



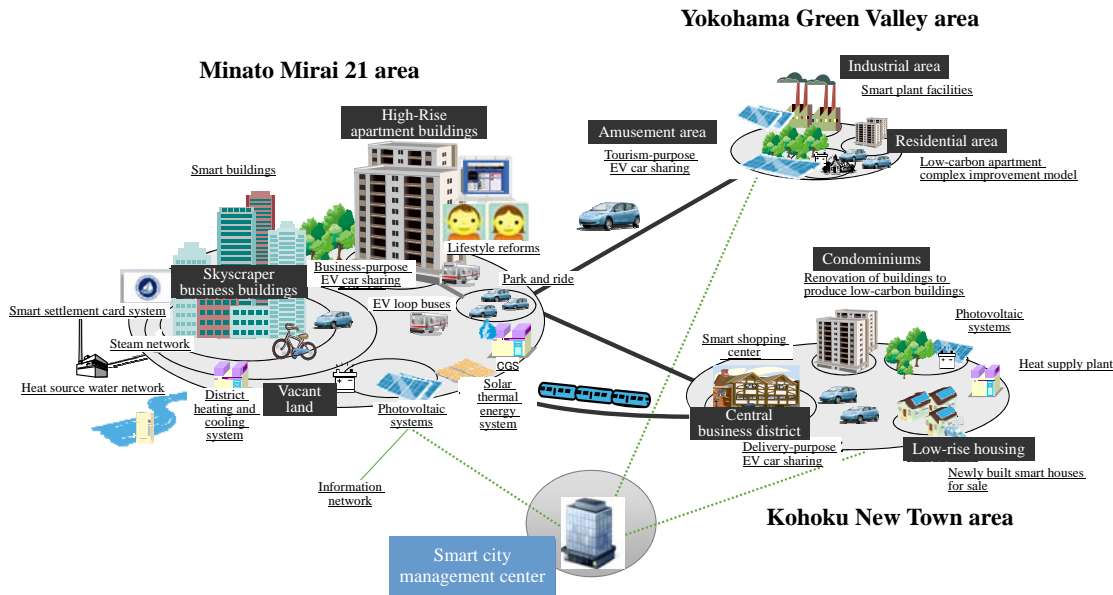
Press Release
 August 11, 2010
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Announcement on the “Yokohama Smart City Project (YSCP)” Master Plan
The plan aims to establish “Yokohama-model solutions” by 2014 that can be used
by cities overseas. The plan aims to reduce CO2 emissions by about 64,000 t-CO2
in the demonstration districts.

The City of Yokohama is pleased to announce that the city and the companies participating in the Yokohama Smart City Project (YSCP) have established a master plan (FY2010-2014) for the YSCP which promotes the development of a Japanese-model smart grid system. The companies participating in the project include Accenture Japan Ltd, Tokyo Gas Co., Ltd., Tokyo Electric Power Company, Toshiba Corporation, Nissan Motor Co., Ltd., Panasonic Corporation, Meidensha Corporation and others.

The Mayor of Yokohama Fumiko Hayashi visited the Ministry of Economy, Trade and Industry today and submitted the plan to the Minister of Economy, Trade and Industry Masayuki Naoshima. The mayors of other three selected municipalities (Toyota City, Kansai Science City in Kyoto and the City of Kitakyushu) also attended the meeting and submitted their plans to the minister.

<Future Vision of YSCP>



<Characteristics>

- Next-generation smart houses and electric vehicles will be exhibited at a model home display park in the Minato Mirai 21 district which will host APEC 2010, with the aim of disseminating the information globally.
- Energy management systems will be implemented by involving members of public and commercial customers.
- The plan is to introduce the systems in existing urban districts (mainly three areas*) which have old and new buildings.
 - * Minato Mirai 21 area: business and commercial buildings, high-rise apartment buildings
 - Kohoku New Town area: large-scale condominiums, detached houses
 - Yokohama Green Valley area (Kanazawa Ward): housing estates, industrial estates
- The plan aims to achieve the following by FY2014:
 - To reduce CO2 emissions by about 64,000 t-CO2
 - To introduce about 27 MW of photovoltaic systems, the Home Energy Management System (HEMS) to about 4,000 households, about 2,000 units of electric vehicles, etc.

<Project Outline>

Project bodies	The City of Yokohama, Accenture Japan Ltd, Tokyo Gas Co., Ltd., Tokyo Electric Power Company, Toshiba Corporation, Nissan Motor Co., Ltd., Panasonic Corporation, Meidensha Corporation and others
Area	The Minato Mirai 21 area, the Kohoku New Town area, the Yokohama Green Valley area (Kanazawa Ward) and others
Size of the area	The population: approx. 420,000 (about 170,000 households), the land area: approx. 60 km ²
Total project budget for demonstration (over the five year period)	Approx. 74 billion yen

<Main Demonstration Components>

- ◆ **Introduction of the Community Energy Management System (CEMS)**
 Renewable energy facilities will be introduced in the region through intensive investment. Through intensive investment, energy management systems will also be installed in general households (HEMS)* and at business facilities (Building Energy Management System, BEMS)* within the region. Renewable energy output fluctuations will be controlled by combining stationary storage batteries, HEMS and BEMS. By introducing demand side management, the project will explore more efficient methods than controlling output fluctuations through stationary storage batteries alone.
 - * HEMS: It is a system which networks energy consuming equipment units at home including home electrical appliances and hot-water supply systems in order to enable automatic and centralized control.
 - * BEMS: It is a system which automates and centralizes energy conservation monitoring and control for all the energy-related equipment in a business building, at a plant or in a district heating and cooling system.
- ◆ **The Mass Introduction of Electric Vehicles (EVs) and the Introduction of an Energy Management System Using Chargeable and Dischargeable EVs**
 Large numbers of electric vehicles (EVs) will be introduced through various introduction promotion measures. Chargeable and dischargeable EVs will be developed and they will be used as power storage facilities for clean electricity from renewable energies such as photovoltaic systems, in order to reduce the EVs' well-to-wheel carbon emissions* and improve photovoltaic system utilization rates.
 - * Reduction of the total CO2 emitted in the process starting from mining sources of primary energy to driving a vehicle

For details about the demonstration components explained above and other demonstration components, please see the Master Plan for the Yokohama Smart City Project.

<Project Schedule>

FY2010-2012: Small Start

- Technologies almost at the level of practical use will be proactively introduced through a comprehensive platform in order to verify the technologies.

FY2013-2014: Expansion of the Scope

- Services and new businesses which disseminate the verified technologies will be introduced on a trial basis in order to verify their economic viability.
- The established services will be introduced over a wider area (through activities such as coordination with efforts to design institutional arrangements) in order to verify the effect of disseminating the services as a social system.