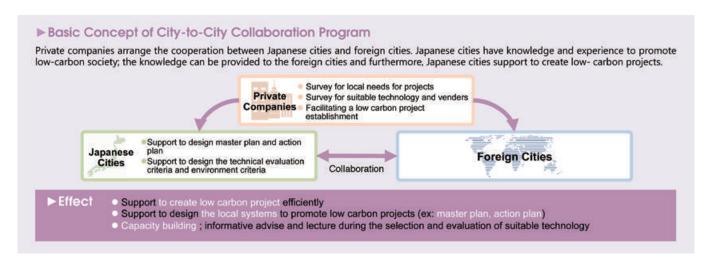


Overview of City-to-City Collaboration Programme for Low Carbon Society

The accelerated growth of population and urbanization in Asia is causing problems of road traffic, solid waste management and air and water pollution. Torrential rains, flooding, landslides and droughts are intensifying and all of them are considered as a result of climate change. Cities are the source of more than 70% of global CO₂ emissions, and furthermore, Asia is expected to be responsible for the half of global CO₂ emissions by 2050. Many Asian cities are also vulnerable to climate change. Therefore, the development of sustainable and low-carbon Asian cities is a crucial and urgent global challenge.

Under the above circumstances, the Ministry of the Environment, Japan (MOEJ) launched the "City-to-City Collaboration Programme for Low Carbon Society" in 2013. The programme supports the low-carbon city development in developing countries by transferring the knowledge and experiences of Japanese cities through city-to-city collaboration and identifying leading low-carbon technologies that can be introduced to the counterpart city with MOEJ's financing programme (see page 9) for the Joint Crediting Mechanism (JCM). The programme also offers the opportunities of capacity building for city government officials through the partnership building, project development and workshops/seminars.

Since cities are home to various types of infrastructure, technology, products and systems, low-carbon city development can bring benefits not only for climate change mitigation but also the improvement of living quality by ameliorating urban environments and services.



Joint Crediting Mechanism (JCM)

Joint Crediting Mechanism, JCM, is a means to facilitate the diffusion of leading low-carbon technologies, products, systems, services and infrastructure as well as the implementation of mitigation actions in developing countries of the JCM partners. The GHG emission reductions or removals produced by the JCM project is evaluated in a quantitative manner and used to achieve emission reduction targets towards the ultimate objective of the United Nations Framework Convention on Climate Change (UNFCCC).

List of City-to-City Collaboration Programme for Low Carbon Society in FY2017

Fukushima – Ayeyarwardy, Myanmar

Study on Feasibility of Solar Power Generation System and Solar Powered Lowcarbon Water Treatment System, and Promotion of Activities in Ayeyarwady Region

Implementation Body: Mitsubishi Research Institute, Inc.

Fukushima – Ayeyarwardy and Sagaing, Myanmar

Study on Feasibility of a Low-carbon Waste Treatment System and Microgrid System and Promotion of Activities under Inter-regional Collaboration in Ayeyarwady Region and Sagaing Region.

Implementation Body: Mitsubishi Research Institute, Inc.

Kanagawa – Phnom Penh, Cambodia

02

Methane Fermentation and Power Generation Project of Organic Waste Discharged from Markets

Implementation Body: Kojimagumi Co., Ltd.

Kawasaki – Yangon, Myanmar		
04	Project for Low Carbonization of Waste Management	Implementation Body: Nippon Koei Co., Ltd.
05	Project for Introduction of High-efficiency Pumps into Existing Pumping Station	
06	Waste to Energy Plant Project for Yangon City in Myanmar	Implementation Body: JFE Engineering Corporation
Kawasaki – Jakarta, Indonesia		
07	Promotion on Green Innovation through City-to-city Collaboration	Implementation Body: Nippon Koei Co., Ltd.
Yokohama – Bangkok, Thailand		
08	Feasibility Study for Assisting Ports in Thailand to Reduce CO ₂ Emission and to Become "Smart Ports"	Implementation Body: Yokohama Port Corporation
Yokohama – Batam, Indonesia		
09	Project for Development of Low–carbon City through City-to-City Collaboration between Batam and Yokohama (Support of Green City Policy of Batam by Introduction of Smart LED Streetlighting System and Green Buildings)	Implementation Body: Nippon Koei Co., Ltd.
Toyama – Semarang, Indonesia		
10	Project toward Compact City Transportation System in Semarang, Indonesia	Implementation Body: Pacific Consultants Co., Ltd.
11	Project toward Resilient City by Solution-oriented Low Carbon Technologies Regarding Disaster Reduction, Environment and Energy Saving in Semarang, Indonesia	
Osaka – Ho Chi Minh, Viet Nam		
12	Support for Low Carbon Promoting Projects through City-to-City Collaboration between Osaka and Ho Chi Minh (Promoting Energy Saving Technologies)	Implementation Body: Oriental Consultants Co., Ltd.
Osaka – Quezon, Philippines		
13	Support for Low Carbon Promoting Projects through City-to-City Collaboration between Osaka City and Quezon City (Promoting Solar Power Generation and Industry Energy Saving Technologies)	Implementation Body: Oriental Consultants Co., Ltd.
Kitakyushu – Phnom Penh, Cambodia		
14	Project to Realize Low Carbonization in Phnom Penh Capital City, through Introduction of Saving Energy Technologies and Renewable Energies (Kitakyushu-Phnom Penh Capital City Cooperation Project)	Implementation Body: NTT Data Institute of Management Consulting, Inc.
Kitakyushu – Mandalay, Myanmar		
15	Project to Realize Low Carbonization in Mandalay Region, through Introduction of Saving Energy Technologies and Renewable Energies (City of Kitakyushu- Mandalay City Cooperation Project)	Implementation Body: Nikken Sekkei Civil Engineering, Ltd.
Kitakyushu – Chiang Mai, Thailand		
16	Introduction of High Efficient Waste Processing Facility under Integrated Waste Management Plan in Chiang Mai, Thailand	Implementation Body: EX Research Institute Limited
17	Project to Realize and Expand Low Carbonization Model Projects in Ecological Industrial Town by Using JCM in Chiang Mai Province (Kitakyushu- Chiang Mai Cooperation Project)	Implementation Body: NTT Data Institute of Management Consulting, Inc.
Kitakyushu – Hai Phong, Viet Nam		
18	Project to Accelerate Low Carbonization in Hai Phong City (Kitakyushu-Hai Phong Cooperation Project)	Implementation Body: NTT Data Institute of Management Consulting, Inc.

REPUBLIC of the UNION of MYANMAR

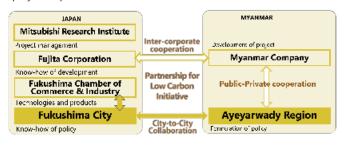
F K SHIMAX

O1 Study on Feasibility of Solar Power eneration System and Solar Powered the UNION of MYANMAR Low-carbon ater Treatment System, and Mitsubishi Research Institute Inc.

Promotion of Activities in Ayeyarwady egion

Mitsubishi Research Institute, Inc.

Under the "Partnership for Low-Carbon Initiative in Ayeyarwady" with Fukushima City, the applicability of solar power generation system and solar powered decentralized water treatment system to new industrial parks is studied. The study also suggests to support local efforts on creating regional water treatment system through capacity building and planning support for the project implementation.



Pro ect Outline

- Local needs survey
- Information sharing on Japanese experiences, know-how and technologies for utilization
- Feasibility study of rice husk power generation project
- Estimation of GHG emission reduction potential
- Consideration of project and policy proposal
- ▶ Policy dialogue and workshop



Field study in Fukushima City



O2 Study on Feasibility of a Low-carbon aste Treatment System and Micro-grid System and Promotion of Activities under Inter-regional Collaboration

Mitsubishi Research Institute, Inc. in Ayeyarwady egion and Sagaing egion

Under the inter-regional collaboration between Ayeyarwady region and Sagaing region and the collaboration with Fukushima City, the feasibility studies on a low-carbon waste treatment system (e.g. power plant projects using fuels such as rice husks) and a micro grid system are conducted. The study also facilitates local efforts on creating regional waste treatment system and local distributed self-reliance power system through capacity building and planning support for the project implementation.



Pro ect Outline

- ▶ Local needs survey
- Information sharing on Japanese experiences, know-how and technologies for utilization
- ▶ Feasibility study of rice husk power generation project
- Estimation of GHG emission reduction potential
- ▶ Consideration of project and policy proposal
- ▶ Policy dialogue and workshop



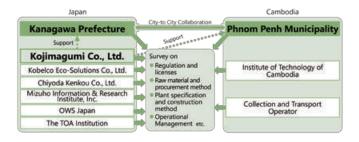
KINGDOM of CAMBODIA

O3 Methane Fermentation and Power eneration Pro ect of Organic aste ischarged from Markets Kojim

Kojimagumi Co., Ltd.

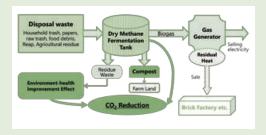
KANA A A× PHNOM P NH

Most landfill waste in Phnom Penh are composed of organic wastes such as trash papers and agricultural residues. The feasibility study on co-generation business through dry methane (CH4) fermentation is conducted to optimize the waste treatment system in Phnom Penh. Generated renewable energy is used for electricity sales and heat supply for surrounding facilities. The project aims to reduce GHG emissions significantly from disposal site.



Pro ect Outline

- ▶ Improvement of air and water quality by reducing the amount of organic-waste to be landfilled
- ▶ Reduction of CH₄ emission by recycling organic waste
- ▶ Generation of clean energy



Organic Waste Treatment by Dry Methane Fermentation in Phnom Penh

04 Pro ect for Low Carbonization of aste Management

the UNION of MYANMAR

KA ASAKI ×
YAN ON

REPUBLIC of

Yangon signed a Memorandum of Understanding (MOU) with Kawasaki in March 2016 to promote the city-to-city collaboration and create low carbon society. In this project, the optimization of garbage collection route is considered by measuring the amount of garbage in garbage bins and containers with the real-time sensors. The collected garbage is efficiently transformed into fuels for energy generation at a recycle facility.



Pro ect Outline

- Transformation of garbage into feeds, fertilizer, fuel, etc., through fermentation and drying process with indigenous microbes
- Optimization of garbage collection route in Yangon with Internet of Things (IoT) technologies

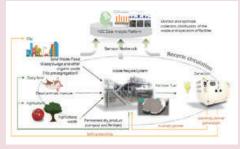


Image of Smart Waste Recycle

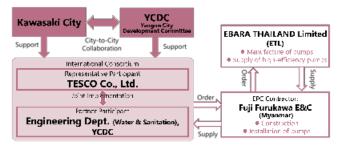


O5 Pro ect for Introduction of High-efficiency Pumps into isting Pumping Station

Nippon Koei Co., Ltd.

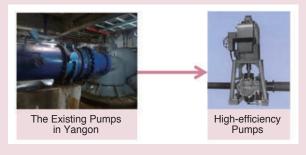
Nippon Koei Co., Ltd.

Yangon signed a Memorandum of Understanding (MOU) with Kawasaki in March 2016 to promote the city-to-city collaboration and create low carbon society. As a pilot project of the low carbon action plan, high-efficiency pumps are planned to be installed into the existing pumping stations. This project contributes to GHG emission reduction and efficient management of supply in Yangon.



Pro ect Outline

- To install new high efficiency pumps as replacement of existing aged pumps
- To save electricity consumption (more than 20%) compared to existing condition
- ▶ To contribute to stable water supply in Yangon city





aste to nergy Plant Pro ect for Yangon City in Myanmar

JFE Engineering Corporation

KA ASAKIX YAN ON

Yangon signed a Memorandum of Understanding (MOU) with Kawasaki in March 2016 to promote the city-to-city collaboration and create low carbon society. This project aims to realize sustainable society by introducing a large-scale waste-to-energy power plant developed in Japan. This technology contributes not only to reduce GHG emissions but also to overcome the electric power shortage in Yangon.



Pro ect Outline

- ▶ Research for social and economic situations
- ▶ Research for legal systems
- ▶ Planning of large scale of waste-to-energy power plant
- Feasibility evaluation
- ▶ Planning of business scheme



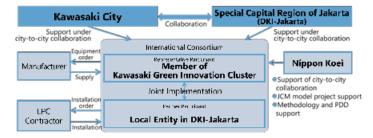
First Waste to Energy Plant in Myanmar constructed by JFE Engineering Corporation

REPUBLIC of INDONESIA

07 Promotion on reen Innovation through City-to-City Collaboration

KA ASAKI>

The project formulation study is conducted to examine the possibility of installing energy efficiency technologies in office buildings / factories in Jakarta. The study aims not only to diffuse advanced low-carbon technologies but also to develop mid-and-long-term city-to-city collaboration relationship between Jakarta and Kawasaki through sharing knowledge and know-how between them.



Pro ect Outline

To conduct researches in the area of office buildings / factories with possible application of energy saving technologies.

Nippon Koei Co., Ltd.

To identify technologies which could reduce emission of CO₂ by achieving energy efficiency of office buildings / factories, such as temperature control in the furnace with a sensor system, solar power generation, LED lights, etc.



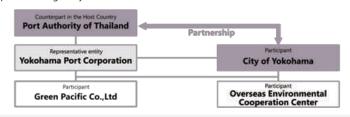
Introduction of technologies considered under the study



Feasibility Study for Assisting Ports in Thailand to educe CO₂ mission and to Become "Smart Ports" **Yokohama Port Corporation**

YOKOHAMA

The Port Authority of Thailand (PAT) has been working on an environmental initiative called "Green Port Project" to realize environmentally friendly port. This feasibility study (FS) will contribute to the progress of the project by utilizing experience and know-how at the Port of Yokohama. This FS is to apply low carbon efforts and smart ports initiatives by utilizing advanced low carbon technologies and services, etc., which were proven at the Port of Yokohama, to major ports in Thailand such as Bangkok Port, Leam Chabang Port and other ports managed by the PAT.



Pro ect Outline

- Aiming for the realization of implementation the Smart Port which uses energy efficiently by linking LED lighting and electric / hybrid cargo-handling equipment with PV power generation.
- Studying GHG emission reduction amount and business profitability after the low carbon facilities is introduced.







LED Lighting



YOKOHAMA

Pro ect for evelopment of Low-carbon City through City-to-City Collaboration between Batam and Yokohama (Support of reen City Policy of Batam by Introduction of Smart L Street Lighting System and reen Buildings)

Nippon Koei Co., Ltd.

Batam and Yokohama signed the Letter of Intent in 2015 to promote technical cooperation. Since then, two city governments, Batam Indonesia Free Zone Authority (BIFZA) and Institute for Global Environmental Strategies (IGES) formed a task force to realize the smart and green island of Batam. This study is conducted to formulate projects for installing smart LED street lightings and introducing green buildings. The study also supports drafting Mayor's regulations for continuous promotion of these green technologies in Batam.



Pro ect Outline

- Installing smart LED street lighting system with functions of dimming and remote monitoring
- Introducing green technology for shopping malls and office buildings
- Developing strategies for standardization of LED street lights and green buildings in Batam



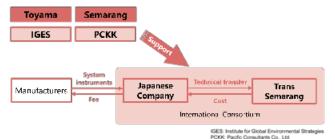
Optimal energy efficiency platform based on the needs of users

REPUBLIC of INDONESIA

Pro ect toward Compact City Transportation System in Semarang, Indonesia

Pacific Consultants Co., Ltd.

This study aims to formulate a project to build a low-carbon transportation system in Semarang by applying knowledge and experiences of Toyama City on the "Compact City Public Transportation System". The study also supports the revision of Semarang's Regional Transportation Plan toward the future vision to introduce the Light Rail Transit (LRT) based on the knowledge and experiences of Toyama City.



Pro ect Outline

Improvement of operation efficiency of existing Bus Rapid Transit (BRT). Promoting modal shift from private vehicles and motorbikes.

[Operation Improvement plan]

- Introduction of IC cards Separation and remodeling of doors
- for entrance and exit
- Bus location system
- Introduction of information provision



Conversion of existing diesel BRT to compressed natural gas (CNG) bus

Remodeling existing BRT (diesel fuel) to CNG bus to reduce GHG emissions by fuel conversion.

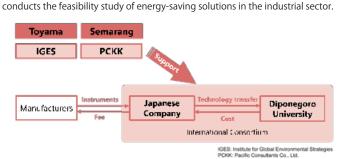
[Accompanied plan] Construction of CNG stations





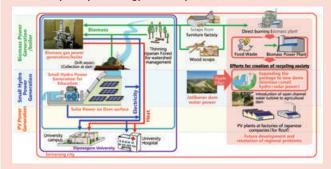
Pro ect toward esilient City by Solution-oriented Low Carbon Technologies egarding isaster eduction, nvironment and Pacific Consultants Co., Ltd. nergy Saving in Semarang, Indonesia

The study aims to formulate a project to introduce a combined renewable energy system consisted of micro hydro power (MHP)/biomass/solar power generation to the Deponegoro University together with the human resource development to overcome urban vulnerability. The knowledge of Toyama City, as the Environmental Future City, is shared with Semarang under the City-to-City Collaboration and as members of 100 Resilient Cities. The project team also



Pro ect Outline

- ▶ Installation of MHP generator with the water flow management technologies with PV power generators
- Installation of biomass power generator with waste management
- Feasibility study for energy efficiency in the industrial sector

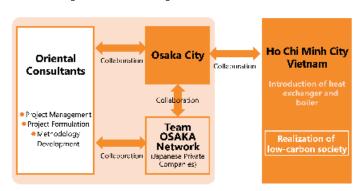




HO-CHI MINH

Support for Low Carbon Promoting Pro ects through City-to-City Collaboration between Osaka and Ho Chi Minh Oriental Consultants Co., Ltd. (Promoting nergy Saving Technologies)

Support for the implementation of Ho Chi Minh's Climate Change Action Plan is being provided through the City-to-City Collaboration between Osaka and Ho Chi Minh. As part of the action plan, feasibility studies are being conducted for the introduction of low-carbon technology such as heat exchangers and once-through boilers.



Pro ect Outline

- ▶ Factory energy auditing
- Introduction of heat exchanger and boiler



HAIPHONG

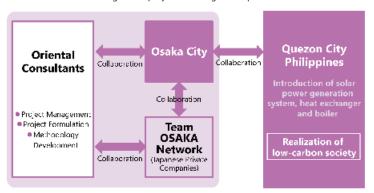
Re of the PHILIPPINES

13 Support for Low Carbon Promoting Pro ects through City-to-City Collaboration between Osaka City and Quezon City

(Promoting Solar Power eneration and Industry nergy Saving Technologies)

Oriental Consultants Co., Ltd.

Through the City-to-City Collaboration between Osaka and Quezon, a feasibility study on solar power generation and energy saving in factories is being conducted and a JCM manual for facilitating future projects is being developed.



Pro ect Outline

- ▶ Introduction of solar power generation
- Factory energy auditing
- ▶ Introduction of heat exchanger and boiler





14 Pro ect to ealize Low Carbonization in Phnom Penh Capital City, through Introduction of Saving nergy Technologies and enewable nergies

NTT Data Institute of Management Consulting, Inc.

Under the framework of the sister city agreement between Kitakyushu and Phnom Penh, this project aims to low-carbonize Phnom Penh through making a proposal that meets the demand of a company for cutting energy-cost and creating an ESCO type business model, which combines financial service and reduces the cost burden of customers.



Pro ect Outline

- Customized proposal for large enterprises which have needs for energy cost reduction
- Proposal of Energy Service Company (ESCO) type business model packaged with financial services



Study of Waste Heat Recovery System for Cement Plant



15 Pro ect to ealize Low Carbonization in Mandalay egion, through Introduction of Saving nergy Technologies and enewable nergies

Nikken Sekkei Civil Engineering LTD.

(City of Kitakyushu- Mandalay City Cooperation Pro ect)

(Kitakyushu-Phnom Penh Capital City Cooperation Pro ect)

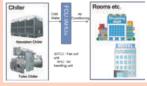
Under the cooperative relationship between Mandalay and Kitakyushu, the feasibility studies (FS) are conducted for 1) the introduction of biomass power generation using agricultural waste, livestock excreta, etc. and 2) the introduction of energy saving (ES) and renewable energy (RE) technologies such as PV to large-scale hotels, commercial facilities, etc. Significant GHG emissions reduction is expected though promoting the introduction of ES and RE technologies in Mandalay.



Pro ect Outline

- FS for biomass power generation utilizing agricultural waste
- FS for biogas power generation utilizing livestock excreta
- ▶ FS for ES and RE technologies at large-scale facilities
- ▶ FS for distributed energy system using RE
- Research of local needs related to low carbonization and environmental conservation other than energy sector



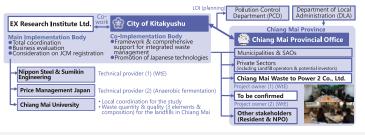


reta Image of High Efficiency Chiller Installation

16 Introduction of High fficient aste Processing Facility under Integrated aste Management Plan in **EX Research Institute Limited**

This study is implemented with the purpose of improving the waste management system in Chiang Mai province through (1) the promotion of 3Rs activities and (2) appropriate waste processing and disposal by accelerating proper infrastructure development. City of Kitakyushu introduces their experience and know-how in waste management to local authorities in the province, and conducts the feasibility study on the projects of Waste to Energy plant (WtE) and Biogas Digester with Japanese companies.

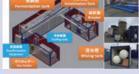
Chiang Mai, Thailand



Pro ect Outline

- Promotion of WtE and biogas collection and utilization unit to be introduced in the province
- ▶ WtE plant for waste management centres in large scale, such as a plant with capacity of 500 tons/day combustion + 8MW power generation for the landfill located in the southern part of the province
- ▶ Biogas plant for waste management centre in small size





Waste to Energy Plant (Nippon Steel & Sumikin Engineering Co., Ltd)

Anaerobic Digester (Container Type) (Japan Price Management Co

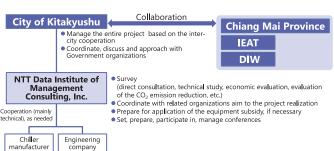


pand Low Carbonization Model Pro ects in cological Pro ect to ealize and Industrial Town by sing JCM in Chiang Mai Province (Kitakyushu- Chiang Mai Cooperation Pro ect)

KITAKY SH CHIAN MAI

NTT Data Institute of Management Consulting, Inc.

Under the cooperation among Kitakyushu, Chiang Mai Province, the Department of Industrial Work (DIW) and the Industrial Estate Authority of Thailand (IEAT), this project aims to reduce large amount of GHG emissions from industrial parks and commercial facilities in Chiang Mai Province through promoting energy saving and the introduction of renewable energy.



Pro ect Outline

- ▶ Lateral development of waste heat recovery power generation project
- Discovering opportunities for applying low-carbon technologies by equipment renewal or introduction of new facilities





Industrial zone in Thailand



Pro ect to Accelerate Low Carbonization in Hai Phong City

(Kitakyushu-Hai Phong Cooperation Pro ect)

NTT Data Institute of Management Consulting, Inc.

KITAKY SH HAI PHON

Engineering Manufacturer company

Under the cooperative relationship between Haiphong and Kitakyushu, the feasibility studies are conducted for the following projects: 1) Waste power generation business with the mixed combustion of municipal waste and industrial waste, 2) Project for large CO₂ emission reduction such

as waste heat recovery power generation at a cement factory, and 3) Low carbonization project combined with funding mechanism in a remote island.



Pro ect Outline

- Waste power generation business with mixed waste of municipal waste and industrial waste discharged from industrial zones
- ▶ Project for large CO₂ emission reduction such as waste heat recovery power generation at a cement factory
- Low carbonization project combined with funding mechanism in a remote island







Cement factory

A JCM Model Project formulated in the framework of City-to-City Collaboration Programme

■ What is "JCM Model Projects"?

The "JCM Model Projects" is a financing programme to financially support the implementation of projects which reduce CO₂ emissions by introducing leading low-carbon technologies and evaluate Japan's contribution to the emission reductions or removals with appropriate MRV methodologies. This acquired JCM credits are used for achieving Japan's GHG emissions reduction target. The approved projects can receive financial support for installing low-carbon facilities, equipment and services.

*MRV: Measuring, Reporting and Verification

Yokohama - a Nang

Introduction of High Efficiency Water Pumps in Da Nang City

Result of the City-to-City Collaboration Programme
Based on the MOU for the technical cooperation between
Yokohama and Da Nang, the followings were implemented
with the support from Department of Planning and
Investment (DPI): inspection of the current operation status
of existing pumps in DAWACO; identification of high
efficiency pumps based on the system requirement and its
estimated CO2 emission reductions; and clarification of the
processes including tender for procuring new equipment.

■ Outline of GHG Mitigation Activity

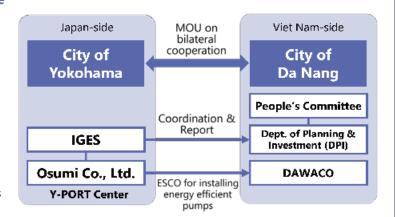
This project aims to achieve energy efficiency and GHG emission reductions by renovating the existing water pumps in Ca Do Water Treatment Plant with highly efficient ones.

■ Expected GHG Emission Reductions: 1,145 tCO₂/year The above figure is calculated conservatively with consideration of power consumption differences between existing and new pumps.

■ Project Implementer

lapan: Yokohama Water Co., Ltd

Viet Nam: Danang Water Supply Company (DAWACO)





Knowledge Exchange and Dissemination of the Programme

MOEJ provides learning opportunities for cities and other stakeholders participating in the City-to-City Collaboration Programme through workshops and seminars held in Japan. Those were held in Kitakyushu (October 2016) and Tokyo (January 2017) and participants from 18 cities of 8 countries learned the whole picture of the JCM, progress made by other participating cities and Japanese low-carbon technology by making site visits. Participants from Asian cities also visited their Japanese partner cities to strengthen the linkages between them by having meetings with local stakeholders. The progress and outcomes of the Programme are shared with a wider audience on such occasions as side-events at the UNFCCC-COP and seminars in Japan.







Site Vis

Open Seminar

Results of the City-to-City Collaboration Programme

Kitakyushu-Phnom Penh

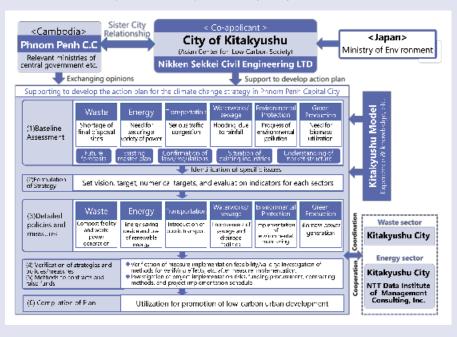
Phnom Penh City Climate Change Strategic Action Plan (PPCCSAP)

■ Project Overview

Cambodia has been identified as a country which will be strongly affected by climate change. The Cambodian government launched the Cambodia Climate Change Strategic Plan 2014-2023 and action plans of each department (2015-2018). However, specific measures were not implemented and specific projects for the reduction of GHG were needed. Therefore, on the basis of the sister city agreement concluded in March 2016 between the City of Kitakyushu and Phnom Penh City, the project team supported the development of PPCCSAP for 6 sectors of waste, energy, transportation, waterworks/sewage, environmental conservation and green production.

■ Results of the Project

Holding individual meetings and workshops with related administrative bodies, private sectors and universities, stakeholders could understand the current status, challenges, visions and directions of policies of the 6 sectors. The project team proposed specific action plans and pilot projects (PP) in each sector, and currently, the project team works for the implementation of PP. The projects included in the PPCCSAP are expected to be implemented by many of donners in and out of Cambodia.





Serious traffic congestion



Workshop in Phnom Penh

Guidebook "Creating Sustainable Low-Carbon Cities through City-to-City Collaboration"

MOEJ published the guidebook entitled "Creating Sustainable Low-Carbon Cities through City-to-City Collaboration" to promote the City-to-City Collaboration programme to city officials and private companies interested in the programme.



Relevant Website



The Joint Crediting Mechanism

https://www.jcm.go.jp/

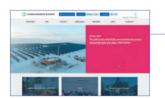
This official platform provides essential information and updates for the JCM to the public.



Web Portal for Low Carbon Development in Asia

http://www.env.go.jp/earth/coop/lowcarbon-asia/english/

This portal provides consolidated information regarding international negotiations and related policy trends, policies, and support systems for those who are interested in achieving low-carbon development in Asia.



Carbon Markets Express

https://www.carbon-markets.go.jp/eng/

This website will introduce JCM and carbon markets in the world, based on the information released by the government of Japan.

International Cooperation Office, International Strategy Division, Global Environmental Bureau, Ministry of the Environment, JAPAN

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