

Strategy for Sustainable Development

Green Frontier Plan

City of Kitakyushu, Japan




Green Frontier

Present Issues and Kitakyushu's Strategy

Green Frontier

Various Issues at present

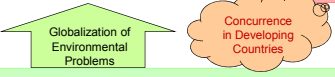
Global Environmental Issues

- Global Warming
- Acid Rain
- Marine Pollution
- Decrease in wildlife species
- Boundary Movement of Hazardous Waste
- Desertification
- Depletion of Ozone Layer
- Decrease of Tropica Forests

Social Issues

Social and Cultural Elements

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



Globalization of Environmental Problems

Concurrence in Developing Countries

Domestic Environmental Problems

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.

Green Frontier

Forecasting on Increasing CO₂ Emission in Asia

Energy Demand: Twice 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会（平成20年度第2回）資料

Green Frontier

Needs of Economic Development for Alleviating Poverty in Developing Countries




People including children owe to resources in solid waste for their lives

Percentage of Poverty (Income is less than 1 dollar per day)			
Year	1990	1999	2005
Developing Country	45.5	32.9	26.6
Least Developing Country	63.3	60.4	53.4

Reference: UNDP "The Millennium Development Goals Report 2009"

Green Frontier

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

Green Frontier

Approach to Sustainable Development

- ☑ **To Protect Climate Change through CO₂ Reduction**
- ☑ **Happy Life**
Comfortable and Benefitable Life & Accumulation of Prosperity by Generations
- ☑ **Sustainable Economic Growth**
Not Compression but promotion of Economy

⇒ **Efficient Implementation based on the Kitakyushu Green Frontier Plan**

Green Frontier

Kitakyushu Green Frontier Plan

Made by Multi-stakeholders

Target: : Society with accumulated prosperity by generations

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

CO₂ Reduction Target with 40% of Economic Growth in 2050

- ☑ City Area: 50%
- ☑ Asian Region: equivalent to 150% of Kitakyushu's Emission

5 Action Policies for sustainable development

Urban
Development

Industrial
Development

Human
Development

Social
Development

Sustainable
Development
in Asia

Green Frontier

Kitakyushu's Resources & Capability for Sustainable Development (Green Frontier)

- Overcoming Severe Environmental Pollution
- International Environmental Cooperation

Green Frontier

Overcoming Severe Environmental Pollution

Worst Air Pollution
caused closing a school

In 1960s

Present
Citizen enjoying Blue Sky

"The Dokai Bay, Sea of Death"
Screw of ship was eroded and E. coli bacteria died.

Recovered Blue Skies and Sea,
People Enjoying Environment

Green Frontier Kitakyushu's success was introduced by the OECD's Environmental Report as "from Grey City to Green City" in 1985.

Overcoming environmental pollution through partnerships among Multi-stakeholders

Residents

Residents' observation of a private company

Learning how to measure air pollution with a university professor

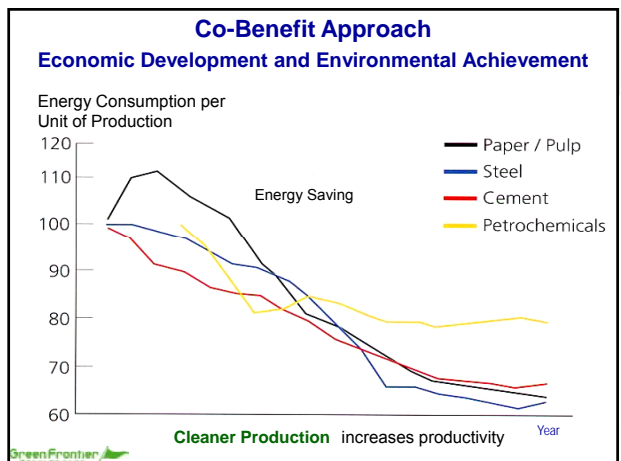
Partnership

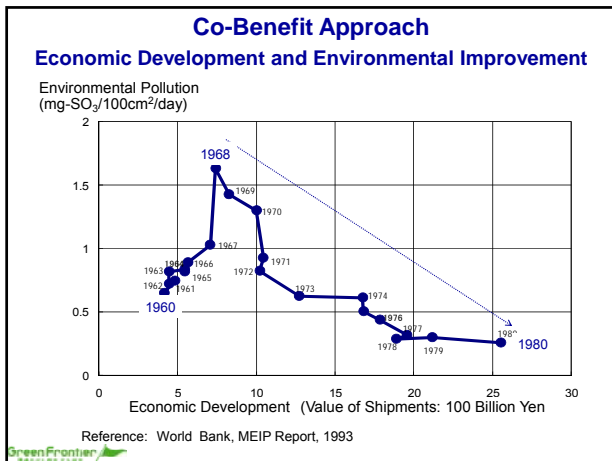
Environmental control & environmental infrastructure
Local Government

Cleaner Productions & pollution control equipment
Private Enterprises

Local Initiative & Partnership
Environmental Technology & Environmental Investment
Education & Participation of Citizens
Environmental Governance

Green Frontier Reference: ESCAP Kitakyushu Initiative for a Clean Environment





International Environmental Cooperation

Asian Partnership Programme towards Shared Prosperity

Trainees Received: 133 countries 5,386 people, Experts Dispatched: 34 countries 200 people
Coordinating Cities' Cooperation Network in Asia, Promoting Environmental Projects in Asia

City-to-City Environmental Cooperation Network

- City of Dalian's Environmental Improvement, Dalian received the Global 500 Award from UNEP in 2001
- City of Surabaya's Composting Project, Spreading to more than 20 thousand households

Exchange of Memorandum on Cooperation for establishing Eco-Town with Tianjing at Prime Minister's Office

4. Actions towards achieving Sustainable Society

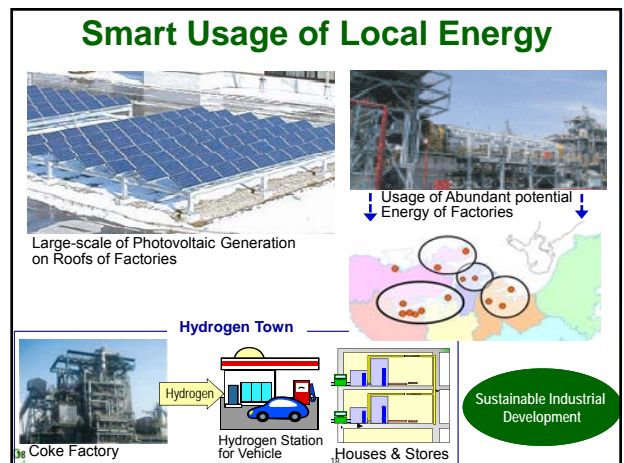
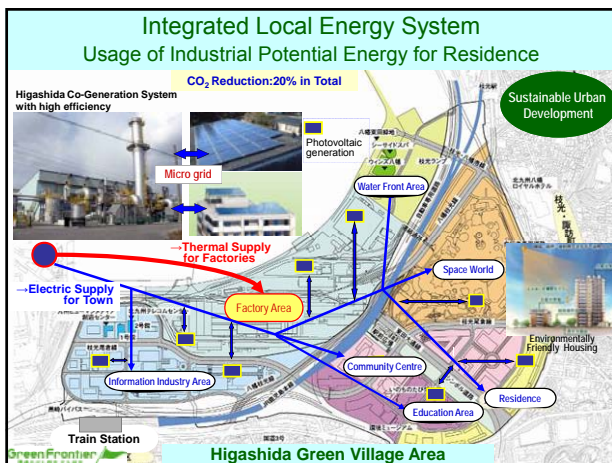
~Implementation from citizen life to urban infrastructure ~

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

Sustainable Urban Development




Overall Learning System on Sustainable Development



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

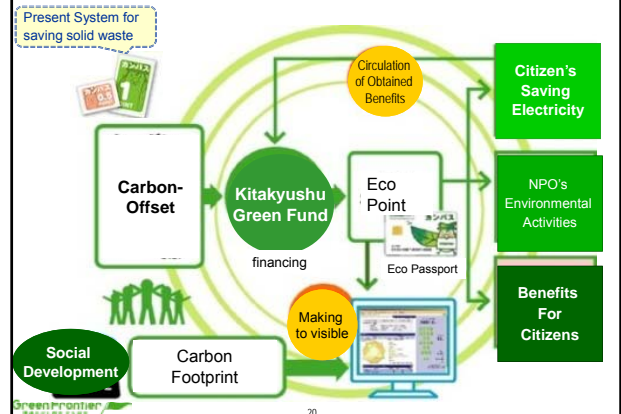
We will introduce PG into every elementary and Junior High school



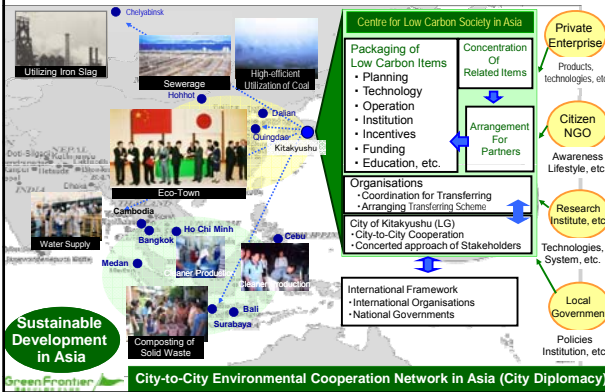
Photovoltaic Generation at Elementary School

Human Development

Integrated System on Carbon-Offset & Eco-Point



Centre for Sustainable Development in Asia Co-benefit Cooperation (Economy & Environment)



Kitakyushu Conference for Sustainable Development

Multi-Stakeholder Organisation including Citizen, Industrial Sector, Academe, and Local Government. Number of Members: 378 organizations.

- 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.

We can realize sustainable development (Economic Growth and Environmental Achievement)

