

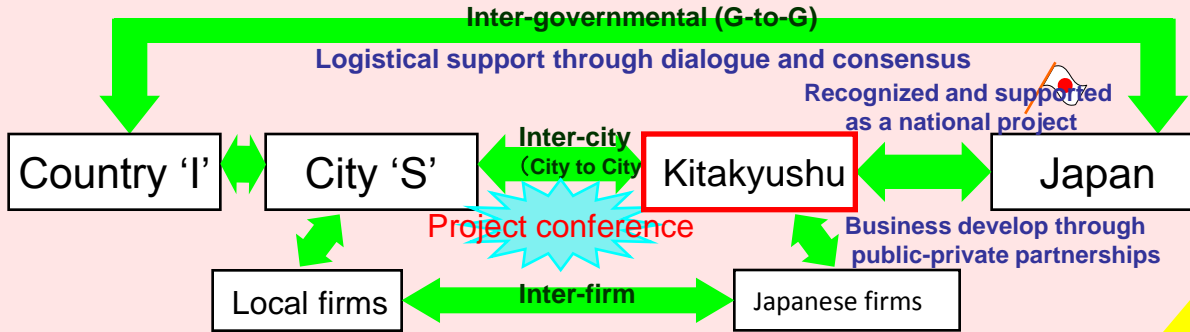
Low Carbon City Design by AIM

Intercity Cooperation between Pasir Gudang City and Kitakyushu City for the Development of Low Carbon Society

Kitakyushu Asian Center for Low Carbon Society

Development Scheme for Exporting Urban Environmental Infrastructure

Creating a platform for inter-governmental and inter-city cooperation



Creation and centralization of a comprehensive support coordination service

- Ministry of Foreign Affairs
- Ministry of Economy, Trade and Industry
- Ministry of the Environment
- Ministry of Land, Infrastructure, Transport and Tourism
- JICA
- NEDO
- JBIC ...and more

Comprehensive financial assistance
(cross-industry, continuous-process)

Development of a comprehensive environmentally-friendly urban master plan

Kitakyushu model activities



Consensus-building between the public, industry, government, and other stakeholders

Private financial institutions



Financial assistance

Social system development

Project discovery

Project development

(feasibility studies & demonstrations)

Commercialization

(including fundraising)



Public financial assistance

Support from public and private funds

Overseas infrastructure development

Support for establishing footholds
(subsidies, etc.)

Greater worker interaction

Establishing footholds for constructing local government models



Kitakyushu Asian Center for Low Carbon Society
Establish green community development that accommodates the diverse needs of Asian cities and firms.

Overview of the Kitakyushu Model

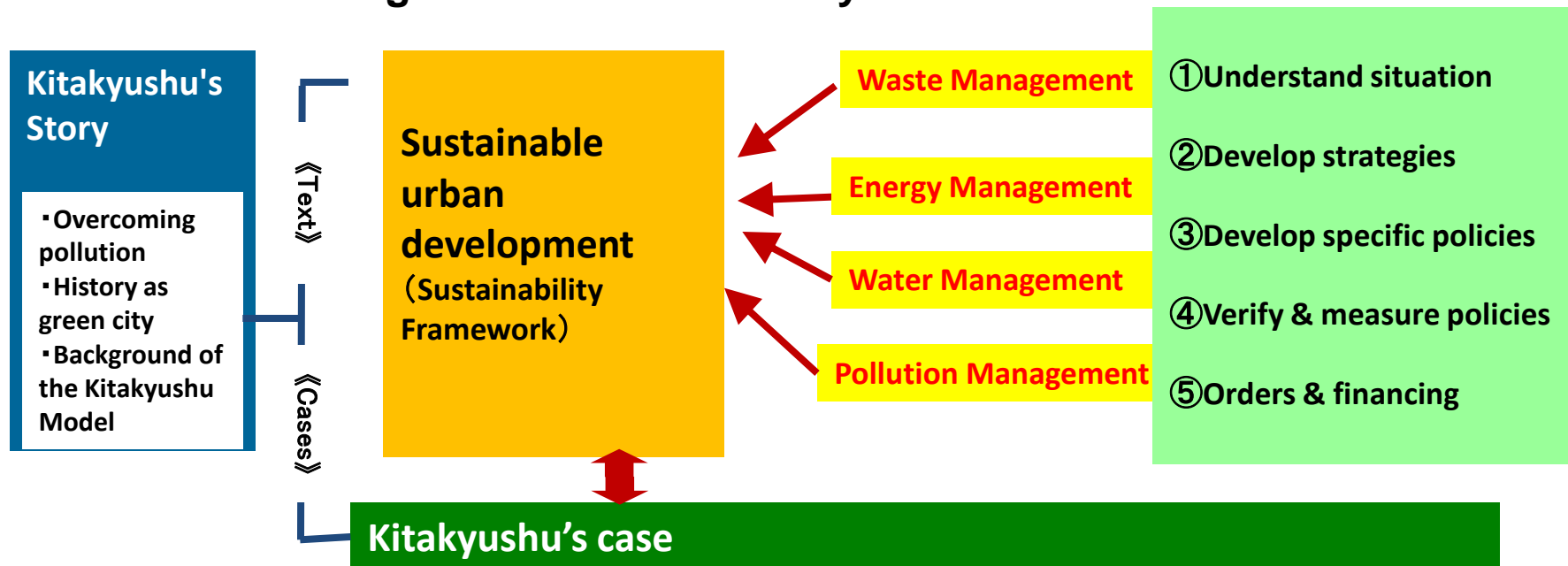
1. Objective of the Kitakyushu Model

- Kitakyushu, which faced and overcame pollution for the first time in Asia, became a leading environmental city in Japan.
- Kitakyushu is developing the Kitakyushu Model (support tool) that systematically arranges information on the technologies and know-how of Kitakyushu from its experience in overcoming pollution to its quest as an environmental city.
- Kitakyushu is utilizing the Kitakyushu Model to promote the export of customized infrastructure packages to cities overseas, and grow together with Asia.

2. Applications of the Kitakyushu Model

- Support tool to examine future ideal city image and for cities to take appropriate measures and procedures to achieve this.
- Support tool to examine management systems for waste, energy, water and sewage services, and environmental protection.
- Support tool to develop sustainable master plans that integrates waste, energy, water and sewage services, and environmental protection.

— Organization of the Kitakyushu Model —



Development of Low Carbon Society for Iskandar, Malaysia

This project aims to develop the Large-Scale GHG Emissions-Reduction Project through the application of “Fujisawa-model by Panasonic”, “Kitakyushu-model” and “ESCO business-model”, in the field of residential area, industrial area and individual buildings, based on LCSBP in Iskandar development region, Malaysia.



Goals,
Methods,
Plans of the
project

Co-proposer	Panasonic Corporation	Kitakyushu City	Japan Facility Solutions Inc.
Goals	<ul style="list-style-type: none"> ● GHG emissions reduction in the residential area 	<ul style="list-style-type: none"> ● GHG emissions reduction in the industrial area 	<ul style="list-style-type: none"> ● GHG emissions reduction on the individual buildings
Methods	<ul style="list-style-type: none"> ● Developing the projects and systems based on the “Fujisawa model” in order to realize GHG emissions reduction in the residential area 	<ul style="list-style-type: none"> ● Developing the relationship and cooperation based on the “Kitakyushu model” in order to realize GHG emissions reduction in the industrial area 	<ul style="list-style-type: none"> ● Developing the ESCO-business in order to construct the system of GHG emissions reduction on the individual buildings
Research plan	<ul style="list-style-type: none"> ● Communicating two developers ● Participating the basic design and details design in order to develop the Low carbon residential area, based on the research results of FY2014 	<ul style="list-style-type: none"> ● Developing the round table for discussion in order to cooperate between Kitakyushu city and Pasir Gudang city ● Identifying the field for realizing the Low carbon industrial area 	<ul style="list-style-type: none"> ● Implementing details energy conservation diagnosis, developing the methods of verification of benefits and the standard of form of Agreement
Partners	<ul style="list-style-type: none"> ● Developer A ● Developer B 	<ul style="list-style-type: none"> ● Pasir Gudang city 	<ul style="list-style-type: none"> ● TNB Energy Services

The Japan Research Institute, Ltd.

- Heading each project for developing the Low carbon Society
- Cooperating and discussing with Iskandar Regional Development Authority
- Supporting the research and discussion for realizing each project
- Organizing the meeting and seminar in order to involve the stakeholders at Iskandar

The Low Carbon Society Blueprint for Iskandar, Malaysia 2050 (LCSBP)

LCSBP <Drawn up in November 2012>

Roadmap for the development of a low-carbon city



Action For a Low Carbon Future 10 <Drawn up in November 2013>

List of 10 preferential measures to implement the LCSBP

1. Integrated Green Transportation
2. Green Economy Guidelines
3. Eco-life Challenge School project
4. Portal on Green Technology
5. Trees for Urban Parks
6. Responsible Tourism and Biodiversity Conservation
7. Bukit Batu Eco-Community
8. GAIA-Green Accord Initiative Award
9. Low Carbon Village Felda Taib Andak



Special Feature : Smart City-Nafas Baru Pasir Gudang-Green and Healthy City

The following four programs will be promoted.

1. Green Industry

2. Solid Waste Management

3. Carbon Sequestration

4. Green Community

Green & Healthy City of Pasir Gudang

Smart Cities

1. Green Industry

- Cleaner Production
- Efficient energy management
- Pollution prevention (wastewater/waste gas measures)
- Recycle industrial waste
- Manufacture eco-products

2. Solid Waste Management

- Reduce urban waste (emission stages)
- Promote recycling
- Proper treatment of waste (waste-to-energy)
- Secure final disposal sites
- Illegal dumping prevention measures

Kitakyushu Model

Offering solutions

3. Carbon Sequestration

- Promote spread of public transport systems
- Introduce low-emission vehicles
- Energy-saving homes and offices
- Introduce renewable energies
- Climate change measures

4. Green Community

- Urban greening
- Protect the natural environment
- Environmental education & learning
- Practice eco-lifestyles
- Develop monitoring systems