

# Promotion of Zero-Carbon Technology to Improve the Environment in Hanoi City

City-to-City Collaboration between Hanoi City and Fukuoka Prefecture FY2021

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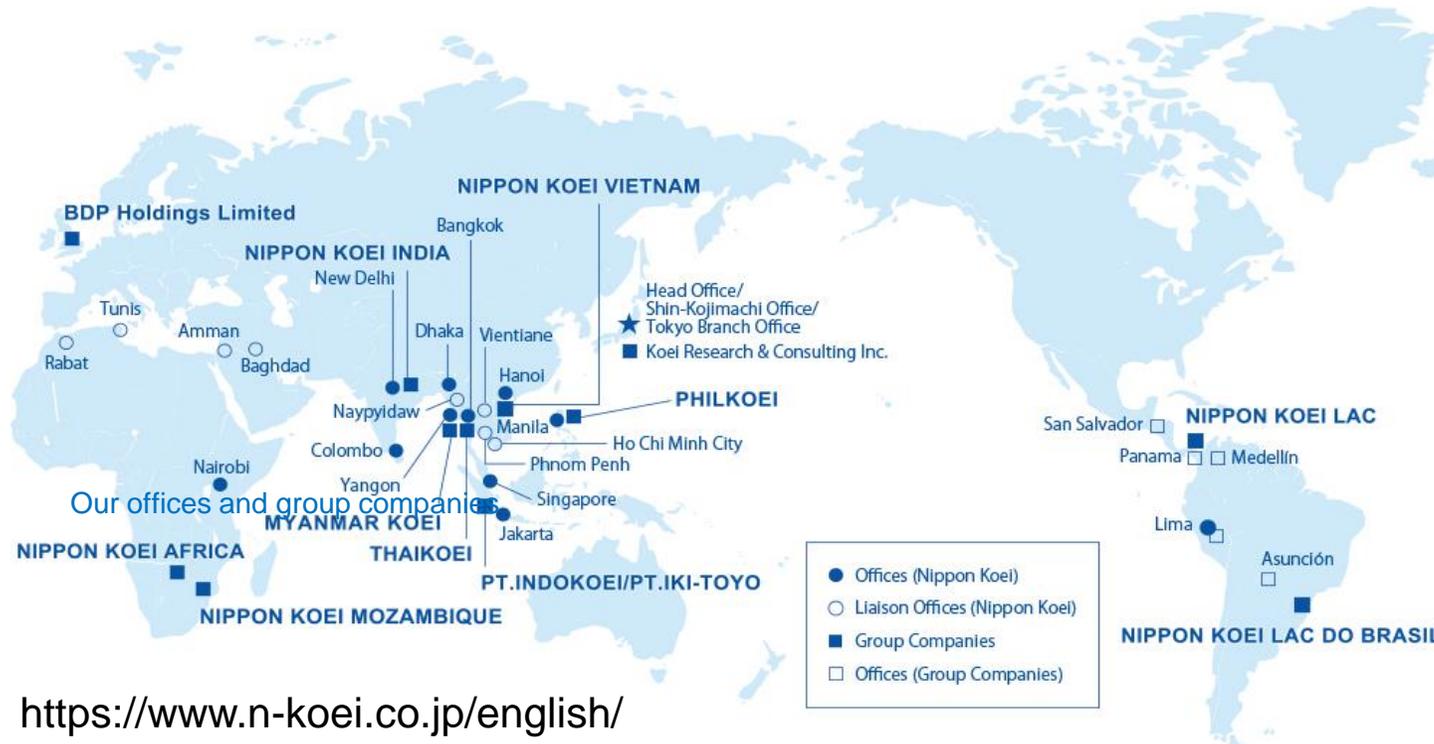
December 17, 2021

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**NIPPON KOEI**

# 1 : Introduction of Nippon Koei

Nippon Koei Co., Ltd. is the Japan's No.1 International Engineering Consultants who plays a role in nation building around the world through our consulting.



over  
**5,700**  
Number of  
Employees  
(consolidated)

**160**  
Countries  
where we  
operate

over  
**9,000**  
Number of  
orders per year

As of June 2020

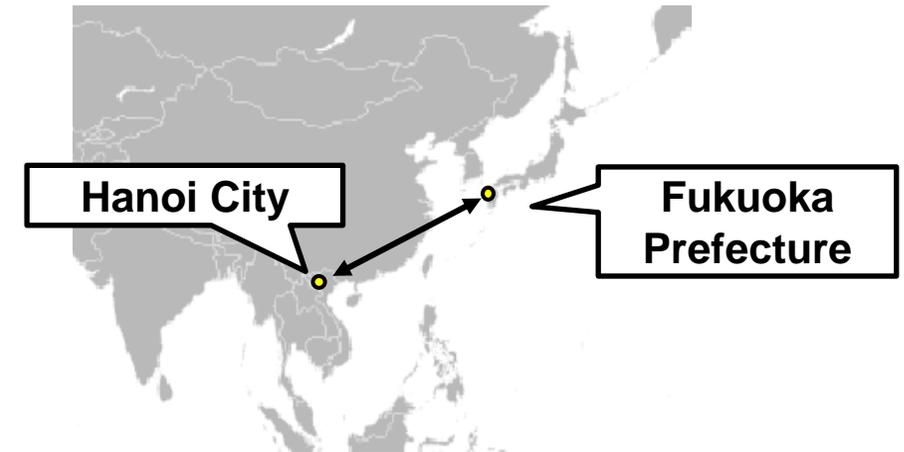
Since 2015, Nippon Koei has joined the **City-to-City Collaboration Project** with various cities to promote zero/low carbon technology and policies in JCM partner countries.

## 2 : History of collaboration between Hanoi City - Fukuoka Prefecture

Fukuoka prefecture serves as the center of Kyushu region and one of the focal points of the Asian market, which attracts many businesses and special education institutes. Since 2008, Fukuoka Pref. have collaborated with Hanoi City as friendship city in the environment field.

### ■ Major activities/supports from Fukuoka Prefecture to Hanoi City

#	Fiscal year	Activities
1	FY2006 - Ongoing	<b>International Environment HR development Training</b> Invited Hanoi trainees to Fukuoka, 31 participants in total
2	FY2011 - FY2020	<b>Support on introduction of Fukuoka method landfill</b> Field study, Design, construction, O&M
3	FY2010 - FY2012	<b>Environmental Education</b> Environmental Seminar, Training for invited stakeholders
4	FY2014 - FY2016	<b>Water environment improvement</b> Pilot project stage was completed.



International Environment HR development Training



MOU for Fukuoka method landfill (Aug.2013)



Training for air pollution countermeasure



**New project started in 2021**

### 3 : Overview of City-to-City collaboration in Hanoi City (Main Activities)



## “Promotion of Zero-Carbon Technology to Improve the Environment in Hanoi City”

From August 2021 to March 2022 (1<sup>st</sup> year)



### Main Activity(1)

Support on Human Resources Development related to promotion of “Zero-Carbon” and introduction of advanced technology by information sharing.



1) Introduction of “Energy-saving” & “Renewable Energy” technologies



3) Information sharing and Human resource (HR) development by technical training on “Hydrogen”



2) Proposal of multiple technologies as “Decarbonization” & “Air pollution” countermeasures



4) Information sharing and continuous support in the waste management sector

# 3 : Overview of City-to-City collaboration in Hanoi City (Main Activities)

## Main Activity (2)

**JCM project formulation** and other activity will be considered in wide sectors and aim to improve the environment & decarbonize in Hanoi City.

### Proposed technologies



Solar PV



Wind power

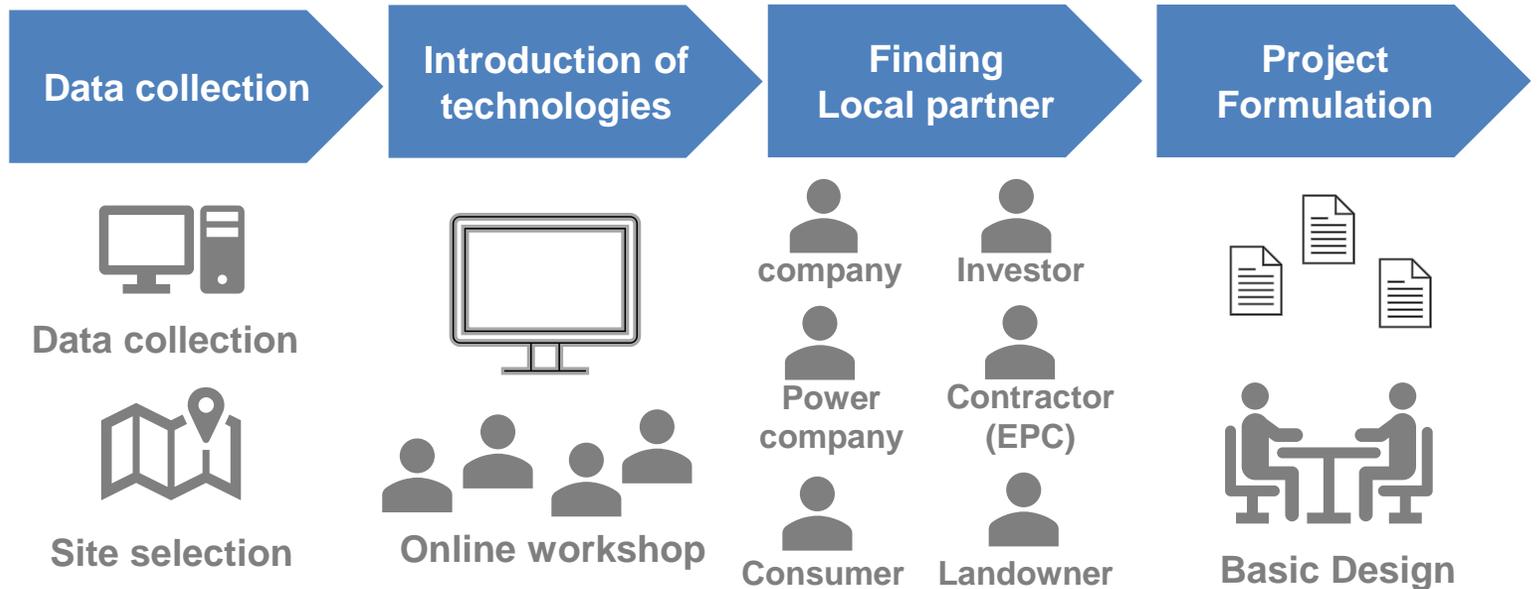


Energy saving

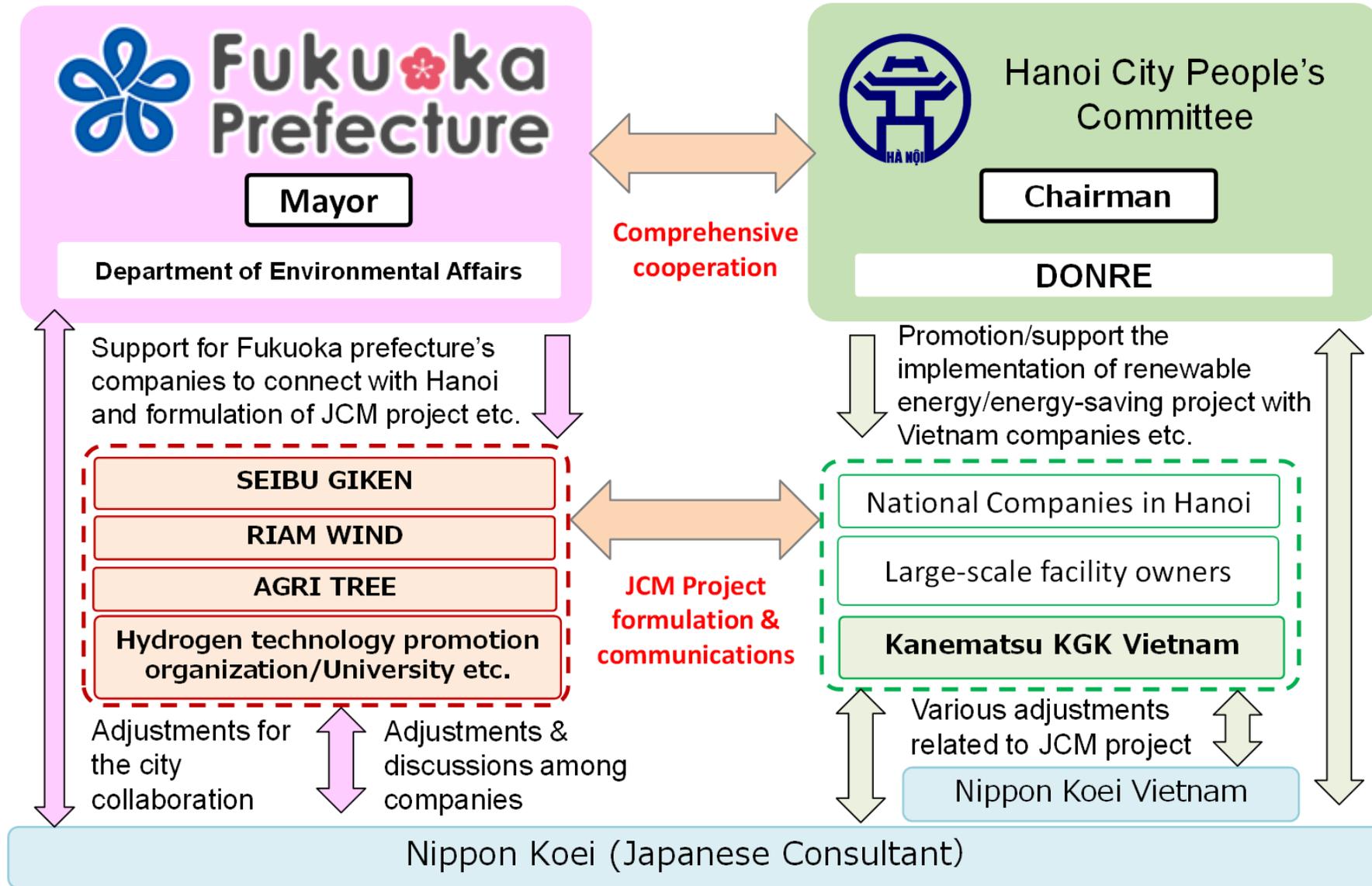


Hydrogen

### Steps for project formulation



### 3 : Overview of City-to-City collaboration in Hanoi City (3/3)



# 4 : Target technologies and equipment for JCM formulation



## Agritree



- Solar Sharing
- Agricultural business support



## Riam Wind



- Compact wind power



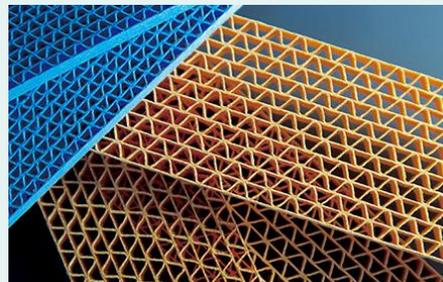
## Kanematsu KGK Vietnam



- Adoption of Large-Scale Solar Power Generation JCM Model Project (Viet Nam)



## Seibu Giken



- VOC Concentrator
- Heat Wheel
- CO<sub>2</sub> Recovery System



## Kyushu University



- Biomass-derived hydrogen energy (fuel cell)

# 5 : Achievements and 3 years plan of City-to-City collaboration project

## 3 Years plan Activity (1) Support on improvement of environment in Hanoi City



## 3 Years plan Activity (2) JCM Project Formulation



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***Thank you very much for your Attention.***

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