About Yokohama

- **International port city**
  - Opening of port of Yokohama in 1859
- **Population:** approx. 3.7 million
  - Second largest city in Japan
- **GDP:** approx. 12.7 trillion JPY
  - (approx. 113 billion USD)
- 20 minutes from Haneda Airport (Tokyo)
Overview of Yokohama Smart City Project
(Coordination between Yokohama City, 34 businesses, and 15 projects)

Results (To FY2013)
HEMS (Home energy management system) (4,200)  PV (37MW)  EV (2,300)
The Workings of a HEMS (Home Energy Management System)

- Maximum peak shaving of 15.2% was confirmed with a demand response.

HEMS monitor

- Data provision
- Operation of home appliances

PV

- Low voltage panelboards instrumentation

Internet

- Power being sold
- Power being generated
- Power being used

Maximum 15.2% peak savings
Social Verification Experiment of Demand Response (DR) using HEMS

(1) a weather forecast
(2) a day of the week
(3) measures adjusting the thermostat
(4) turning off the lights frequently

DR notice
PC
Smartphone
Electricity price chart of the day
"visualization" menu
counterplan

adjusting when to do the laundry, clean the house, etc.
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.

- **Demonstration of YSCP**
  - Power peak dispersion
  - Demand response
  - Reduction of the total level of power use etc.

- **Implementation of YSCP**
  - Promotion of energy reduction and creation
  - Higher resilience to disasters
  - Economic stimulation
  - Further heightening of citizen recognition

**YSBA**

- **<8 secretary members>**
- **<7 general members>**

Partner companies:
- Energy suppliers
- Construction companies
- Manufacturers of electrical machinery

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