediting Mechanism](#)



▲ Onshore Wind Power Project Owned and Operated by Hai Anh Quang Tri Wind Power JSC

Project Overview

The first Wind Power Project under JCM Projects financially supported by MOEJ

This project installed onshore wind power generation facilities with a capacity of 40 MW in Lao Bao Commune, Quang Tri Province, jointly implemented by Shizen Energy Inc. (hereinafter referred to as SHIZEN) and its Viet Nameese partner Hai Anh Trading

and Technologies JSC (hereinafter referred to as Hai Anh T&T) for the JCM Subsidy Programme.

SHIZEN's subsidiary and Hai Anh T&T jointly established Hai Anh Quang Tri Wind Power JSC (hereinafter Hai Anh SPC) in Viet Nam to operate and maintain this wind power project. The electricity is sold to the Vietnam Electricity to increase the share of renewable energy in the national grid, which contributes to reducing dependence on fossil fuel power generation and greenhouse gas (GHG) emissions in Viet Nam. This project marks the first wind power project under JCM Projects financially supported by Ministry of the Environment of Japan.

Activities taken by Hai Anh SPC as the principal entity for the Wind Power Project

[Activities related to SDGs]

Hai Anh SPC implements the following activities:

○ Supply of Clean Energy (Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all, among others)

As a direct contribution, Hai Anh SPC generates and supplies renewable energy, thereby contributing to the goal of ensuring access to affordable, reliable, sustainable, and modern energy.

○ Local Hiring and Working Conditions (Goal 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all, among others)

Hai Anh SPC prioritizes local hiring and supports regional economic development. Out of 24 employees, 20 are locally hired, which contributes to improving the skills of local residents and creating stable income opportunities. Also, creating fair and stable employment leads not only to regional economic growth but also promotes meaningful, fulfilling work. Furthermore, a safe and inclusive work environment and flexible work arrangements have been provided for the employees, in compliance with the regulation in Viet Nam concerning the prevention of harassment in the workplace.

○ Women's Empowerment (Goal 5: Achieve gender equality and empower all women and girls, among others)

Hai Anh SPC supports women's participation in the workforce and leadership. Out of the 24 employees, 4 are women. Two of these women play important roles as Accounting Manager and Legal Manager. Hai Anh SPC is also committed to ensuring equal opportunities for women and men in hiring, promotion, and career development. There is no gender pay gap for the same job duties.

○ Education and Training (Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all, among others)

Education and training, including lectures by local experts, On-the-Job Training (OJT), and field experience at other existing wind power plants, are provided for employees to enhance their skills. These include safety training, technical training, and training in the operation, inspection and replacement of Supervisory Control and Data Acquisition (SCADA) systems. Also, acquiring skills in new technologies and safety procedures will continuously be provided.

○ Prioritizing Local Companies in Procurement (Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation, among others)

Utilizing local companies is prioritized for procurement related to construction, transportation, maintenance, facility management and others. This contributes to strengthening the local industry and supply chain.

○ Transfer of Expertise and Knowledge to Local Partners (Goal 17: Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development, among others)

Specialized technical skills and knowledge are planned to be transferred to Hai Anh T&T, through Hai Anh SPC, by management system and workshops on best practices. These activities contribute to strengthening its capabilities, enhancing its technical skills, and improving its ability to effectively manage and operate renewable energy projects.

○ Support for local schools, agriculture, and communities (Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all, Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation, Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable, among others)

Additionally, Hai Anh SPC provided computers to a local school, constructed an agricultural road, and donated to local cultural and community facilities.



▲ Provision of computers to a local school

[Activities related to Business and Human Rights (including Human Rights in Supply Chain)]

Hai Anh SPC implements the following activities:

○ Continuous Engagement with Suppliers

The suppliers are continuously encouraged to improve their business process through regular audits, workshops, and ongoing dialogue. Also, worker's complaints handling system has been introduced.

○ Regular Meetings with Local Residents

Hai Anh SPC developed a plan to hold regular meetings with local residents and to address their concerns.

[Insights gained through the Project and future outlook]

Hai Anh SPC gained the following insights through this project and intends to apply them to future activities:

○ Motivation, Adaptability and Growth Potential of Local Workers and Enterprises

Local workers are motivated and quick to understand. By investing in their skills, Hai Anh SPC aims to build sustainable industries in Viet Nam. Local enterprises also demonstrate high adaptability and growth potential. For example, one agricultural worker obtained certification as a qualified wind turbine technician through training. Also, one local company is successfully addressing Viet Nam's unique requirement to comply with both international and domestic electrical standards.

○ Business Success and Social Environmental Impact

The success of a business requires not only the operation of power generation projects but also consideration of its social and environmental impacts. Hai Anh SPC believes that integrating SDGs and human rights activities into business operations is essential for both business success and community engagement.

○ Adapting to Changing Regulations and Dialogue with Government Agencies

Through this project, Hai Anh SPC learned that adapting to evolving regulations was essential and that the government agencies were open to dialogue and provided numerous opportunities to it. Currently, the constraint of the grid connection capacity remains one of key challenges moving forward.