

Introduction of regional collaboration project to promote carbon neutrality in southern Vietnam: Case example of JCM Project Development

Nippon Koei Co., Ltd.

July 2025

Brief Introduction of Nippon Koei

- ❖ One of the largest engineering consulting firms in Japan
- ❖ One-stop support for development projects in Japan and overseas



No.1 in sales
among civil
engineering
consulting firm in
Japan

Operation in
160
countries

over
5,500
orders per year

Note: Overseas offices and subsidiary in NK group

We, International Environment Dept. will provide solutions on various environmental issues.



Mitigation Measures
Joint Crediting Mechanism (JCM),
GHG emission reduction measures, carbon
taxes, etc.

Adaptation Measures
Avoid and minimize damage by taking
appropriate measures against abnormal
weather and climate change

Including support
services for the
development and
application of JCM
projects, as well as
MRV
implementation

Our Achievements Related to JCM Projects

Energy sector (Renewable energy/Energy saving technology)

Client	Country	Project name	
MOEJ	Viet Nam (Hanoi, HCMC, Dong Nai, Ba Ria-Vung Tau etc.), Thailand, Indonesia, Chile etc.	The City-to-City Collaboration for Zero Carbon Society program (Feasibility study for formulation of JCM project) (2013-on going)	<u>Around 5-6 projects per year</u>
MOEJ	Viet Nam , Indonesia, Thailand, Chile, Mongolia, Bangladesh	MRV supporting services on JCM projects	<u>Around 4-5 projects per year</u>
Japanese company	Viet Nam , Thai land, Indonesia, Chile, Philippines, Mexico, Cambodia etc.	Consulting/advisory service for development application documents of JCM project	<u>More than 30 companies in total</u>
ADB	Maldives, Bangladesh	MRV supporting services on JFJCM projects	<u>2 projects in total</u>
METI	Viet Nam , Chile, Indonesia	Feasibility Study for JCM project formulation	<u>3 projects in total</u>

Forestry sector

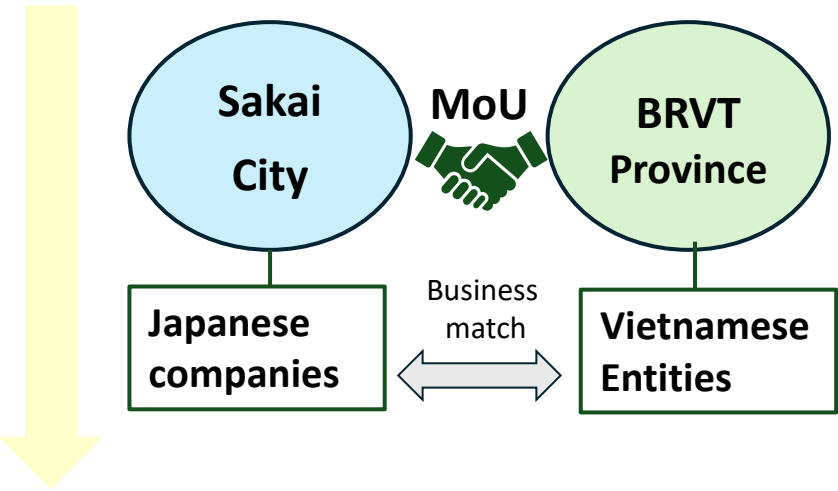
Client	Country	Project name
Japanese company	Viet Nam	The study for AR-CDM Project Formulation
Japanese company	Indonesia, Philippines	Pre-evaluation survey for development carbon credit candidate projects
Japanese company	Indonesia	Feasibility study for JCM project formulation in Forestry sector
Japanese company	Viet Nam , Philippines, Thailand	Potential survey for development of Private-Sector JCM project in Forest sector

*MOEJ: Ministry of the Environment Japan *ADB: Asian Development Bank

*JFJCM: Japan Fund for the Joint Crediting Mechanism *METI: Ministry of Economy Trade and Industry

City-to-City Collaboration for Zero Carbon Society in Southern Vietnam, Supported by Ministry of the Environment, Japan

From FY2022 to FY2024: Sakai City- Ba Ria-Vung Tau Province C3P



Main Activities/Achievements

1. Promote City-to-City Collaboration

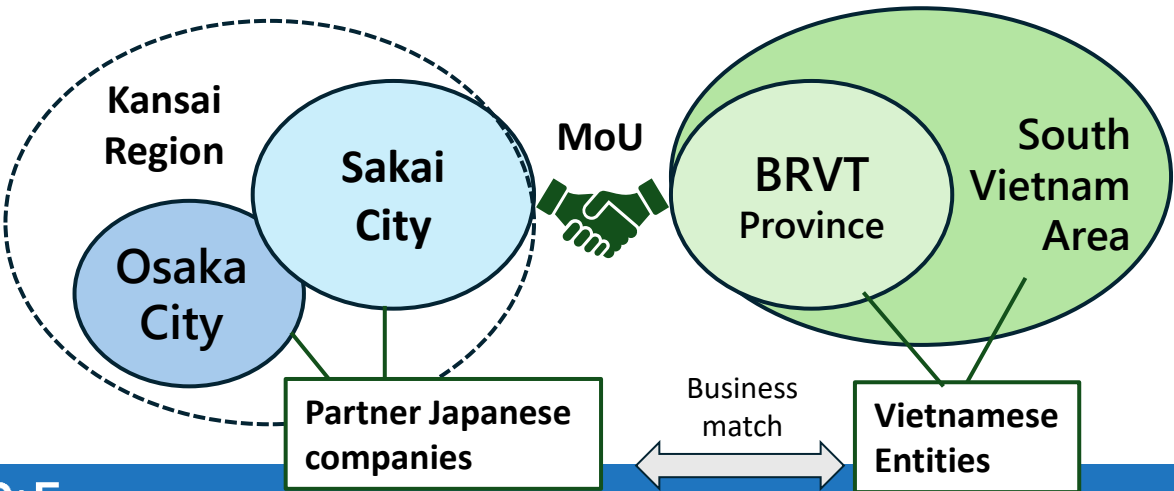
- Signing MOU between BRVT & Sakai City
- Sharing Sakai city's knowledge of environmental management
- Collaboration with other doners (e.g. JICA)

2. Project formulation/networking

- Field survey on Industrial parks and public facilities
- Information sharing of zero carbon technologies
- Consideration of new projects in BRVT



From FY2025: Regional Collaboration Project to Promote Carbon Neutrality in Southern Vietnam



Promoting Technologies via C3P

- Green hydrogen utilization
- Solar power with battery system
- Agricultural biogas utilization
- High-efficiency LED lighting system
- Waste to Energy (WtE) etc.

Representative Decarbonization Technologies

Energy Efficiency and Renewable Energy



Solar PV with BESS

High-efficiency equipment

Zero/Low-Carbon Combustion Technologies



Hydrogen/Ammonia burners & High efficiency burners

Source: Chugai Ro Co., Ltd.

Biomass & Waste Management

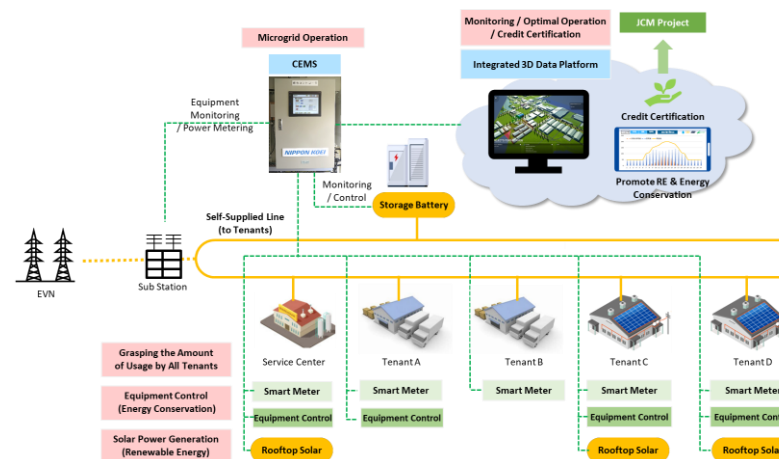


Utilizing agricultural residues for biogas and biochar production



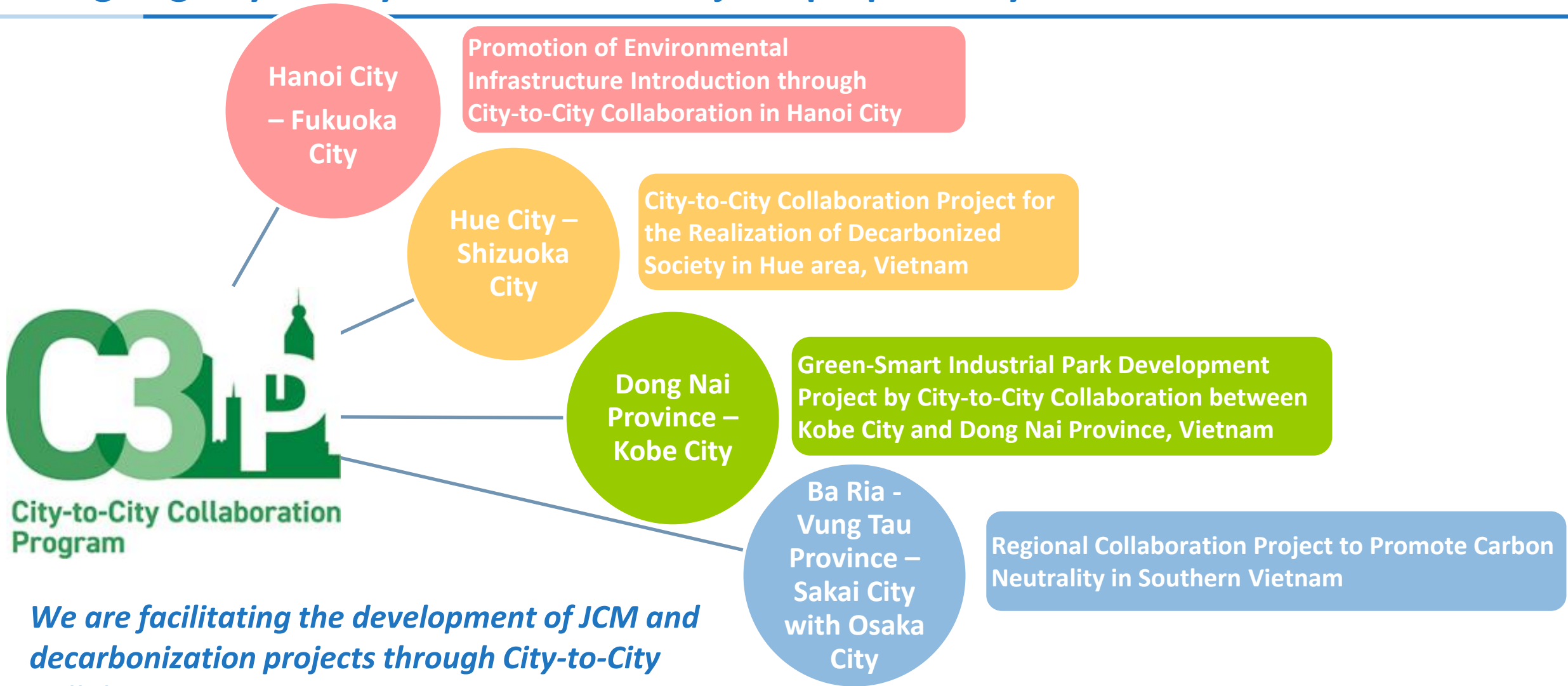
Waste-to-Energy & DX Application

Smart Technologies



Integrated data platform for Eco-Smart Industrial Parks

On-going City-to-City Collaboration Projects proposed by NK in Vietnam



We are facilitating the development of JCM and decarbonization projects through City-to-City Collaboration Projects in Vietnam.

Thank you.

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