

Y-PORT: Yokohama Partnership of Resources and Technologies ~ Creating Low Carbon Urban Structure and international collaboration ~

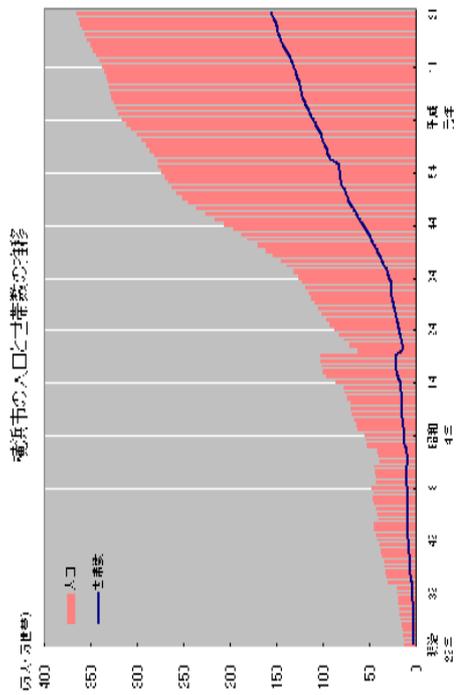


Entrepreneurial Citizens and Unique Development Approaches

- Overcoming many challenges over time
 - Port Opening
 - Major Earthquake
 - War related damage and pro-longed occupation
- Innovative, entrepreneurial, open-minded attitudes (Hamakko spirits), and challenging spirits
- Unique development approaches (Yokohama model)

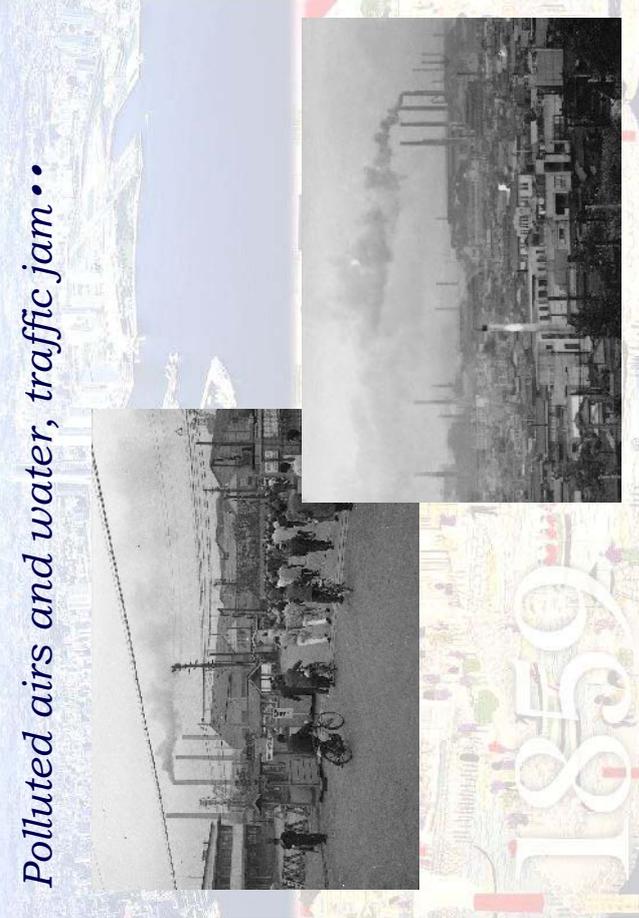


Population Trend City of Yokohama: Yet to expand and growing



Urban Challenges: Rapid Urbanization and Pollution

Polluted airs and water, traffic jam...



Agenda

- 1 Yokohama Smart City Project (YSCP)
- 2 Yokohama Mobility Project ZERO (YMPZ)

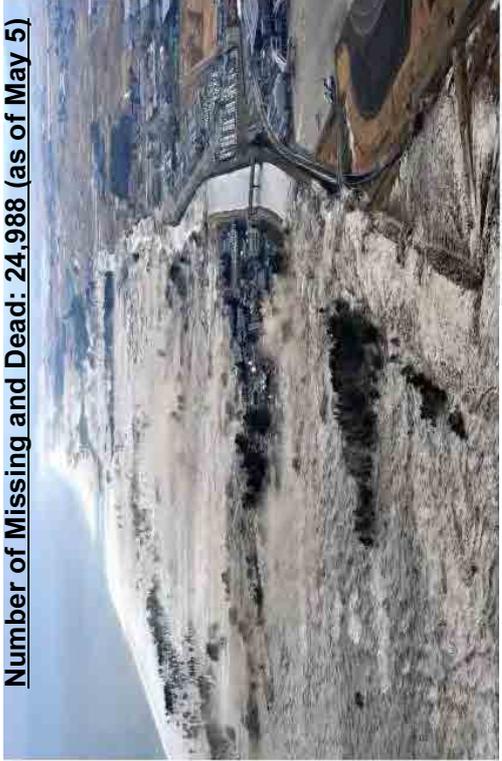
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Climate Change Policy Headquarters
City of Yokohama

2011.3.11 14:46 Great East Japan Earthquake

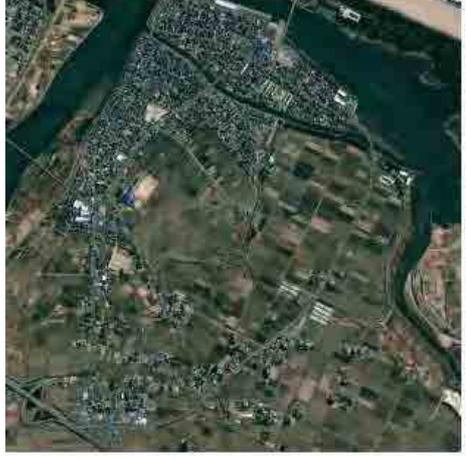
M9.0 Tsunami maximum height 37.9m
Number of Missing and Dead: 24,988 (as of May 5)



出典: 日本経済新聞ウェブサイト

2

2010年4月
April, 2010



宮城県名取市
Natori City, Miyagi Prefecture

2011年3月12日
March 12, 2011



出典: 日本経済新聞ウェブサイト

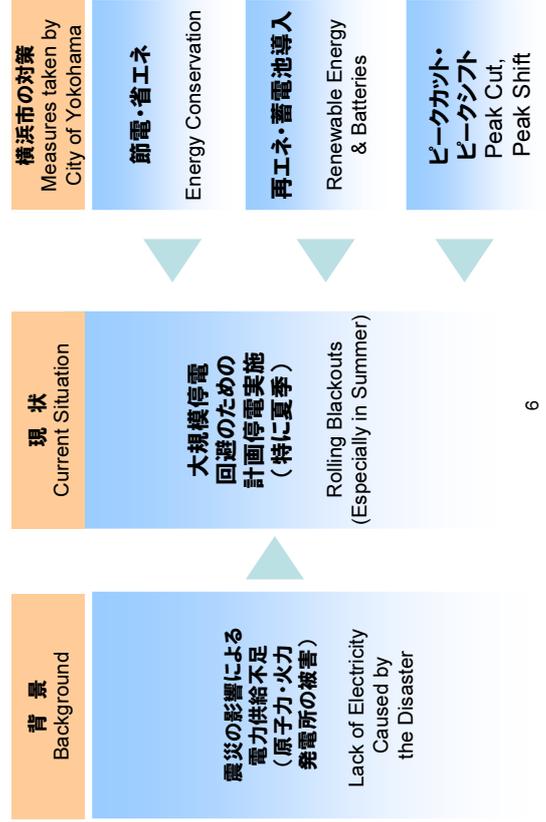
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出典: 日本経済新聞ウェブサイト

横浜をはじめとする首都圏への影響 Effect on the National Capital Area, including Yokohama



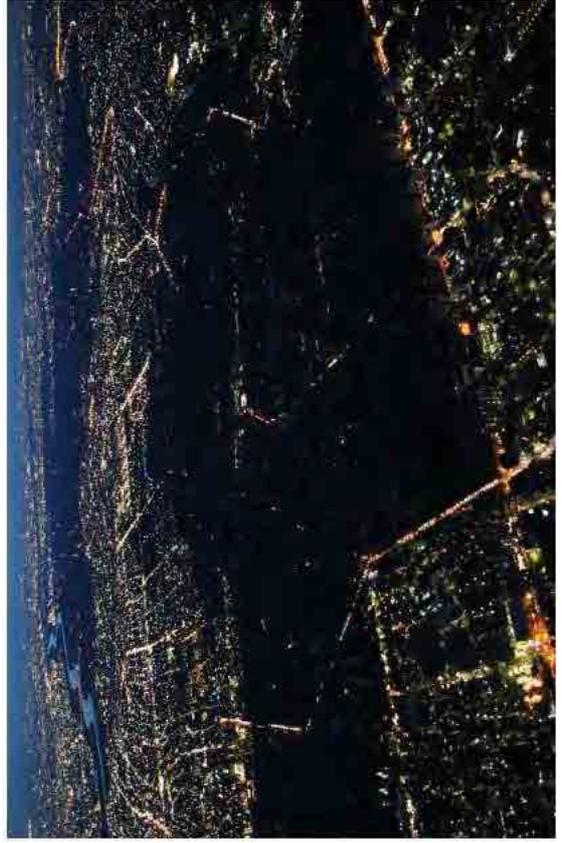
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出典: 日本経済新聞ウェブサイト



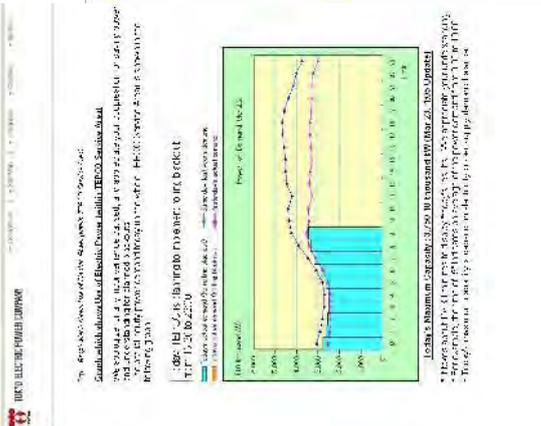
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出典: ウォールストリート
ジャーナル日本版ウェブサイト



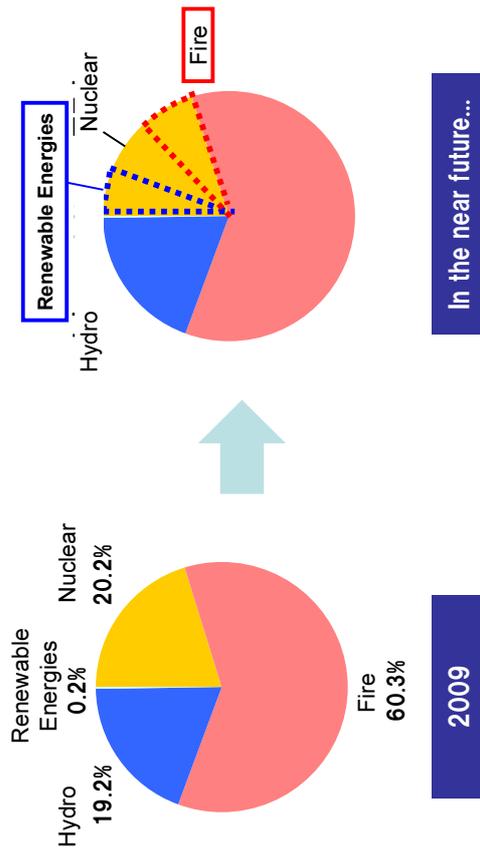
計画停電の様子 (3月18日、東京都足立区) - Rolling Blackout held at Tokyo, March 18

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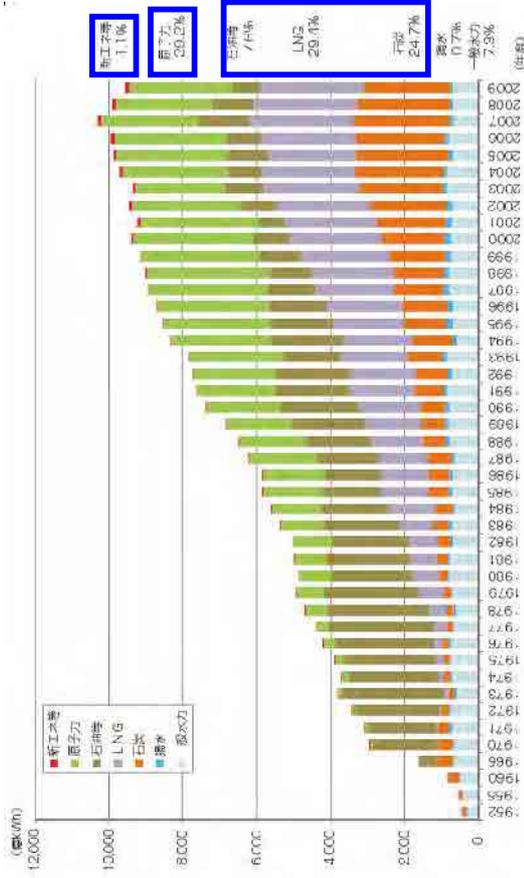


TEPCO provides real-time electricity usage 'Electricity-forecast' is provided on the internet

日本のエネルギー供給(電源別) Energy resource of Japan



日本のエネルギー供給(電源別) Energy resource of Japan



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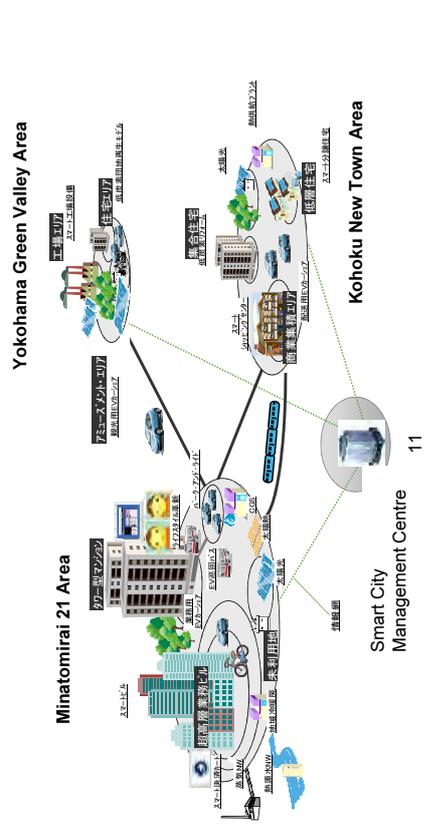
Yokohama's mission: a sustainable smart city

Renewable energy = low carbon, dispersed power system

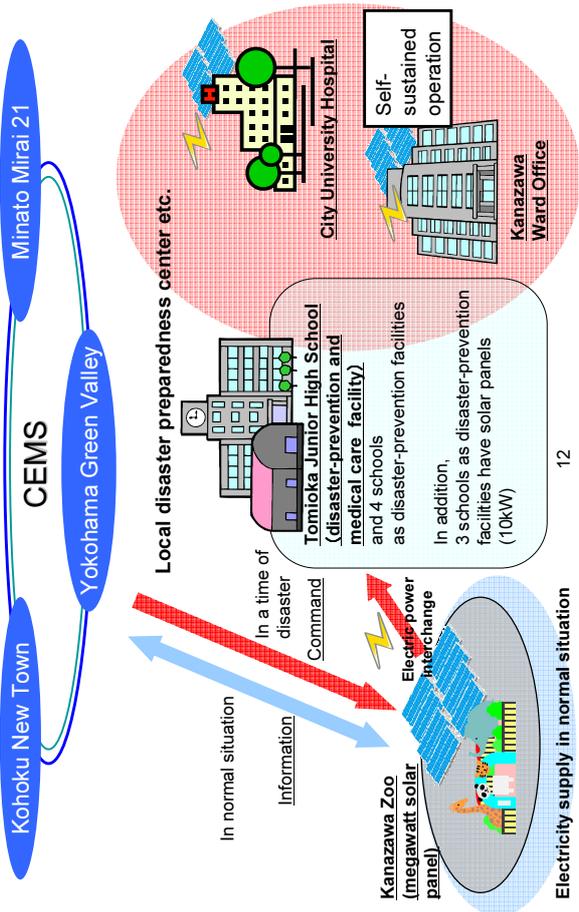
Normal – Clean renewable energies contribute to the system power

Emergency – Dispersed power system enables self-sustained operation of the region

We introduce large amount of renewable energy and construct community energy management system with optimal use of renewable and system power



Energy supply in a time of disaster utilizing CEMS (image)



YSCP Vision and Objectives

As one of the largest cities in Japan, Yokohama aims to build the "Next Generation Energy Infrastructure and Social System" that maximizes CO2 reduction in the forefront of innovation. The know-how will be leveraged to deploy abroad as a city-scale infrastructure package.

Background

Increasing need for energy security

Economic development (green innovation)

Cities as center of CO2 emissions

Environmental Model City

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YSCP Vision and Objectives

Ambitious CO2 reduction target (64,000t-CO2 by 2014)
Export overseas as a city scale infrastructure package

Assemble Advanced Knowledge, Build in Yokohama, Expand Abroad



• Retrofit solution development
• APEC2010 as touchstone for expansion to Asia-Pacific region

Diverse three areas in Yokohama



Urban: Minatomirai 21 Area

- Highly developed urban center
- High-rise office buildings, international convention center



Residential: Kohoku New Town

- 1960s development zone designed to address Yokohama's housing demand
- Suburban commuter zone with low-rises and shopping centers



Industrial: Yokohama Green Valley

- Industrial redevelopment area on reclaimed land
- Home to Yokohama's local small to medium sized factories, amusement parks and housing complexes