

Webinar on the Joint Crediting Mechanism Implementation in Indonesia
- Utilizing the JCM during the COVID-19 Period -



Promotion of Green Innovation to Realize Zero Carbon City by the Collaboration between DKI-Jakarta and Kawasaki City

30 September 2020
Nippon Koei Co., Ltd.

Contents

- Concept of “City-to-City Collaboration Programme”
- Introduction of the City-to-City Collaboration between DKI-Jakarta and Kawasaki City
- Contribution of JCM during the COVID-19 pandemic

Concept of "City-to-City Collaboration Programme"

Purpose

To contribute to the achievement of **leapfrog development** and **zero carbon society** in cities in developing countries.

Policy

- ▶ Sharing knowledges and know-how on urban management in Japan through intercity collaboration
- ▶ Considering the development of low/zero-carbon projects with private companies, inclusive of utilizing JCM finance

Thailand

- Port of Authority, Thailand - Yokohama City
- Eastern Economic Corridor, Thailand - Osaka City**

Myanmar

- Yangon Region, Hlegu township - Kitakyusyu City
- Yangon City - Kawasaki City**
- Yangon City - Fukuoka City**
- Sagaing Region, Ayeyarwady Region - Fukushima City

Vietnam

- Ho Chi Minh City - Osaka City**
- Da-nang City - Yokohama City
- Soc-trang Province - Hiroshima Prefecture

Malaysia

- Kuala Lumpur - Tokyo Metropolitan Government
- Iskandar RDA - Kitakyusyu City
- Iskandar RDA, Kota Kinabalu - Toyama City

Philippines

- Quezon City - Osaka City
- Santiago City, Renca - Toyama City**

Ulan Bator, Tov Province - Sapporo City

Male City - Toyama City

State of Koror - Kitakyusyu City

Indonesia

- DKI-Jakarta - Kawasaki City**
- Bali, Semarang - Toyama City
- Riau Province Region - Kawasaki City**

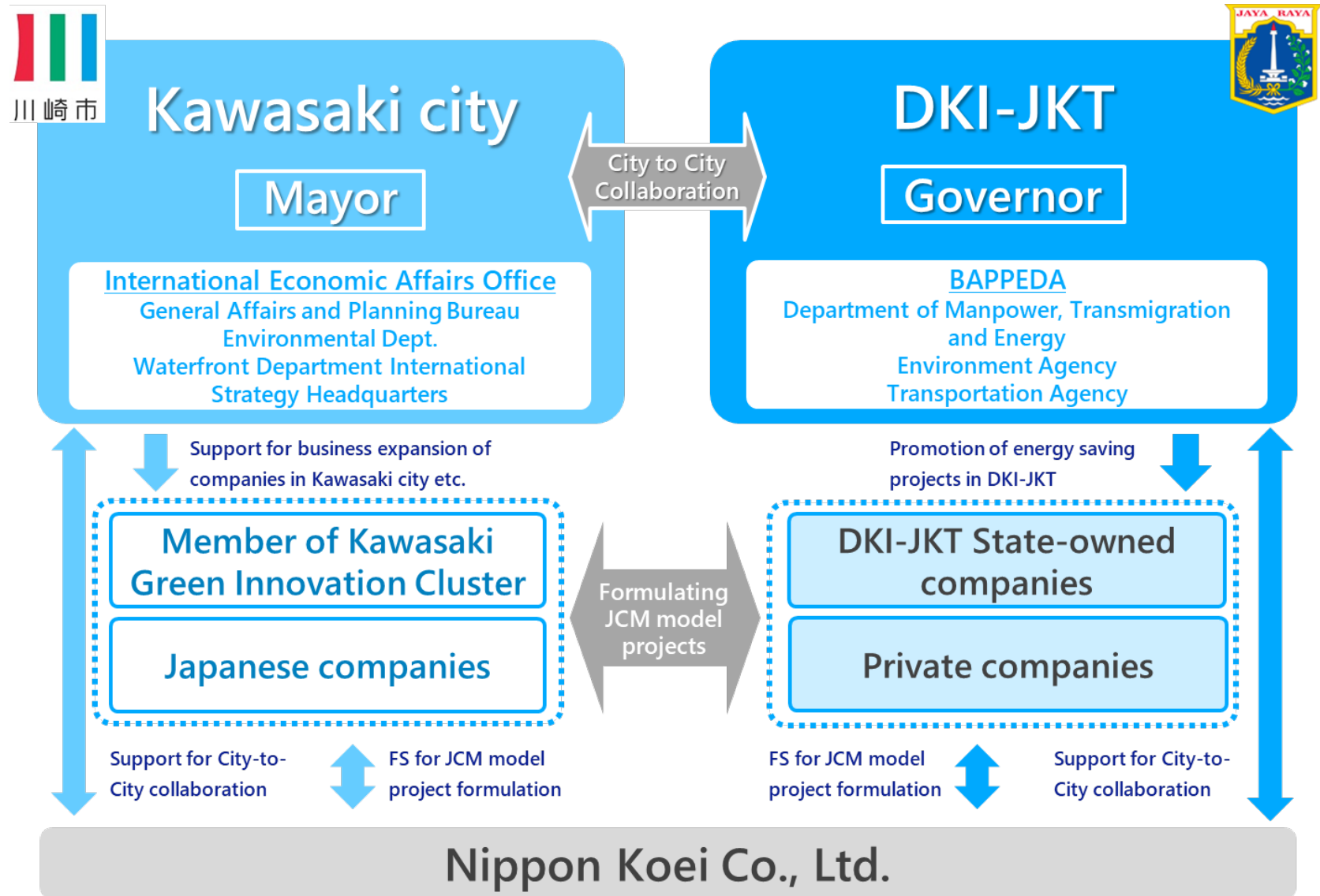
shows the programmes which Nippon Koei supports

(As of 18 September 2020)

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Implementation structure of the City-to-City Collaboration



Background of the Collaboration between DKI-JKT & Kawasaki

- ▶ The Collaboration has been continuing **since September 2017**.
- ▶ **Five sectors** were prioritized as targets under the Collaboration.
- ▶ The cities concluded **Letter of Intent (LoI)** in March 2019 for cooperation to realize zero carbon society (It will be valid for 3 years).



Clean Energy

Promotion of renewable energy



Green Industry

Expansion of energy saving tech in industrial sector



Transportation

Installing E-vehicle



Green Building

Reducing energy consumption of office buildings



Waste Management

River purification, improvement of disposal process

Letter of Intent



To achieve SDGs and encourage climate change countermeasure by utilizing JCM and technical cooperation

Past activities and achievement of the Collaboration (Sep '17 – Feb '20)

- Capacity Building
(e.g. seminar, site tour)
- Feasibility Study

Green Industry

- Introduction of high efficiency once-through boilers and heat exchanger to Factories
- ⇒ The project in a carton box factory was adopted as JCM Model Project (FY2019)

Green Building

- Business matching among Indonesian building owners and Japanese manufacturers
- Introduction of EMS and high efficiency chiller to office buildings

Clean Energy

- Seminar to introduce Kawasaki City's government service to promote renewable energy
- Site tour at Mega solar facilities in Kawasaki City
- Introduction of hydrogen energy system in the remote islands

Transportation

- Seminar to introduce EV bus of Japanese manufacturers
- Data collection on DKI-JKT's plan for installing EV bus and charging station

Waste Management

- Seminar to introduce Kawasaki City's activities regarding 3R, river purification, and citizen volunteers
- Site tour at waste management facilities in Kawasaki City



SDGs

- Seminar to introduce SDGs Action Plan in Kawasaki City

Examples of past activities (Sep '17 – Feb '20)

Intercity collaboration for capacity building



Site tour in Kawasaki City



Seminar, workshop for DKI-JKT officials



Discussion with
the SDGs secretariat of
DKI-JKT



Feasibility study for developing JCM Model projects



Field survey at potential site



Business matching



JCM seminar for private company

This fiscal year's activities (Aug '20 – Mar '21)



Clean Energy

Data collection and system design for installing **hydrogen energy supply system** in remote island



Green Industry

FS for introducing **steam-driven air compressor** to factory and **high-efficiency air filter** to power plant



Transportation

Data collection for introducing **EV bus and charging station** with Transjakarta etc.



SDGs

Online workshop/training for DKT-JKT's officials to share Kawasaki City's experience as "SDGs future city"

► Proposed technologies



H2One (Toshiba Energy Systems & Solutions Corporation)



Steam-driven air compressor (Miura Co., Ltd.)



Air filter (Shinwa Corporation)



EV bus and charging station

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Contribution of JCM: Sustainable and Green Recovery

- Not returning to the previous socio-economic state , "**green recovery**" that builds a new resilient and sustainable society and economy through decarbonization is quite important.
- Approach of Indonesian Government to Green Recovery (introduced in Platform for Redesign 2020);



- ▶ **Transition to renewable energy**

Development of [new and renewable energy power plants](#): geothermal, solar cells, waste to energy, Refuse-derived Fuel/RDF, waste pellet to replace 5 to 10 % coal for electricity plant

- ▶ **Sustainable transportation:**

Transportation: Biofuel for transportation, improvement of energy efficiency (including transportation system), [potential of e-vehicle development](#)

- ▶ **Industry sector**

[Energy efficiency, new and renewable energy](#), enhancement of mitigation actions in IPPU sector

- ▶ **Technological innovation (digitalization / [hydrogen](#) / CCUS, etc.)**

CCS/CCUS as potential technology implementation (currently Indonesia has one pilot project)

JCM can contribute to
Sustainable and Green Recovery

Thank you for listening
Terima kasih

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