

Kitakyushu City's Approach to a Low Carbon Society

Green Frontier Plan to Eco Model City



The History of Kitakyushu City's Environmental Policy

■ Phase 1 (until 1980)

The age of pollution problems and their conquest (women's associations & cooperation among industrial, academic, bureaucratic & private sectors)

■ Phase 2 (from 1980)

The age of international cooperation (KITA, participation in two summit meetings & international awards)

■ Phase 3 (from first half of 1990)

The age of recycling society activities (Eco-Town, PCB treatment, fee-for-service garbage collection & more exhaustive garbage sorting)

■ Phase 4 (from 2005)

The age of sustainability and low carbon society activities
(Environmental capital, civic collaboration & Eco-model city)

The First Phase

Overcoming Severe Environmental Pollution



Worst Air Pollution
caused closing a school

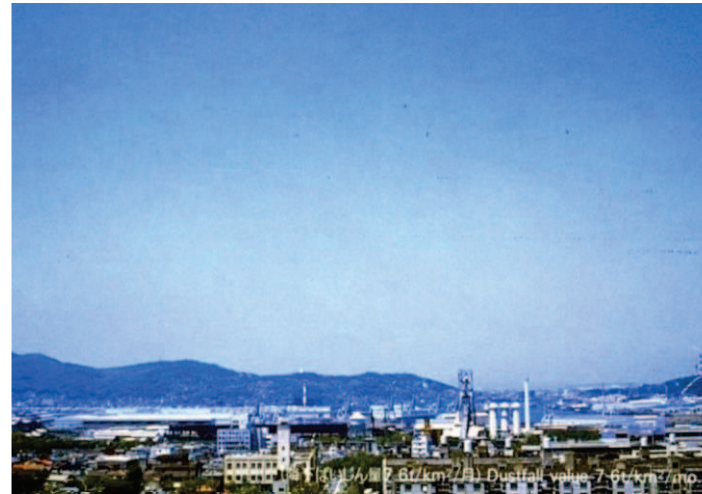


（神戸市）1960年8月7日 Dustfall value 8016t/km²mo.

In 1960s



Present



（神戸市）1991年11月26日 Dustfall value 7.6t/km²mo.



Citizen enjoying
Blue Sky



5.45. 5.23 ©朝日新聞社



“The Dokai Bay, Sea of Death”

Erode Screw of ship and E. coli bacteria died.



(COD 3.8mg/l)

Recovered Blue Skies and Sea, People Enjoying Environment



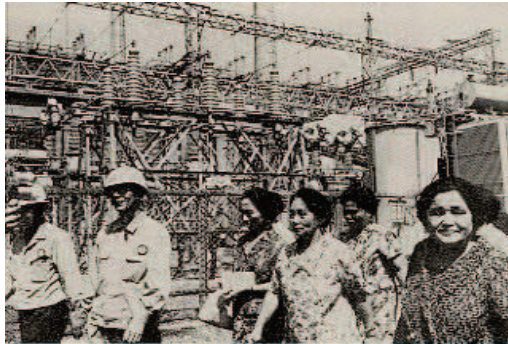
Swimming at
Dokai Bay

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

The First Phase

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

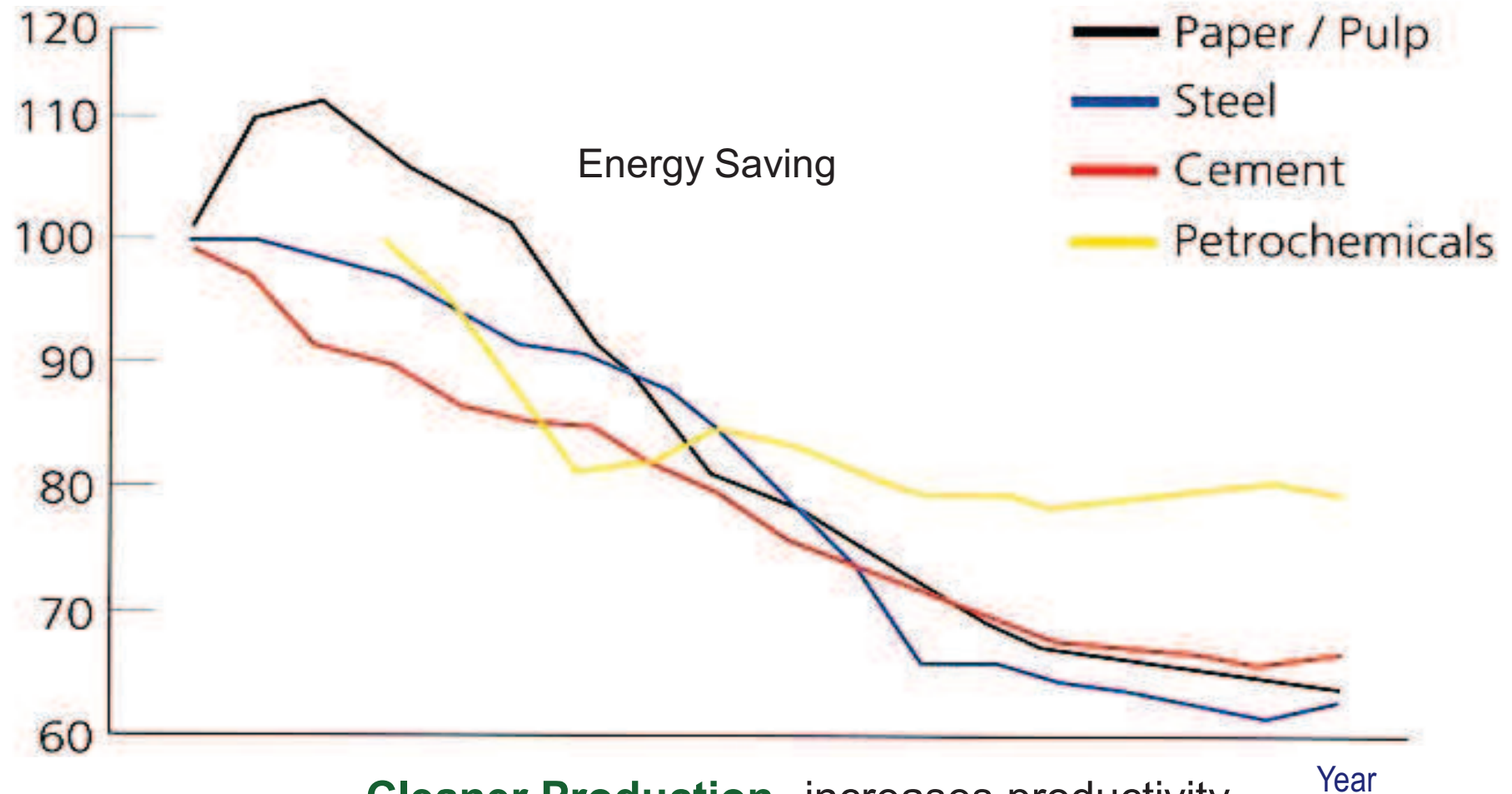
Private Enterprises

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

The First Phase

Co-Benefit Approach: Economic Development and Environmental Achievement

Energy Consumption per
Unit of Production



The Second Phase

Asian Partnership Programme towards Shared Prosperity

Trainees Received: 137 countries 5,805 people, Experts Dispatched: 25 countries 153 people
Coordinating Cities' Cooperation Network in Asia , Promoting Environmental Projects in Asia



City of Dalian's Environmental Improvement, China
Dalian received the Global 500 Award from UNEP in 2001



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



City of Surabaya's Composting Project,
Spreading to more than 20 thousand households

The Third Phase

Kitakyushu Eco-Town for facilitating Resource Circulation and Eco-Industries



Practical Research Area
Facilities for Practical Research:
15



Comprehensive Eco-Industrial Complex,
Hibiki Recycling Area
Industrial Plants under Operation: 26

Outcome of Projects

Environment: Reduction of Environmental Impact, Saving Resources and Energy

Economy: Investment: 60 billion yen (Private sector: 68.6%, Government Sector: 31.4%)

Employee: 1,300 persons

Visitor: 750,000 persons (as of 2009.3)

The Third Phase

Examples of resource-circulation projects in Kitakyushu Eco-Town



Plastic PET Bottle Recycling Project



Office Equipment Recycling Project



Home Appliance Recycling Project



Automobile Recycling Project

The Fourth Phase

Kitakyushu's Approach to Sustainable Development / Low Carbon Society

☑ To Reduce CO₂ to Protect the Environment;

☑ To achieve Happiness and Health
Comfortable and Convenient Life &
Accumulation of Prosperity by Generations

☑ To simultaneously Achieve Sustainable
Economic Development
Not Compression but promotion of Economy

⇒ ***The Kitakyushu Green Frontier Plan***
will efficiently achieve these purpose

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%** the Kitakyushu's Emission

5 Strategies for sustainable development



Leading Urban Development with integrated Low Carbon Technologies

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



Leading Urban Development with integrated Low Carbon Technologies

Integrated Local Energy System

Higashida Co-Generation System
with high efficiency

CO₂ Reduction: 20% in Total

Sustainable Urban
Development

