



SDGs未来都市
北九州市

Green Growth Strategy of Kitakyushu City

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History of Overcoming Pollution Problems



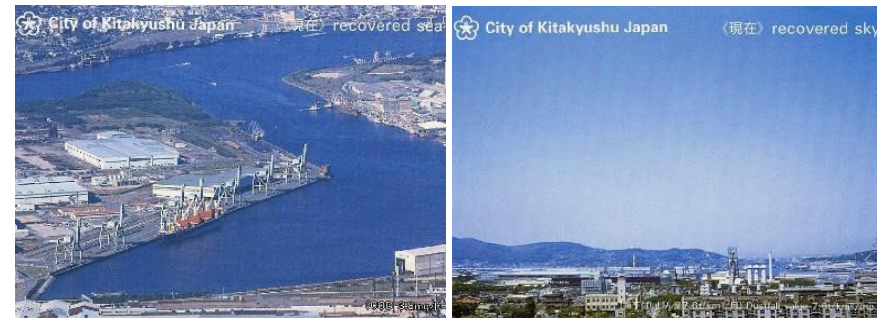
Population: 939,961 (March 2021)

Area: 491.95 km²

1960s



Today



Selection as Model City

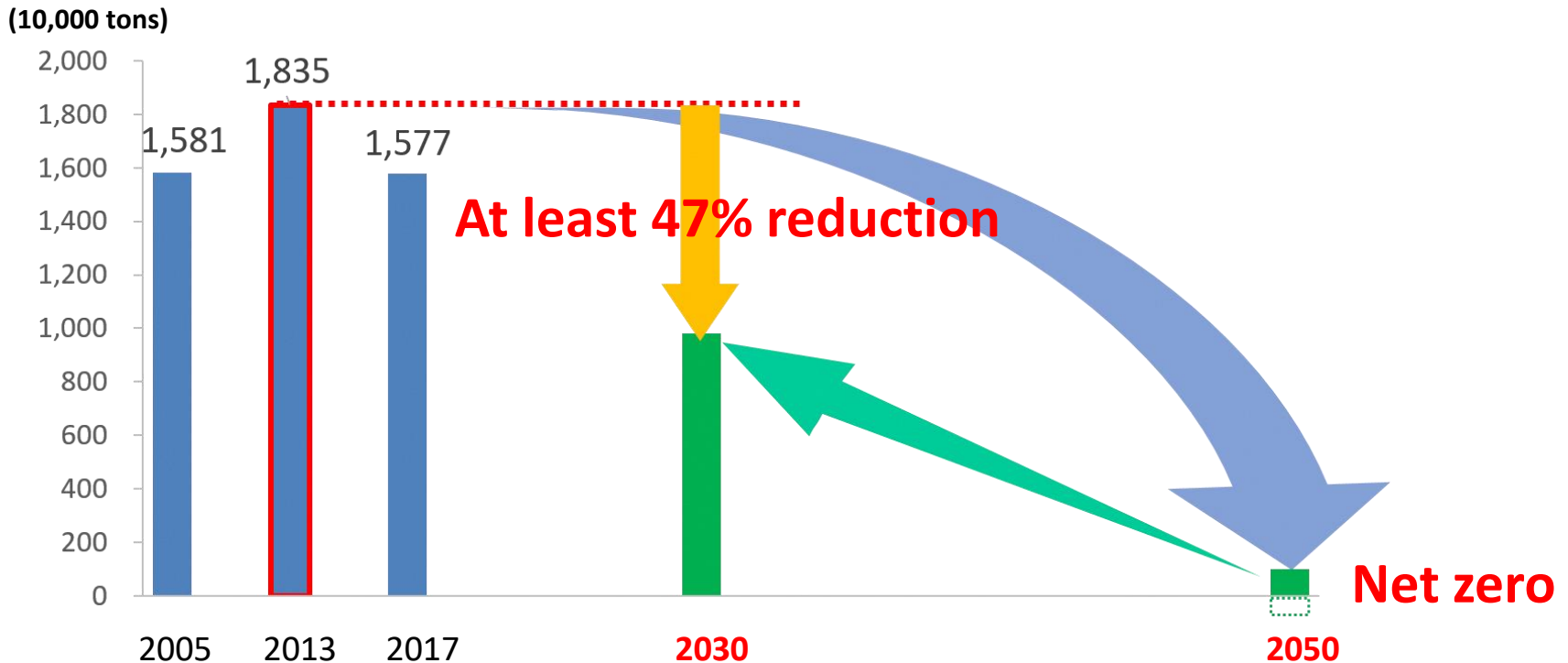
- 2009 Certified as **Eco-Model City** (Japan)
- 2011 Selected as **FutureCity** (Japan)
- 2018 Selected as **SDGs FutureCity** (OECD)

Targets as a Zero-Carbon City

Zero Carbon City Declaration (2020.10)

Reduction Targets

2050	Net zero greenhouse gas emissions in city
2030	At least 47% reduction from FY2013



Kitakyushu City's Green Growth Strategy (1/2)



Mission

Increase city's competitiveness and appeal

Vision

Creation of a Zero-Carbon City through a positive cycle between the environment and economy

Value

3 Cs

- **C**ircular Economy
- **C**ooperation
(between industry, government and academia)
- **C**hallenge (in taking progressive approaches)

Kitakyushu City's Green Growth Strategy (2/2)

① Supply highly-economical decarbonized energy

- Create systems to ensure the stable use of decarbonized power
 - Maximize the introduction of renewable energy, such as wind power
 - Establish a stable supply of power through the use of EVs and storage batteries
- Utilize hydrogen in industrial processes that are difficult to electrify
 - Use hydrogen through methanation, etc.
 - Develop base for the import and supply of hydrogen from overseas and renewable hydrogen

② Create new industries and services in green sectors and decarbonize existing industries

- Promote the use of decarbonized power to create new industries and improve the competitiveness of existing industries
 - Establish comprehensive base for wind power industries
 - Expand markets for reuse of PV and storage batteries, recycling industries
 - Decarbonize SMEs (automotive, niche top)
- Hydrogen zero-carbon logistics using advanced technologies
 - Use FCVs for long-distance logistics
 - Apply cutting-edge technologies, such as autonomous driving, etc.

Decarbonized power

Hydrogen (heat)

③ Create an environment to encourage innovation

- Establish a platform for the creation of decarbonization-related businesses
- Provide accompanied support for the effective use of public funds and acquisition of private funding
- Train and acquire human resources to promote the creation of a decarbonized society

④ Expand into overseas markets, especially in Asia which is expected to grow in the future


Creation of a Comprehensive Base for Wind Power Industries

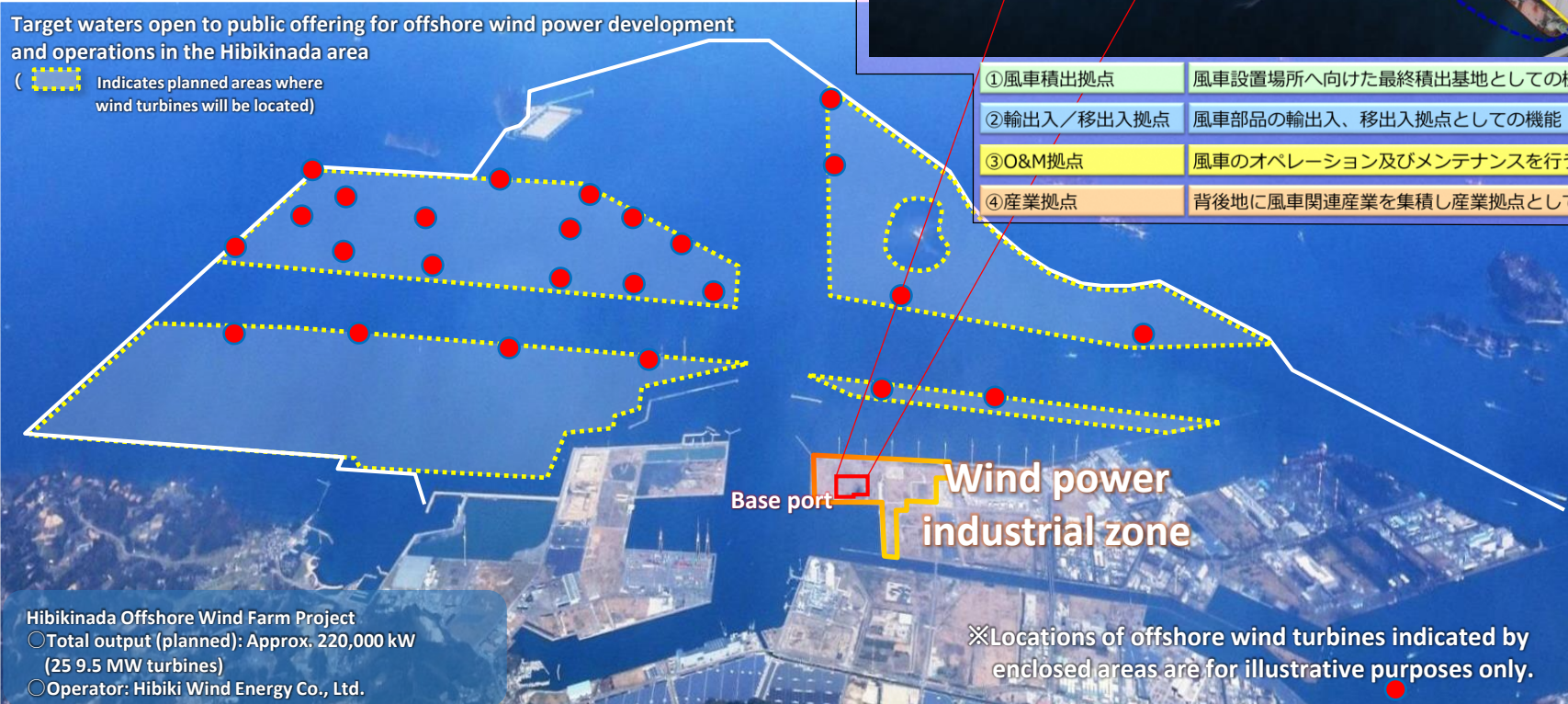
- Formation of a **comprehensive base** with four functions
- Designated as the only **base port in western Japan for offshore wind power** in September 2020 under the Port and Harbor Act
- Implementation of activities in cooperation with the prefectural government on **designating promotional zones in the general sea area based on the Act on Promoting the Utilization of Sea Areas for the Development of Marine Renewable Energy Power Generation Facilities**, in addition to the port area mentioned above.



① 風車積出拠点	風車設置場所へ向けた最終積出基地としての機能
② 輸出入/移出入拠点	風車部品の輸出入、移出入拠点としての機能
③ O&M拠点	風車のオペレーション及びメンテナンスを行う機能
④ 産業拠点	背後地に風車関連産業を集積し産業拠点としての機能

Target waters open to public offering for offshore wind power development and operations in the Hibikinada area

( Indicates planned areas where wind turbines will be located)



Hibikinada Offshore Wind Farm Project
 ○ Total output (planned): Approx. 220,000 kW
 (25 9.5 MW turbines)
 ○ Operator: Hibiki Wind Energy Co., Ltd.

※ Locations of offshore wind turbines indicated by enclosed areas are for illustrative purposes only.

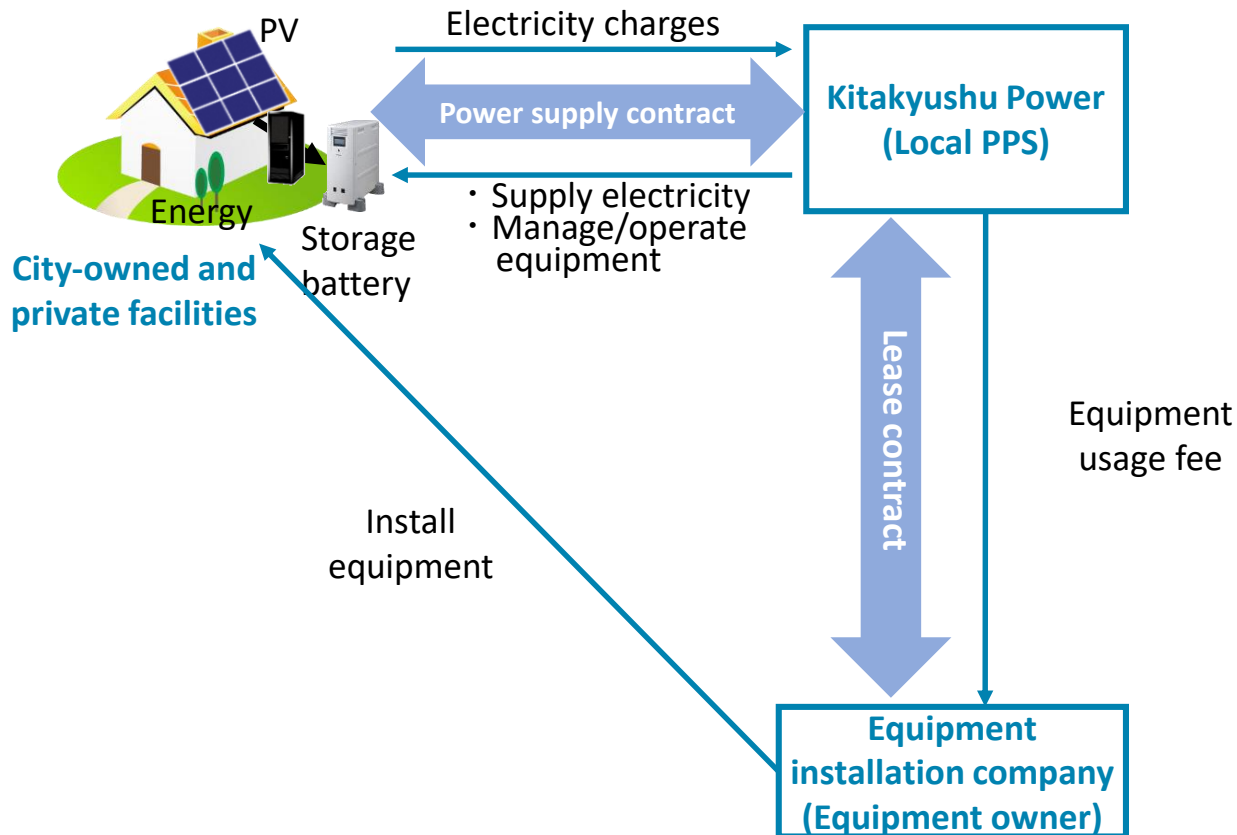
RE100 for Public Facilities (Kitakyushu Model for 100% Renewable Energy)

Solar plus storage PPA (Power Purchase Agreement)

No initial investment

Speeds up introduction

Reduces total cost by extending service life with IoT



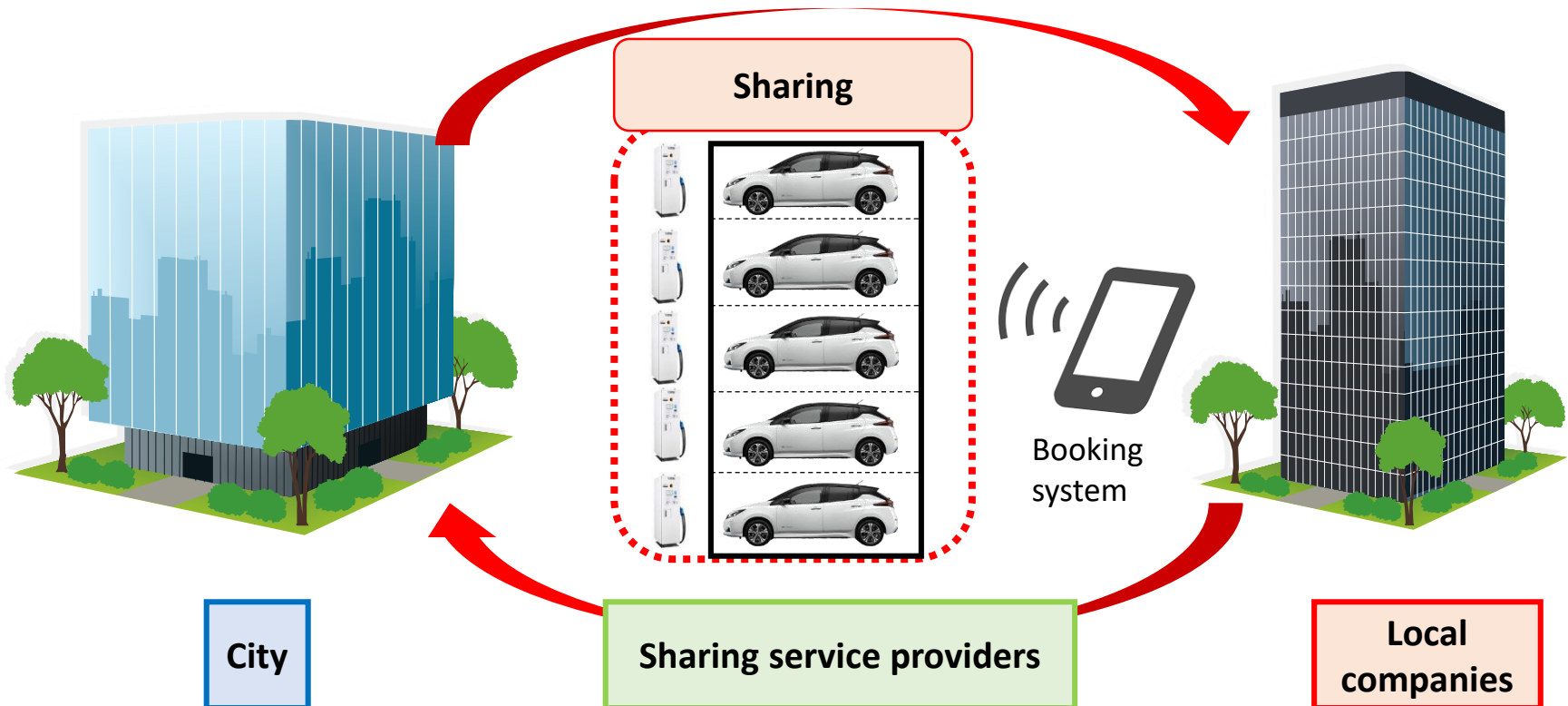
Car Sharing Initiative for EV Public Vehicles with Local Companies (under consideration)

Reduce waste through the use of idle assets

Optimize number of vehicles with the introduction of a vehicle management system

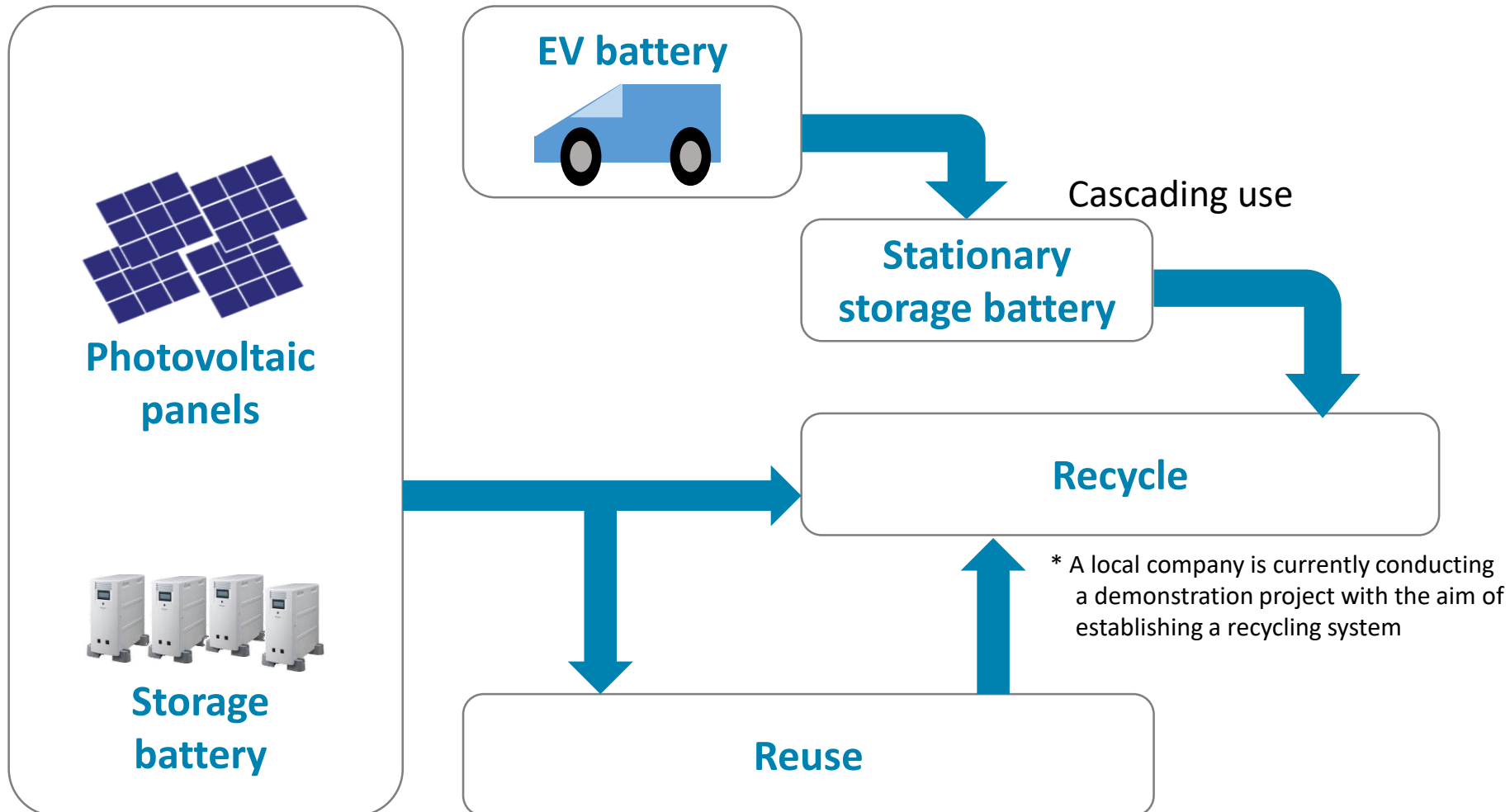
Improve operation rates through sharing

Create opportunities to ride in EVs



Reuse & Recycling of PV Panels and Storage Batteries

Establishment of reuse market Promotion of recycling with focus on Eco-Town



Initiatives for Establishing Bases for Hydrogen Supply & Use

Demonstration projects and PR in Hydrogen Town

Supply of hydrogen to fuel cells in residences via hydrogen pipeline (1.2km)

- ◆ 9 demonstration projects, 10 participating companies

Demonstration project on the production of CO₂-free hydrogen

Implementation of demonstration project on the production of hydrogen using surplus renewable energy generated locally and supply of produced hydrogen around the city (2019-2022)

Widespread use of FCVs and hydrogen stations

Promotion of the widespread use of FCVs and other vehicles and development of hydrogen stations to expand use and increase the public's understanding of hydrogen.

- ◆ Local hydrogen stations (2 locations)
- Introduction of FCVs for official public use (4 vehicles)

Kitakyushu Hydrogen Town



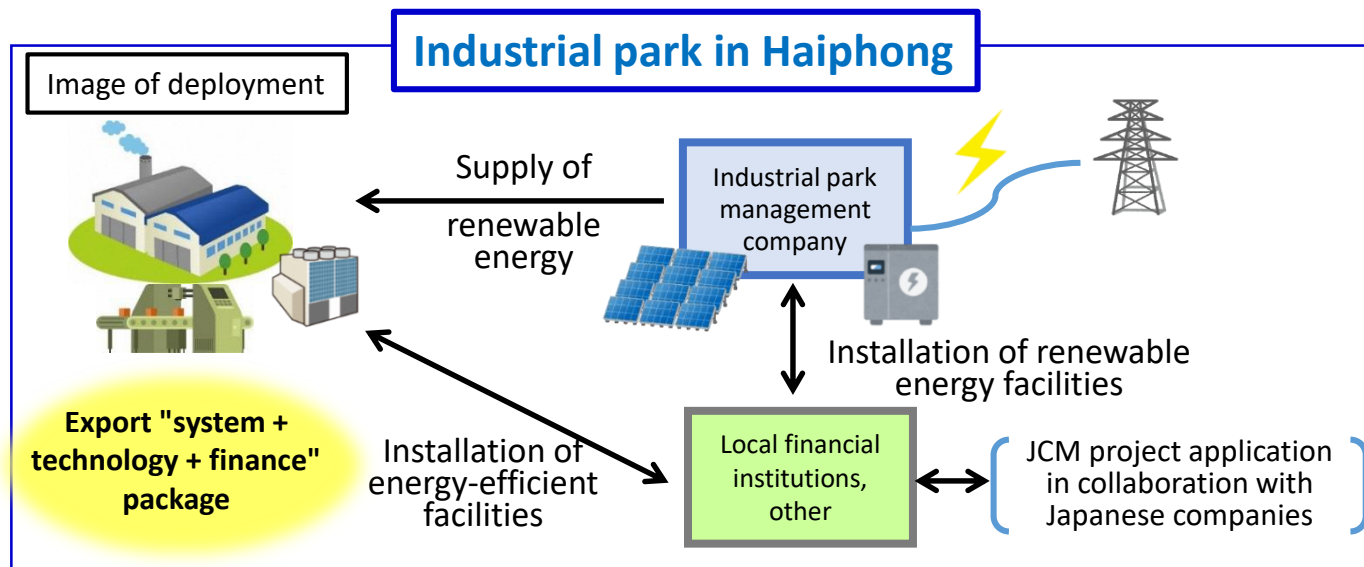
International Cooperation

Partnerships with Asian countries for mutual prosperity

- Status of projects for low-carbon development in Asia:
16 countries and regions, **84** cities (**238** projects)
Over JPY **25 billion**
- Trainees accepted: **9,956 people** from 166 countries
- Experts dispatched : **215 people** to 25 countries

Project on the formation of an eco-industrial park in Haiphong City, Vietnam

(Supported by the Ministry of the Environment, Japan)



Kitakyushu's environmental technologies

