

December 6th, 2023
Clean City Partnership Program Seminar

Sakai City's Initiatives for Realization of a Decarbonized Society



Masahiko TSUJIO Director, Carbon Neutrality Promotion Department, Environment Bureau, Sakai City



- The second largest city in Osaka, Kansai
- There is "Nintoku-Tenno-Ryo-Kofun" which is registered as a world cultural heritage site by UNESCO.



- Population : 812,027 (As of October 1, 2023)
- Area : 149.82 km² (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



Sale of Ethnic Goods



Angklung Performance Experience



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

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 with the 04 “C’s” as our keywords.

① **Decarbonized City
with future innovation**

Carbon Neutral

② **Circular City
with virtuous circle of the
environment and the economy**

Circular

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

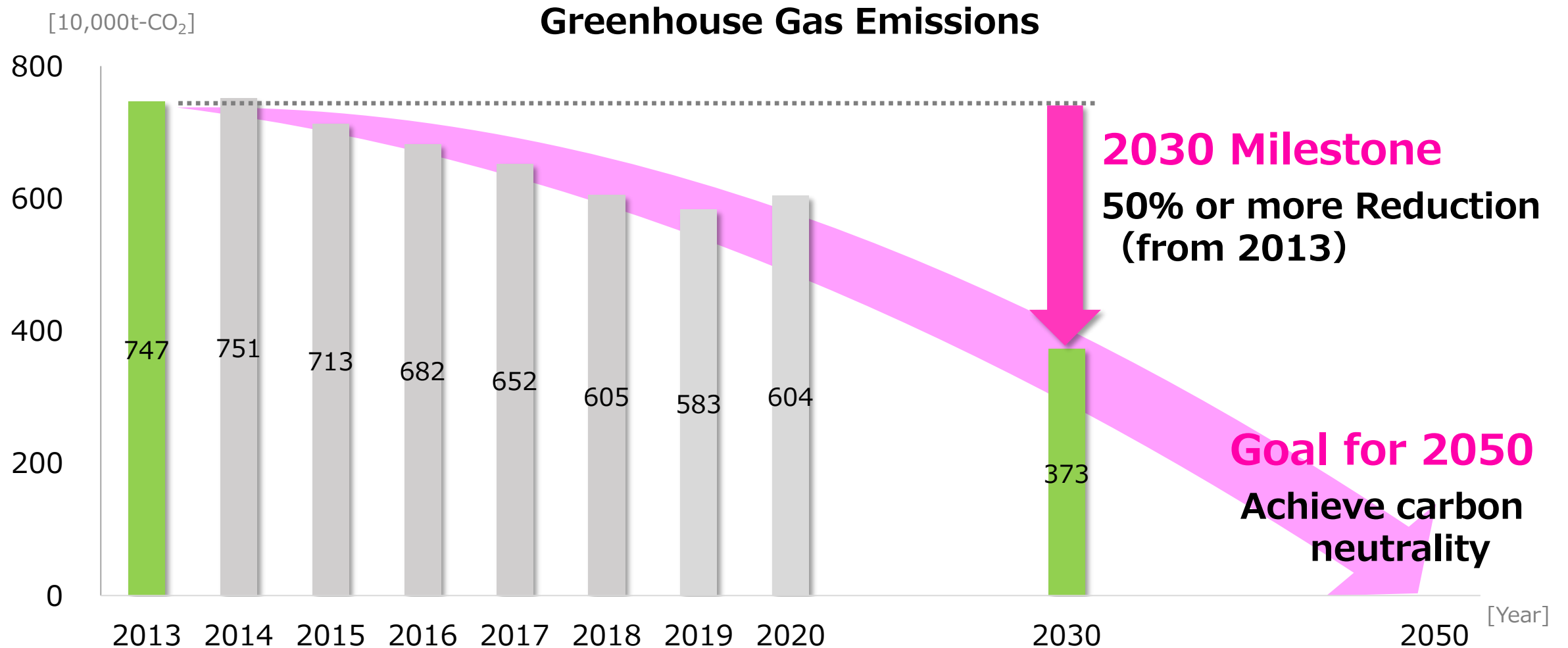
Comfortable

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



- Support for install of energy-saving equipment to factories, etc

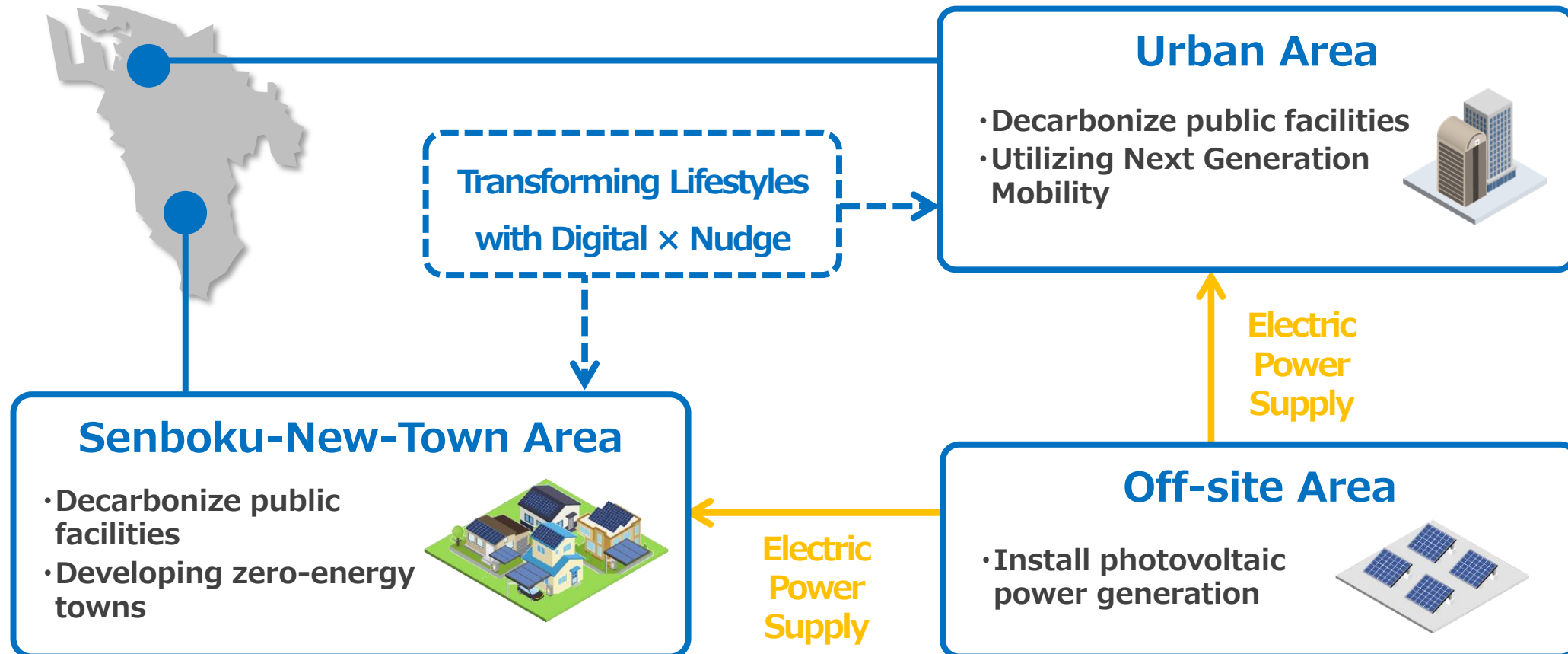


- Utilization of unused energy sources, such as heat from reclaimed sewage water and waste-to-energy



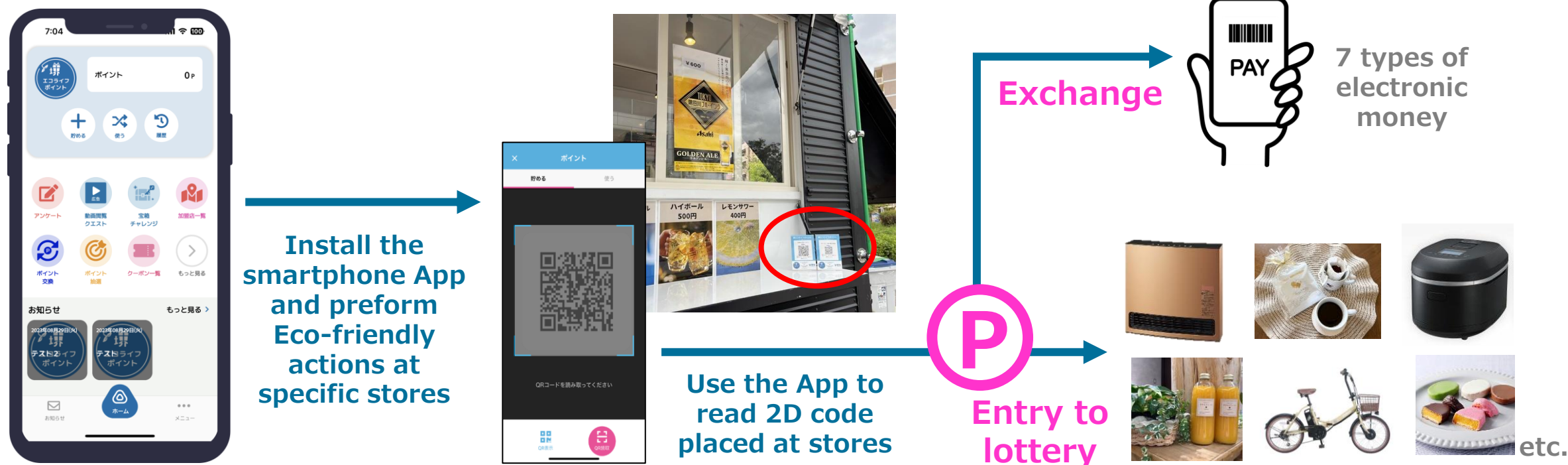
Selected by the Japanese government for Decarbonization Leading Area “Sakai Locally Produce and Consume Energy Project”

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



Decarbonizing Lifestyles

- We are implementing “Sakai Eco-Life Point Program”, in order to promote the decarbonization of the lifestyles of citizens.
- This program awards points to those who perform Eco-friendly actions. They can use their points to exchange for electronic money or to entry to gift lottery.



【Target Actions for points】 21 items, including Buy beverage in own bottle, Use of shared bicycles, Reuse of clothing, Purchase energy-sufficient appliance, etc

Promote comprehensive decarbonization of lifestyles

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.

Quang Ninh Province (Vietnam)

Worked with Osaka Prefecture University (at the time) to improve the environment of Ha long Bay.
(2013-2016)
(JICA Partnership Program)

Ba Ria - Vung Tau Province (Vietnam)

City-to-City Collaboration project for decarbonization and smart city formation (2022~)
(MoEJ : City-to-City Collaboration program for Zero-Carbon Society)

Gwangju City (Korea)

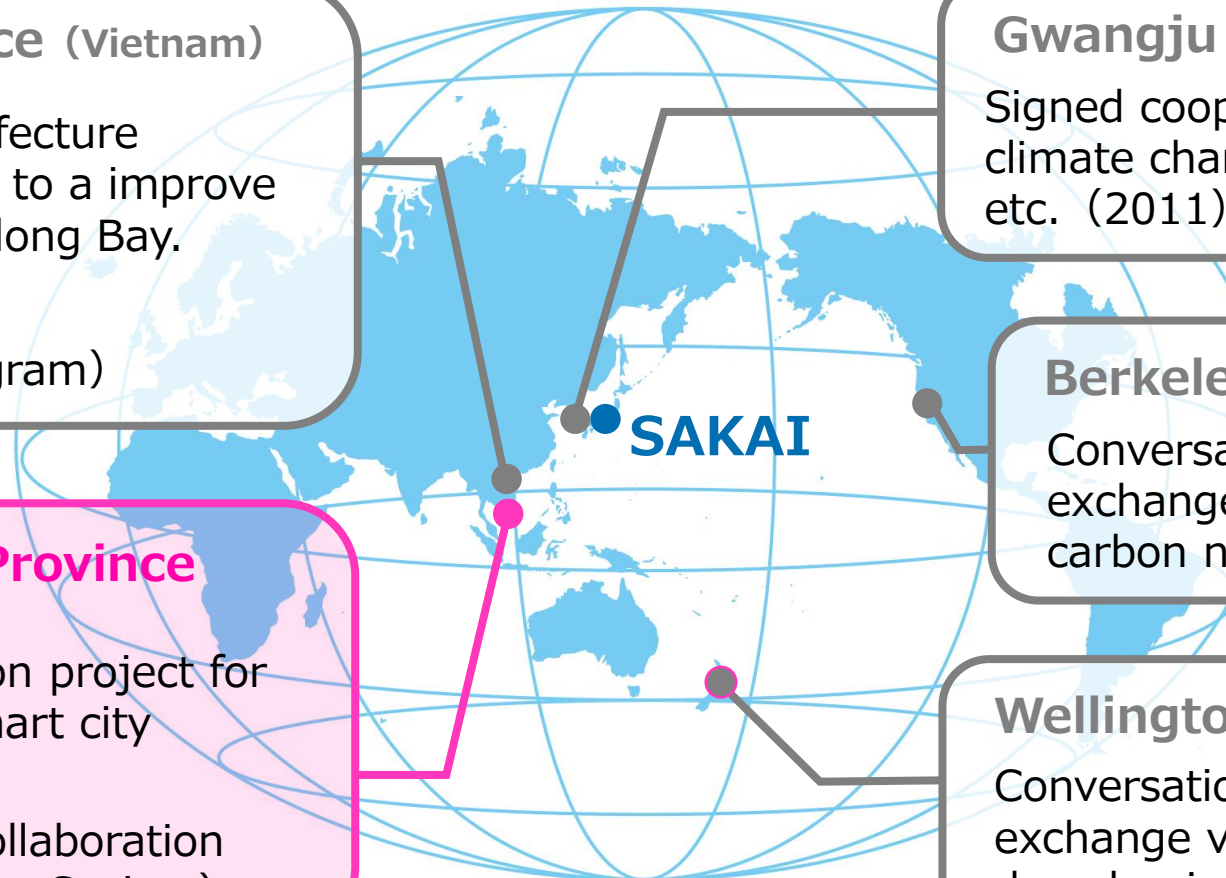
Signed cooperation agreements on climate change, waste management, etc. (2011)

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



Background of collaboration with Ba Ria - Vung Tau Province



- 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 on decarbonization.



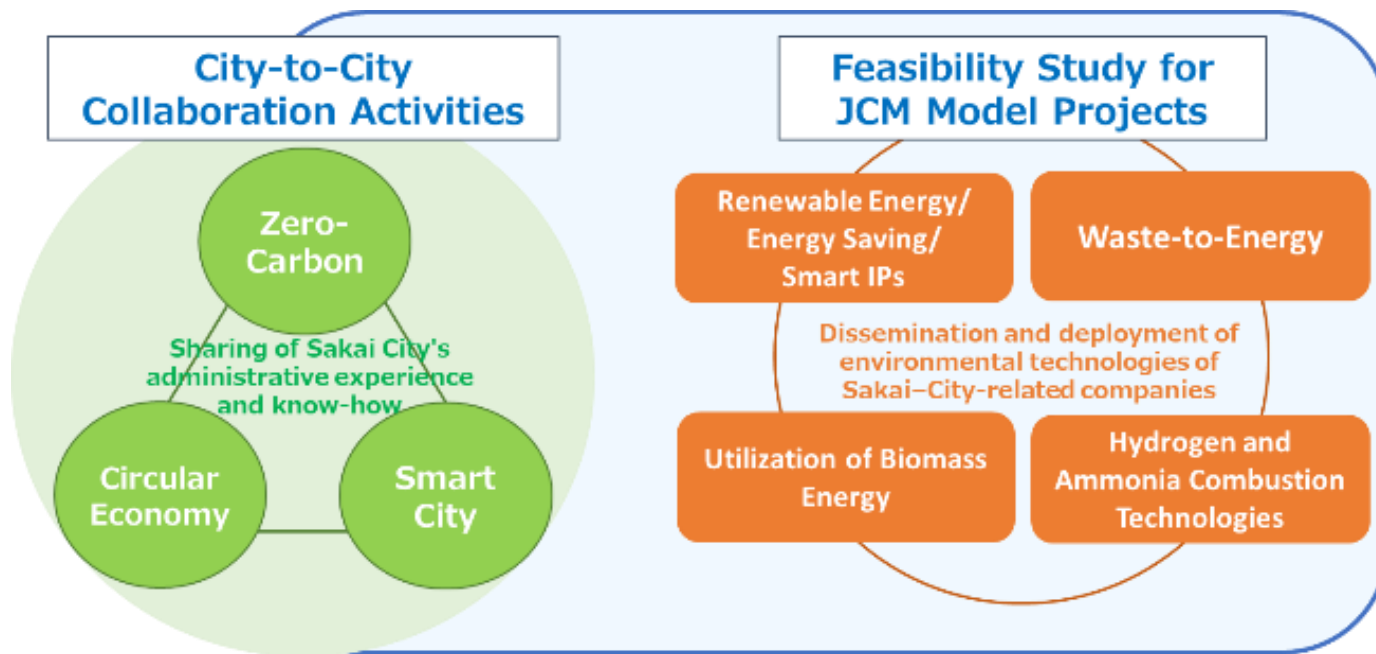
Phu My 3 Special Industrial Park

(source : Thanh Binh Phu My Joint Stock Company)



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 (such as solar power generation), alternative energy (such as hydrogen), and 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

Sakai City will also work with JICA technical-cooperation project to create specific good practice for Clean City Partnership Program.

Thank you very much



Both cities will have MOU concluding session after the presentation by Ba Ria – Vung Tau Province.