Yokohama Smart City Project
For a sustainable low-carbon city

YOKOHAMA SMART CITY PROJECT

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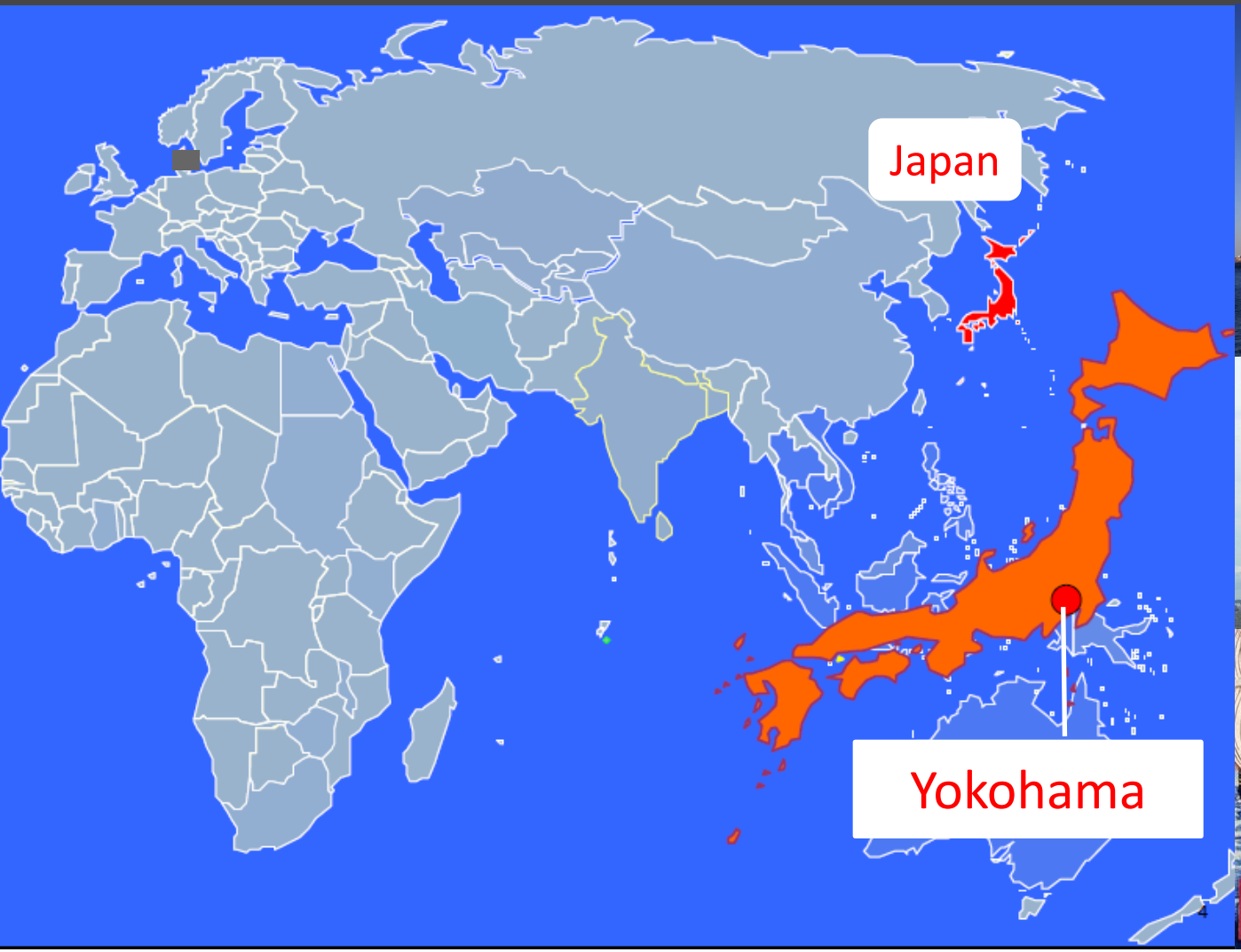
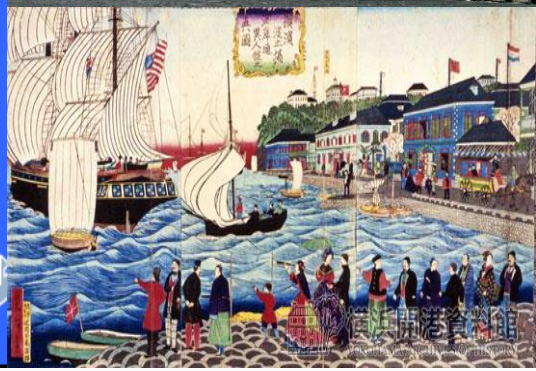
City of Yokohama

Yokohama – city profile

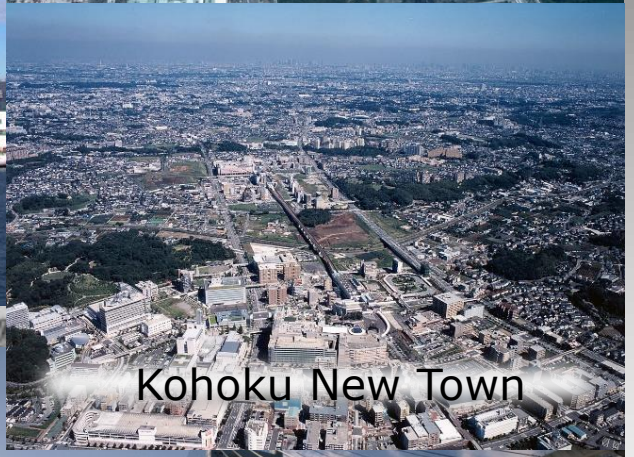




Population 3.7million – Japanese Second Largest City

Rapid Growth Period

The 6 Strategic Projects

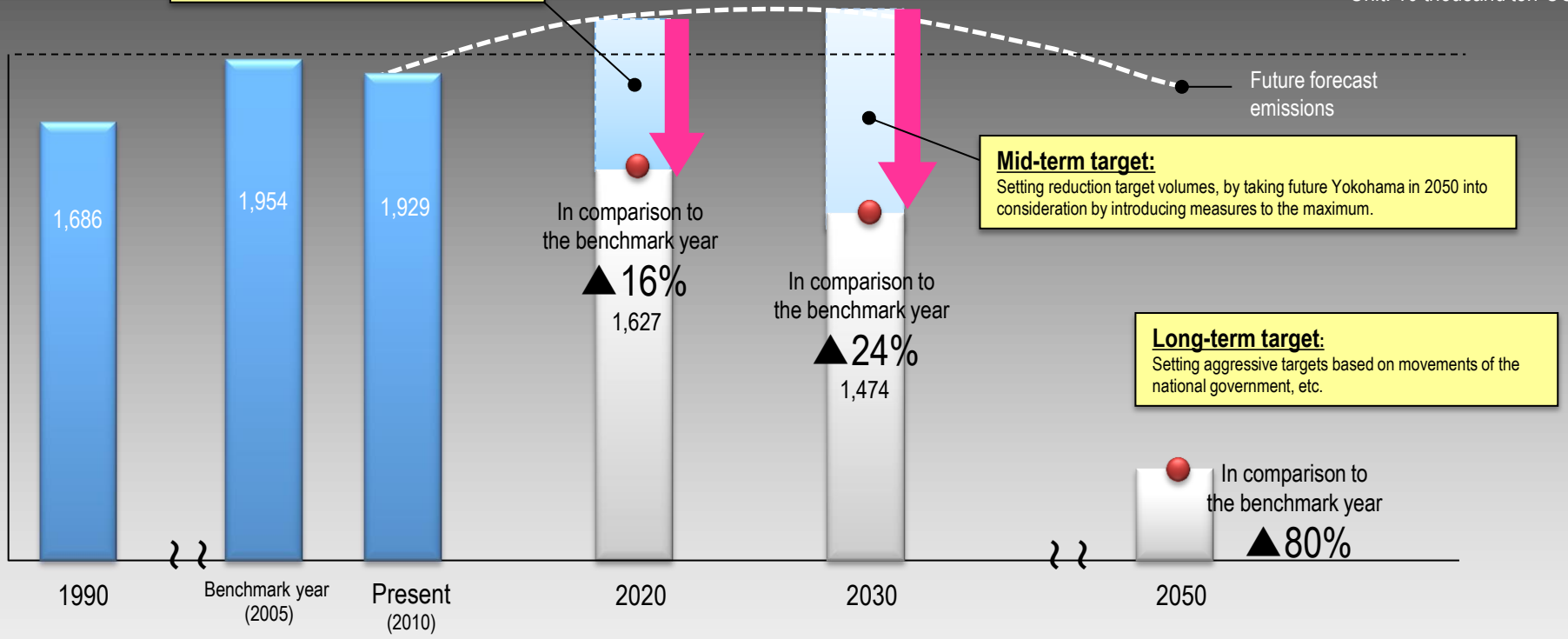


The City of Yokohama's plan for its global warming countermeasures

Total greenhouse gas emission volume reduction targets

Short-term target:
Setting reduction target volumes, by adding up the effects of measures.

Unit: 10 thousand ton-CO_2



Mid-term target:
Setting reduction target volumes, by taking future Yokohama in 2050 into consideration by introducing measures to the maximum.

Long-term target:
Setting aggressive targets based on movements of the national government, etc.

【The City of Yokohama's PDS cycle as its global warming countermeasures】

Execution plan (P) → Roadmap (P) [Each action plan] → Execution (D) → Follow-up (S) [System construction] → Report (V)

Global warming countermeasures

Citizens and Communities

- Work to control greenhouse gas emissions in daily life.
- Select products and energy services with a low environmental load.
- Propose and implement new ways of living.
- Shift to low-carbon lifestyles.

Businesses

- Work to control greenhouse gas emissions in business activities.
- Work to provide products and energy services with a low environmental load.

Interrelationships between parties implementing the project

Yokohama City

- Conducts policy implementation such as initiatives support and information provision to support and ensure the success of the initiatives of other bodies.
- Conducts plan progress management.
- Conducts pioneering activities as a business.

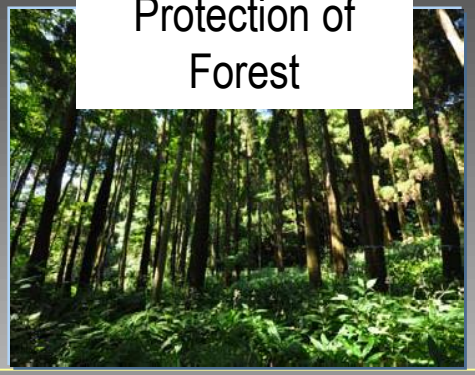
In communities, various bodies are active, such as residents' associations, regional associations, NPOs, and other citizens' organizations.

In this plan, the bodies included in these types of organizations are to fulfill their respective roles while working together in coordination with each other.

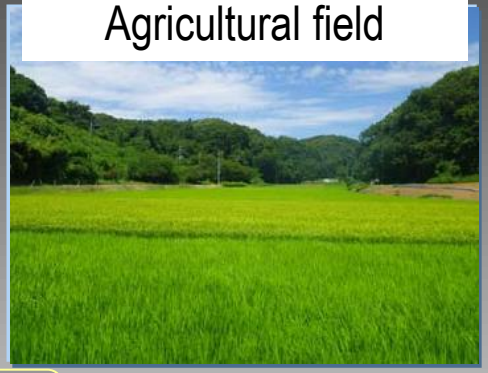
Greening and recycling of its waste garbage (Utilization of Power of Yokohama Citizens)

Green- Up Project

Protection of Forest

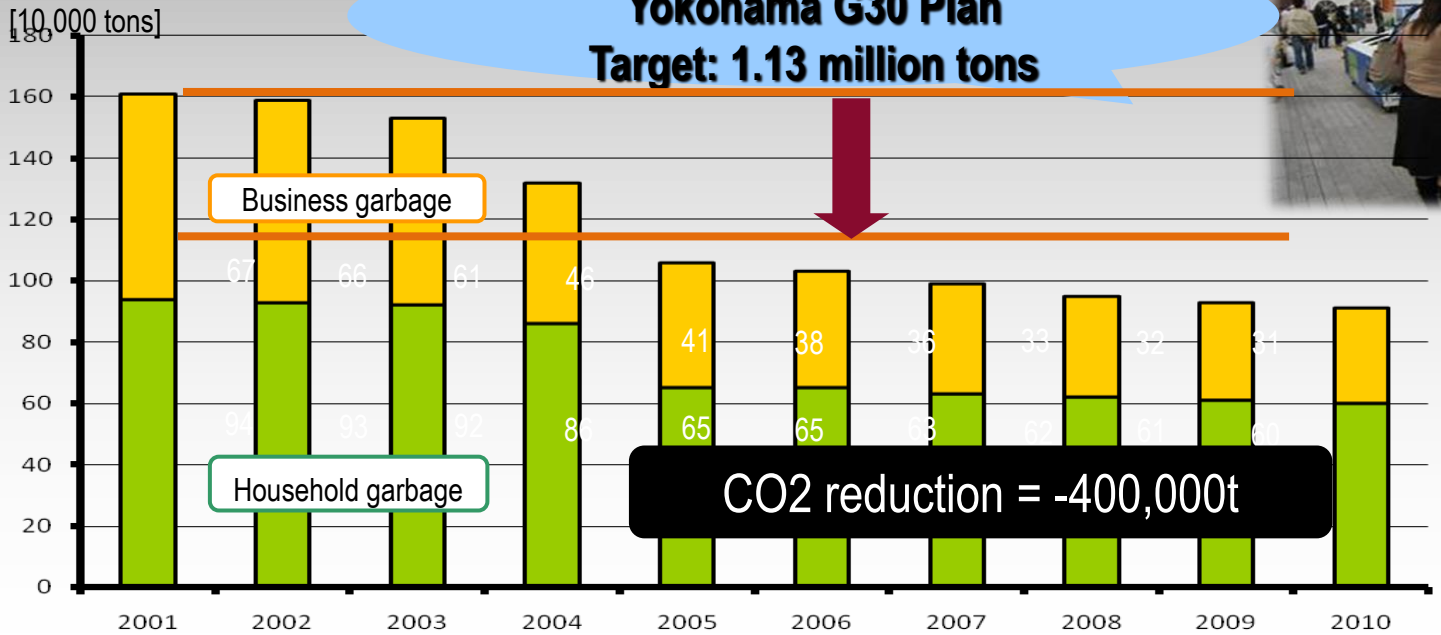


Protection of Agricultural field



Making Green

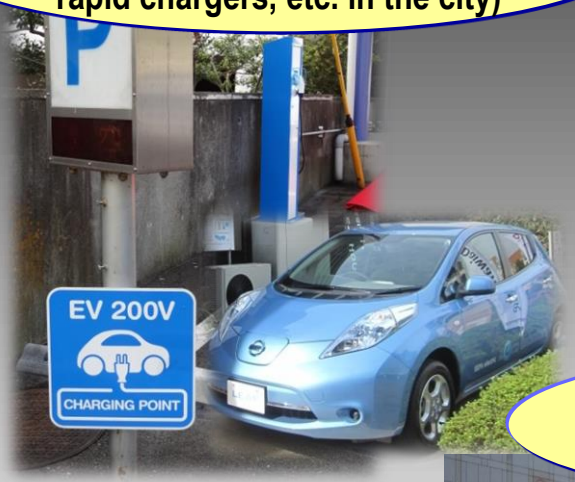
Power of Yokohama Citizens



Low-carbon and smart transportation

Exciting mobility and sharing

Approx. 300 locations
(No. of installations of rapid chargers, etc. in the city)



Bay Bike
(Sharing)

Choimobi
(New-type ultra-compact EV sharing)

Optimized energy management as a whole city

OPEN YOKOHAMA

The State of Renewable Energy Sources at Public Facilities in the City

Solar power generation

Solar paneling in place at 249 city facilities (grid interconnection facilities) including primary, junior, and high schools and government office buildings.

Wind power generation

Wind power generation as an approach to environmental issues such as global warming.

Hydropower generation

Small hydropower generation using the energy from water flowing within a water line.

Biomass power generation (sewerage treatment)

Sludge as a renewable energy source, by generating power from biogases that occur during treatment of sludge.

Biomass power generation (waste treatment)

[Efforts at home]

Photovoltaic (PV) power generating system

Incorporation of solar power generation system at Water Reclamation Center (sewage treatment plant)

- Using the space above the sewage treatment plant
  - Co-project with a private business operator

○ Yokohama City

・Providing the site (permitting exclusive use to the private business operator)

・Using as emergency power sources at times of disaster

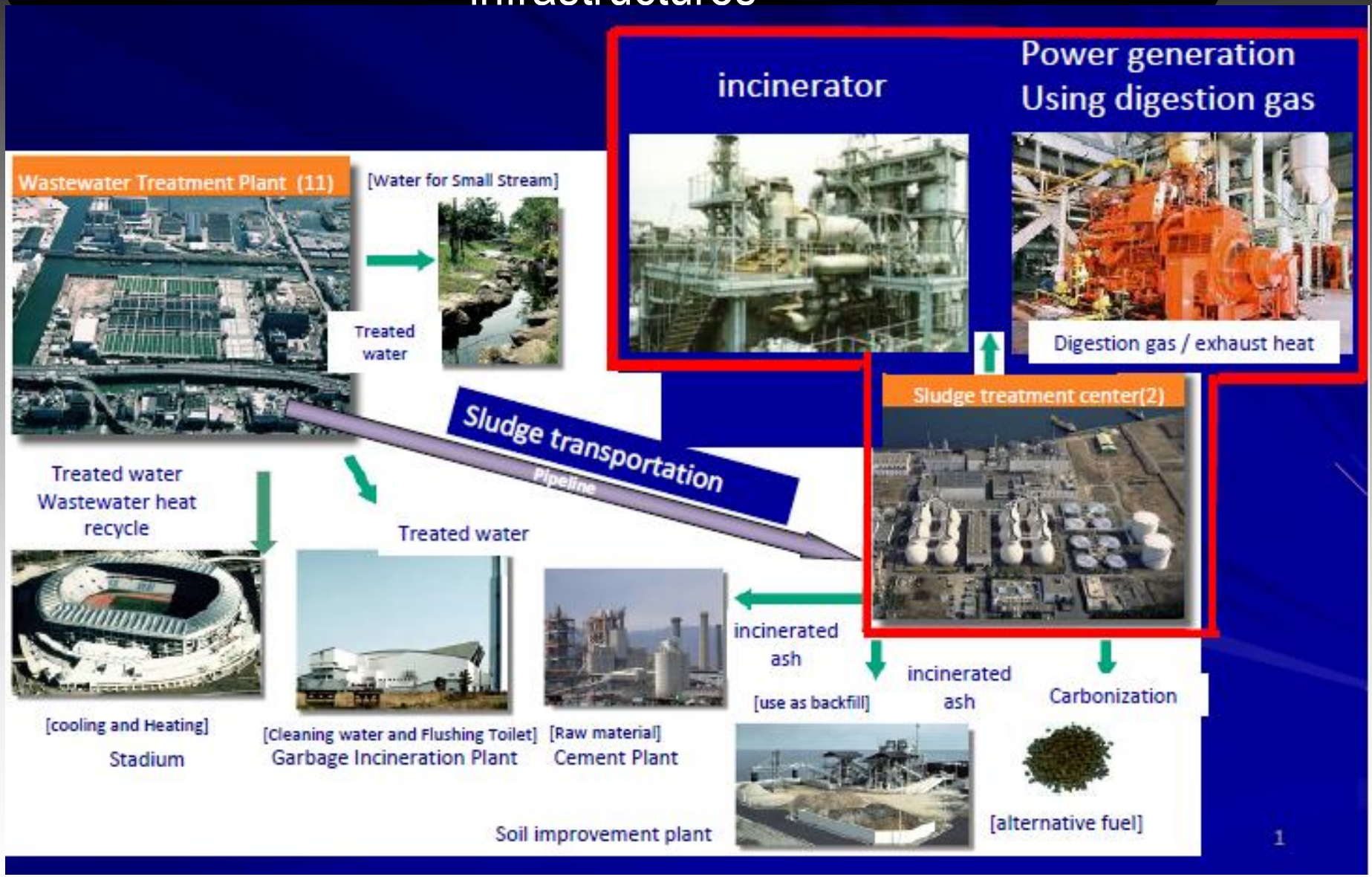
○ Private business operator

・Installation and management of solar power generation system

・Sales of electricity to electricity supplier (normal times)

・Payment of rent and part of sales revenue to Yokohama City

Smart infrastructure in coalition with numerous infrastructures



Community development with citizens and companies

Yokohama Eco School

Innovation Continues in Yokohama



Yes, Yokohama

Yokohama Smart City