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

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 CO₂ 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
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

Citizens’ Willingness & Partnership
Making a Low Carbon Society
New Feeling of Values & Culture
Solution of Climate Change Issue
Increasing City’s Activeness
Asian Growth & Exchange

CO₂ Reduction Target in 2050
- Present Emission: 15.7 million tons in 2005
- The target in Asian region is set only by Kitakyushu City
- Asian Region: equivalent to 150% of Kitakyushu’s Emission

5 Actions Policy for sustainable development

2. Present Issues and Eco-Model City

Various Environmental Problems at present

Global Environmental Issues
- Global Warming
- Acid Rain
- Marine Pollution
- Decrease in wildlife species
- Boundary Movement of Hazardous Waste

Social Issues
- Population
- Poverty & Habitat
- Regional Differential
- Women & Children
- Rights of Native People

Industrial Pollution: Air pollution, Water pollution, Soil pollution, Noise, Vibration, Subsidence, Stink
Recent Issues: Vehicle, Solid Waste, Hazardous Waste, etc.
Natural Destruction: Forestry, Neighboring Nature, Waterside, etc

Forecasting on Increasing CO₂ Emission in Asia

Energy Demand: Two Times in 2030

3.2 billion tons in 2005
↓
6.5 billion tons in 2030
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】


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

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

Higashida Co-Generation System with high efficiency
Photovoltaic generation
Micro grid
CO₂ Reduction: 20% in Total
Thermal Supply for Factories
Electric Supply for Town
Higashida Green Village Area
Smart Usage of Local Energy

Large-scale Mega-Photovoltaic Generation on Roofs of Factories

Hydrogen Town

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

Urban Agriculture

Coke Factory

Hydrogen Station for Vehicle

House & Office

Stores

Integrated System on Carbon-Offset & Eco-Point

Present System for saving solid waste

Carbon-Offset

Kitakyushu Green Fund

Eco Point

NPO's Environmental Activities

Citizen's Saving Electricity

Benefits For Citizens

Making to visible

Promotion of Obtained Benefits

Integrated System on Carbon-Offset & Eco-Point

Overall Learning System on Low Carbon Society

(Super Centre for Alternative Technologies)

Centre for the System / Environmental Museum & Eco-House (planned)

We will introduce PG into every elementary and Junior High school

Photovoltaic Generation at Elementary School

Centre for Low Carbon Society in Asia

Co-benefit Cooperation (Economy & Environment)

Packaging of Low Carbon Items

Planning

Technology

Operation

Institution

Incentives

Funding

Education, etc.

Centre for Low Carbon Society in Asia (City Diplomacy)

City-to-City Environmental Cooperation Network in Asia (City Diplomacy)
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

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.

Established
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!