

Kawasaki City Global Environment Knowledge Centre

I. Purpose of Establishment of the Global Environment Knowledge Centre

In advance of the establishment of the Kawasaki Environment Research Institute, the City of Kawasaki established the Global Environment Knowledge Centre in May 2008. Since its establishment, the Centre has been actively engaged in collecting and sending out of information on Kawasaki's outstanding environmental technologies, as well as joint research in collaboration with industry, universities, the public sector, and citizens utilizing the field of Kawasaki, receiving of trainees from other countries, and other initiatives.

II. Establishment of the Kawasaki Environment Research Institute

1. Purpose of Establishment

The city's aim in establishing the Kawasaki Environment Research Institute is to create a base for comprehensive research on the environment in collaboration with the United Nations Environment Programme (UNEP), Japan's National Institute for Environmental Studies, universities, and companies which possess environmental technologies by consolidating three existing organizations in Kawasaki City (Municipal Research Institute for Environmental Protection, Kawasaki Air Pollution Monitoring Center, and Kawasaki City Global Environment Knowledge Centre).

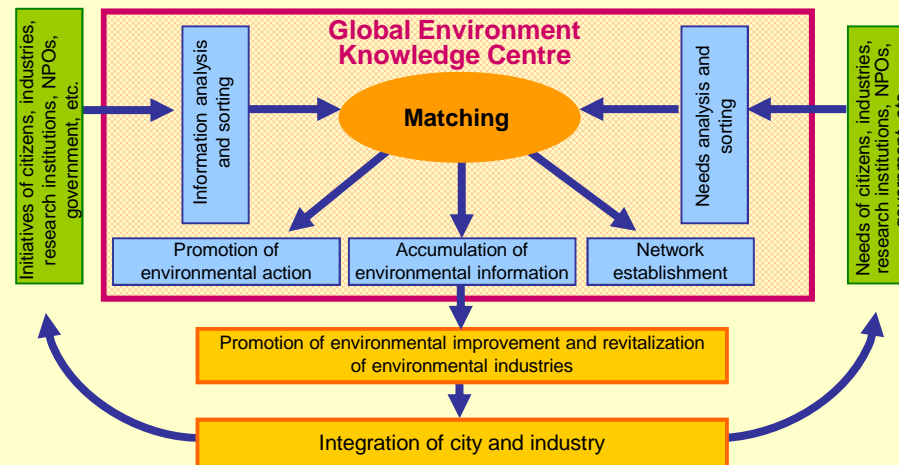
2. Functions Introduced

- (1) Research aiming at "Integration of city and industry" (collaborative joint research with industry, universities, the public sector, and citizens)
 - Research on techniques for estimating greenhouse gas emissions and indexes for global warming countermeasures
 - Research for the construction of a low carbon society and resource circulation society
 - Joint research with the National Institute for Environmental Studies and others
- (2) Promotion of international environmental policy by transfer of Kawasaki's outstanding environmental technologies
 - Collaborative projects with United Nations Environment Programme (UNEP)
 - Receiving of observers/trainees from other countries
 - Projects in collaboration with other international organizations
- (3) Collection/sending out of Kawasaki's outstanding environmental technologies
 - Systemization and archiving of Kawasaki's environmental initiatives and experience
 - Analysis/processing for sending out of easily-understood information
 - Collection/sending out of information on environmental technologies inside/outside Japan using ICT, etc.
- (4) Monitoring, surveys, and research for further environmental improvements and advance prevention of environmental pollution
 - Regular monitoring, surveys, and research in connection with environmental protection
 - Emergency response in case of releases, leaks, or spills of pollutants
 - Precision management of measurement and analysis
 - Environmental monitoring
- (5) Environmental education and training in collaboration with diverse actors
 - Development of physio-chemical environmental education and training programs
 - Collaboration with diverse environmental activities



III. Activities of the Kawasaki City Global Environment Information Center

1. Image of Activities



2. Content of Activities

- (1) Promotion of establishment of Kawasaki Environment Research Institute
 - Establishment of the institute as a base for comprehensive research on the environment
- (2) International contribution in the environmental field by collaboration with UNEP, etc.
 - Promotion of international contribution by environmental technology, e.g. by introducing environmental technologies to other countries in Asia, etc.
 - Promotion of international cooperation projects in collaboration with the national government and international cooperation organizations, etc.
 - Promotion of projects based on the agreement on cooperation in the development of a circulating economy concluded by Kawasaki and Shenyang City, China
- (3) Collection/sending out of information on Kawasaki's outstanding environmental technologies
 - Sending out of collected, analyzed, and systemized information on Kawasaki's outstanding environmental technologies
 - Sending out of information for the construction of networks for collaboration of industry, universities, the public sector, and citizens
- (4) Promotion of joint research by collaboration with industry, universities, the public sector, and citizens
 - Promotion of collaborative projects involving industry, universities, the public sector, and citizens for development and research on environmental technologies
 - Implementation of public invitation-type joint research projects
 - Implementation of joint research in collaboration with external organizations such as national research institutes, etc.



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Toward Establishment of the Kawasaki Environment Research Institute

I. Initiatives toward the Establishment of the Kawasaki Environment Research Institute

- Kawasaki City intends to establish the Kawasaki Environment Research Institute as a base for comprehensive research on the environment in collaboration with the United Nations Environment Programme (UNEP), the National Institute for Environmental Studies, universities, and companies which possess environmental technologies by consolidating three existing organizations in Kawasaki City (Municipal Research Institute for Environmental Protection, Kawasaki Air Pollution Monitoring Center, and Kawasaki City Global Environment Knowledge Centre).
- In 2008, the Kawasaki City Global Environment Knowledge Centre was launched in anticipation of the establishment of the Kawasaki Environment Research Institute. Since that time, the Centre has been engaged in the collection and sending out of information on Kawasaki's outstanding environmental technologies, joint research in collaboration with industry, universities, the public sector, and citizens utilizing the field of Kawasaki, and receiving of trainees from other countries, etc.

II. 5 Functions Introduced in the Kawasaki Environment Research Institute

<Function 1> Research aiming at "Integration of city and industry" (collaborative joint research with industry, universities, public sector, and citizens)

- Research on techniques for estimating greenhouse gas emissions and indexes for global warming countermeasures
- Research for the construction of a low carbon society and resource circulation society
- Joint research with the National Institute for Environmental Studies and others

<Function 2> Promotion of international environmental policy by transfer of Kawasaki's outstanding environmental technologies

- Collaborative projects with United Nations Environment Programme (UNEP)
- Projects in collaboration with other international organizations
- Receiving of observers/trainees from other countries

<Function 3> Collection/sending out of Kawasaki's outstanding environmental technologies

- Systemization and archiving of Kawasaki's environmental initiatives and experience
- Analysis/processing for sending out of easily-understood information
- Collection/sending out of information on environmental technologies inside/outside Japan using ICT, etc.

<Function 4> Monitoring, surveys, and research for further environmental improvements and advance prevention of environmental pollution

- Regular monitoring, surveys, and research in connection with environmental protection
- Studies and research on environmental risk
- Emergency response in case of releases, leaks, or spills of pollutants
- Precision management of measurement and analysis
- Environmental monitoring



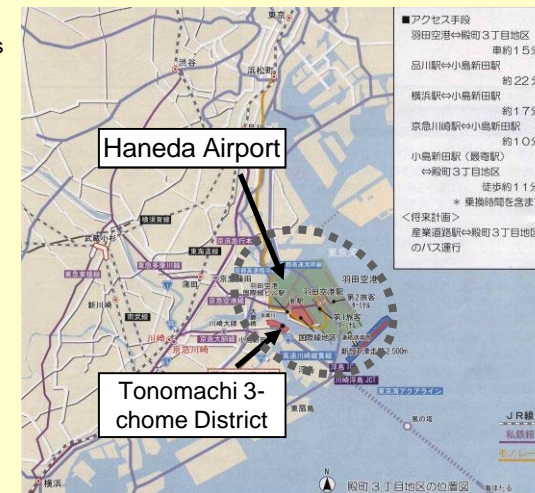
<Function 5> Environmental education and training in collaboration with diverse actors

- Development of physio-chemical environmental education and training programs
- Collaboration with diverse environmental activities

III. Establishment of the Kawasaki Environment Research Institute in Kawasaki's Tonomachi 3-chome District

<Features of the Tonomachi 3-chome District>

- Kawasaki's Tonomachi 3-chome District is located on the opposite shore from Haneda Airport, which is being expanded and will provide wider international service beginning in October 2010.
- The Tonomachi 3-chome District is an area of approximately 40ha which aims at hosting a concentration of universities, research institutes, and companies with advanced, cutting-edge technologies in the fields of the environment and life sciences, as well as airport-related industries and others.
- In April 2010, Kawasaki City acquired a 1.3ha site and is now promoting the establishment of the research and development facilities which will become the core of this district.



<Establishment of "Collaborative Research Center (Provisional Name)">

- The Collaborative Research Center will be established as a core institution for the creation of R&D bases in the Tonomachi 3-chome District through collaboration among industry, universities, the public sector, and citizens. This will be a composite facility including a Health and Safety Center (provisional name), the research and development sections of companies and universities, etc., in addition to the Kawasaki Environment Research Institute.

<Establishment of the Kawasaki Environment Research Institute>

- The Kawasaki Environment Research Institute will be established in the above-mentioned Collaborative Research Center, which will be located in the Tonomachi 3-chome District.
- The Kawasaki Environment Research Institute will promote initiatives which create synergistic effects and ripple effects in the Kawasaki Coastal Area, such as concentration of environment-related industries and research institutions, promotion of joint research in the environmental field by exchanges of researchers, etc.
- The Kawasaki Environment Research Institute expects to begin operations in FY2012.