CITY OF YOKOHAMA

How Japanese Cities address climate change - with examples of Yokohama City

Takaaki ITO
Executive Director,
Zero Carbon and GREEN×EXPO Promotion Bureau,
City of Yokohama

19th March 2025

明日をひらく都市OPEN×PIONEER

4 Pillars of Climate Actions



Empowering citizens

Energy-saving and renewable-energy housing

Support for energy-saving and renewable energy housing

EVs and FCVs

Support for vehicles and charging stations

Plastic Circulation

Collection and recycling of plastics from households

Empowering businesses

Leading Decarbonization Area

Decarbonization management of SMEs

- Net-Zero Declaration
- Support for capital investment
- "Y-SDGs": certification by the City Gov.

Innovation toward net zero

Utilizing innovative technologies

- Strengthening cooperation with local governments
- Carbon Neutral Port
- Demonstration on methanation
- Promotion of new-type PVs

Taking the lead as City Gov.

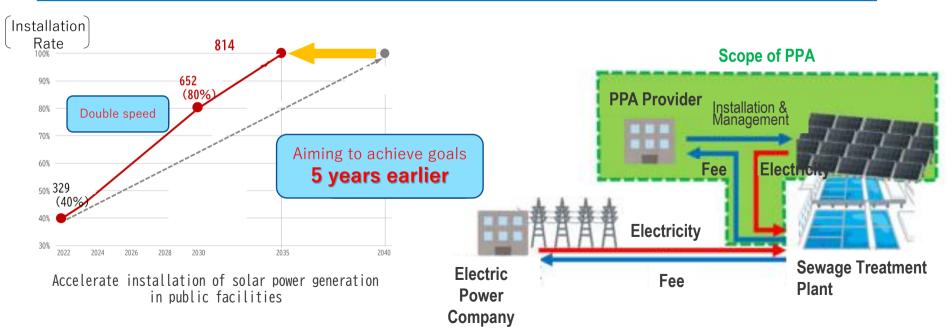
Decarbonizing public facilities

- PV installation through PPA
- Switch all lighting to LED
- Introduction of EVs for public vehicles

Speeding up at public facilities (1)



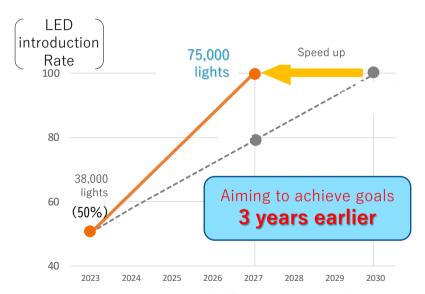
- Promote the installation of solar power generation in public facilities: 5 years earlier than the original target
- Active use of PPA (Power Purchase Agreement)



Speeding up at public facilities (2)



- · Accelerate the introduction of LED lighting in ward offices: 3 years earlier than the original target
- · A low-carbon city hall with maximum consideration for the environment was built in 2020



Accelerate introduction of LED lighting in ward offices





Solar Power Generation



Natural ventilation panels



Utilizing heat from underground

"ZEB Ready"

Adapting to the impacts of climate change



Indicators	2021 (Baseline)	2023	2025 Target
<pre>[Rivers] Riverbank improvement rate [Sewage] Countermeasure completion rate in target areas</pre>	Rivers 90% Sewage 85%	Rivers 90% Sewage 86%	Rivers 91% Sewage 88%

(Key Initiatives)

- O Promoting flood control measures through the improvement of riverbanks to withstand hourly rainfall of about 50 mm
- O Advancing measures for flood mitigation through trunk rainwater drainage lines and rainwater storage reservoirs



Riverbank Reinforcement (Hinode River, Konan Ward)

Indicator	2021 (Baseline)	2023	2025 Target
Number of Green Infrastructure Implementations	9 locations/year	14 locations/year	10 locations/year

(Key Initiatives)

O Promoting the introduction of green infrastructure in public facilities, such as parks, with functions for rainwater storage and permeability

Development of rainwater storage facilities



Rainwater storage trunk line

Equivalent to 164
Olympic-sized swimming pools



Total length: 20 km
Water storage capacity:
410,000 m3

▶ 8.5 meter diameter storm sewer pipe

Multipurpose retarding basin

Equivalent to 1,560 Olympic-sized swimming pools



Area: 84ha

Water storage capacity:

3,900,000m3

▶2024.8.30 Typhoon Shanshan

Sharing hazard information





*** Flood Hazard Map**

▲ Hazard maps for flood, inland water, landslide, etc. distributed to all households (1.8 million)



▲ Maximum flood depth is indicated on utility poles (blue tape)



▲ Realtime dissemination of river level information

Dissemination of evacuation alert





▲App
'Yokohama City
Evacuation Navi'



▲My Timeline to plan evacuation actions in preparation for a disaster.





▲Disaster experience program using digital technology (AR, VR)



▲ Signage at designated emergency shelters during heavy rain

Cool Share Spot to prevent heat stroke



A place where citizens and others can take a temporary rest when going out by utilizing existing facilities such as chairs and benches, etc., with air-conditioning facilities.

Established at over 600 facilities in the city

City facilities: 492 locations

Private facilities: 122 locations

Prefectural facilities: 19 locations







Thank you very much