



Environmental Technology Expert Group Meetings

Kyushu's Environmental Innovation

~ K-RIP's Environmental Business Creation

Assistance: Projects and Impact ~



Kyushu Recycle and Environmental Industry Plaza
(K - R I P)

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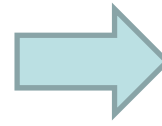
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October 2009



1 . K-RIP Overview (①K-RIP History ~ Kyushu's Environmental Potential)



North

- ◆Great need for waste management improvement given population growth
- ◆Raw material industry focal point
 - ☆Raw steel production : 16.79 mn t/yr
- ~ 14 % of all of Japan
- ☆Cement shipment : 17 mn t/yr
- ~ 25 % of all of Japan
- ◆Concentration of universities and environmental technology R&D capacity



Kitakyushu Ecotown

Plastic bottle recycling facilities, home electronics recycling facilities, office appliance recycling facilities, automobile recycling facilities, fluorescent tube recycling facilities, recycled wood and plastic construction materials manufacturing facilities

Omuta Ecotown

R D F (Refuse-derived fuel) power plants
Amusement equipment recycling
Carbon fiber recycling experimentation

West

- ◆Water purification and wind power tech developed through shipbuilding know-how and geographic advantages



Bottle re-use/recycling facility
Plastic waste / composite reused resin recycling facility



Successive establishing of solar panel manufacturers

South

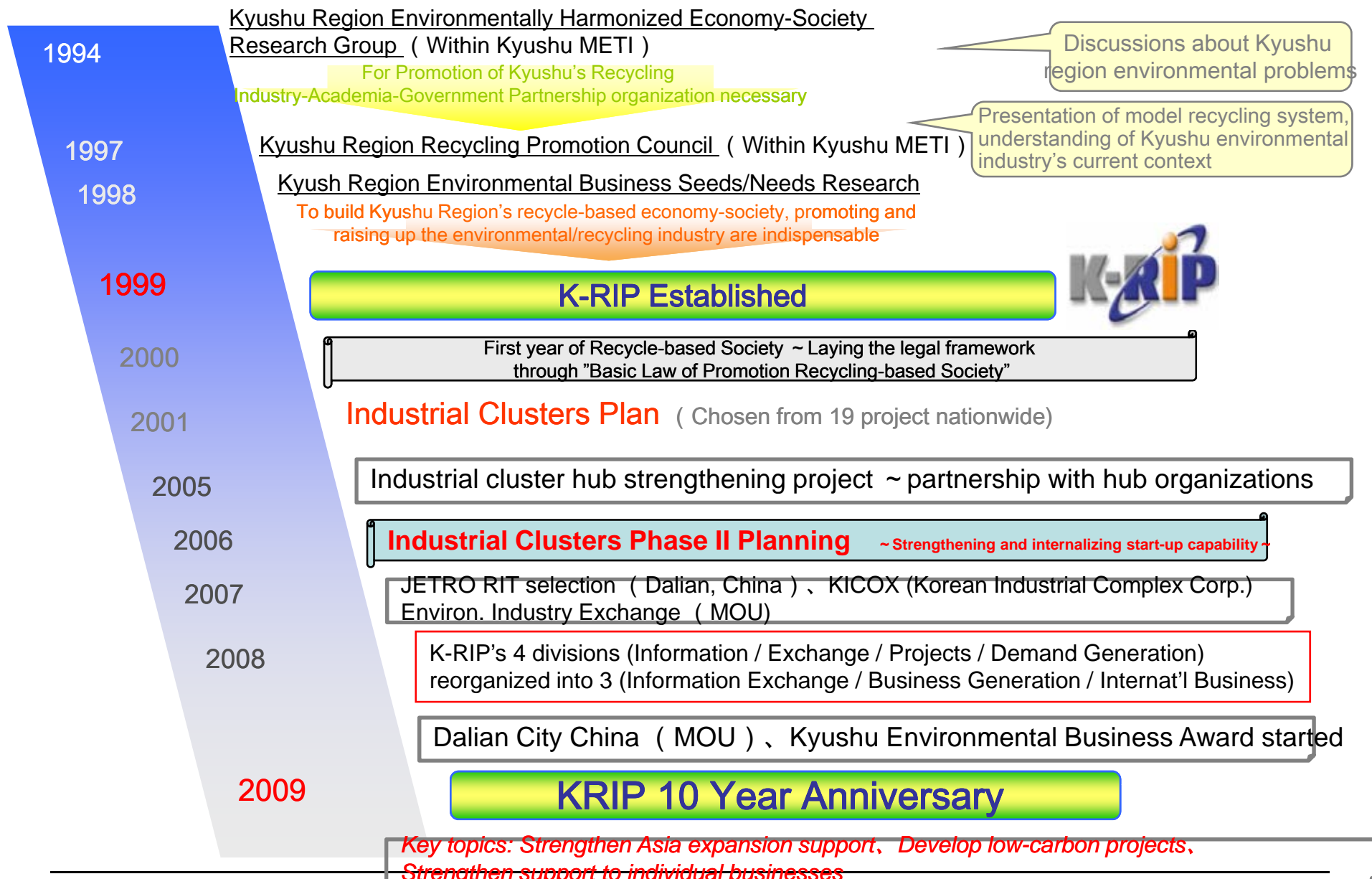
- ◆Livestock waste matter : 2.2 mn t / yr
- 25% of Japan** From South 70%
- ◆Distillery residue : 600,000 t/yr
- 90% of Japan** From South 80%



Miyazaki Prefecture: Power derived from chicken droppings



1 . K-RIP Overview (②K-RIP's Founding)



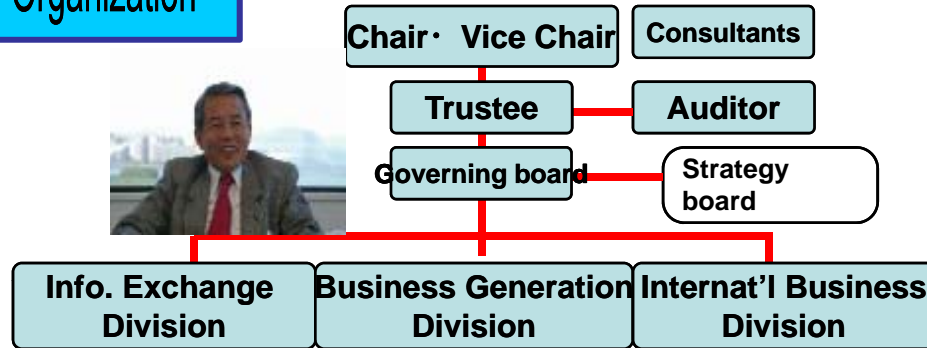


1 . K-RIP Overview (③K-RIP Organization, Budget, Business)

Founding mission

Kyushu Region's Industry-Academia-Government lateral organization engaged in Environment/ Recycling
 ① Through promoting and building up environmental businesses, make the Region into a model for a "recycling-based society"
 ② Through creating a new "Environment-Recycling Industry", aim to revitalize the Kyushu Region

Organization



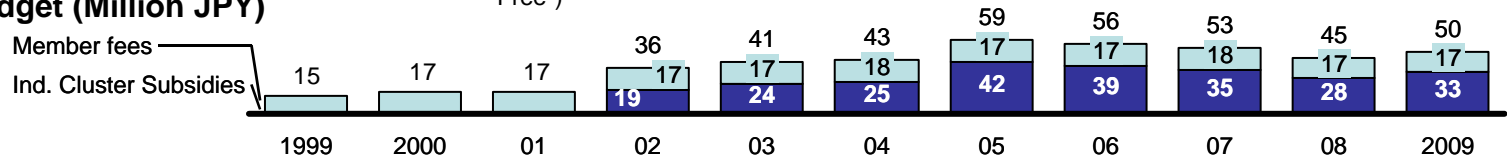
Office : 4 staff **Cluster Managers** : 2 staff

K-RIP Members: 463 (Sept 2009)
 Corporate (258) NPO (11) Academia (74)
 Individuals (74) Special (43)
Budget (Million JPY)

K-RIP Board Members

KRIP Position	Organization
Chair	Aso Corp.
Vice Chairs	Asahi Kasei
	Kankyo Technos
	Kyushu Electric Power
	Saibu Gas
	Nippon Steel
	YBM
Trustees	(28 individuals from industry/academia/gov't)
Auditors	Nishinippon City Bank
	Kyushu Economic Federation
Consultants	Fukuoka Prefecture Recycling Integrated Research Center
	Kyushu METI

(※Member fees : Corp: 50,000、NPO JPY 10,000、Acad/Ind. JPY 5,000、Special: Free)



Business

Business content

<p>1 . Talent building support</p> <ul style="list-style-type: none"> Seminars Kyushu Environ. Cluster Universities (Developing young talent) 	<p>2 . Info. provision</p> <ul style="list-style-type: none"> Market trends (Japan/global)· Event info (local/national). Share member org. info. through Internet and other media 	<p>3 . Matching support</p> <ul style="list-style-type: none"> Industry-Academia-Gov't Tech. Exchange Group (e.g. University "seeds" and business "needs")· Inter-business partnership group (cross-industry, large - SME) 	<p>4 . Start-up support</p> <ul style="list-style-type: none"> Support through K-RIP projects Support for obtaining tech. development and start-up competitive funding 	<p>5 . Channel expansion</p> <ul style="list-style-type: none"> Exhibition support Consulting from design/ marketing experts Business partner 	<p>6 . International expansion</p> <ul style="list-style-type: none"> Sales pitch support Exchange promotion with Overseas (Asia) Environmental Clusters Advice from overseas business experts
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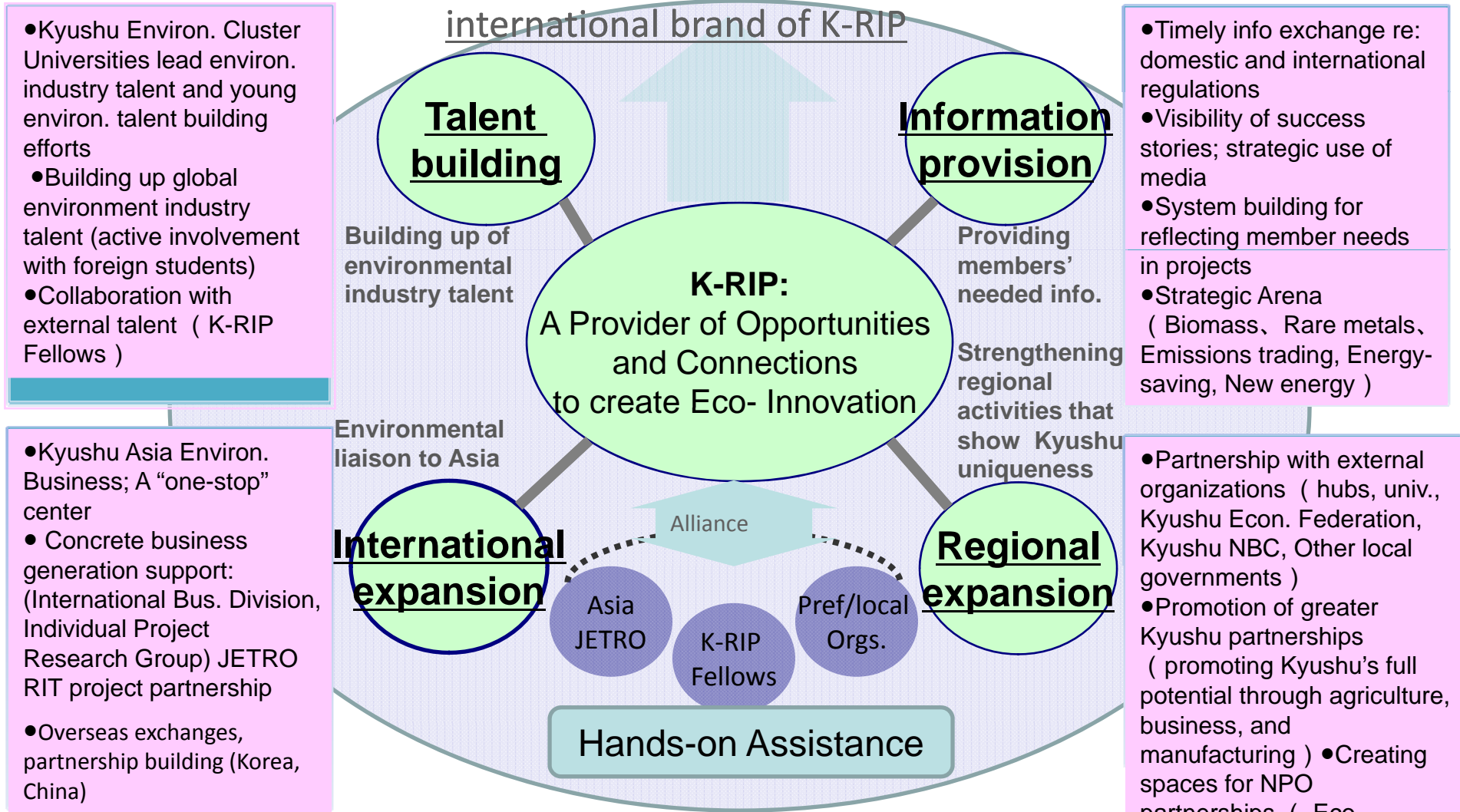




1 . K-RIP Overview (④ K-RIP's Vision)

「From Kyushu, the Environment Industry's New Wind」。
 K-RIP aims for creating a new industry and building up the

international brand of K-RIP





2 . Information Exchange - Talent Building Support – Kyushu Environ. Universities

◆Aiming to raise up Kyushu's environmental business leaders of 5-10 years later . we have started a residential training project. Besides a diverse lecture base, we are holding visits to advanced project sites and group business planning exercises. Outside of knowledge and info. Collection, we are also forming a broad human network that includes university professors.

Time : Sept 1-4, 2009
Place : Nagasaki Prefecture

From Kyushu/ Japan: 22 from industry (Business managers, junior staff, NPO staff); Students: 10; Total: 32 (9 women). Concluded amid lively discussions!

Voices from participants (from surveys)

- Next year, please also invite younger staff participation
- By living these few days with various business leaders, thinking through a business plan went far beyond my expectations in regards to learning, inspiration, and networking.
- It was great to network with various environmental businesspeople from across Kyushu. In my own business going forward, I will keep in mind what I learned from the company visits.
- Engaging in exchanges with so many players in the environmental arena was stimulating, and I gained invaluable experience certainly unavailable in a university setting.



< Conference >



< CO2 Emissions Reduction Business Group >



< K-RIP Chair Mr.Yutaka Aso >



<Mr. Kiyoshi Kurokawa, Former Cabinet Special Advisor >



2 . Information Exchange Session ~ Environmental Business Partners Networking ~

① 「Environmental Business Promotion Forum」 (24 Feb 2009; Miyako Hotel, Fukuoka) ② 「Environ. Business Exchange Group」 (10 March 2009, Miyako Hotel, Fukuoka)

◆By partnering with [Kyushu Green Procurement Network](#) and [Fukuoka Prefecture Association for Industrial Waste](#), promotion of procurement of environmentally-sensitive products and services (110 participants)

◆Together with Kyushu Economic Federation, matched large enterprise with K-RIP SME members (120 participants)



2 . Information Exchange Session ~ Kyushu Environ. Cluster Joint Presentation Session ~

Together with the Next Generation Energy Park opening event, [Kitakyushu, Nagasaki, Minamata, Miyazaki, Amami \(Kyushu Clusters and Knowledge Clusters\)](#) presented their work, and we implemented a broad partnership with the [Kinki Environmental Cluster](#) (80 participants)





2 . Business Creation ~ K-RIP Projects ~

◆ We seek business projects that need up to JPY 1 million . We choose 5-6 projects annually. Besides financial support, we provide 1 year of “hands-on” support through giving expert advice.



2009 Selected Projects

Selected Companies	Proposal Topic
Saimu Inc.	New Plastic New Detection System Overseas Expansion
Nittetsu Environmental Engineering Inc	Development of new high-performing pollution purification material
Natural Step Ltd.	Production of high margin strawberries that can also greatly cut CO2 levels
Eco Factory Inc.	Radiating Air-Conditioning Unit 「Hybrid Thermal System “E c o w i n”」
Nagasaki Institute of Applied Sciences	Organic Waste High-Temp. Rapidly Soluble Methane Fermentation Facility

(Reference) Support for Winning Competitive Funds

◆ 「Regional Innovation R&D Project 」 「Start-Up Grants」 「New Partnership Projects 」 Helping businesses win these competitive funds from the Japanese government, we give advice on applications and presentation.

Utilization of the Regional Innovation R&D Project (and others)

	Comp-anies	Environ-mental	K - R I P members (share)	
2001	4 3	1 1	5	【 4 5 . 5 %】
02	4 2	1 1	1 0	【 9 0 . 9 %】
03	3 3	9	2	【 2 2 . 2 %】
04	3 5	5	3	【 6 0 . 0 %】
05	2 5	5	4	【 8 0 . 0 %】
06	4 0	5	4	【 8 0 . 0 %】
07	2 3	3	2	【 6 6 . 6 %】
2008	4 7	1 2	8	【 6 6 . 6 %】
Total	2 8 8	6 1	3 8	【 6 2 . 0 %】

~ The Share of Selected Companies Represented by K-RIP Member Companies ~

34 K-RIP members are among the recipients of the METI-sponsored Practical Technology Development Grants, and in the Kyushu Environmental Arena, K-RIP's share is an impressive 62%



2 . Business Creation ~ Kyushu Environ. Business Award (Incentive System) ~

1 . Goal

For outstanding products and services that address environmental problems, K-RIP, which aims at an eco-based society, will recognize these efforts and aim to increase social awareness and open new expansion channels.

2 . Program Content

< Award types >

『Kyushu Environmental Business Award 』 (1 product/service) 、

『Kyushu Environmental Business Honorees 』 (2-3 products/services)

<Target applicants>

Regardless of the scale of the business/project, or whether the company is a K-RIP member, the program targets products and services provided by businesses, NPOs, and other organizations or individuals with main operations in one of the 7 provinces of Kyushu.

2008

(1) Kyushu Environ Business Award : None suitable

(2) Kyushu Environ Business Honorees: 3

①: Power derived from chicken dropping incineration

【Miyazaki Biomass Recycling 』

②Eco M Wood 『Reused wood-plastic composite material 』 【Eco Wood 』

③Mobile pattern removal facility – onsite pattern removal project 【KM Technology 』

(3) Kyushu Environ Business Honorable Mention Award : 2

①Umbrella drying system 【Hinode 』

②Natural soap 【Maruha Oils and Chemicals 』

2009

(1) Kyushu Environ Business Award : None suitable

(2) Kyushu Environ Business Honorees: 1

①Coal Alkali 70 【Shitama Coal 』

(3) Kyushu Environ Business Honorable Mention : 2

①Water Purification Tool 「Mini Water Beetle」 【Masaki Envec 』

②High amino acid foods from incineration residue

「Amino dark vinegar」 「Sudama」 【Ohyama Foods 』


③Hybrid Eco House 【Ecoworks 』



3 . International Business ~ K-RIP Asia Expansion Experience ~

【H 1 3 FY ~】Formation of a Kyushu-Asia Exchange Platform through Kyushu METI

Kyushu-Korea Econ. Exchg




(From 1993, 15 yrs running)

Yellow Sea Tech/Econ Exchg



(From 2001, for 8 years running)

Kyushu-China Industrial Tech Conference



(From 1991, for 13 yrs running)



2 0 0 6 Yellow Sea Region Econ./Tech. Exchange Conference (Japan-China-Korea Trilateral Conference)

2006- K-RIP's strengthening of international business expansion

『K-RIP Kyushu-Asia Environmental Business Research Group』

Main objective	1 . Contributions to Asia through Kyushu 『Disaster Prevention Tech.』	2 . Kyushu Environmental Business – Asia Expansion
	Strategy	
	1 . Environmental Preparation for Business Generation <ul style="list-style-type: none"> • Asia government collaboration through Kyushu METI • Business exchange MOUs with Asia's environmental orgs 	2 . Individual Business Support <ul style="list-style-type: none"> • Asia demand analysis and focal point identification • Hands-on individual business support

2007-2009 K-RIP's concretizing of international business expansion

MOUs	◆ <i>MOU (2007 ; Korea, 2008 ; Dalian, China)</i>
Info sharing w/ Asia	◆ Chinese/Korean Kyushu Industry Introduction D V D
Studies and groundwork	◆ Chinese Environmental business needs / Kyushu business “seeds” study ◆ Asia Environmental Business Symposium
Concrete exchange	◆ <i>JETRO RIT Project (2007-2009 ; Mission teams to Dalian, China)</i>
Indiv. bus. support	◆ <i>Financial support for overseas expansion through KRIP's unique brand</i>



March 2008 : Discussion with Dalian Businesses (R I T Project)



3 . International Business ~ Industrial Exchanges with Dalian City, Liaoning Province, China ~

1 . Kankyo Technos

Dalian Office (Japan Environ. Technology Consulting) Founded 2008.8.20



3 Employees
Business content:
1. Inspections under RoHS
2. Design/construction of environmental facilities
3. Environ. assessment
4. Chemical analysis/ measurement
5. Environ. tech. services

- Planned joint development of low cost desulfurizer for coal boiler with Dalian Univ. of Technology

4 . Masaki Envec

- Signed agreement with Dalian City for warehouse storage of lightweight soil for rooftop greening aimed at Japanese customers.
- Seeking business partners for materials processing.



2 . Kiyomoto Metalworks

- Head of Jinzhou District, Dalian City, visited Asahi-Kasei and Kiyomoto and decided to install its water purification technology. Currently implementing Wastewater Reuse Project Phase I, Dalian Jinzhou Econ. Development Zone New Industrial Park

5 . Yasukawa Electronics

- Implementing in Dalian City energy-saving projects for factory infrastructure inverters
- Case example:
China Dalian City Energy-Saving Education Center / Dalian Sanyo High-Power Refrigeration System Ltd. (Sanyo Electronics)
/ TOTO Dalian / Dalian Hengli Industry Ltd. (Chinese company)

3 . J & C Eco Solutions

- Rineng Technology (Dalian) Ltd., established in Dalian (2008.20.8.10)

Serving K - R I P members and others, J&C started local environmental consulting work (e.g. F/S Investigation support)

6 . Dalian Japan Min. of Environment Energy Technology Park

Chair Mr. Fumihira Takaki 2 0 0 9 . 4
Address : Dalian City, Xigang District, Zhongshan Rd, No. 147, Senmao Bldg. 12F



(Appendix) Unique K-RIP Member Companies ①

Tagawa Sangyo 【Fukuoka Pref. Tagawa City】 「World's first new material, non-fired plaster ceramics」

- K-RIP project
- Various grants, R&D support

2nd Manufacturing Award,
Prime Minister's Award



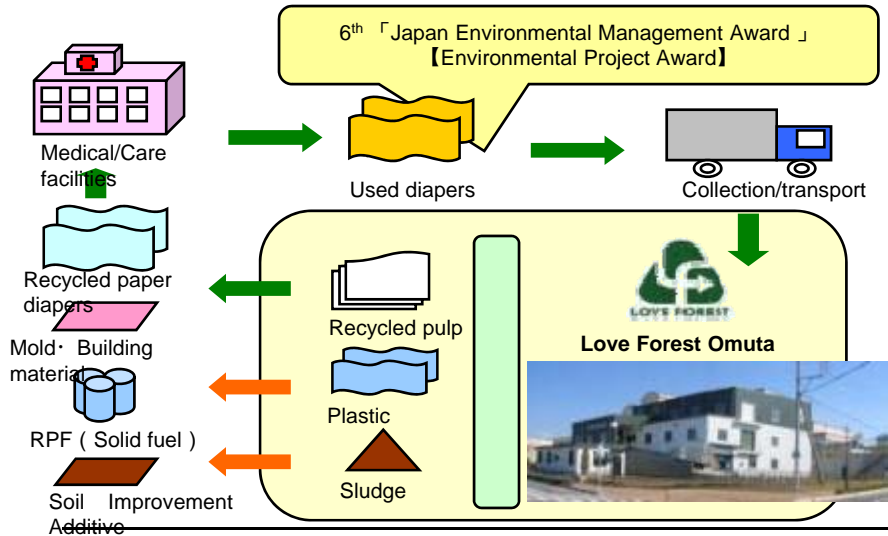
Fujishima 【Oita City】 「Street lights using solar power using sphere optics」

2008 National Cross-Industry Exchange and
Partnership Fair
SME Bureau Director Award (Outstanding
Product Award)

- R&D support through Start-up Grant
- Business Partner Matching through Eco Academy



Total Care System 【Omuta City】 「Paper diaper recycling」



Kumamoto Cleaning (Expansion to Nagoya at City's request) 「Food recycling facility」 Capacity 104 t processed/day Recycled Organic Fertilizer from Leftover Food "Green Supplement"



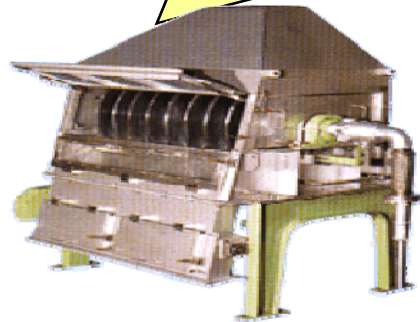
2008 Phase 2 Construction



(Appendix) Unique K-RIP Member Companies ②

Nishimura Metalworks 【Saga Pref., Ogi City】
 「Industrial water processor CD dryer」

Chair Mr. Nishimura, Conferred in Spring 08:
 Order of the Rising Sun, given for contributions to
 environmental industry
 【Recommended by Economic Affairs Bureau】



Originally developed as a dryer for
 alcohol distillation residue, then
 converted into a dryer for waste
 water processing
 Sales grew to reach 70% of total
 sales

Masaki Envec 【Nagasaki City】
 「Water purification, rooftop greening」 → China

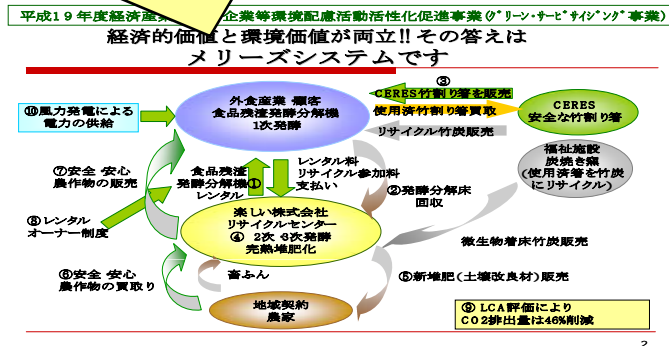
Japan Venture Awards 2008 Entrepreneurs Division
 「SME Bureau Director Award」



Merry Corp. 【Kitakyushu City】
 「Regional Cycle for Food waste ~ Merry's System」

5th 「Japan Environmental Management Award」 Environmental
 Partnership Award, provided 400,000 chopsticks to staff of
 Toyoko Summit

Assistance
 through various
 grants



YBM 【Saga Pref., Karatsu City】
 「Soil Improvement Manuf. Top in Japan in」 → Vietnam

Top 300 Vibrant SME Manufacturers





<http://www.k-rip.gr.jp/>

INQUIRIES

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