

An aerial photograph of Yokohama, Japan, showing a dense urban landscape with numerous skyscrapers and residential buildings. In the foreground, a large Ferris wheel is visible near a body of water. In the background, the snow-capped peak of Mount Fuji rises above a range of mountains under a clear blue sky.

環境未来都市・横浜の都市づくり Urban Development of “FutureCity” Yokohama

横浜市 副市長 平原敏英
Toshihide Hirahara / Deputy Mayor, City of Yokohama

Yokohama - Overview



Our Vision – FutureCity Yokohama



Environment



Society



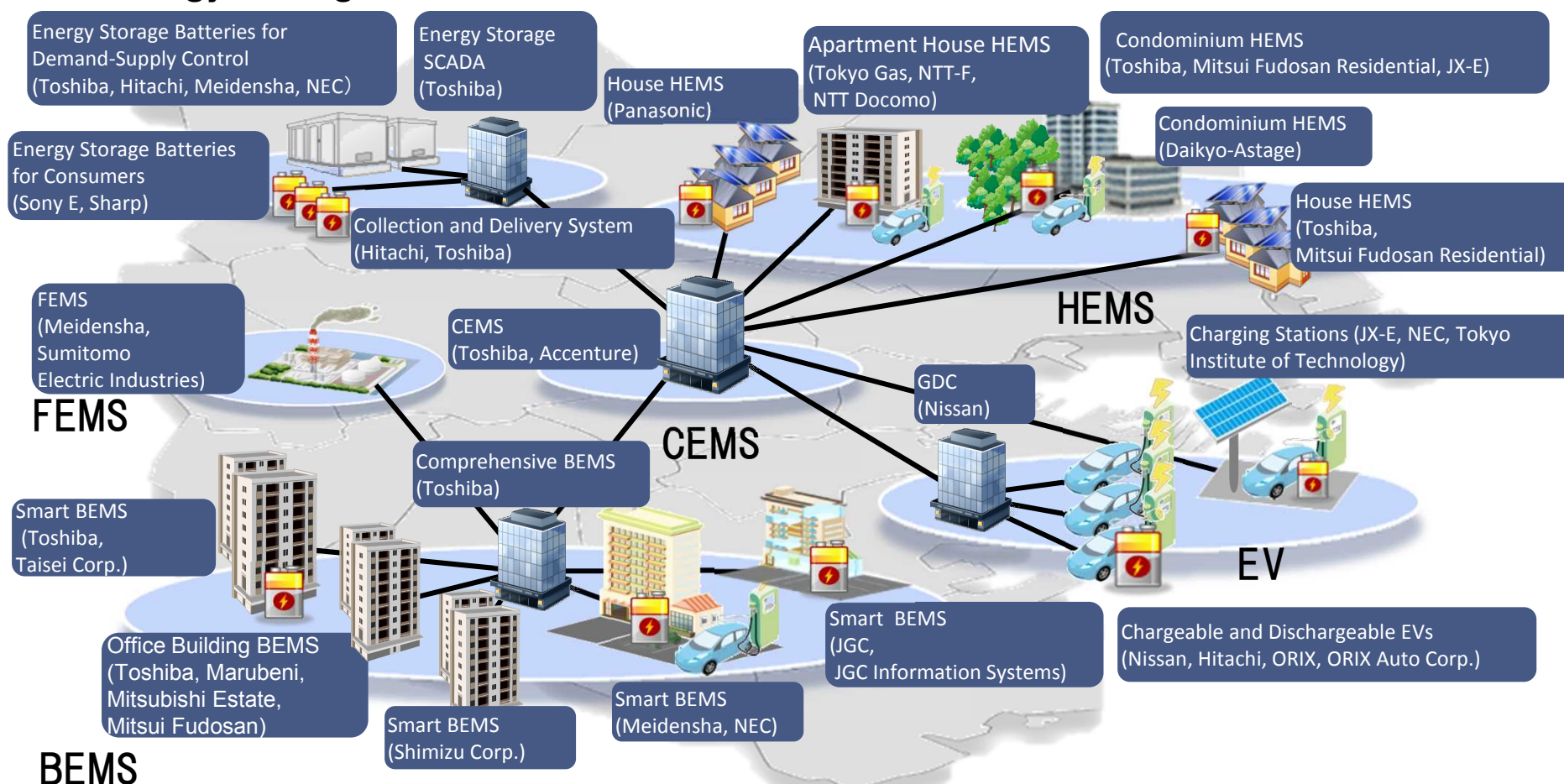
Economy



Yokohama Smart City Project

■ results (To FY2013) / goal (FY2010~FY2014) CO2 Reduction (39,000ton / 30,000ton)
HEMS(Home energy management system) (4,200/4,000) PV (37MW/27MW) EV (2,300/2,000)

Energy Storage SCADA



Yokohama Smart Business Association – Implementation of YSCP

Yokohama Smart Business Association

<8 secretary members>



TEPCO

エネルギー・フロンティア
TOKYO GAS

TOSHIBA
Leading Innovation >>>

azbil



みなとみらい21熱供給株式会社



<9 general members>



IHI



Panasonic



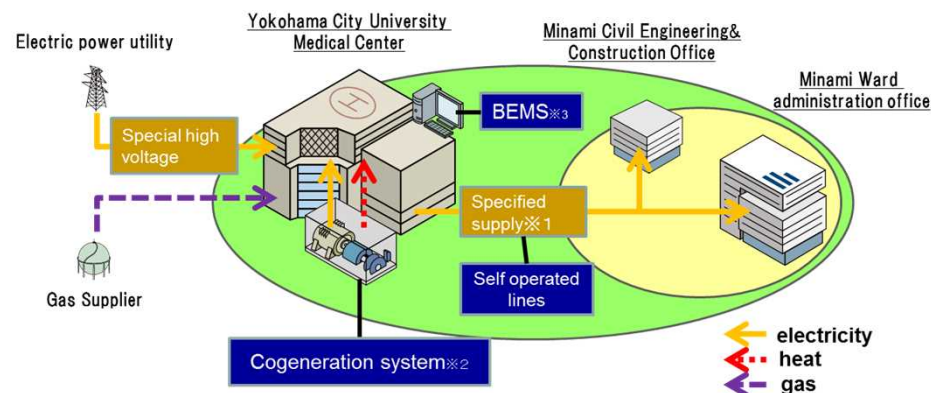
東京都市サービス株式会社

Achievement of community energy management
based on specified supply

CO2
Reduction

Disaster
Improvement

Energy Cost
Reduction



“Virtual Power Plant” Project

Agreement reached: City of Yokohama / TEPCO EP / Toshiba Corp.

◆Installing storage batteries at Primary & Junior High School in Yokohama City

To construction of “Virtual Power Plant” in Yokohama City , 3 parties entered into an agreement (6th July 2016)

TEPCO

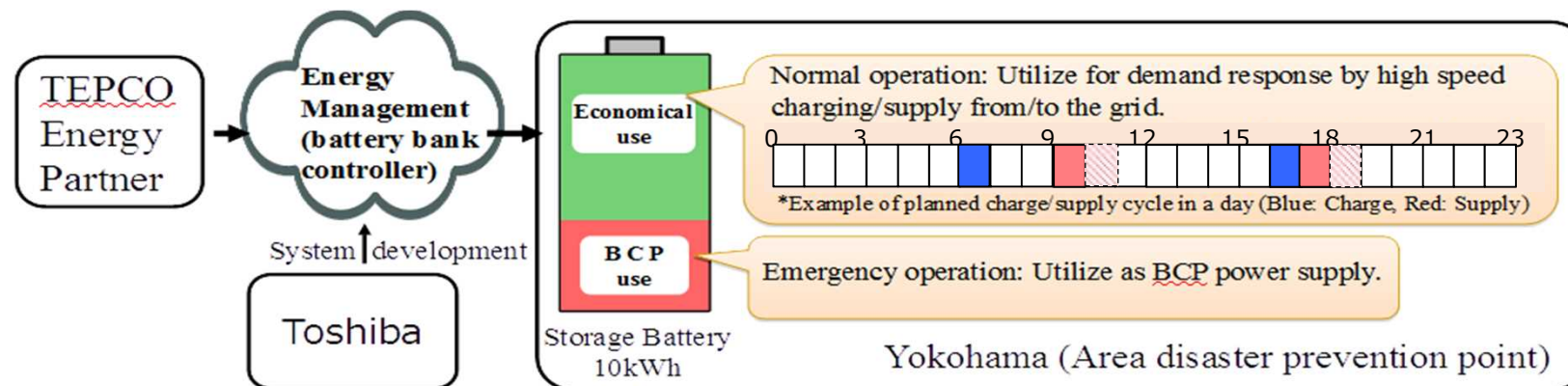
TOSHIBA
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Project Summary

Install storage batteries at the Primary & Junior High Schools within the city, designated as area disaster prevention facilities.

Under normal operation : TEPCO EP uses it for peak demand response / In emergency situation: Yokohama City uses it for disaster prevention measures.



The 6th International Forum on the “FutureCity” Initiative

The 6th International Forum on the “FutureCity” Initiative

Date: 31st Aug. 2017

Place: Pacifico Yokohama

Participants: approx. 800 peoples

Summary:

- The Sustainable Development Goals (SDGs) adopted by the UN represent an international consensus for universally appealing and vibrant communities, which is the basic concept of the “FutureCity” Initiative.
- As a country that will face various challenges before other countries, Japan must boldly take on the challenge of solving these problems. It has a mission to contribute to the world towards the realization of universally appealing and vibrant communities based on the outcomes of those solutions.



Sustainable Development Goals - SDGs



Goal7 Ensure access to affordable, reliable, sustainable and modern energy for all



Utilization of Hydrogen

7 AFFORDABLE AND
CLEAN ENERGY



Domestic :

- Utilization of Hydrogen
- Install of Renewable Energy

International :

- Technical Assistance for Bangkok – using JCM



Install of Renewable Energy



Technical Assistance for Bangkok –using JCM

Goal11 Make cities and human settlements inclusive, safe, resilient and sustainable



Domestic :

- Developing retention ponds to control flooding during heavy rain

International :

- Community disaster prevention in Iloilo City, Philippines
- Supporting post-disaster reconstruction in Nepal



Iloilo City Community Disaster Prevention Project



Nepal Post-Disaster Reconstruction Support

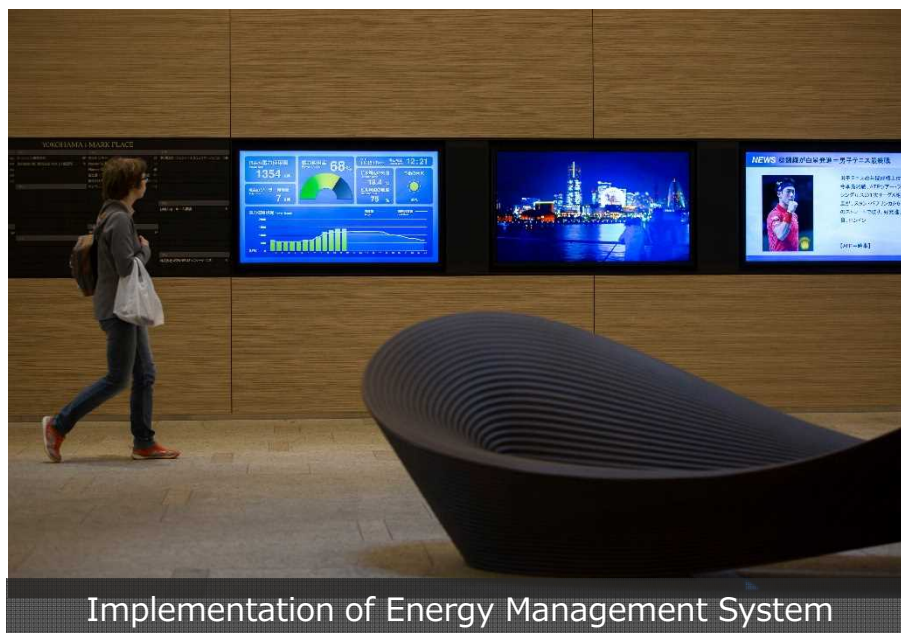
Goal 13 Take urgent action to combat climate change and its impacts



Promotion of Low Emission Transportation



Cooperation for "Bangkok Climate Action Plan"



Implementation of Energy Management System

13 CLIMATE ACTION



Domestic :

- Promotion of Low Emission Transportation
- Implementation of Energy Management System

International :

- Cooperation for "Bangkok Climate Action Plan"

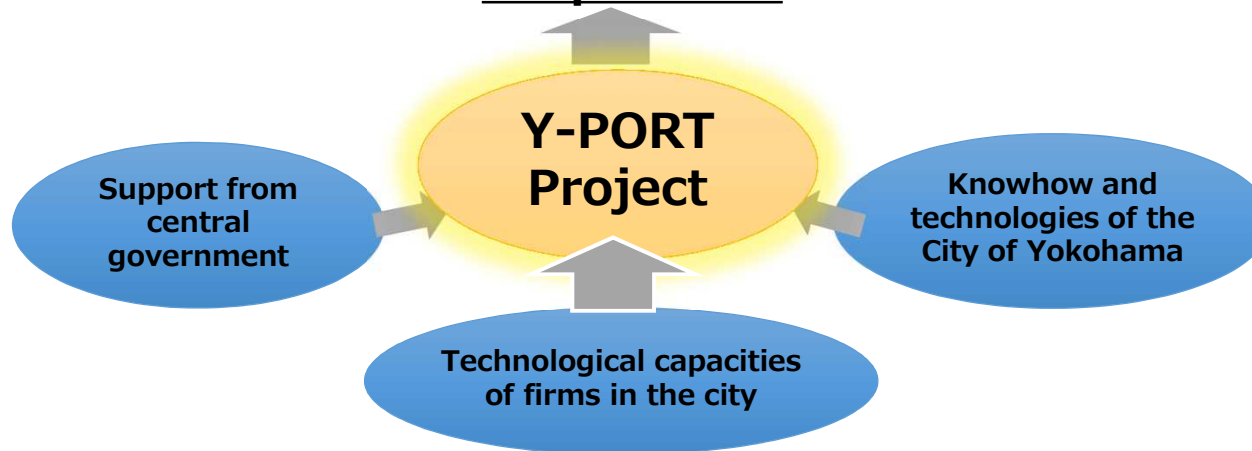
Yokohama's International Development Cooperation – Y-PORT

Yokohama Partnership of Resources and Technologies

International technical cooperation based on public-private partnership and drawing on the resources and technology of Yokohama

- It is essential to provide **not simple products but solutions** through combining technologies and knowhow of the public and private sectors

Enhancement of international technical cooperation



Thank you for your listening!

