

Aiming for Sustainable Development and a Decarbonized Society through City-to-City Cooperation



Toru HASHIMOTO

**Director General, International Affairs Bureau
City of Yokohama**

Yokohama at a Glance

明日をひらく都市
OPEN × PIONEER
YOKOHAMA



Yokohama

**2nd Largest City
in Japan**

Population: **3.77** million

Households: **1.80** million

Area: **438** km²

Minato Mirai 21

**Decarbonization
Leading Area**

Residents: **9,000**

Companies: **1,850**

Area: **186** ha



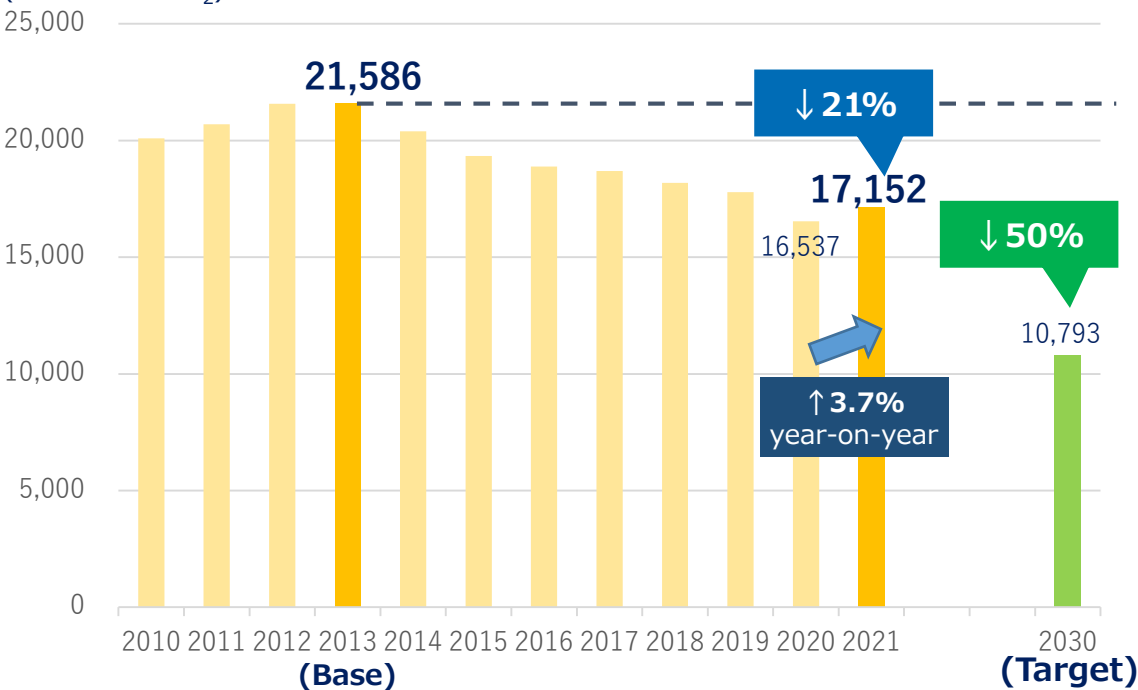
Carbon Dioxide Emissions in Yokohama

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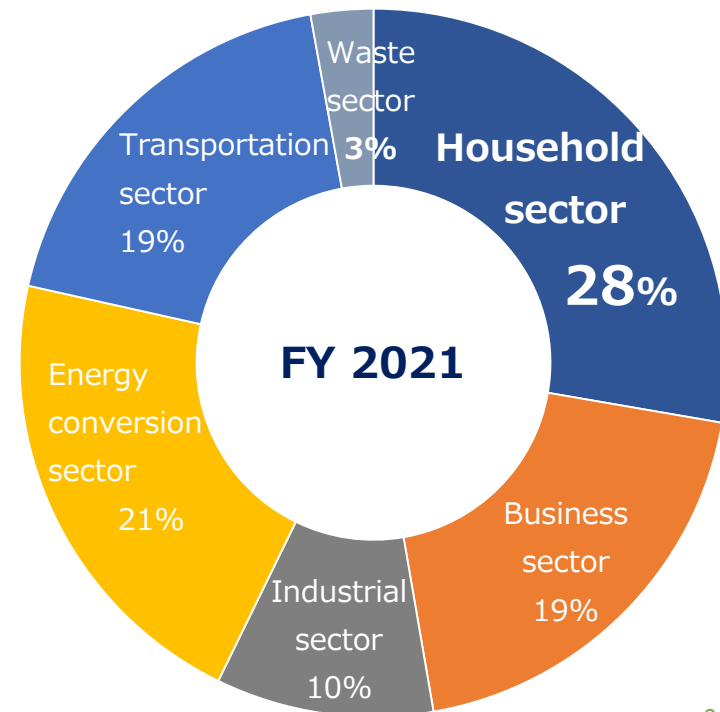
GHG emissions trend

“Zero Carbon Yokohama” Net-zero by 2050

(thousand t-CO₂)



GHG emissions by sector

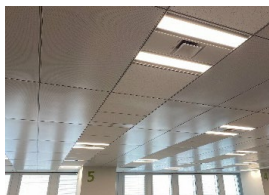


Decarbonization Leading Area and Beyond

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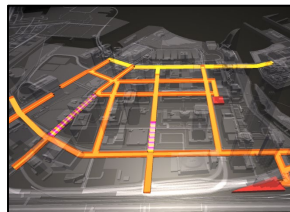
Energy Saving

- Conversion to LED
- Net zero energy building



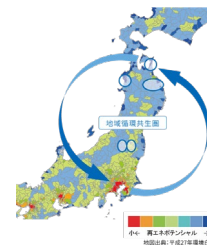
Decarbonizing DHC

- Conversion of electricity for heat production into renewable energy



Renewable Energy

- Utilizing **unused space** in public facilities
- Suppling from **outside of Yokohama**



Hydrogen Supply Chain



Vision for Decarbonization Innovation



Methanation



Importance of Urban Development Process

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Concept Master Plan

Developing **master plan** based on agreed concept

Investor Organization / Business Plan

Basic agreement among stakeholders

Detailed Plan Guideline

Planning **urban elements** (zoning, pedestrian network, skyline, etc.)

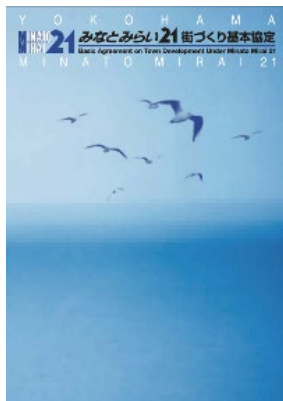
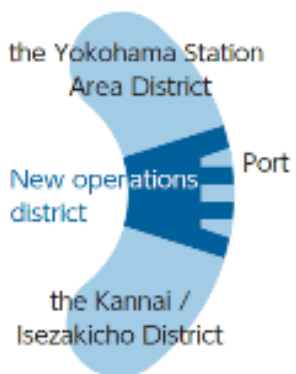
Infrastructure Master Dev.

Implementing **infrastructure** (renewable energy, emergency underground water tanks, district heating system, etc.)

Lot / Building Sub Dev.

City Operation Management

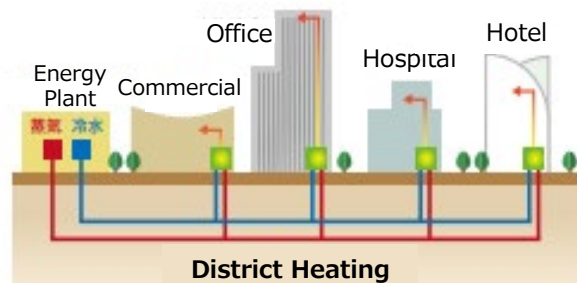
Establishing **area management** organization



Basic Agreement



⋮



Urban development and coordination

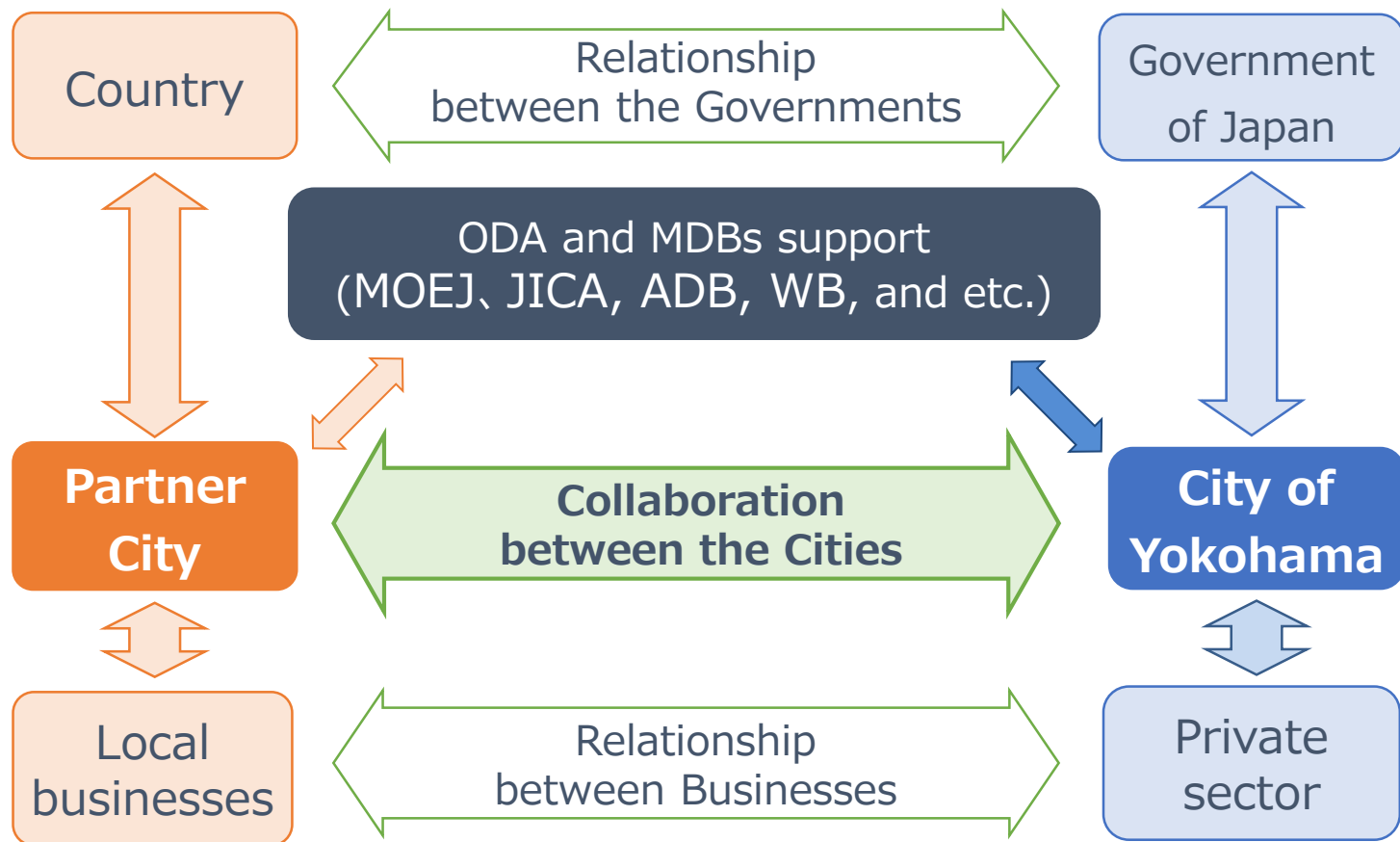
Environment preservation

Culture and tourism

Open innovation

Framework of City-to-City Cooperation

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City-to-City Collaboration with Da Nang City

- In 2022, Da Nang became the first municipality in Vietnam to announce its goal of achieving carbon neutrality by 2050.
- Yokohama, in cooperation with Da Nang, is promoting an city-to-city collaboration project supported by the Ministry of Environment for the formation of JCM projects.
- In addition, Yokohama, JICA, and YUSA member companies are working together to conduct surveys and technical cooperation on energy conservation, waste, and sewage treatment.



Major recent cooperation in the field of climate change

- Supporting the formulation of the "10-Year Environmental Plan" (2021-2030)
- Supporting the establishment of carbon management system
- Developing smart and sustainable urban planning strategies
- Education for climate change



Projects of the City-to-City Collaboration with Da Nang City



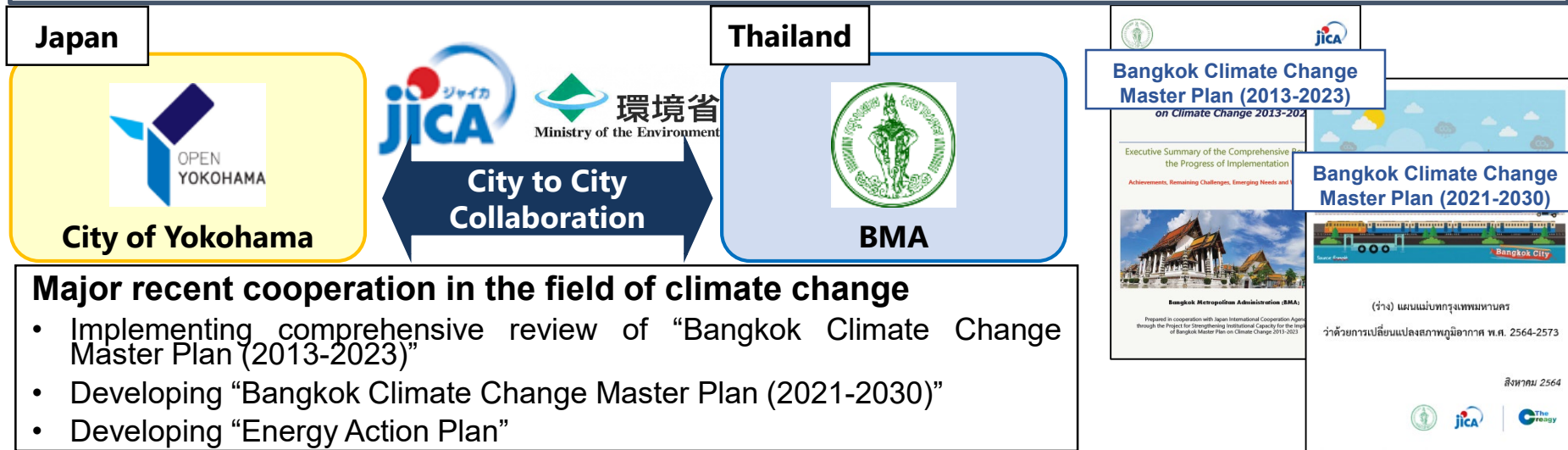
JCM model project on Introduction of High Efficiency Water Pumps at Water Treatment Plant



Energy saving diagnosis for CO2 emission reduction

City-to-City Collaboration with the Bangkok Metropolitan Administration (BMA)

- The City of Yokohama, in collaboration with JICA, has been supporting the Bangkok Metropolitan Administration's climate change measures for about 10 years.
- On November 15, 2023, an important step towards reducing worldwide carbon emissions was made at the 12th Asia Smart City Conference as the joint declaration, “Yokohama Declaration: Asian Cities Together Towards Zero Carbon”, was announced.
- A city-to-city collaboration project was launched in 2023, supported by the Ministry of Environment of Japan for the formation of JCM projects.



Projects of the City-to-City Collaboration with Da Nang City



Supply of electricity to factory from rooftop solar generator and advanced energy management system



IT Asset Disposition; Proper disposal of IT assets with a safe and reliable system

International Collaboration for Carbon Neutrality

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City Network



CITYNET
YOKOHAMA

International Organization



City to City

Bangkok

Cebu

Da Nang

Platform

Y-SHIP

Asia Smart City Conference
in YOKOHAMA

Private Sector

YU SA
YOKOHAMA URBAN
SOLUTION ALLIANCE



Further Information

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Y-PORT

Yokohama Partnership of Resources and Technologies

