

FutureCity Yokohama

Kimihiro, Kuromizu
Executive Director, City of Yokohama

Yokohama

Population
3,730,000

Number of
households
1,646,676

Area
435.21km²

Nominal GDP
JPY12.5050 trillion
USD 109.6 billion

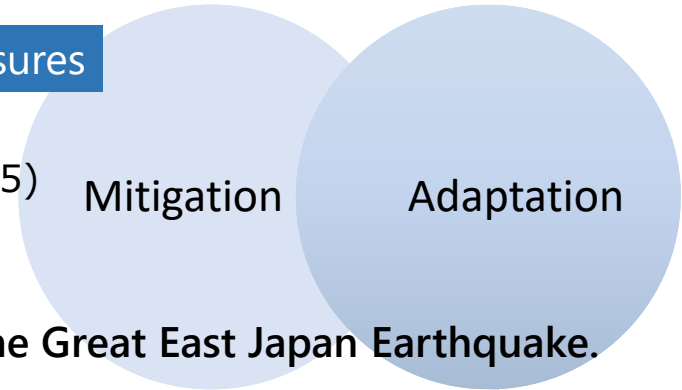


Action Plan for Climate Change Countermeasures



Yokohama City Action Plan for Global Warming Countermeasures

Target : **80%** reduction by 2050 (Base year: 2005)
(Yokohama is a member of 2050 pathway platform)



Revised

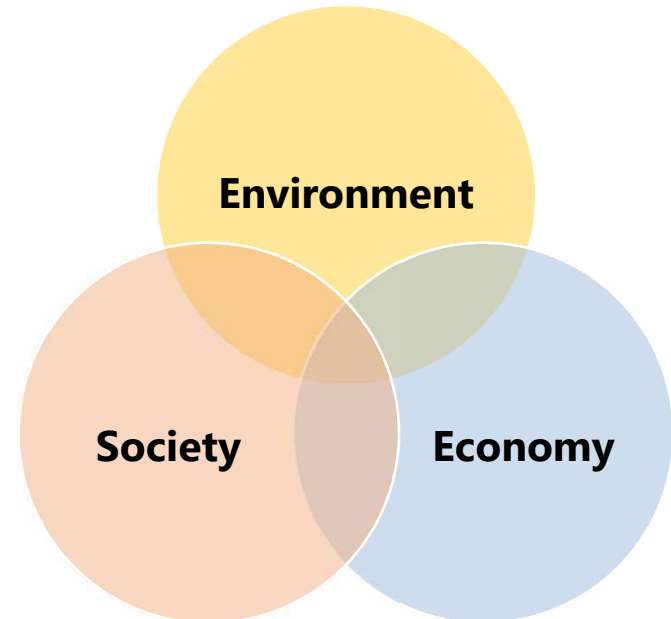
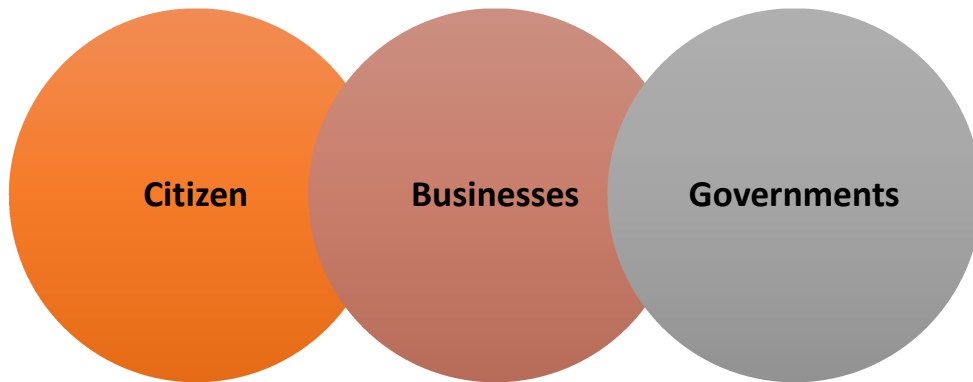
2014 : consider changes in the situation caused by **the Great East Japan Earthquake**.
2018: consider the effectuation of **Paris Agreements**, trends in various countries, etc.

Yokohama City Climate Change Adaptation Policy

FutureCity Yokohama

Established

.2016: **Citizens, companies and government cooperate** to promote various actions.



1. Energy Management

2. Hydrogen

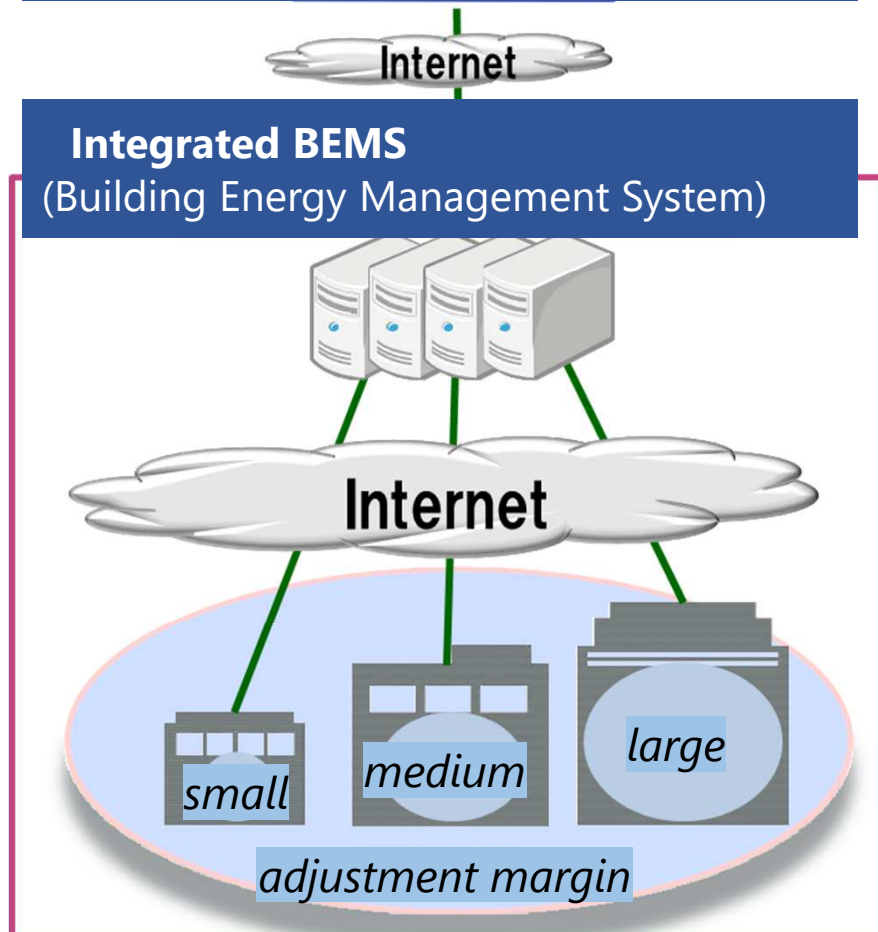
3. Raising Awareness

Energy Management: The Workings of BEMS

Maximum peak saving of **22.8%** was confirmed with a demand response.

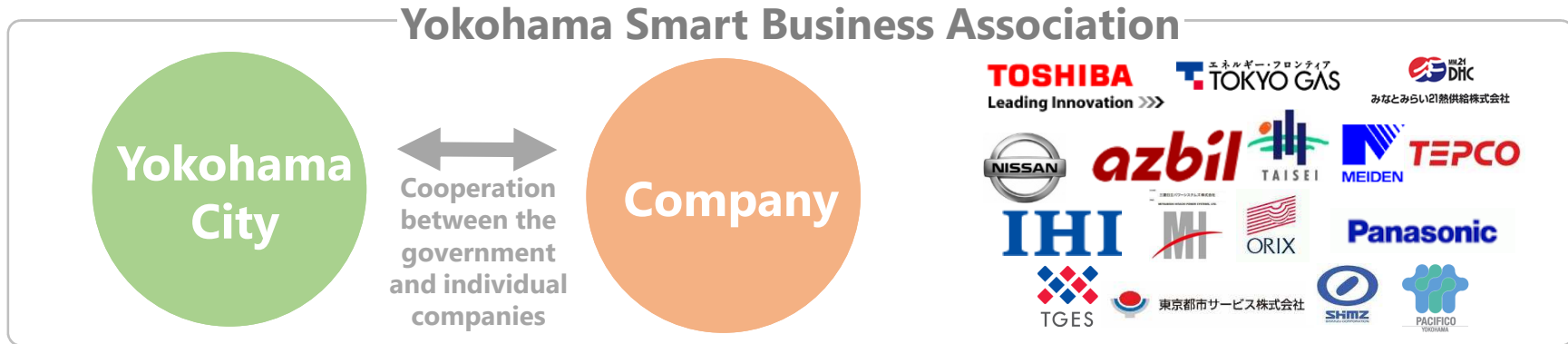
CEMS
(Community Energy Management System)

Integrated BEMS
(Building Energy Management System)



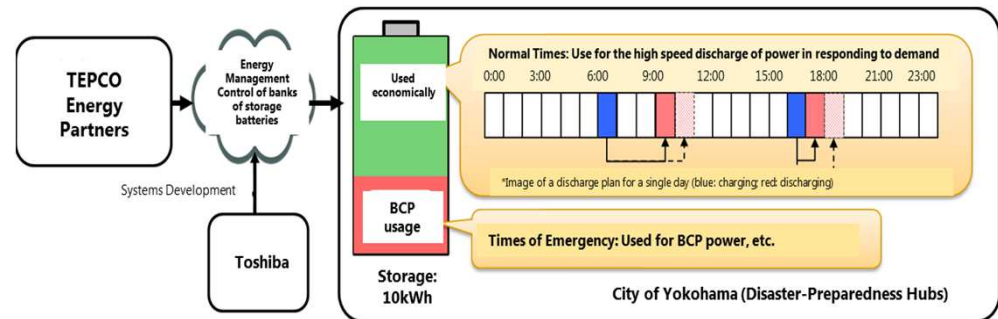
Major facilities participating
in the demonstration





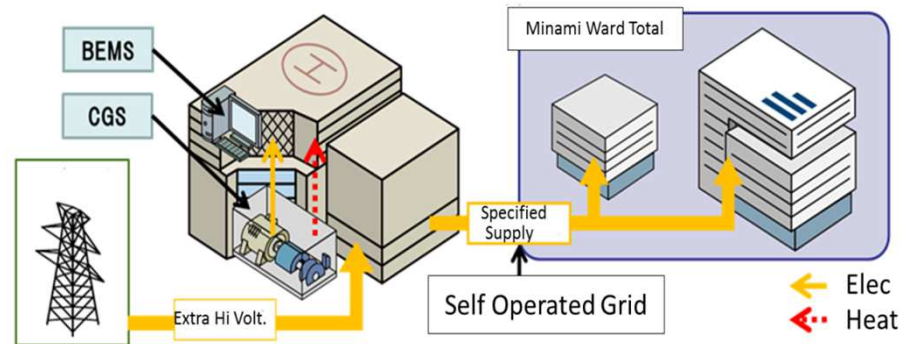
Business for constructing virtual power plants

- Elementary and junior high schools (18 in total) specified as local disaster prevention bases in Yokohama City
- Normally used by Tokyo Electric Power EP for demand adjustment.
- Used by Yokohama City as power for disaster prevention in emergencies.
- Planned to be developed at other public facilities.



Cooperative business between City University Medical Center and energy for Minami-ward General Office

- Established a high-efficiency CGS at City University Medical Center.
- Send electricity generated by CGS to Minami-ward General Office.
- Effectively use heat generated from the power generation process.
 - Improve the performance of disaster prevention systems, environmental properties and the economy.



- **Accelerating Introduction of FCVs**
We are using 7 Toyota's FCV "MIRAI"
(at March 2017) as official car.



MIRAI (Yokohama City's official car)

- **Deployment of Hydrogen Stations**
We have 6 hydrogen stations in the city
(at March 2017)



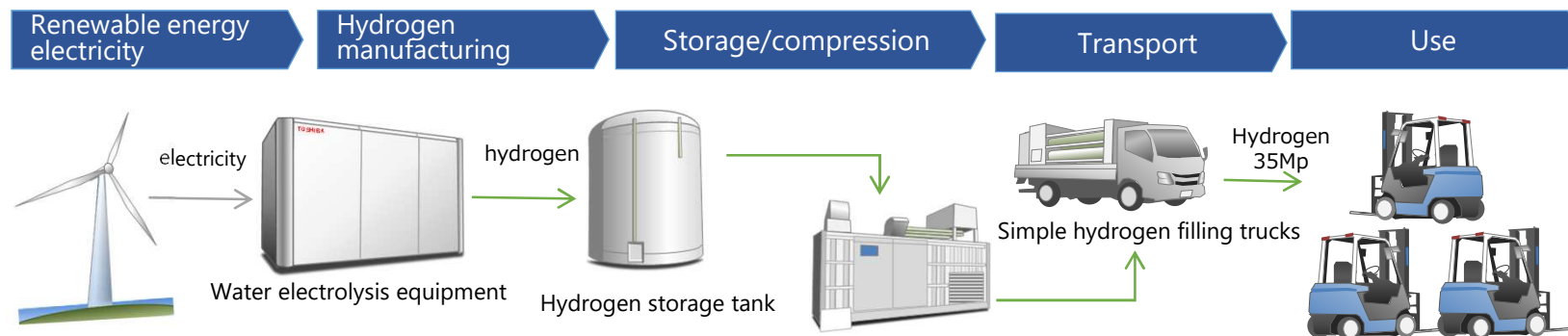
Yokohama Osanbashi Hydrogen station



Tsunashima Hydrogen station

- **Demonstration Project of utilization of hydrogen using Yokohama City Wind Power Plant(2015~2018)**

In addition to CO2-free hydrogen manufacturing using electricity generated by the Yokohama City Wind Power Plant, we will launch an initiative to build and demonstrate an integrated system from storage to transport to use.



Raising Awareness

Raising Awareness in cooperation with various stakeholders such as NGO and private companies.



Participation in Earth Hour



Operation of Choimobi Yokohama



Establishment of a mobile hydrogen filling station at IKEA's Kohoku store

Conclusion



Smart Illumination Yokohama 2016 // Photo : AMANO STUDIO