Kitakyushu Asian Smart Industry City

— Kitakyushu City, Fukuoka Prefecture, Japan 2010-

Aiming for industrial expansion in Asia through the establishment of an environmental business model based on experience and knowledge of overcoming pollution

Key Issue

Since the period of high economic growth in the 1960s, anti-pollution measures and shift of industrial structure from heavy industry to new industries, which would enable harmonious balance with the environment, had been critical themes of the city of Kitakyushu where a lot of heavy industries agglomerated. It was required for the city to accumulate its experience and know-how in overcoming pollution such as air and water pollution achieved over many years, as environmental technologies that could be deployed both in Japan and overseas, while utilizing them to develop new infrastructure for local industries.



Source: JIJI

(Kitakyushu Eco Town Project)

This project aims to utilize all types of industrial waste as raw materials in other industrial fields, with the ultimate goal of achieving zero emission of industrial waste and creating a resource-recycling society.

Through the collaboration of universities, resarch institutions and private-sector companies, the project has implemented environmental-industrial promotion initaitives ranging from basic research to the development and commercialization of new technologies

Investing in projects which will develop regional resources

Project Approach

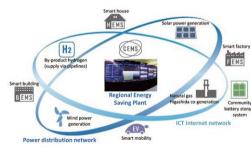
The city has implemented experimental and demonstrative projects focusing on resolving local issues (e.g. those concerning energy, resources, etc.) while utilizing local resources (including experience, technology and human resources). Thus Kitakyushu was successful in applying environmental technologies and know-how accumulated in the region to business model structures and proposals in new fields of energy circulation and recycling.

Exporting accumulated technologies, know-how and infrastructure as a package to overseas countries

The Kitakyushu Asian Center for Low Carbon Society took a central role in the export of environmental technologies and know-how in areas such as energy saving and conservation of resources as comprehensive urban solutions. The city has shifted from a conventional resource-based industrial city to a smart industrial city that develops and proposes environmental technologies, and is exporting environmental technologies that will help the promotion of low-carbon society in Asia.

(Kitakyushu Smart Community Creation Project) In this demonstrative project, an energy management system has been established with the participation of both residential and industrial consumers, with the aim of acheiveing smart, total. waste-free use of energy in the local community. The smart community is now beginning to expand, with the prospect of covering the Source: Kitakyushu City

Overall image of Kiyakyushu Smart Community



To the Next Phase

The city of Kitakyushu, which successfully overcame local issues, has also developed a number of initiatives in parallel. These achievements have helped to foster a sense of civic pride, and contributed to establishing and developing smart industries as a new culture of the city.

(Kitakyushu Smart Community Creation Project)

Area: 120ha (Higashida district, Yahatahigashi Ward)

Project implementing bodies: Kitakyushu Smart Community Creation Council (77 organizations including Kitakyushu City Government, private-sector companies, universities and research institutions)

Main facilities introduced: Power generation facilities (wind power, mega solar and binary power generation), regional power storage systems, CEMS (Community Energy Management System), BEMS (Building Energy Management System), HEMS (Home Energy Management System), FEMS (Factory Energy Management

System), etc.

(Kitakyushu Eco Town Project) Area: Demonstrative research area: 16.5ha, Total environmental complex: 25ha (of which recycling zone 6.ha) Project implementing bodies: Kitakyushu City Government and 25 private-sector companies Main facilities introduced: university and company research centers, recycling and reuse plants, training













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