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Yokohama's FutureCity Measures



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About City of Yokohama



- Ø An International port city
- Ø Population: about 3.7 million
- Ø GDP: about 12.5 trillion JPY
(about \$100 billion USD)
- Ø 21 minutes (at minimum) from Haneda Airport
- Ø Fast-paced development and urbanization



History of Yokohama

1859: Opening of Yokohama's port

When the port was opened:
a little village

After the port was opened:
growth into Japan's international gateway

In 1923 The Great Kanto earthquake

Formation of the framework of today's urbanized districts
through rebuilding after the quake

1945: The great bombing of Yokohama

Requisitioning of key districts by the Occupation Forces

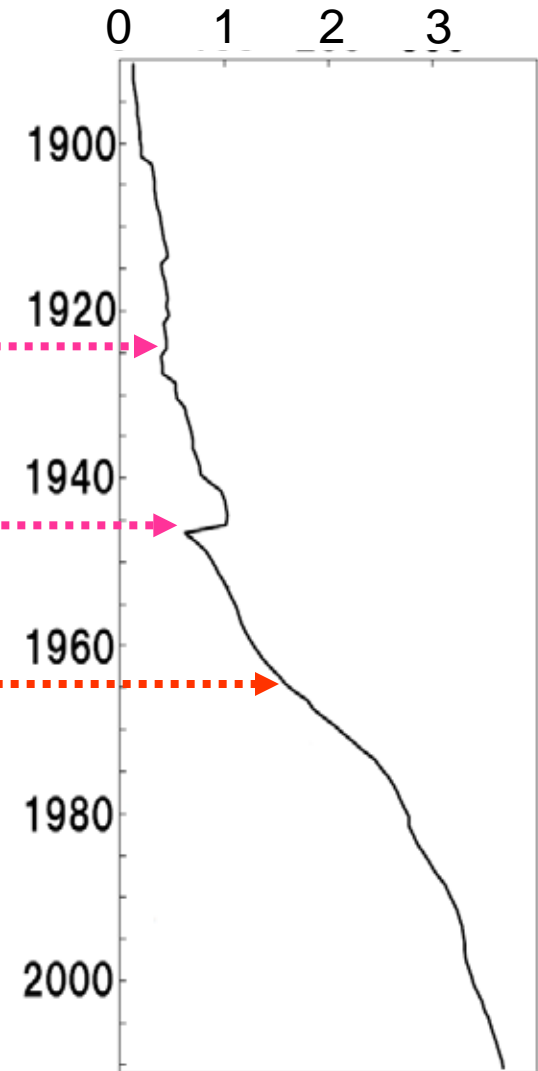
1965: Start of the phase of booming growth

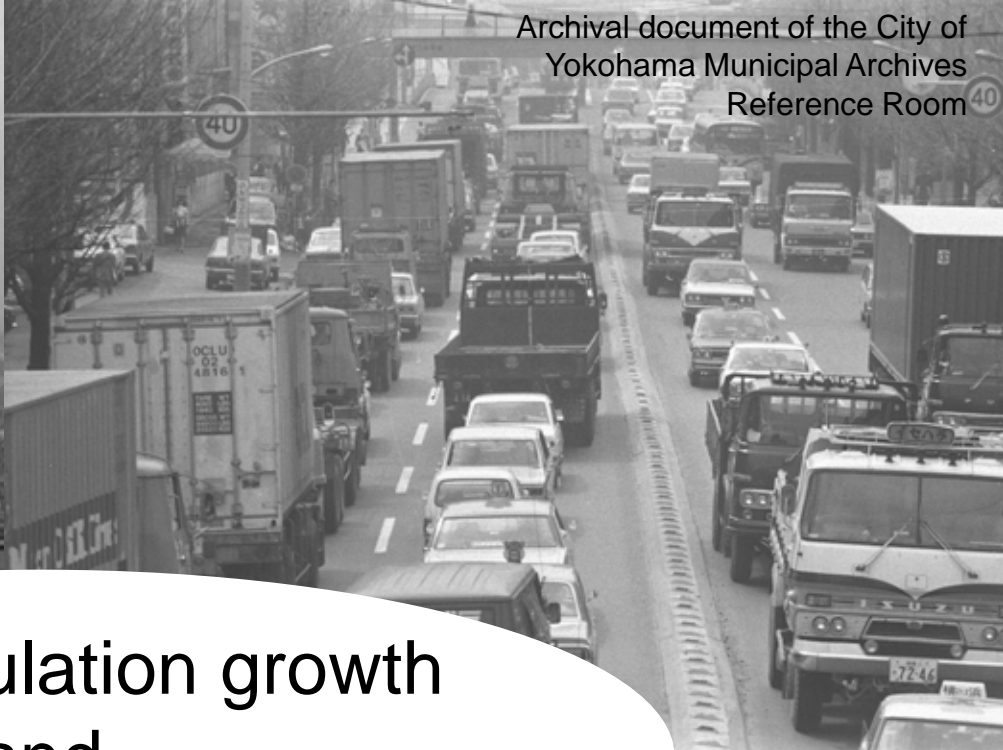
population concentration

haphazard urban sprawl

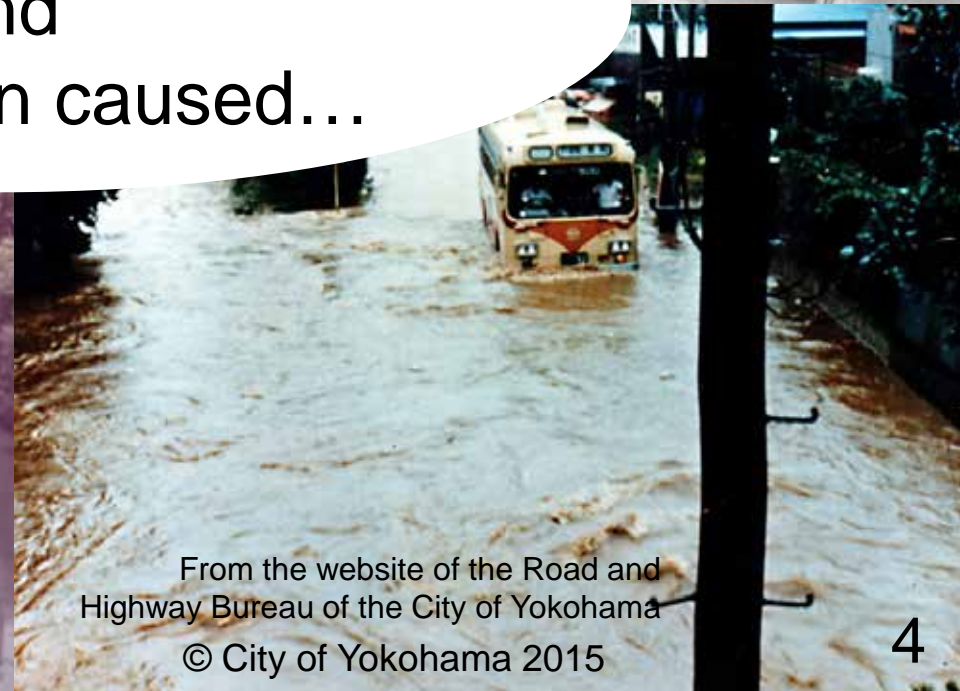
Swift worsening of the residential environment

Population (millions)





Rapid population growth
and
urbanization caused...



From the website of the Road and
Highway Bureau of the City of Yokohama

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The 6 strategic Projects planned in 1965



Vision of “FutureCity” Yokohama



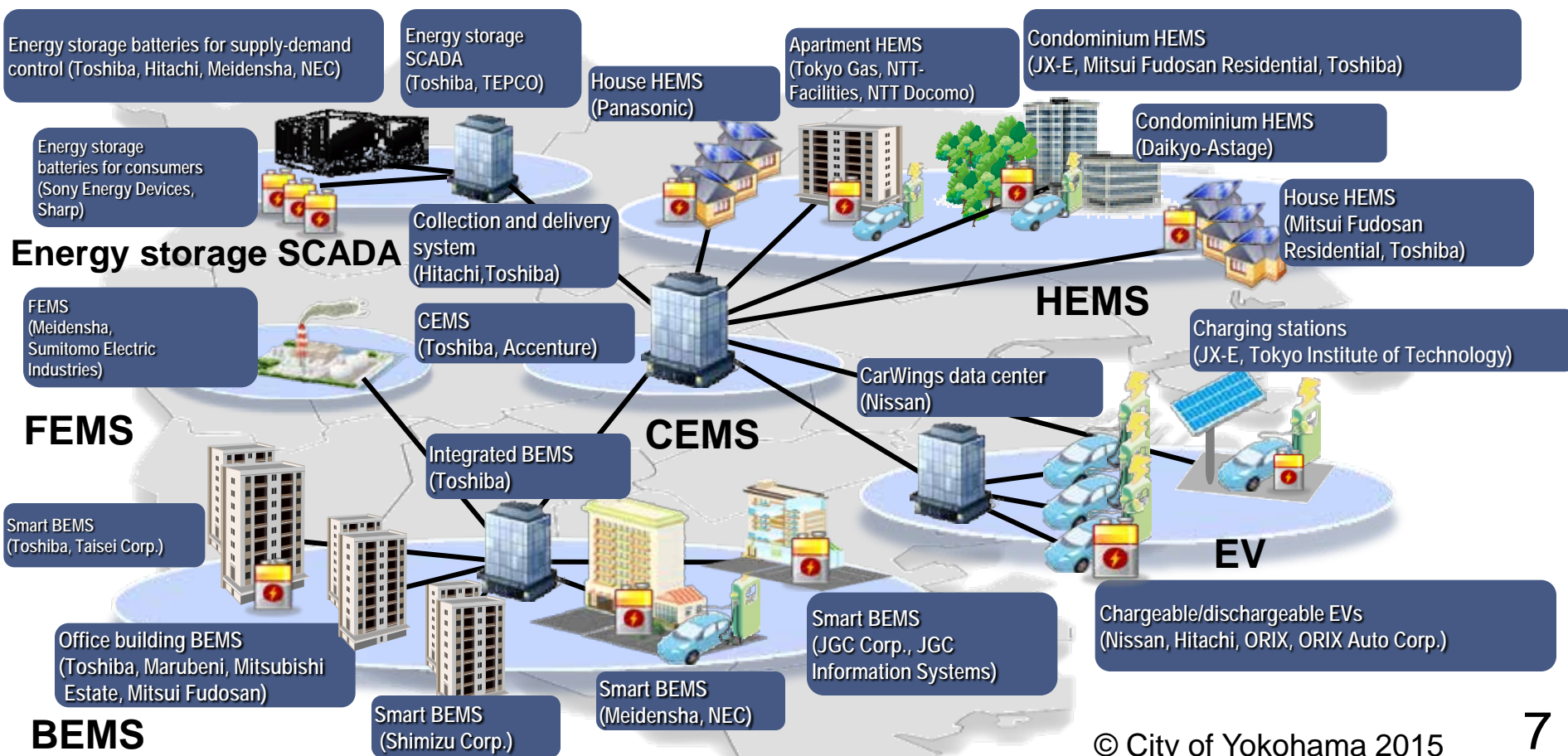
Yokohama Smart City Project Overview

YSCP is a large-scale project to develop, introduce and demonstrate regional energy management in existing urban areas.

Results/targets (FY2010-2014)

HEMS (home energy management system): 4,200/4,000

Solar panels: 37MW/27MW, EVs: 2,300/2,000



YSCP Demonstration Results

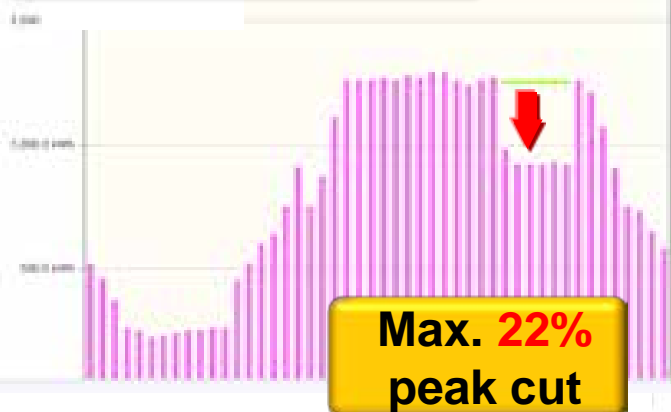
Building demand response (DR) demonstration

● Office buildings, commercial build

● 16 bases (FY2013)

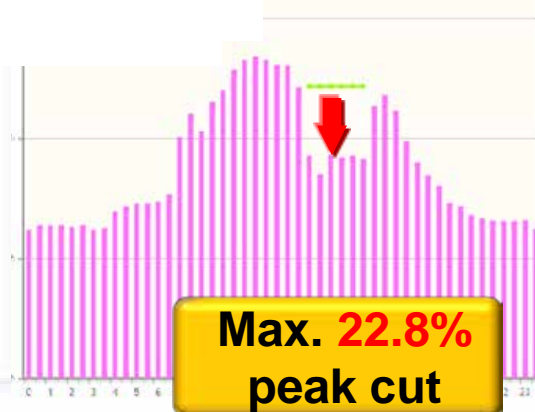
Winter
(January 2013~)

Peak hours: 5pm-8pm



Summer
(July 2013~)

Peak hours: 1pm-4pm



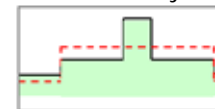
Household DR demonstration

● 1,900 households (FY2013)



DR request

Electricity price menu
for the day



Reducing demand
at home

FY2013
Summer, with
solar panels

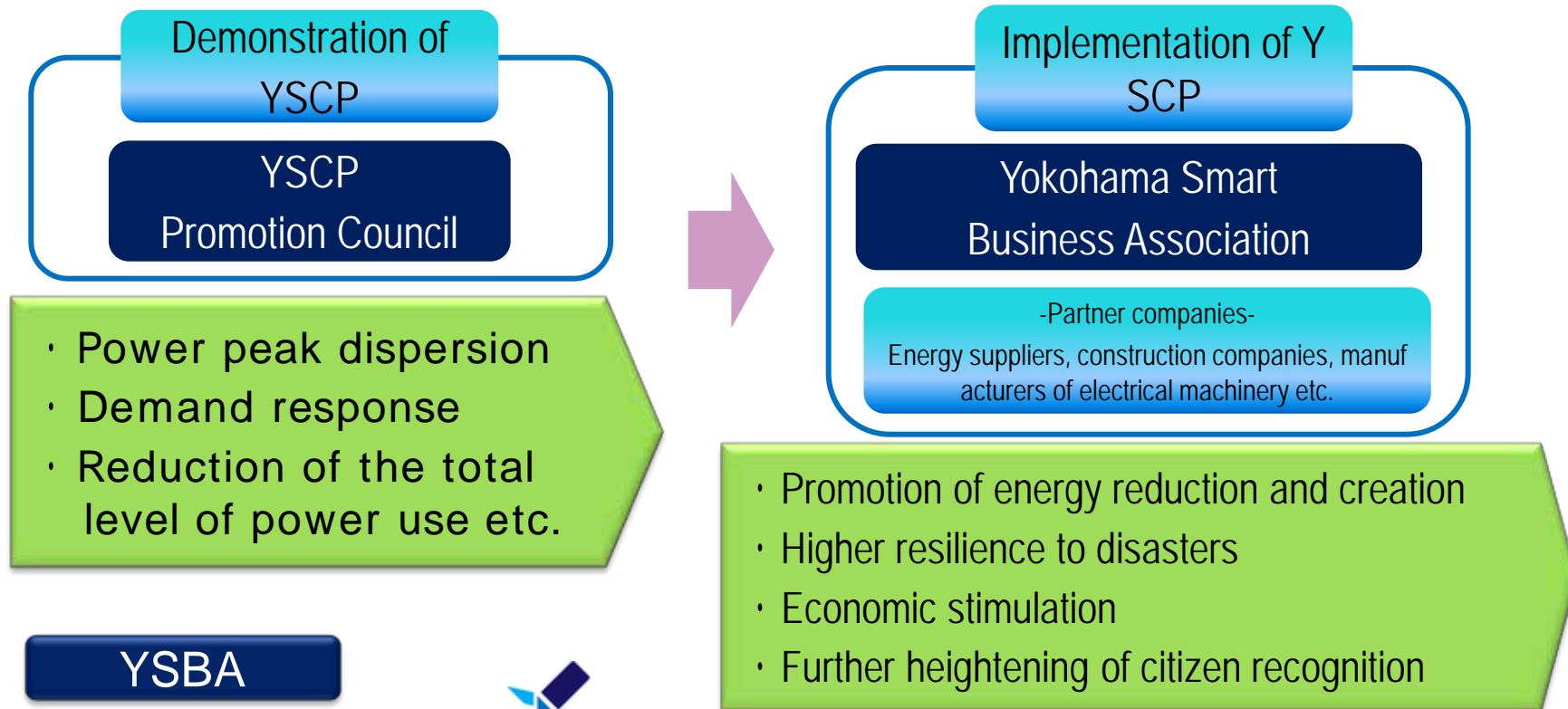
Max. **15.2%**
peak cut

Expansion and full-fledged implementation in FY2014

- Buildings (office/commercial buildings, public facilities, etc.): 29
- Households: 3,500

Implementation of YSCP - based on public-private partnership

"Yokohama Smart Business Association," a new organization resting on public-private partnership (slated for April 2015), in order to bring energy-circulating cities into reality by making use the results of YSCP.



YSBA

< 8 secretary members >



< 7 general members >

TOSHIBA
Leading Innovation >>>

azbil



Panasonic

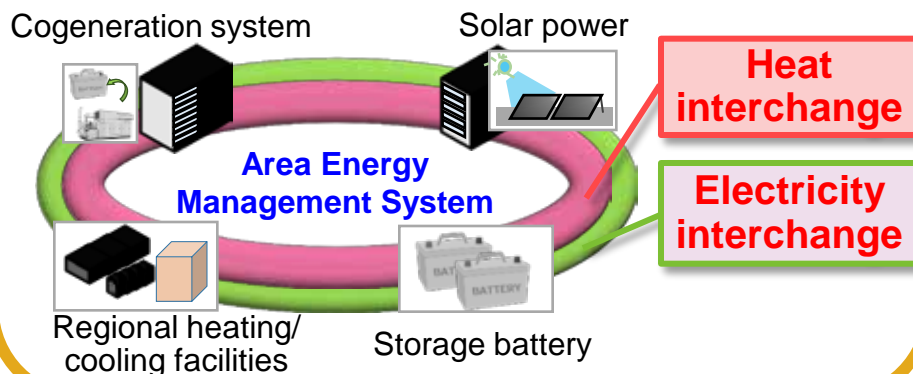


Minatomirai 2050 Project

- ✧ The “Minatomirai 2050 Project Action Plan” was developed with the aim of making the Minatomirai 21 District the **“Smartest FutureCity that fascinates the world.”** (March 2015)

Energy

- Formation of autonomous distributed energy infrastructure that utilizes ICT



Green

- Parks and other green areas
- Public open spaces etc.



Wall greening



Green areas on streets

Activities

- MICE
- Creation of attractive points utilizing the port etc.



PACIFICO Yokohama



Smart illumination

Eco-Mobility

- Next-generation transportation
- New transportation system



One-way car sharing



LRT



Thank you

