

# Approach toward realizing “ Zero Carbon City” between DKI-Jakarta and Kawasaki City



Kawasaki City

# Promotion of Green Innovation (1)

## Kawasaki Green Innovation

Kawasaki City has been promoting environmental technologies and industries in order for the eco-friendly economy and society for more than a half century.

“Promotion Policy on Kawasaki Green Innovation” (formulated in 2014)

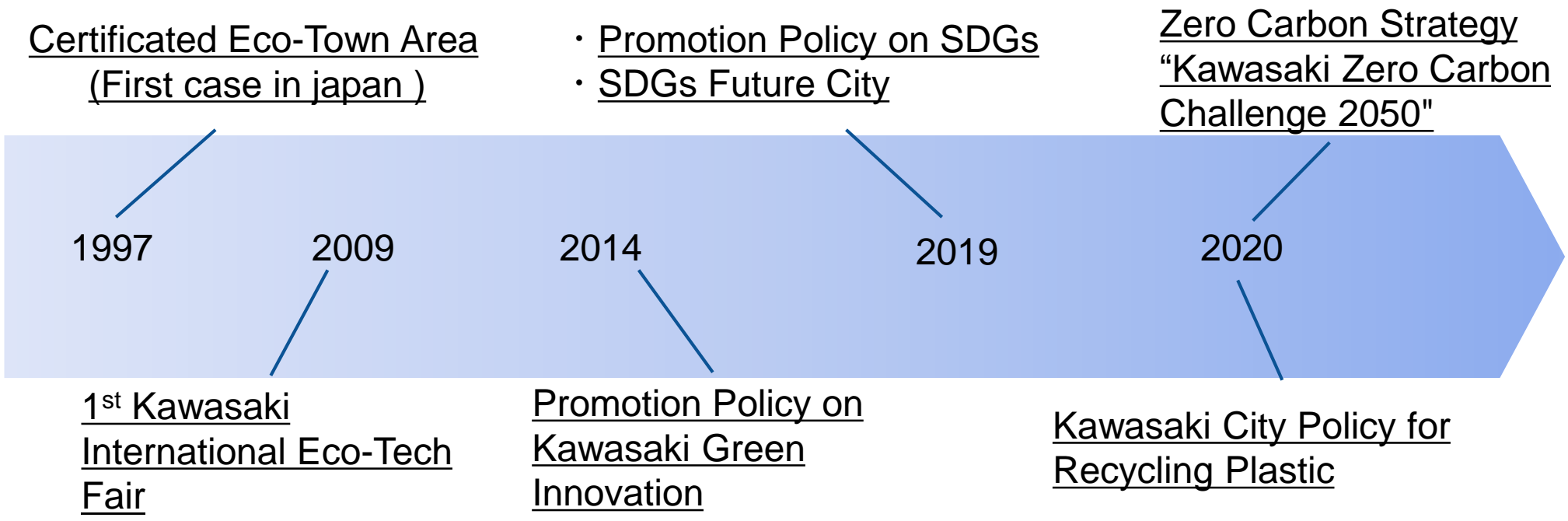
## Kawasaki City's advantage and feature

1. Abundance of environmental technologies and industry
2. Companies and citizens with high awareness of the environment
3. Harmonization and virtuous circle of “Environment” and “Economy”

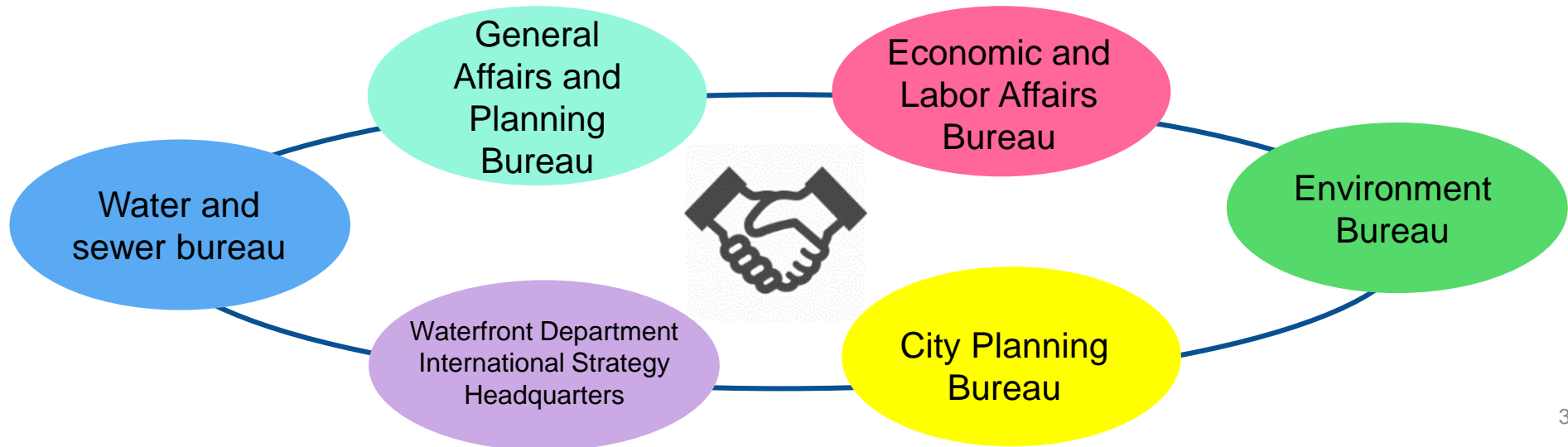
## Basic policy

“Creation of Sustainable City by taking advantages of environmental technologies and industries”

# Promotion of Green Innovation (2)



## < Collaboration among the City Bureaus >



# Promotion of Green Innovation (3)

## Kawasaki Eco-Tech Fair

### Objective

- Transmission of Municipal Environmental policy
- Promotion of environmental industries in Kawasaki City (business expansion, international business)

### Achievement

#### 12<sup>th</sup> International Eco-Tech Fair

- Exhibitors: 128 companies
- Visitors: 16,900 people
- Business matching: 562 sessions

Response to covid-19  
(Correspondence to New-normal)

### 13<sup>th</sup> International Eco-Tech Fair (online)



Kawasaki Eco-Tech Fair

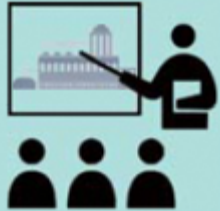
21 Jan – 5 Feb 2021

# Promotion of Green Innovation (4)

## Kawasaki Green Innovation Cluster (GIC)

The Network aiming to formulate new society by implementing environmental improvement with industry-academic-government collaboration promoting "industrial development" and "international contribution"

Support for R&D and demonstration



Support for business development



Creation of business opportunities

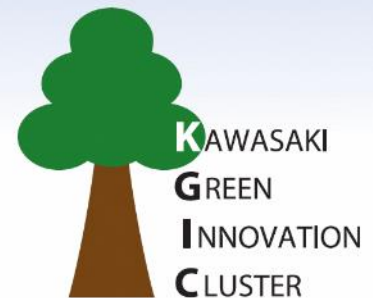


GIC

Support for domestic/international business development



110 Companies and Organisations are joining GIC



Kawasaki coastal Hydrogen-Network

Kawasaki Water Business Network

Liaison Center for Creation of Industry and Environment

# Promotion of Green Innovation (5)

## International and Domestic projects in FY2020 and participating GIC members

### **【Ministry of the Environment: City-to-City Collaboration Program for Realization of Zero Carbon Society】**

|  |  |
|--|--|
| Promotion of Green Innovation to Realize Zero Carbon City by the Collaboration between DKI-Jakarta and Kawasaki City       | Nippon Koei, Toshiba Energy Systems & Solutions, Institute of Global Environmental Strategies(IGES), MIURA, SHINWA |
| Zero Carbon Promotion Project toward to Sustainable Urbanization in Yangon City, Myanmar                                   | Nippon Koei, JFE Engineering   |
| Project to Promote Development of Circular Economy for Oil Palm Industry and 2050 Zero Carbon City in Riau Province Region | Nippon Koei, Daicel-Evonik, PT. Gikoko Kogyo Indonesia, Aura Green Energy, PT. Gistec Prima Energindo              |

### **【Ministry of Economy, Trade and Industry: Subsidy for Projects of Regional Energy Use by Utilizing Regional Power Grid】**

|   |            |
|---|------------|
| Project to Establish Masterplan on Development of Micro Grid for Urban Resilient Region in Kawasaki | ISUZU, CSD |
|---|------------|

### **【Ministry of the Environment: Subsidy for Projects of Countermeasures to Reduce CO2 Emission】**

|   |                            |
|---|----------------------------|
| Project to Study Development of Low-carbon Material Recycling Model for Realization of Circular Economy | Sojitz, RECOTECH, KAO      |
| Project to Study of "Kawasaki Smart Heat Supply Project" for Decarbonization                            | Resource Recycling Network |

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



## Objective

To contribute to the achievement of leapfrog development and [zero carbon society](#) in DKI-JKT

## Goal

1. Promotion of green innovation activities in DKI-JKT by making use of experience and know-how of Kawasaki City.
2. Project formulation aimed to apply for the JCM Model Project and promotion of energy saving technologies.

## Policy

### <Intercity collaboration>

Sharing knowledges and know-how on urban management in Kawasaki City through intercity collaboration

### <Feasibility Study>

Considering the development of low/zero-carbon projects with private companies, inclusive of utilizing JCM finance



# Overview of the City-to-City Collaboration between DKI-Jakarta and Kawasaki City

- ▶ 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).



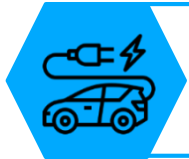
## Clean Energy

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

# Online workshop for achieving SDGs (Dec. 2020)

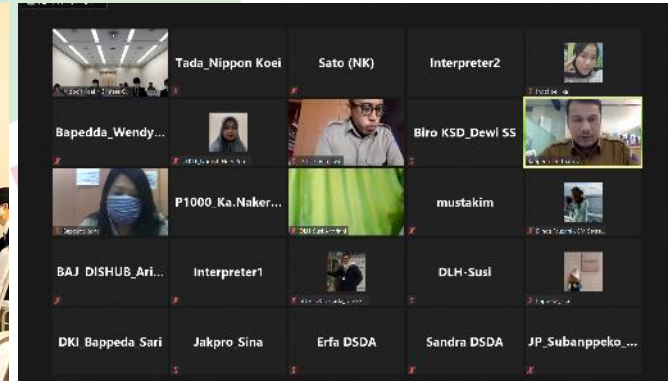
- ▶ Kawasaki City and DKI-JKT held an **online workshop on SDGs in 22 Dec. 2020**.
- ▶ The workshop aimed to **share an informative SDGs action each other**, and find what the cities can collaborate in next fiscal year to accelerate SDGs actions.



Participants from Kawasaki city



Participants from DKI-JKT



- ▶ Kawasaki City introduced an activities as **“Sustainable SDGs future City”**, and overview of Zero Carbon Strategy **“Carbon Zero Challenge 2050”**.
- ▶ Kawasaki City received so many questions from DKI-JKT officials, such as challenges to realize zero carbon society, how to involve stakeholders into SDGs, subsidization for promoting renewable energy and so on.




# Online seminar for promoting “Green Innovation”

- ▶ Online seminar for promoting “Green Innovation” will be held in January 2020 between DKI-JKT and Kawasaki City
- ▶ The seminar aims to [introduce Kawasaki city’s technologies](#), which contribute to DKI-JKT’s needs for solving environmental issues, and also introduce “Kawasaki International Eco-Tech Fair”.
- ▶ Based on DKI-JKT’s request, environmental technologies related to [water treatment, renewable energy, and energy saving will be introduced](#).

|                       |   |
|-----------------------|---|
| Date                  | The end of January 2021 (1 day event, during the period of “Kawasaki International Eco-Tech Fair” (21 Jan ~ 5 Feb) )  |
| Agenda                | <ol style="list-style-type: none"><li>1. Opening remarks</li><li>2. Introduction of superior environmental technologies by member companies of Green Innovation Cluster</li><li>3. Q&amp;A, discussion</li><li>4. Introduction of “Kawasaki International Eco-Tech Fair”</li><li>5. Closing remarks</li></ol> |
| Expected participants | <ul style="list-style-type: none"><li>• Kawasaki City (International Economic Affairs Office, )</li><li>• DKI-JKT (BAPPEDA and other relevant departments)</li><li>• Member companies of Kawasaki Green Innovation Cluster</li><li>• Nippon Koei Co., Ltd.</li></ul>  |

# Feasibility study for developing JCM Model Project in FY2020

- ▶ In FY2020, three priority sectors were selected for FS according to the last fiscal year's discussion with BAPPEDA.
- ▶ FS has been implemented to develop green projects for contributing to realization of zero carbon society in DKI-JKT.

| Sector  | Outline of feasibility study in FY2020  |
|---|---|
|    | <p>Data collection and consideration for installing <b>Hydrogen energy supply system (H2One)</b> in remote island, based on the study result of FY2019.</p> |
|   | <p>Data collection on <b>EV bus and charging station for JCM Model Project formulation in FY2021/2022</b> with Transjakarta etc.</p>                        |
|  | <p>Feasibility study on installing energy saving tech. such as <b>steam-driven air compressor, boiler, chiller.</b></p>                                     |



H2One (Toshiba Energy Systems & Solutions Corporation)



EV bus and charging station



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



*Thank you for listening*  
*Terima kasih*