Kitakyushu City's Initiatives to decarbonization of the world

1 Introduction to Kitakyushu City

- 2 History of overcoming pollution
- **3** Sustainable efforts through citizen environmental power
- 4 Initiatives to realize a decarbonized society
 - Goals aimed at creating a decarbonized society through a virtuous cycle of environment and economy
 - Examples of specific initiatives
- 5 international contribution



北九州市は持続可能な開発目標(SDGs)を支援しています。

2024年1月 北九州市環境国際戦略課

About Kitakyushu City



Abundant nature and special local agricultural and marine products



Karst plateau and Hiraodai



Northern shore of Wakamatsu







Kokura Beef

Buzen sea oyster

Wakamatsu specialty tomato

Representative Enterprises of Kitakyushu



Nippon Steel







ΤΟΤΟ

2

Experience in Overcoming Pollution & Environmental Policies



Start of operations at Yawata Steel Works

Development as an iron-producing city

1950

1901

 $1960\sim$



Trinity of Waste Management (3R) Initiatives



Aiming for the Top Runner of SDGs

Grand Design towards the Creation of a "World Capital of Sustainable Development" completed in 2004

COMMITMENT OF THE RESIDENTS OF KITAKYUSHU TO ALL PEOPLE, THE EARTH AND FUTURE GENERATIONS, born after many discussions by citizen, NPOs, businesses, and administrations etc



Period for development: 2 years Citizen's opinion: more than 1,000 Holding of Citizens Forum: 2 times Examination meeting (34 members): General meeting 4 times, sectional meeting 10 times



Kitakyushu Basic Environmental Plan incorporating the SDGs (Nov. 2017)

Addressing various issues in Kitakyushu, Japan and the world from an environmental point of view



 Political goals Basic objectives Individual project measures



SDGs Future City Initiative by Gov. of Japan (Jun. 2018)







SDGs Pilot Model City for territorial approach by **OECD** (Apr. 2018) 5

Kitakyushu's Ambitions as a Zero Carbon City



Kitakyushu Model for 100% Renewable Energy

1 Fastest* conversion of public facilities to 100% renewable energy in Japan (*Prefectures and designated cities)



2 Installation of solar + energy storage facilities and procurement on-site through third-party Power Purchase Agreements (PPA)

Promoting the Electrification of Public Vehicles & Car Sharing Demonstration

Promoting the electrification of public vehicles

Aim at **100% electrification** of general public vehicles (approx. 800), excluding special vehicles, **by FY 2030**

Car sharing demonstration project with private companies (FY 2022~)

Collaborate with companies to promote the introduction of EVs



Creation of a Comprehensive Base for Wind Power Industries

Features of the Hibikinada area

- Expansive industrial site located adjacent to the port
- Well-developed port facilities
- Concentration of companies supporting the manufacturing industry located behind the port
- Favorable wind conditions

Status of specific activities

Phase 1: Attracting empirical research facilities
Phase 2: Attracting large-scale offshore wind farms
Phase 3: Improving the environment to develop the foundation for a comprehensive base and initiatives to enhance base functions



Ambition to Contribute to Global Decarbonization

Partnerships with Asian countries for mutual prosperity

Progress of low carbon project in Asia: 16 countries and areas, 84 cities, 238 cases, over JPY 25 billion Trainees accepted: **9,956 people from 166 countries** Sending specialists: **215 people to 25 countries**







Resource Recycling of Marine Plastic Waste in Thailand

Synergy

I SAMF





Utilizing

- Using produced oil, charcoal, water and salt within the island aiming to develop closed island plastic recycling system
- Promoting tourism as a Zero Plastic Island

Hotel owners / Ferry companies



Established Recycling System

 Recycling system using superheated steam to convert plastic and organic compounds into oil and charcoal





SEA Circular Initiative (existing activities)

Reducing plastic brought onto the islandPET to PET recycling by Coca Cola

Collection system

 Collecting waste plastics and marine plastics and improve the solid waste management system on the island



Rayong Province

environment programme

Verification for Zero Plastic Island



 Measuring and verifying the plastic neutrality of the island to offset activities through recycling

Feasibility Survey of the implementation of EV vehicles in the state of Koror, Republic of Palau

Koror and Kitakyushu have been cooperating for a long time to establish a comprehensive resource recycling system.

Since FY2020, City of Kitakyushu has been conducting a feasibility study for the introduction of EV buses and EV Garbage trucks.

(1)Project of introduction EV vehicles for tourism sector



(2)Project of introduction EV vehicles for waste transportation sector







ATGREEN



Finding Solutions to Common Global Issues with Kitakyushu's Environmental Technologies

Kitakyushu's environmental technologies



and helping the world achieve the SDGs!!