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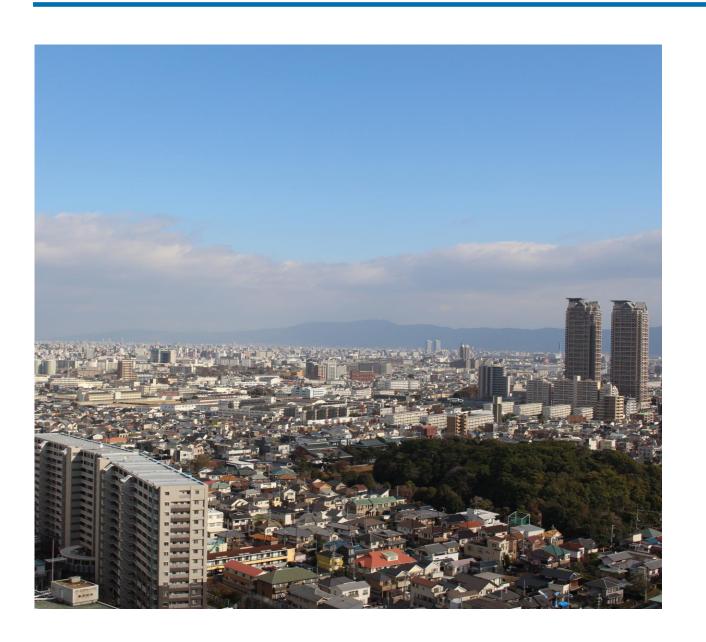
Realization of a Decarbonized Society and Sustainable Development of Cities through City-to-City Collaboration



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1. Overview of Sakai City

SAKAI's Profile

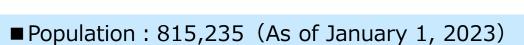




○ The second largest city in Osaka, Kansai

There is "Nintoku-Tenno-Ryo-Kofun" which is registered as a world cultural heritage site by

UNESCO.



■ Area: 149.82km² (57.8 sq mi)

■ Sister/Friendship Cities: Berkeley (U.S.A)

Lianyungang (China)

Wellington (New Zealand)

Da Nang (Vietnam)

Exchange with ASEAN countries



- SAKAI was the center of trade between Japan and Southeast Asia in the past.
- Today, we continue to exchange with ASEAN countries in a various fields.



Ethnic Costume Experience for Kids



Angklung Performance Experience



Sale of Ethnic Goods



Cooking Demonstrations and Sales

One of the leading industrial cities in Japan



- Sakai City is one of the leading industrial cities in Japan. Many Companies in Sakai City have advanced environment/decarbonization technologies.
- In waterfront area, there is a big base for several refineries, thermal power plants, gas production plants, and liquid hydrogen production plant. About 70% of the energy consumed in Kansai region is produced in Sakai City.





The waterfront area of Sakai City



2. Sakai City's Decarbonization Policy

Environmental Vision for 2050



- We have "Sakai Environmental Strategy", a long-term environmental vision for 2050.
- We aim to become a world-leading environmentally advanced city centered on achieving carbon neutrality by 2050, with the four "C's" as our keywords.

1 Decarbonized City with future innovation

Carbon Neutral

3Safe, Secure, Attractive and Comfortable City in harmony with nature

Comfortable

2 Circular Citywith virtuous circle of the environment and the economy

Circular

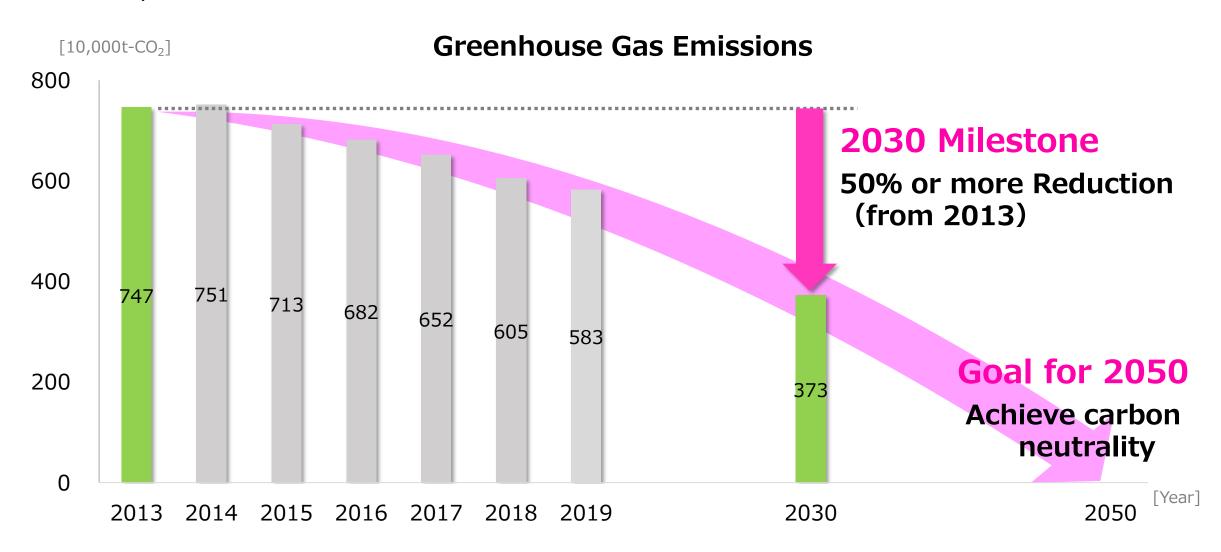
4 Contributing and Collaborative City that create and deploy innovations

Cooperation

Greenhouse Gas Reduction Targets



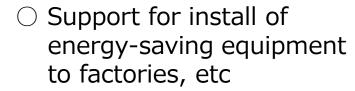
 To achieve carbon neutrality by 2050, we aim to reduce greenhouse gas emissions by more than 50% by 2030.



Examples of Initiatives to Decarbonize



 Promotion of ZEH (net zero energy house) and electric vehicles





 Utilization of unused energy sources, such as heat from reclaimed sewage water and waste-to-energy

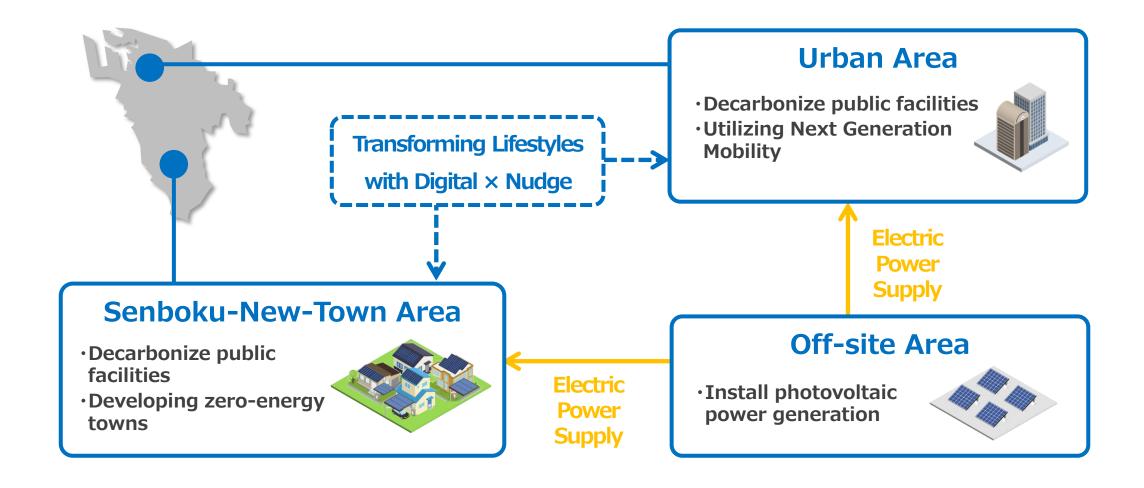




Selected by the Japanese government for Decarbonization Leading Area "Sakai Locally Produce and Consume Energy Project"



 In Urban area and New-town area where houses are concentrated, we will promote the development of zero-energy buildings and zero-energy towns with the aim of carbon Neutrality by 2030.





3. City-to-City Collaboration for Decarbonization

International City-to-City Collaboration by Sakai City



- In our newly formulated "Sakai Environmental Strategy", we have clearly stated our intention to "Promote International City-to-City Collaboration in the environmental field".
- We promote City-to-City Collaboration that will lead to sustainable development in both cities, by leveraging our experience in pollution control and decarbonization initiatives and the advanced decarbonization technologies of companies involved.

Background

Exchanges with ASEAN Countries

Experience in pollution control and decarbonization initiatives

Decarbonization technologies of companies in the city

Building a collaborative framework for decarbonization

Promote City-to-City Collaboration

Promote environmental and decarbonization businesses in the city

Solving local environmental issues in overseas cities

Addressing global environmental issues such as Climate Change

Sustainable Development in both Cities

Achievements in international exchange and collaboration in the environmental field



Quang Ninh Province (Vietnam)

Worked with Osaka Prefecture University (at the time) to a improve the environment of Halong Bay.

(2013-2016)

(JICA Partnership Program)

Gwangju City (Korea)

Signed cooperation agreements on climate change, waste management, etc. (2011)

SAKAI **NEW**

Ba Ria-Vung Tau Province (Vietnam)

City-to-City Collaboration project for decarbonization and smart city formation

 $(2022 \sim)$

(MoEJ: City-to-City Collaboration program for Zero-Carbon Society)

Berkeley City (U.S.A)

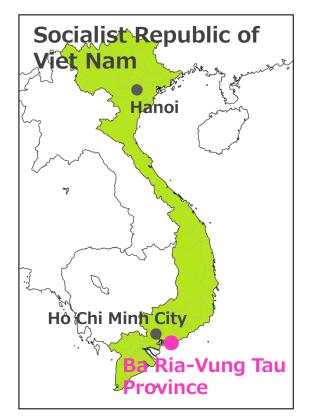
Conversation between mayors to exchange views on the theme of carbon neutrality

Wellington City (New Zealand)

Conversation between mayors to exchange views on the theme of decarbonization initiatives

Progress of collaboration with Ba Ria-Vung Tau Province







Phu My 3 Special Industrial Park (source : Thanh Binh Phu My Joint Stock Company)

- We conducted a study in 2021 and selected Ba Ria-Vung Tau Province as a candidate city for collaboration for the following reasons:
 - •Similar regional characteristics to Sakai City, with the international logistics hub Kai Mep Chi Bai Port and a concentration of petrochemical and manufacturing industries.
 - •With the development and expansion of industrial parks, they are required to transform themselves into sustainable industries through pollution control, eco-friendly and smart.
 - •The location of Phu My 3 Special Industrial Park, where many Japanese companies are located, facilitates the formation of projects for the installation of Japanese decarbonization technologies.
- In April 2022, officials from both cities exchanged views and agreed to prepare for City-to-City Collaboration to decarbonization.

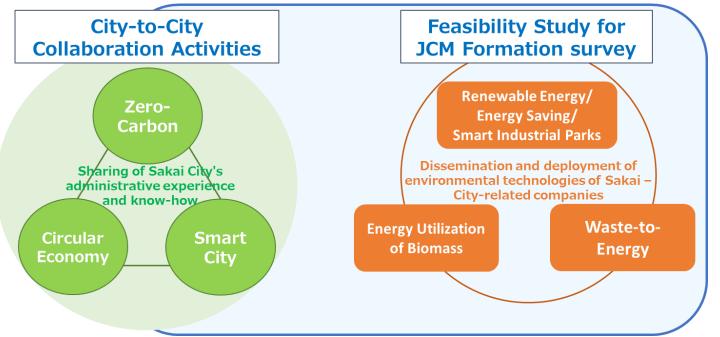




City-to-City Collaboration Project with Ba Ria-Vung Tau Province (Summary)



Project to promote decarbonization and smart city formation through City-to-City Collaboration between Sakai City and Ba Ria-Vung Tau Province



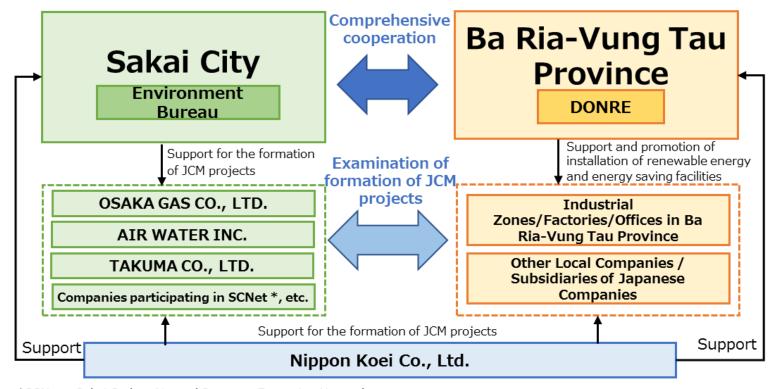
Decarbonization	Study of install renewable energy/energy saving equipment to industrial parks
Circular Economy	Study of install waste power generation and use of biomass
Smart City	Study of formation of smart industrial parks





Currently in discussions to conclude a Memorandum of Understanding (MOU) in decarbonization and related environmental fields





Main Fields of Cooperation

OSAKA GAS CO., LTD.

Photovoltaic Power Generation, Energy-saving Equipment, Smart Industrial Park(AEMS, etc.)

AIR WATER INC.

Use of Biomass

TAKUMA CO., LTD.

Waste-to-Energy

We will continue to gradually expand collaborated companies

Aiming for form JCM (Joint Crediting Mechanism) projects through high quality decarbonization technologies of companies involved.

^{*}SCNet: Sakai Carbon Neutral Overseas Expansion Network



Thank you