

# Osaka Energy Plan for Local Production and Consumption ~Creating a Renewable Energy Society~

## Background

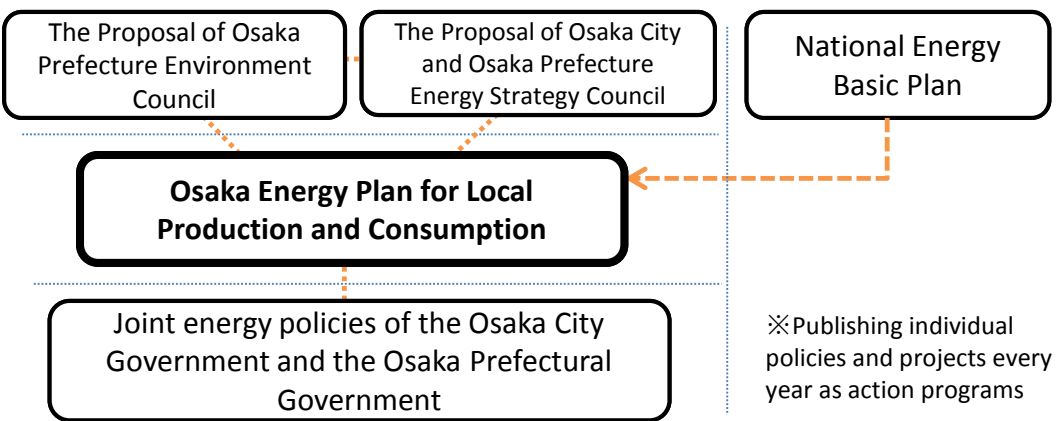
◆ The accident of the Fukushima Daiichi Nuclear Power Station which occurred at the time of the Great East Japan Earthquake, caused a major shortage of electric power. This also had a great impact upon the residents and business operators in Osaka. To overcome the past of solely relying on the national government and major electric power companies, it will be essential for local governments and other public organizations to take a more proactive role in developing energy policies for the future.

《Building a new energy society》

	Until now	From now on
Safety	• Dependence on nuclear power	• Reduction of dependence on nuclear power
Stability	• Regionally exclusive large-scale centralized power system	• Decentralized power system by diverse power suppliers
Proper Price	• Authorized electric power price	• Transition to competitive power price system where consumers can freely choose suppliers

## Plan Formation

◆ The Osaka City Government and Osaka Prefectural Government collaborate together to carry out energy policies that will help promote renewable energy.



## Objectives and Time Period

◆ To promote the energy plan for local production and consumption, specific goals will be set and efforts will be made to achieve them by the year 2020.

◆ Period From 2014 to 2020

◆ Objectives

### (1) Promoting Renewable Energy

With the local characteristics of Osaka in mind and to promote the use of solar power, the aim is to increase an electric power supply of 900,000kW (620,000kW for residence, 280,000kW for non-residence) by the year 2020.

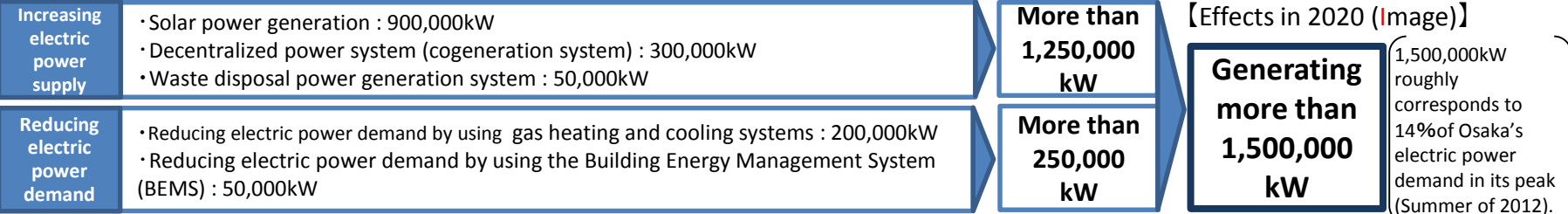
### (2) Controlling Energy Consumption (Transition to Eco-Friendly Lifestyle)

To promote an energy efficient society, the introduction of eco-friendly devices and facilities will help conserve energy.

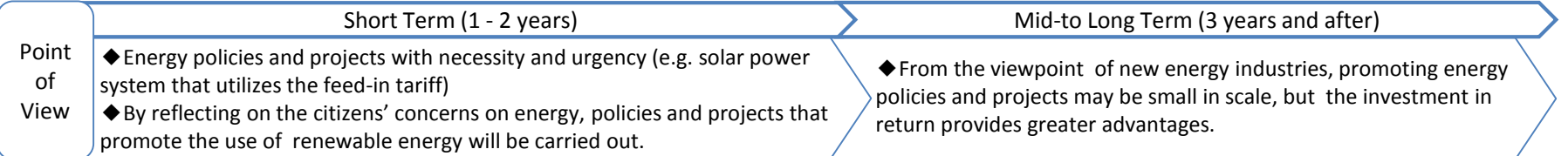
### (3) Leveling the Demand and Stabilizing the Supply

Through the use of gas heating and cooling systems, it will help reduce 250,000kW demand of electric power. The introduction of the decentralized power system can help reach the goal of increasing an electric power supply of 350,000kW.

## Development of policies and projects, and their effects (Image)



## <Promotion of policies and projects>



## Plan Process (Outline)

### (1) Promoting Renewable Energy

◆ Through the application of the feed-in tariff, we aim to promote solar power and other renewable energy sources.

#### Solar Power

- ★ Promoting solar power use
  - Introducing the solar power system in homes and non-residential buildings
  - Introducing the solar power system in public facilities, disaster prevention bases, and ponds

#### Other Renewable Energy

- ★ Establishing small-medium hydroelectric power plants
  - Introducing hydroelectric power plants for waterworks (water supply facilities) and public facilities (dams and rivers)
- ★ Utilizing biomass and waste effectively
  - Introducing biomass power plants
- ★ Promoting heat utilization
  - Promoting geothermal heat pump system use

### (2) Controlling Energy Consumption

◆ Making the transition to a more eco-friendly lifestyle and business style by implementing the "visualization" of energy consumption, and introducing eco-friendly devices and facilities.

#### Eco-Friendly Lifestyle and Business Style

- ★ Implementing the "visualization" of energy consumption, and promoting eco-friendly efforts
  - Eco-Friendly measures for homes and for small and medium-sized companies
- ★ Promoting education on energy conservation and having interactive seminars
  - Providing advice on energy conservation

#### Eco-Friendly Devices and Facilities

- ★ Promoting eco-friendly devices
  - Providing incentives by introducing eco-friendly devices
- ★ Implementing eco-friendly measures to help construct new buildings
  - Constructing more eco-friendly buildings and homes

#### Eco-Friendly Homes and Buildings

### (3) Leveling the Demand and Stabilizing the Supply

◆ Promoting demand response and decentralizing the power system (cogeneration system). When various electric power companies join the electric power market, they can help control the power demand during peak hours and stabilize the electric power supply.

#### Controlling the peak of power demand

- ★ Making transition to use power during non-peak hours rather than peak hours.
  - Appealing to consumers with a marketing mechanism
  - Introducing facilities that are capable of controlling the peak hours of electric power use

#### Stabilizing the Supply

- ★ Promoting a decentralized power system
  - Introducing the decentralized power system and battery system
- ★ Creating smart communities
  - Introducing smart communities and smart meters

#### Promoting various electric power companies to enter the electric power market

- ★ Setting the stage for new electric power suppliers
  - Reforming the electric power market
- ★ Providing an electric power market where consumers can choose their suppliers
  - Providing an electric power market where small and medium sized companies can choose their electric power source

## Effective Promotion System

◆ To promote adequate energy production and consumption at the local level, the Osaka City Government and Osaka Prefectural Government will collaborate with related parties in the energy field to propose new projects and policies that will address local energy problems.

