

Towards creating Low Carbon Societies in Asia Region

## City of Kitakyushu's Environmental Actions

*Eco-Model City of Japan*

*Green Frontier Plan*



## 1. Designation of Eco-Model Cities



2

## Designation of Eco-Model City of Japan

⇒ Actions for realizing a Low Carbon Society through Local Initiatives

【 6 cities on 22 July 2008】

**Kitakyushu, Yokohama**

**Toyama, Obihiro**

**Minamata, Shimokawa (Hokkaido)**



【 additional 7 cities on 23 January 2009】

**Kyoto, Sakai, Iida, Toyota**

**Yusuhara (Kochi Pref.), Miyakojima, Chiyoda(Tokyo)**



## “Low Carbon Society”

~ Eco-Model City's Target ~

☑ To Protect Climate Change through **CO<sub>2</sub>** Reduction

☑ Happy Life  
Comfortable and Benefitable &  
Accumulation of Prosperity by Generations

☑ Sustainable Economic Growth  
Not Compression but promotion of Economy

⇒ Efficient Implementation based on  
Kitakyushu Green Frontier Plan



4

# Kitakyushu Green Frontier Plan

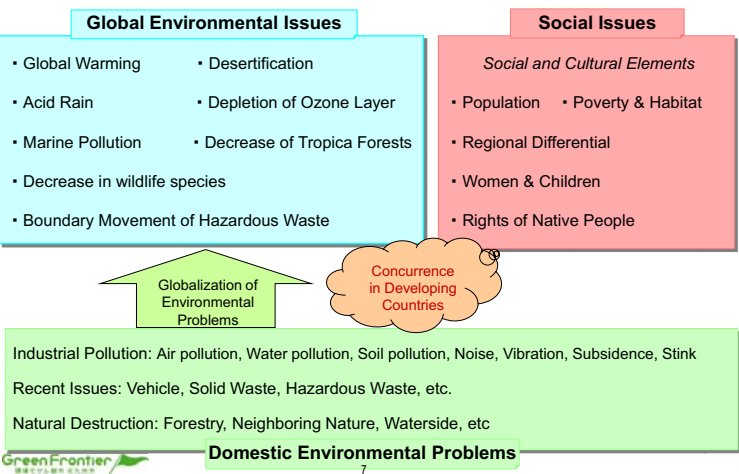
**Target: : Society with accumulated prosperity by generations**

- Utilizing industrial infrastructure
- Aged People and Children Friendly Society
- International Cooperation for Asian Sustainable Development



## 2. Present Issues and Eco-Model City

## Various Environmental Problems at present



## Forecasting on Increasing CO<sub>2</sub> Emission in Asia

**Energy Demand: Two Times in 2030**

**3.2 billion tons in 2005**



**6.5 billion tons in 2030**

出典：日本エネルギー経済研究所「アジア/世界エネルギーアウトック2007」  
総合資源エネルギー調査総合部会（平成20年度第2回）資料

## Solution: Sustainable Development

Sustainable Development is . . .

☑ development that meets the needs of the present without compromising the ability of future generations to meet their own needs. 【time-equality】

☑ development that alleviate poverty. 【Spatially-equality】

Report of the World Commission on Environment and Development "Our Common Future" in 1987

Important Element of Sustainable Development: Low Carbon Society  
(World Capital of Sustainable Development) (Eco-Model City)

## 3. Actions towards achieving Sustainable Society

~ Implementation from citizen life to urban infrastructure ~

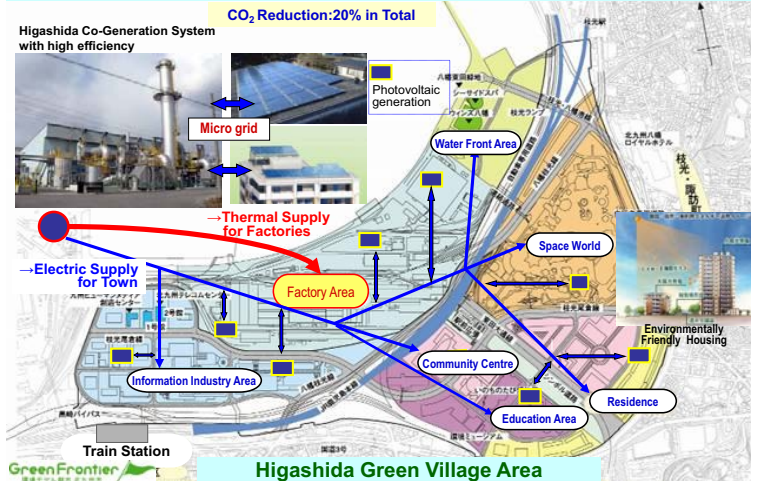
## Low Carbon Emission Town Development

Low Carbon and Human Friendly Town for an Aging Generation with Fewer Children

- 1) Private Vehicle Free Zone with Convenient Public Transportation System
- 2) Power Self-Support by the use of Renewable Energy
- 3) Long-life Housing with High Heat Insulation materials and Energy-saving Facilities
- 4) Rich Greenery with People's Planting
- 5) Environmentally Friendly Town with People's advanced awareness and activities



## Integrated Local Energy System Usage of Industrial Potential Energy for Residence



## Smart Usage of Local Energy



Large-scale Mega-Photovoltaic Generation on Roofs of Factories



Usage of Abundant potential Energy of Factories

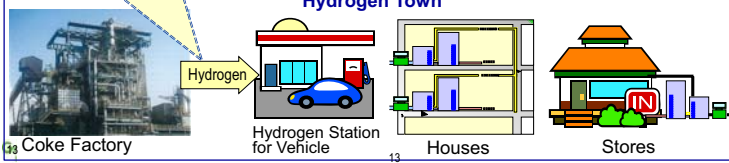


House & Office

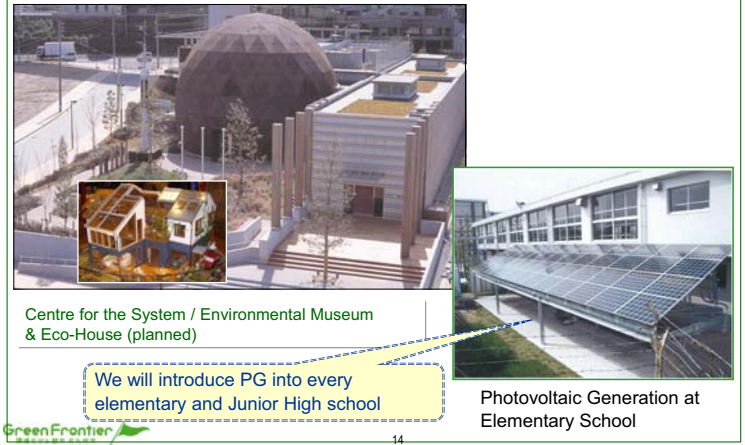
Urban Agriculture

Hydrogen generated in Kitakyushu is able to cover the needs for all vehicle.

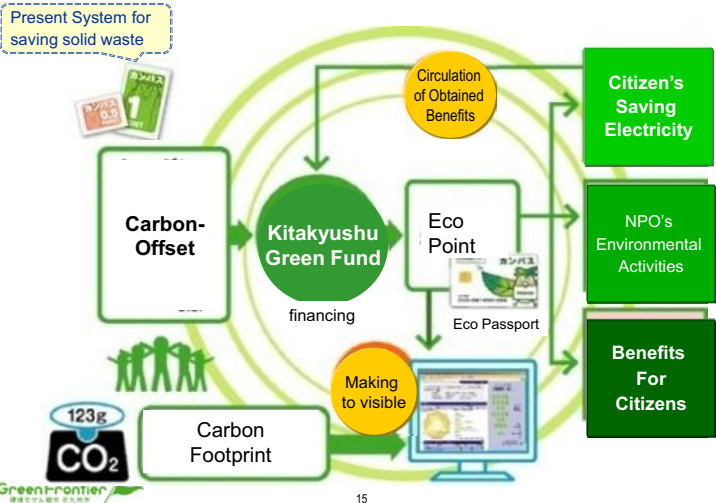
### Hydrogen Town



## Overall Learning System on Low Carbon Society (Super Centre for Alternative Technologies)

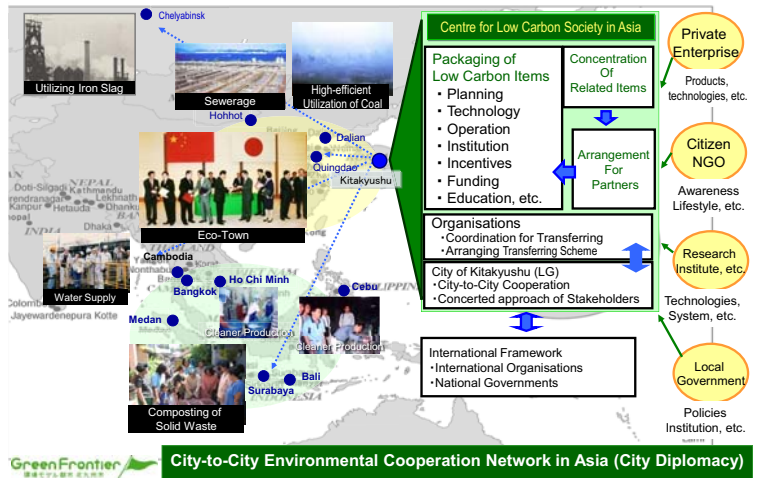


## Integrated System on Carbon-Offset & Eco-Point



## Centre for Low Carbon Society in Asia

### Co-benefit Cooperation (Economy & Environment)



## Kitakyushu Conference for Promoting Eco-Model City

Multi-Stakeholder Organisation including Citizen, Industrial Sector, Academe, and Local Government. Number of Members: more than 300.

**Kitakyushu Hygiene Association**  
**Kitakyushu Women's Group Association**  
**Junior Chamber International Kitakyushu**  
**Kitakyushu Prosperity Enrichment Council (KPEC)**  
**Kitakyushu Foundation for the Advancement of Industry  
 Science and Technology (FAIS)**  
**Kitakyushu Shimin Katsudo Support Center**  
**Trade Union Federation (Fukuoka- Kitakyushu)**  
**Kitakyushu Chamber of Commerce and Industry**  
**City of Kitakyushu**

One step will spread to local communities and city-wide and change Japan and World Community to Sustainable Society.

## Promotion Council for the Low Carbon Cities

was established in 2008, which consists of local governments which are trying to challenge the ambitious target of GHG emissions reduction, Agencies (public interest corporations, etc.), central government ministries, etc. Number of members are 168 as of October 2009. The chairman is Mr. Kenji Kitahashi, mayor of Kitakyushu.



**Establish**  
 14 December 2008  
**Consist of**  
 Local Governments, National Government (Ministries), Parties Concerned, etc.  
**Number of Members**  
 168 as of October 2009  
**Chairman**  
 Kenji Kitahashi, Mayor of Kitakyushu  
**Activities**

- Study on Issues and solution for creating Low Carbon Society
- Cooperative Activities and Information Dissemination
- To Promote Local Economy and Job Opportunity
- Two kinds of Working Groups

Your willingness and activity would save the future of human being and the earth.

Let's make actions for Children !

Let's make actions for Future of the Earth !

