







Towards Carbon Neutrality through city-to-city Collaboration

Environmental Mascots of Kitakyushu



TEITAN & Black TEITAN

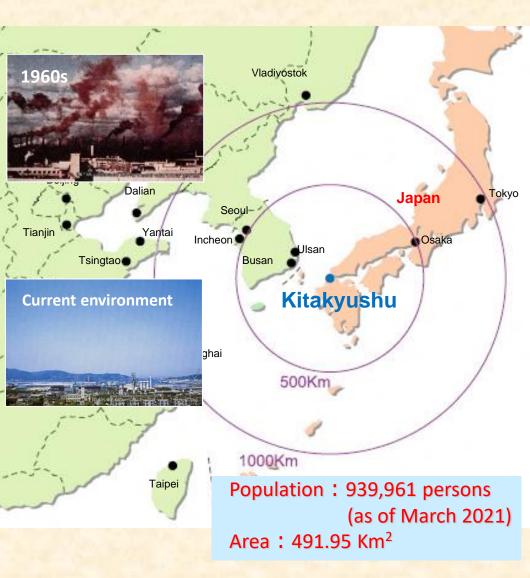


Feb 7 2024, City of Kitakyushu, JAPAN



Introducing Kitakyushu City





Abundant nature and special local agricultural and marine products







Northern shore of Wakamatsu







tomato

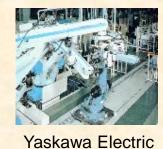
Kokura Beef

Buzen sea oyster Wakamatsu specialty

Representative Enterprises of Kitakyushu



Nippon Steel



Corporation



ΤΟΤΟ

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Overcoming Environmental Pollution

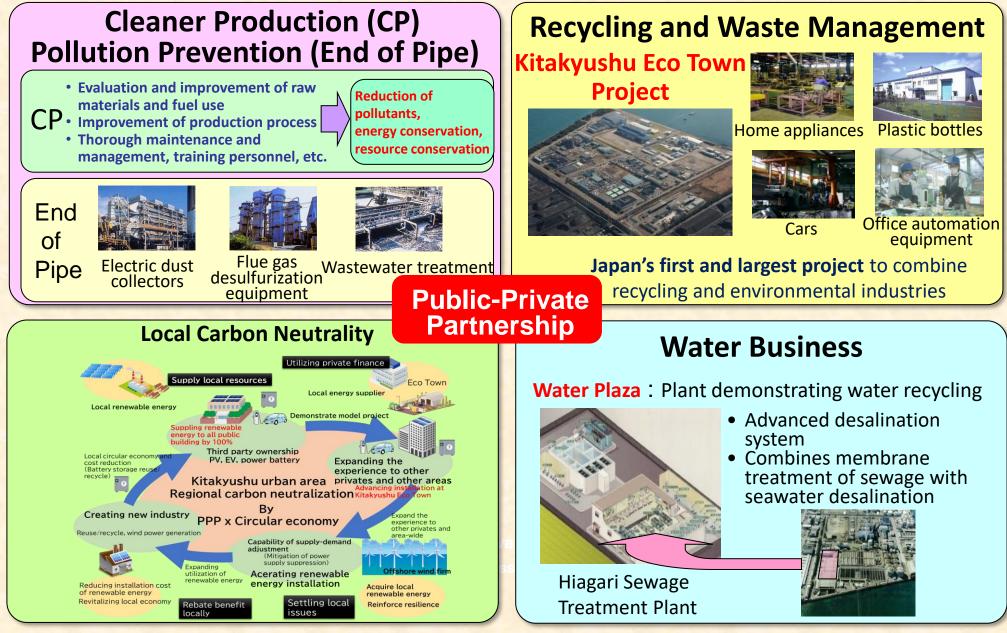






Experience in Environmental Technologies







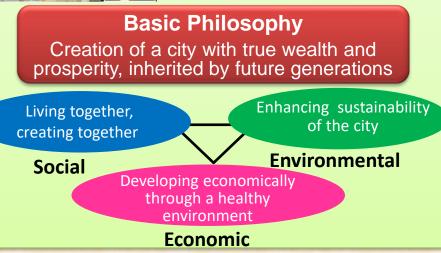
Aiming for the Top Runner of SDGs



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



Providing Technology to Overcome Pollution to the World since 1980



Promoting "international environmental cooperation" centered on human resource development in order to utilize the environmental technology and know-how accumulated in Kitakyushu to improve the environment in developing countries.





Trainees in Kitakyushu 6,682 from 156 countries

Experts from Kitakyushu 213 to 13 countries

Environment

Kitakyushu

Trainees in Kitakyushu 10,499 from 166 countries

Experts from Kitakyushu About 240 to 30 countries





Kitakyushu Asia Center for Carbon Neutrality (Est. June 2010)



- Leverages environmental technologies developed in the experience of reducing pollution and the process of manufacturing
- •Utilizes inter-city networks built through 40 years of international cooperation
- Consolidates the environmental technologies of Kitakyushu and Japan
- Helps local companies in Kitakyushu expand operations overseas and cities throughout Asia to become low-carbon societies by engaging environmental businesses

~Three organizations collaborating to help environmental businesses expand worldwide~

City of Kitakyushu





International training and dispatch of experts to support the transfer of technology overseas

Promoting carbon neutrality throughout Asia"

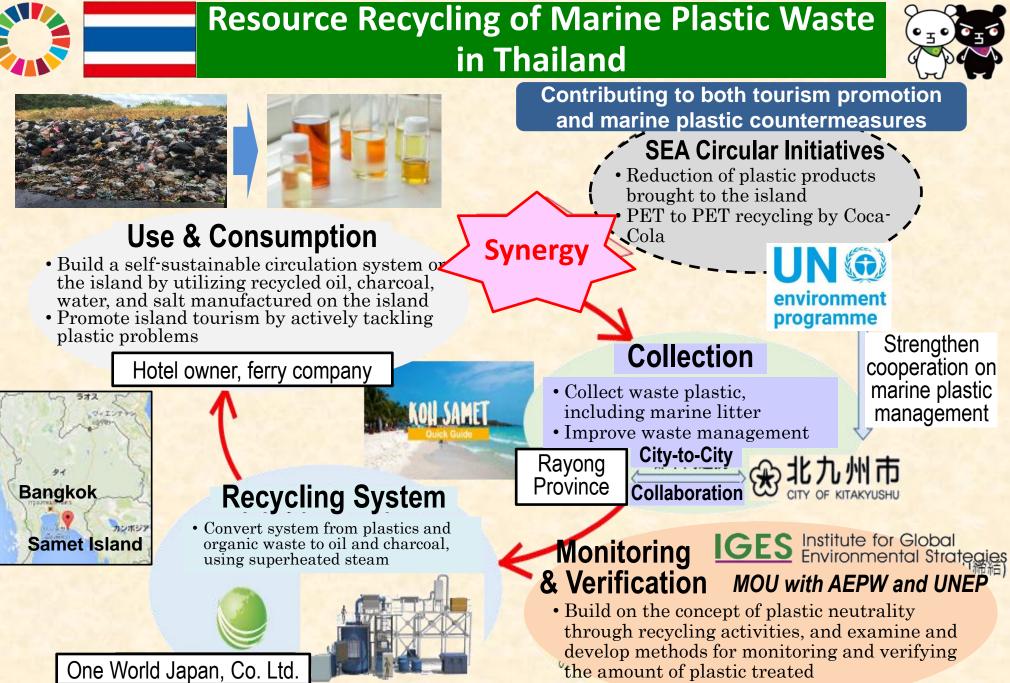
President Hiroshi Comprehensive, one-stop support for companies exporting environmental technology Komiyama (former president of Tokyo Univ.)



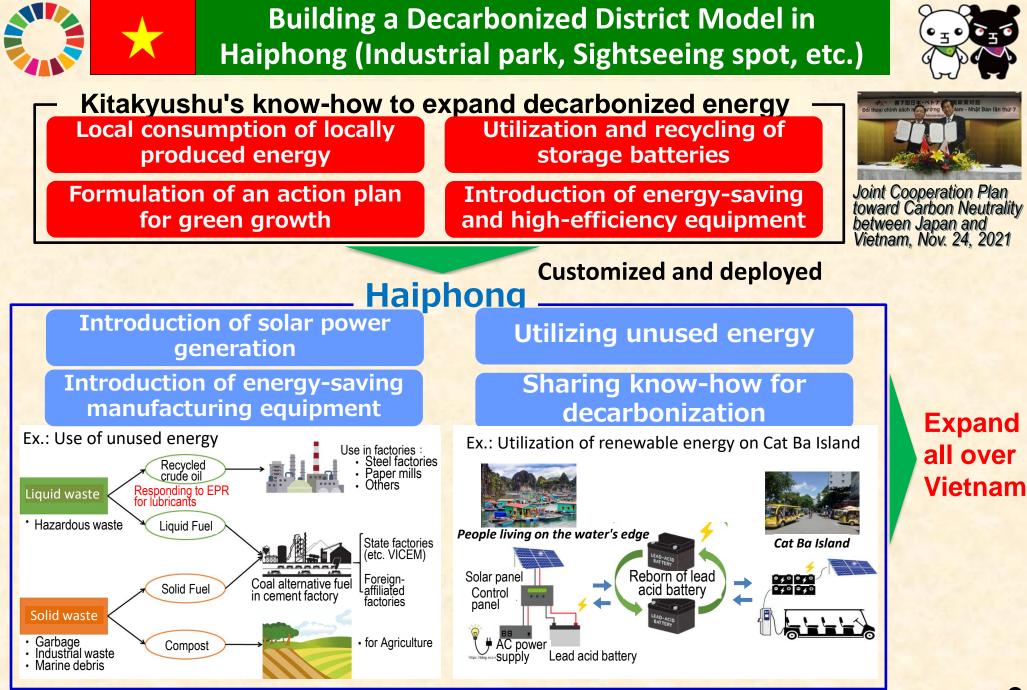
Research on urban environmental issues and development of intercity networks

Kitakyushu International Techno-cooperative Association Kitakyushu Urban Centre, Institute for Global Environmental GES **Strategies** [IGES] since 1999 (KITA) since 1980

> ♦89 cities in 18 countries ♦267 projects Procured over 32 billion yen (as of the end of FY2022)



5 ton 18atch URB-50



City-to-City Collaboration Projects to support decarbonization by the Ministry of Environment, Gov. of Japan (FY2021–)

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Peatland Fire Countermeasures Using Nature-friendly Technology



"We Are Tomodachi" on Japanese Government official website in English

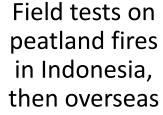
https://www.japan.go.jp/tomodachi/2019/autumn-winter2019/wildfires.html

Giant Kobe earthquake of 1995 • Fire hydrant failure • No access for large firefighting trucks

Medium- and small-size industries, government, and academia in Kitakyushu collaborated to develop fire extinguishing agent using less water

Pursue the possibility of overseas expansion through international firefighting training, etc.









Shabondama Soap Co., Ltd., soap-based firefighting foam training in Kitakyushu "Miracle Foam"

Firefighting technical



Demonstration on Kalimantan Island

- Naturally sourced soap that does not use synthetic \geq surfactants
- Less harmful to plant growth after fire extinguishing because of only binding with Ca and Mg
- Effective as a global water-saving measure because it can be used with less water





Waste Treatment



Waste separation and composting / Surabaya, Indonesia



Pollution at landfill site (Before project implementation)





Expert from Kitakyushu Compost used for provides guidance on how greening communities to compost food waste



Green Sister City since 2017 ※ Dr. (H.C.) Ir. TRI RISMAHARINI, Minister of Social Affairs (left)



Introduction of W-to-E facilities (2015–) / Davao, Philippines

Japanese Government in 2018



Trash scattered around the city



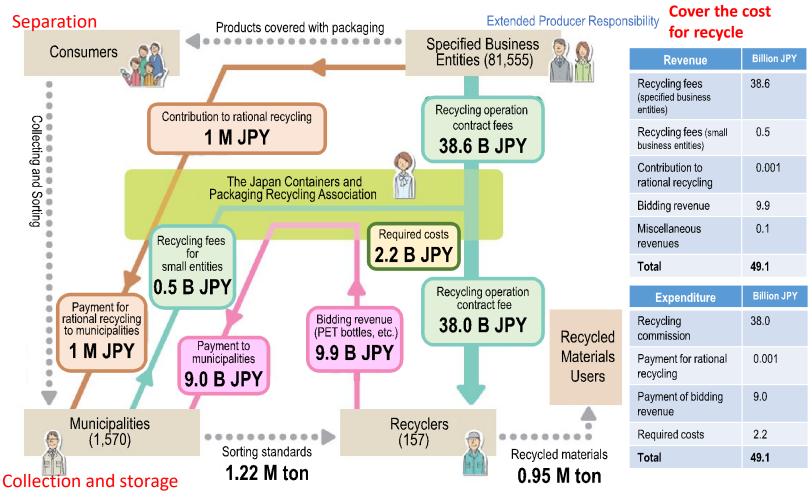
Artist's rendition of waste power generation facility



Green Sister City since 2017 X Vice President of Philippine Sara Duterte (left)



Waste containers and packages recycle system in Japan



公益財団法人 日本容器包装リサイクル協会 Copyright 2020 The Japan Containers and Packaging Recycling Association



Cooperative Relationships with International Relevant Organizations



Japan International Cooperation Agency



Comprehensive agreement to promote international strategies and cooperation for the development of ecofriendly cities, Feb. 2013

UN Industrial Development Organization



Mutual cooperation for the purpose of achieving a lowcarbon society, June 2010

THE World Bank





City Partnership Program about "Green growth" and "Waste management", Mar. 2017

Japan Bank for International Cooperation



Mutual cooperation related to climate change policy and water infrastructure, Dec. 2009

UNEP (UN Environment Programme)





Cooperation to build a collaborative framework to bear on plastic pollution in Southeast Asia, Aug. 2019.

Japan Overseas Infrastructure Investment Corporation for Transport & Urban Development





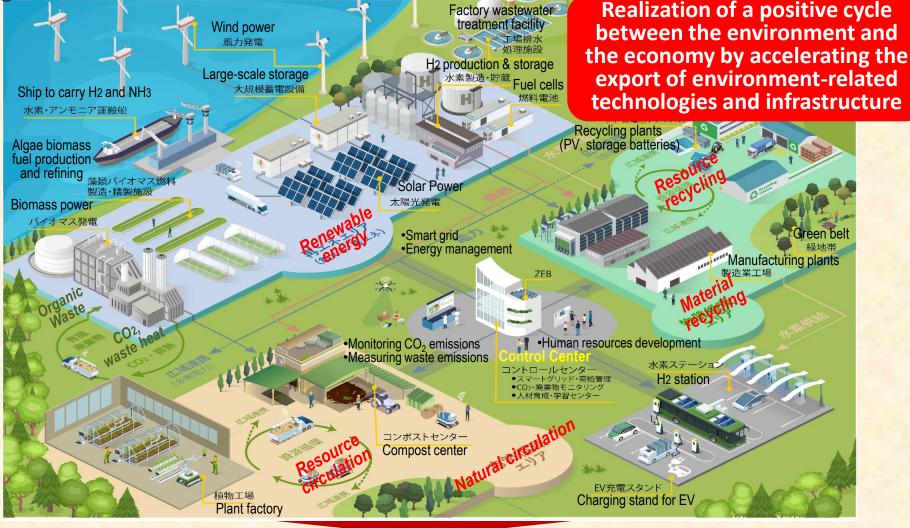
MOU of developing overseas business in the fields of urban areas such as waste management, clean energy, and water business, Jul. 202**2**.2

Two "zeros" and economic growth toward 2050



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* Image of Green Industrial Park



Economic Growth

Zero Emission (recycling society)

Zero Carbon (Carbon-Neutral Society)