

An aerial photograph of a coastal city and industrial area. The city is densely packed with buildings, and the industrial area features large structures and a pier extending into the water. The sky is clear and blue.

Incorporated Non-Profit Organization

Activities of the Liaison Center for Creation of Industry & Environment

Aiming to vitalize the industry and create environment & energy in the coastal areas through industry-academia-public-private partnerships

Hiroshi Takita, Executive Director

Non-Profit Organization

Liaison Center for Creation of Industry & Environment

Purpose of the Establishment

To serve as a platform for collaboration between industry, academia and public sectors and the citizens to promote activities that contribute to promote industry and solve environmental/energy-related problems toward the realization of a sustainable society living in harmony between economic growth and the environment

Established: August 2, 2004

★Established by the participation of 13 companies including those operating in Kawasaki Coastal Area to build a platform for industry-government-citizen partnership

Main activities

Good cycle between industry and environment

■ Development of a Smart Industrial Complex in Kawasaki Coastal Area through collaboration with Kawasaki City

1. Further advancement of Kawasaki Eco-Town
 - Promote recycling of resources by incorporating recycling activities into existing manufacturing businesses
2. Efforts to fight global warming
 - Facilitate effective energy utilization through collaboration among companies
 - Advance the use of renewable energy through mega solar plants, etc.

■ Reinforcement of the role as an energy supply base and making proposals to the national government

- Total output of power plants located in Kawasaki Coastal Area: 5.5 million kW (Thermal, biomass, large-scale solar, wind, and other power plants)

■ Activities to promote exchange between businesses and citizens or with other coastal industrial complexes

- Visualizing environmental efforts made by businesses operating in Kawasaki Coastal Area
- Visiting lectures on the environment for elementary schools
- Plant tours and exchange events for Kawasaki citizens
- Symposium on Collaboration among Cities with Coastal Industrial Complex, etc.

■ Improving the local environment of coastal areas

- Mitigating traffic congestion, cleaning up and foresting initiatives
- Disaster prevention and safety enhancement

Board members (as of Jan. 2013)

Chair: Yoshihiro Adachi (Prof. at Tokyo University of Technology)
Executive director (1), board members (8), auditor (1)

Member organizations (19 organizations as of Jan. 2013)

Asahi Kasei Chemicals Corporation	DC Co., Ltd.
Ajinomoto Co., Inc.	Toa Corporation
JFE Urban Recycle Corporation	Toa Oil Co., Ltd.
JFE Engineering Corporation	Tokyo Gas Co., Ltd.
JFE Kankyo Corporation	Tokyo Electric Power Co.
JFE Steel Corporation	Tonen General Sekiyu K.K.
JFE Techno-Research Corporation	Nisshin Seifun Group Inc.
JFE Plastic Resource Corporation	Hamagin Research Institute, Ltd
JX Nippon Oil & Energy Corporation	Fuji Electric Co., Ltd.
Showa Denko K.K.	

Characteristics and main industries of Kawasaki Coastal Area

- ☆ One of the major industrial zones of Japan (100 years' history in *monozukuri*)
- ☆ Promoting '*monozukuri* in harmony with the environment' under the Kawasaki Eco-Town Initiative

■ **Chemicals**

■ **Oil refinery /
petrochemical**

■ **Cement**

■ **Machinery**

■ **Steel**

■ **Electronics**

■ **Power / Gas**

■ **Food**

■ **Recycle etc.**

Kawasaki Coastal Area (air photo)



Emergence of pollution problems and efforts to overcome

- **Rapid economic growth and development ⇒ Pollution ⇒ Overcoming environmental problems**
- **Kawasaki City Ordinance for Pollution Prevention based on a unique system (1972); Japan's first municipal ordinance on Environmental Assessment (1976)**
- **Development of environmental and energy-saving technologies proceeds**



Coastal Area during the high-growth period
(around 1970)



Coastal Area of today

Industry-academia-public-private network mediated by the Liaison Center

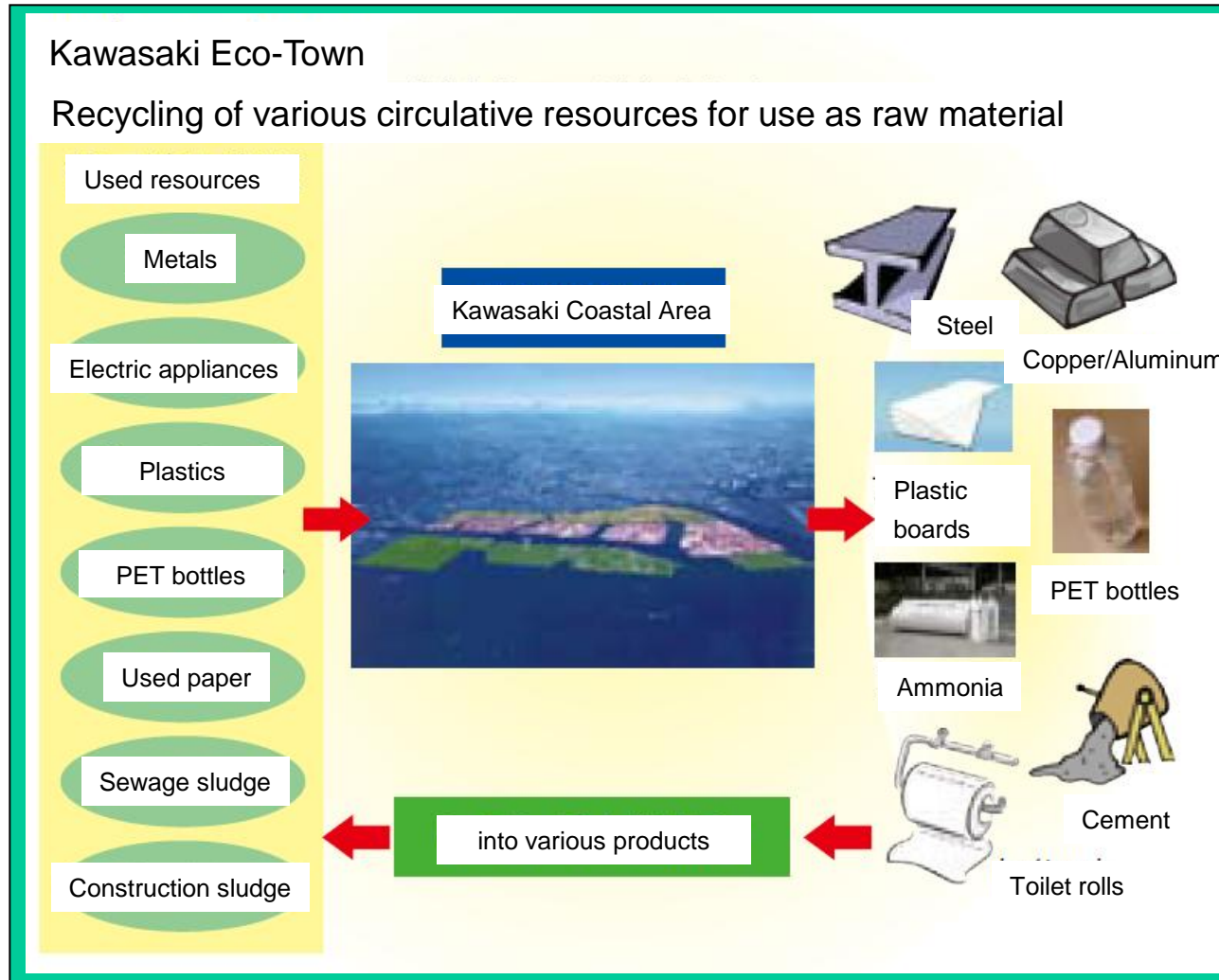


- Liaison Promotion Council for Revitalization of Kawasaki Coastal Area, policy round table meetings and regular information exchange meetings with Kawasaki City
- Business-government meetings on road development in Kawasaki Coastal Area
- Liaison Conference for collaboration with the environmental industry toward a recycling society
- Kawasaki Conference for the Promotion of Measures against Global Warming (CC Kawasaki), Kawasaki Compact, Kawasaki Coastal Area Disaster Prevention Council
- Conference on Advancing Industrial Complexes of the Keihin Coastal Area
- Plant visit tours for parents and children, visiting lectures for elementary schools, Environment-Industry Interaction Lounge
- Symposium on Collaboration among Cities with Coastal Industrial Complex, Symposium on Revitalization of the Keihin Coastal Area, etc.

Development of a smart industrial complex in partnership with Kawasaki City (Case 1)

Further advancement of Kawasaki Eco-Town

■ Promote recycling of resources by incorporating recycling activities into existing manufacturing businesses



Development of a smart industrial complex in partnership with Kawasaki City (Case 2)

Efforts to fight global warming

- Effective energy utilization through collaboration among companies
- Utilization of renewable energy

Kawasaki Steam Net

Supply of steam from TEPCO thermal power plant to 10 other factories in the vicinity



Steam supply: 300 thousand tons/year
CO2 reduction: approx. 25000 tons/year



Reinforcement of the role as an energy supply base and making proposals to the national government

- Research for informing regional energy policy
- Energy-saving seminars through government-citizen collaboration

Power plants located in Kawasaki Coastal Area: 5.5 million kW

Major power plants	Output (10 thousand kW)	
Thermal	Kawasaki Thermal Power Station	150
	Higashi Ohgishima Thermal Power Station	200
	Kawasaki Natural Gas Power Plant	84.7
	Showa Denko Thermal Power Plant	12.4
	GENEX Mizue Power Plant	27.4
	Kawasaki Clean Power Station	3
Biomass, solar, wind, etc.	Kawasaki Biomass Power Plant	3.3
	Ohgishima Wind Power Plant	0.2
	Ohgishima Solar Power Plant	1.3
	Ukishima Solar Power Plant	0.7
	Waste Power Generation facility, Ukishima Waste Treatment Center	1.2

One of the largest mega-solar plants in Japan



Ukishima Solar Power Plant



Ohgishima Solar Power Plant

Activities to promote exchange between businesses and citizens or with other coastal industrial complexes

- Visiting lectures on the environment for elementary schools
Plant tours and exchange events for Kawasaki citizens
- Symposium on Collaboration among Cities with Coastal Industrial Complex, etc.



Visiting lecture (Kawasaki Municipal Tajima Elementary School)



Symposium on Collaboration among Cities with Coastal Industrial Complex 2012

Study Visits from Overseas to Kawasaki Coastal Area

Recycling activities of Kawasaki are attracting attention from the world



Chinese President Hu Jintao visits Kawasaki Eco-Town, May 2008



Li Changchun, committee member of Chinese Communist Party visits Kawasaki Eco-Town, April 2009



Number of foreign visitors (FY2009)

Region	Country	City	Number of visits	Number of visitors
Asia	China	Shenyang, Pudong New Area Shanghai, Yancheng, Hong Kong, etc.	28	582
	Korea	Pusan, Taegu, etc.	9	154
	Vietnam	Ho Chi Minh City	5	27
	Others (Thailand, etc.)		9	153
Africa	Egypt, Ghana, etc.		5	97
Europe/ North America	EU, U.S., etc.		8	80
Others	Peru (Latin America) , etc.		4	50
Total			68	1143

The Roles of NPO Liaison Center for Creation of Industry & Environment

Aiming to build a resource/energy-recycling industrial complex

