

Lead Environmental Business in the Future
K-RIPRODUCT CATALOGUE 2012

Collection of Environmental · Energy product and service in Kyusyu area Selected by K-RIP

English ver.



Kyusyu Recycle and Environmental Industry Plaza
<http://www.k-rip.gr.jp>

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Introduction

Kyusyu Recycle and Environmental Industry Plaza (K-RIP) is a network organization consisted by companies concerning the environment, research organizations such as universities, administrations, and financial institutions.

There are lots of companies contributing to local communities by their unique, innovative technologies and services among K-RIP members. We have made this introduction booklet to introduce their excellent products and services to more people.

Excellent technologies and services for environmental and energy field not only solves the environmental problem directly, but also strengthen competitiveness of product in various industries by applying it.

We hope the excellent products and services on this booklet would be a helper to solve local environmental problems and strengthen the international competitiveness.

We also have “Japanese version” and “Chinese version” of booklets in addition to this “English version” . Please use them as well.

Lead Environmental Business in the Future

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<important notice>

We introduce ecological products and services in Kyusyu area considered as a solution of environmental, energy problems. We do not sell or transfer these products and services. In addition, the contents listing on this booklet have been made based on the materials from companies which applied for, and K-RIP (Kyusyu Recycle and Environmental Industry Plaza) does not ensure the achievements and effect of the contents.

Index

About K-RIP

- 04 — K-RIP's three sections
- 05 — Business to promote K-RIPRODUCT

Kyusyu Environmental Business Award winner's interview

- 06 — ECOWIN (Eco Factory Co., Ltd.)

Development of companies concerning the environment

- 10 — C01 IBUKI Co., Ltd.
- 11 — C02 ECO WOOD Co., Ltd.
- 12 — C03 Eco Factory Co., Ltd.
- 13 — C04 Eco-Works Co., Ltd.
- 14 — C05 NPO Environmental Core
- 15 — C06 Environmental Technos Co., Ltd.
- 16 — C07 Kenki Co., Ltd.
- 17 — C08 Shitama Sekkai, Inc.
- 18 — C09 SUMIDA Co., Ltd.
- 19 — C10 SEIHO KIKO Co., Ltd.
- 20 — C11 Daiya Kucho Co., Ltd.
- 21 — C12 Change-Value Co., Ltd.
- 22 — C13 Nippon Steel Kankyo Engineering Co., Ltd.
- 23 — C14 Nippon Kanryu Industry Co., Ltd.
- 24 — C15 JAPAN LIMONITE Co., Ltd.
- 25 — C16 Fukuoka Institute of Bio industry and Development Co., Ltd
- 26 — C17 MIYABO Co., Ltd.
- 27 — C18 Ryoko-Industry Co., Ltd.
- 28 — C19 YBM Co., Ltd.

Development of ecological products & services

Energy field

- 30 — P01 Mist shade unit
- P02 Diamond Like Carbon(DLC) Coating
- P03 SANIX recycling power generation system
- 31 — P04 LED Street lighting/road lighting/stage lighting
- P05 LED style energy conservation Anti-afternoon sun signal
- P06 LED light source for road signs; Flat ring
- 32 — P07 Eco Coat*- S
- P08 Magnetic steel sheet
- P09 NS ECO-PILE®
- 33 — P10 Stationary Storage System "Ene Pack α"
- P11 Lvi Lighting System "LED/LVI/Hybrid"
- P12 Indoor Agri Plant System
- 34 — P13 High Panex Ion (Ion Adsorption Total enthalpy heat exchanger)
- P14 Dry Save (desiccant dehumidifier)
- P15 Sky Save
- 35 — P16 Solar power generation system
- P17 Wind Power Generation
- P18 Biomass Power Generation
- 36 — P19 Yasukawa inverter & High efficiency motor
- P20 Power conditioner for solar power Generators Enewell-SOL
- P21 Rapid charger for electric vehicle Enewell-CEV

Environmental cleanup/conservation field

- 37 — P22 Aspirator Water-through Ozonizer
- P23 Submarine cleaner (SMC) method
- P24 Water provider box
- 38 — P25 Aqua Fine
- P26 Oil recovery unit "Erimina"
- P27 Resin sludge collector
- 39 — P28 Satsuma-Nakagirishima-Kabe
- P29 Super Shirasu Soton house wall W
- P30 Plaster ceramic "Limix"
- 40 — P31 TOYO underwater disturbance sand pump
- P32 Solar SG system
- P33 Technological development for a-tree planting and environmental loading reduction
- 41 — P34 "TROLL®" UASB type anaerobiosis waste water treatment equipment
- P35 "NS-process" Recovery of valuable resources
- P36 High capacity Micro-Nano-Bubble generator pump
- 42 — P37 Hauling industrial waste, Recycling disposal
- P38 Specialty enzyme business (Study of genesis of bio-based fuel)
- P39 Reducing System for Sewage Sludge

Development of ecological products & services

Resource circulation field

- 43 — P40 Recycle system of etching liquid wastes (iron chloride)
- P41 Concrete and asphalt recycling plant
- P42 Approved Recycling Products (Recycle granularly controlled of crushed-stone, Recycling Crusher-run)
- 44 — P43 Amahada Skin Care Series
- P44 Chipper Shredder Green Shark GS400D
- P45 Fertilizer Sprayer "Rakurakumaku-chan MK03"
- 45 — P46 Calvo Board
- P47 Enviromental Food Product Recycle Plant "Bio Plaza"
- P48 Organic Fertilizer "Green Supple"
- 46 — P49 Use of compost fermentation heat with unused biomass (Unused waste)
- P50 Micro Eraser
- P51 Using "chloride volatile method" to recycle waste
- 47 — P52 1-shaft crusher (SC series), and 2-shaft crusher (SET series)
- P53 Two-axle grinding pulverizer "RUB Machine"
- P54 Living sensors "Killifish Eco-monitors" BS2010
- 48 — P55 Plastic-raman recognition machine
- P56 Personal computer · OA device recycle
- P57 Utilization System for Rainwater; "Mizugame"
- 49 — P58 Cardboard composter
- P59 Kids KuruKuru Village
- P60 Small Circulation Farm
- 50 — P61 Rainwater Utilization System "Ametto-kun"
- P62 Air-In Shower
- P63 Neorest AH/RH
- 51 — P64 Remake Raw Material from Plastic Included in Household Electrical Appliances
- P65 Steel board rolling oil, solution recycling device "HIGAMS"
- P66 Jet type glidants formula water purification device "Jet Streamer"
- 52 — P67 Eco-slag Concrete
- P68 Swiveling biomass combustion furnace
- P69 Disassembly line of ELV (End of Life Vehicles)

Related service field

- 53 — P70 Promote International cooperation of technology for sustainable development
- P71 M-one FIELDMASTER
- P72 Unmanned transport system KE-SS200
- 54 — P73 Water quality analysis
- P74 RoHS analysis in the resin (Cadmium, Lead, Chromium)
- P75 Hazardous substances, valuable materials in the waste analysis
- 55 — P76 Consulting which is based on data of environmental factor
- P77 The research and countermeasure of the soil groundwater pollution
- P78 Promotion of regional industries and supporting networks

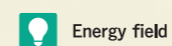
56 List of companies

Alphabet of each article shows the following.

C=COMPANY Companies concerning the environment (19 companies)

P=PRODUCT Ecological products & services (78 items)

This booklet introduces the products and services in environmental, energy field offered by companies in Kyusyu area with the following "4 fields".



Energy field



Environmental cleanup/conservation field



Resource circulation field



Related service field



KYUSHU RECYCLE AND ENVIRONMENTAL INDUSTRY PLAZA

Support the present and future environmental industry.

Since its foundation in November 1999, with the aim of establishing a recycling-based economy and society system model and stimulating the regional economy by developing and promoting the environmental and recycling industries in the Kyushu region, Kyushu Recycle and Environmental Industry Plaza (K-RIP) has been involved in various activities. Specifically, since K-RIP's project was selected as one of Japan's 19 projects of METI's Industry Cluster Program in fiscal 2001 (K-RIP received support for the project under the program until fiscal 2009), the organization has expanded its activities from network formation and development to support for companies in terms of business creation and market development both at home and abroad. So far, K-RIP has been successful in enhancing its activities and organizational structure every year since its foundation. As a horizontal collaborative organization comprising representatives from government, industry and academia aimed at building a sustainable economy and society, K-RIP will extend its activities to areas of energy conservation and new energy development, and strive further to promote the Kyushu region's technologies and services at home and abroad. I very much appreciate your continued understanding and cooperation for K-RIP's activities.

K-RIP's three sections

SECTION 1 Providing a platform for information gathering, network-building and interaction

Information & Interaction Section

The section provides a platform for K-RIP members to obtain cutting-edge information, develop/secure human resources, and build their networks of personal contacts when they start their environmental business. Through the support from this section, members can establish management strategies to prepare for new business opportunities.

Provision of information

The section provides information about governmental policies as well as highly specialized information essential to the environmental business by organizing events such as seminars and symposiums with experts. It also publishes members' successful business practices and activities through media such as K-RIP's official website, thus helping create new business opportunities.

Human resources development

Since fiscal 2000, the section has held a human resources development program titled "Environmental Business Workshop." This workshop, which includes lectures, group study and company visits, is held for business entrepreneurs and mid-career human resources in a training camp style.

Network-building

The section holds a variety of interactive sessions as shown below to help create business opportunities: the "Environmental Business Interactive Session," held to enable companies to interact and find potential business partners; the "Environmental Innovation Forum," held to provide an opportunity for primary industries to employ environmental technology; and a monthly held event, the "Eco Seminar."

SECTION 2 Considering each member's business theme fully and helping them start their environmental business

Business Creation Section

The section helps members receive financial and non-financial support and develop their market, thus enabling them to start their environmental business. The section ensures that members can take the most appropriate steps toward reaching their business goals.

Commercialization support

Under the K-RIP Project scheme, the section helps selected members start their business through financial support and professional advice. It also provides a wide variety of commercialization support for all members, helping them receive various subsidies for research and other purposes and assisting them with expert skills.



K-RIP Project screening session

Market development support

Using K-RIP's extensive network, the section provides various support services for K-RIP members as follows: activities to help develop a market for their newly developed products; a commendation program that can help enhance the credibility of companies and their developed products; and a comprehensive support program for selected low-profile environmental products or services.



Newly developed products exhibited by K-RIP members

SECTION 3 Striving to establish new frameworks, using expert skills and an extensive network

International Business Section

Against the backdrop of fast-growing environmental business markets in emerging nations such as China and the Republic of Korea, the section provides frameworks that allow Kyushu-based companies engaged in environmental business to expand their operations overseas.

International market development support

In line with K-RIP's basic policies: "Contribute toward solving Asia's environmental issues through Kyushu's pollution control technology and other environmental technologies" and "Promote Kyushu's environmental business in Asia," the section has developed a favorable environment for new

business opportunities, established frameworks for international environmental industry exchanges, and organized various other activities. Specifically, the section concluded environmental industry exchange agreements with organizations involved in environmental efforts such as Dalian Municipal People's Government (China), the People's Government of Shandong Province (China), and the

ECO Office of Korea Industrial Complex Corp. Moreover, the section helps members expand their business overseas by conducting market research, promoting international exchanges of environmental business missions, hosting business meetings, and offering a matching service for members wishing to find potential employees from abroad (international students, etc).



Kyushu-Dalian Environmental Industry Seminar

Business to promote K-RIPRODUCT

Market development support

In environmental and recycling industries, it is not uncommon that small and medium companies and venture companies produce unique new products and services to create new markets. However, small-sized enterprises might lose the opportunities to create new markets. Because there are not enough management resources comparing to large companies, they cannot positively invest in research such as F/S research. Based on this background, K-RIP has created an own supporting tool "K-RIP Project" for the purpose of supporting to create new business in the field of environment and recycling in 13rd year of Heisei, 2001. While carrying out this "K-RIP project" continuously, innovative new products have been getting to be born, and the marketing expansion of these new products has become important.

As the next step, it was established a supporting tool "Projects to find markets" for the purpose of expanding market to create new in 20th year of Heisei, 2008. We are supporting strongly for expanding market of products and services by sending for experts, an exhibition of environmental industry's trade fair, and business matching by the coordinators. During advancing these efforts, the products spreading in the market and contributing to solving environmental issues are expected to expand the market further and improve their brand benefits.

K-RIP is supporting strongly for finding markets for the companies by establishing the award system "Kyusyu Environmental Business Award" and performed on a large scale PR.



(At the foreside) Representative director Mr. Murakami of Eco Factory Co., Ltd. awarded the first prize. (At the right) The scene of award ceremony (at ECO-TECHNO2011)

Sales expansion supports

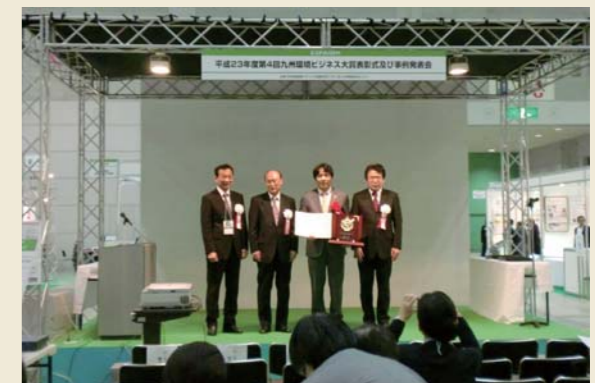
It was selected that the first prize for 1 company, Award of excellence for 3 companies, and Encouragement award for 2 companies at "The 4th Kyusyu Environmental Business Award" in 23rd year of Heisei, 2011. Awarded companies attended the award ceremony and made presentations at "ECO-TECHNO2011" (West Japan General Exhibition Center) at Kita-kyusyu city.

The first prize Kyusyu Environmental Business Award in 2011

- **ECO Factory CO., Ltd**
Radioactive heating and cooling system "ecowin"

Selected as a company for projects to find markets in 2011

- **Kenki Co., Ltd.**
High moisture content biomass, Alternative fuel of organic waste
- **SEIHO KIKO Co., Ltd.**
Pruned branches, bamboo, grass grinder: "Rub machine"
- **Change-Value Co., Ltd**
Business control software "Eco-active"



Admission for K-RIP membership

K-RIP coordinators who familiar with environmental business have proposed a business plan that meeting the needs of you. We will also correspond to the contents of businesses and the way to join K-RIP. Please do not hesitate to contact us.

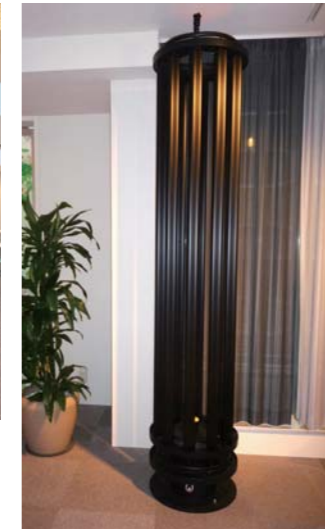
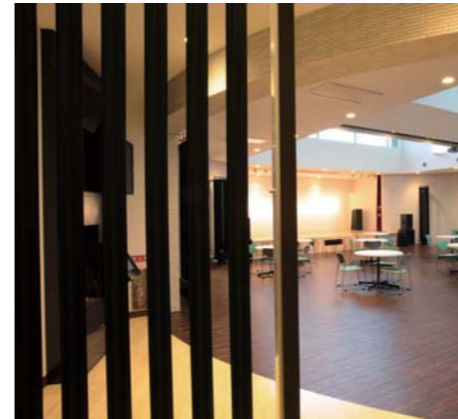
- Corporate member (company): 50,000 yen/ year
- NPO member: 10,000 yen/year
- Academy/ individual member: 5000 yen/year
- Special member (such as local government): free

Contact Us

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[Click here to get more information about our activities.](#)

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



(Foreside) An example of establishment of ECOWIN® to hybrid ECOWIN house (Lower left) An example of construction of a commercial building and hall (Lower right) An example of construction of ECOWIN tower

Next-generation air-conditioning equipment “ECOWIN®” It has created with enthusiasm of craftsmanship and spirit of eco-friendly.

Hybrid thermal system ECOWIN is an eco-friendly radiation air-conditioning (radiation formula) system developed by our own technology. It's heating and cooling the space by use of far infrared rays which radiate and endotherm by passing through cold and hot water to aluminum heat changer and Hybrid thermo element.

It is the next-generation air-conditioning system from technology know-how (trademark, design, patented) of deep feeling of manufacture and law of physicals.

ECO Factory CO., Ltd headquartered in Kumamoto city. They have been developing technology of housing construction which is environmentally friendly since this company is established in 1996. Their representative product is a radiating type air-conditioning system (hybrid thermo system) “ECOWIN” . It has been receiving a various award such as a minister prize, Minister of Land, Infrastructure, Transport and Tourism. In 2011, it received a grand prize of 4th Kyushu environmental industry award which was presented by K-RIP. We interviewed Mr. Takanobu Murakami who is the president of ECO Factory Co., Ltd which expands operations in overseas, about breakpoint and future of environmental engineering.



About Kyusyu Environmental Business Award

In K-RIP, we have established the Award system “Kyushu environment business Award” for products which are speared in the real market, and contribute to the solution of environmental issues, also we are strongly supporting to extent of their marketing. Please refers to page 04 and 05 for event of K-RIP.

The feature of ECOWIN

Thermal efficiency	Extreme infrared radiation to angle of 360 degrees (heating system)/ Action of endothermic (cooling system). Since the heat conducts to human body and objects directly, and affects to effective temperature, it is highly efficient.
How to use	Because of low heat capacity, it has quick rise time. Timer function is available.
Rise time	The temperature reaches to the preset temperature in about 15 minutes and you can feel the radioactive heating and cooling system. (※Standard system)
Heating and cooling system	a radioactive (Large) plus natural convection (Small) ※ratio 7 : 3
Comfortability	Comparing to forced-convection type, it cuts down 30% of energy efficiency.
Energy conservation	It specializes extreme infrared radiation, and affect to human body, floor, wall, ceiling directly and comfortably. It does not produce temperature difference with vertically and horizontally in the space.
Quietness	Since ECOWIN itself is activated with powerless, there is no sound, no wind, and no noise.
Safety	Since the heat part is a cylindrical shape, it has a low potential injury and safe, even when you hit it. Because it is a low-temperature radioactive system, it is safe and never burns.
Moisture	Comparing to convection type, it does not let the air dry and keeps moisture constantly.
Weight, earthquake-proof	About 70kg with Standard type, 1/2 weight of conventional product (made from iron), suppressed delivery cost, the seismic stress is small and low risk of falls.
How to delivery	It is possible to set up on the spot. We consider the uses of reform and renovation.
water volume	1/4 water volume compare with conventional system
Resource conservation and maintenance	It is composed of parts and possible to be disassembled and separated completely. In addition, it has high radiation, small part of heat generation due to heat exchange, resource conservation. It can be replaced each parts when repairing.
Product life cycle	Because ECOWIN is activated with powerless, the risk of failure is low. No need to worry about corrosion since it is made from aluminum. In addition, it uses an antifreeze added corrosion inhibitor as a heating medium, less worried about damaging the equipment and it has a longer Product life cycle.

Fulfill his ambitions with strong belief

Mr. Murakami had been worked at 1st Class Qualified architect office called "Limited liability company, LOCUS" as a president since 1996. He felt that we need to change attitude towards environment in this field and started to develop eco friendly housing construction. Then he met a thermal efficient heat pipe which is used for floor heating in 2000.

Mr. Murakami says; we had a strong belief that contribute to environmental protection through our construction business and had been searching what kind of technique the best for design and energy- saving is. We reviewed energy utilization and method of construction in order to create high efficient eco-friendly house over and over. As a result of it, we came to think that we need a new air conditioning system which is more efficient. Then we met heat pipe technique. We got idea that uses not only hot water for heating, but also cold water for cooling.

They inquired to manufacturer of heat pipe but their answer was; “It is possible but hard to commercialize.” Mr. Murakami did not give up

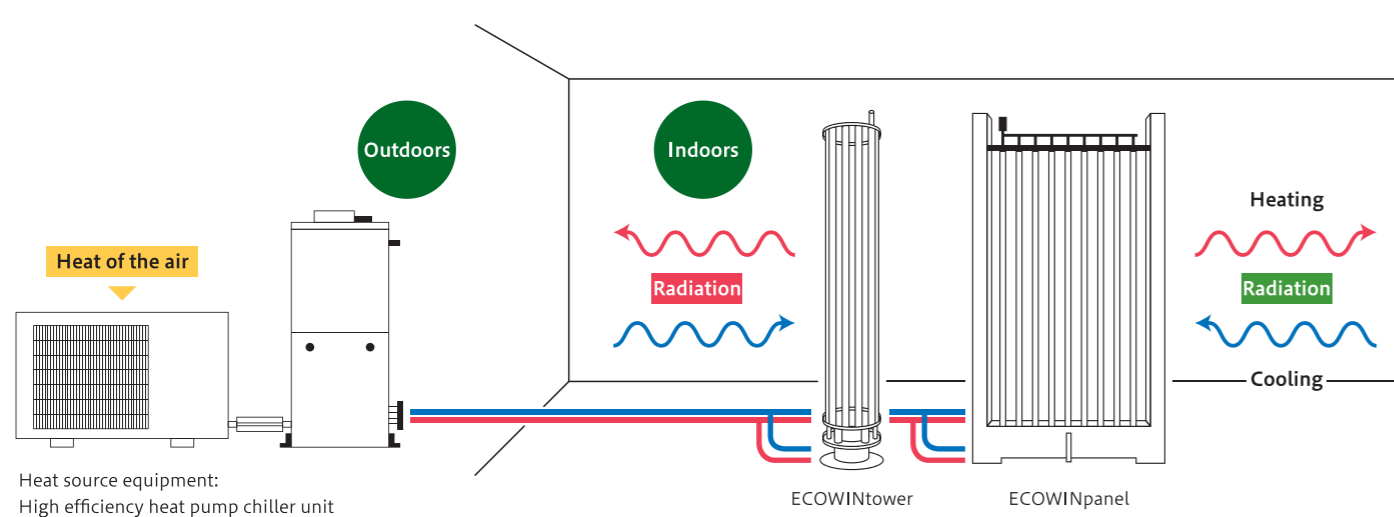
and determine to develop it by them. They started project in 2004 and established ECO Factory Co., Ltd in 2006 and went ahead with project. In 2007, finally they created “ECOWIN” .

Mr. Murakami says; it was not easy to develop new technology but I knew this is necessary for housing construction in future, so decided to develop by ourselves. Our company was design office, but we believed that we can create spatial design and system even though we need to start from scratch. This belief became our motivation. Our ECOWIN use technology of radiating type. It emits or absorbs heat from hot place to cold. Normal air conditioning uses a technology of forced-convection type which needs lots of energy to heat or cool entire room. Compare to that, ECOWIN is energy saving efficient because it only needs energy to cool or heat where people are not entire room. Also it does not make noise or wind, so it is very comfortable.”

ECOWIN won Minister's Prize, the Ministry

of Land, Infrastructure, Transport and Tourism at eco-products international fair in 2007, encouragement prize of Kumamoto industry award in 2009, Japan Manufacturing award of excellence, Kyushu new business award of excellence in 2010 and so on. Also it expands their network by using “Eco-juku” which is a study group for industrial ecology presented by Ministry of Economy, Trade and Industry Kyushu and K-RIP. They became a member of K-RIP in 2009, and establishing business relationships with Korea, China and Philippine. In November 2011, they received a grand prize of Kyushu environmental industry as a great environmental developer.

Mr. Murakami says; I was very delighted by the news of receiving grand prize of Kyushu environmental industry. Our company will keep contribute to energy savings. We are started relationship with company in overseas now. Technology is for human and this idea is other countries. The idea of “something good is good” will create trust. We should not only think of profit. But concerning creates something useful for customer first.”



Heat source equipment:
High efficiency heat pump chiller unit

System of ECOWIN®

“ECOWIN®” is a comfortable “radioactive heating and cooling system” and economical “heat pump type”. It is a product that can offer natural and comfortable indoor environment at various scenes.



An example of establishment of ECOWIN-panel



An example of establishment of ECOWIN-tower



Hot water hybrid heat source machine using waste heat

Expansion beginning in earnest in domestic/overseas

In recent years, especially 2010 and 2011 were two years that President Murakami made every effort to expanding of business of ECOWIN in China. We participated in Kyusyu/Liaoning Sheng province of China environmental business mission of K-RIP (Kyusyu Recycle and Environmental Industry Plaza), negotiation with and sign mutual business partnership with XiaoYu Log & 2X4 Homes co., Ltd in China. After concluding an agreement of joint enterprise with XiaoYu Log & 2X4 Homes co., Ltd, we established a joint corporation in October 2011. It is scheduled to complete a local factory in May 2012 and begin to manufacture of ECOWIN.

Mr. Murakami says; We expect approximately 1,000 units of production in China in the first year (FY 2012). The really important core of the product is produced in Japan and it is exported to China. Then it is completed in a local factory and sold by local distributor. We would like to get our business going and making 5,000 units, 10,000 units and more. We plan to sell our product to government office buildings and log houses such as a cottage whose demand has been growing rapidly in China in the first year (FY 2012). We would like to advance into a big market such as general housing eventually.

In Japan, ECOWIN has been introduced to public facilities such as ward offices and Indoor practice centers for sport and the number of the product is increasing gradually. Market development has also been performed with our environment-friendly products. We propose to install ECOWIN to such places as a listening room of high-end audio and a clean room for the development of precision equipment recently. We have a Joint development with companies in Hokkaido where is situated farthest north of Japan and sales activity in Okinawa Prefecture where is situated farthest south of Japan. Our business is a nationwide scale.

Mr. Murakami says; Our Introduction results of ECOWIN in domestic started with 4 units and it is more than 200 units at present. The introduction to detached houses are still less, but we assure prospect of success from the point that ECOWIN was favorably received by customers after trial. However, becoming more familiar product, we still have many problems to be solved such as improving the shape, weight saving, and per-use cost. Because we would like to propose products from the viewpoint of customers, we don't cut cost of our products. It might produce un-environmentally-friendly products and

poor products which don't perform as much as required. We don't take part in price competition as well. We are aiming to propose and offer good things which are really useful to society with reasonable price.

"We would like to build a good building. In addition, we would like to contribute to the environment" ECOWIN was born from the prospect of success of the construction industry. Currently, though the introduction to public facilities plays a central role, we make it possible to realize high performance eco-housing combines storage of solar energy and all-electric. He dreams that ECOWIN becomes more familiar to many people, is introduced to commercial buildings and general houses, and contribute to environmental conservation, President Murakami talked at last.

Mr. Murakami says; Air conditioner is the main stream of heating and cooling system and has a trillion yen of scale in the domestic market, for example. It is possible that the technology of ECOWIN go into the market. As development progresses, to some extent, it will be able to produce in large quantities. For example, it is ideal that when you stop while walking in downtown, you find the installation of ECOWIN. In addition, there is an environmentally-friendly life there. I hope such a world comes true.

Development of companies concerning the environment

COMPANY 19

C01 IBUKI Co., Ltd.



K-RIP project(2011)

Medical equipment installation with focus on zero-emissions

“Happy Enterprises” addresses new concepts and diverse needs through leading edge logistic services, contributing to prosperous society

A Disassembly, carry out, take in, installation, as well as recycling of medical equipment in medical facilities

Our company provides the carrying in/out of advanced medical equipment such as X-ray, CT and MRI treatment machines.

In contrast to regular transport companies, our company provides precise installation work specifically for medical equipment.

In coordination with the leading medical equipment makers within the country, while taking into consideration the costs of transport, we draw up plans to disassemble, carry out, take in, and install the advanced equipment.

As well, we support the medical industry through the accumulation of effort and experience to introduce useful tools that can be utilized by the medical scene by, for example, holding regular meetings and conferences.

The staff has many years of experience working in the field of medical equipment. In contrast to staff of regular transport companies, they have extensive knowledge of the equipment.

In particular we have an outstanding business track record with X-ray manufacturers, with whom we have gained their trust.

For us, with our focus on zero-emission systematic transport and specialization in dismantling, we continue to provide service until the equipment using on-site.

Environmentally, regardless of the complexity and function of advanced medical equipment, for every one that is introduced, it would have inevitably become industrial waste.

We recycle medical equipment containing aluminium, stainless steel, copper, and important rare metals.

We have a goal to circulate within the country that would dismantle and separate of medical equipment for recycling. This would prevent the draining of valuable resources that are presently used. We also want to expend West Japan's I-yen recycling works.

Company Achievements

Dismantling, unloading, and installation of X-Ray scanners, X-Ray equipment, gamma cameras, CT scanners, MRI scanners in medical centers within the Nagasaki prefecture such as the Nagasaki Medical Center and Nagasaki Memorial Hospital. We have also worked for many hospitals including the National Hospital Organization and the Kyushu National University Hospital.



▲ The scene of dismantling and carrying out cerebral angiography device



▲ The scene of carrying in and installing state-of-the-art MRI device



▲ Special situation carrying out from backside of medical facilities

DATA IBUKI Co., Ltd.

Our company was established as IBUKI Transport in 1955. In recent years IBUKI changed its name. We provide services in construction, installation, dismantling and unloading of equipment for medical facilities. We mainly carry out installation work of medical equipment, and conduct a business that specializes in transportation. Through our logistics services, we would like to contribute to a prosperous society. “Happy Enterprises” would like to continue to address new concepts and diverse needs such as zero emissions.

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Representative director
Mr. Ibuki

C02 ECO WOOD Co., Ltd.



Projects to find markets(2009), Kyusyu Environmental Business Award(2008)

Friendly to Eco and safe. Strong and user-friendly new composite materials

Our company promotes to "recycle of limited resources" and realize a recycling-oriented society by research and development of recycling-based material made from waste wood and waste plastic.

A Recycled Composite Materials of Wood and Plastic “ECO M WOOD”

The product recycled Composite Materials of Wood and plastic, "Eco M Wood" was developed and commercialized by our company and it has been retaining the product quality and safety performance which is supported by publicly recognized qualifications. It retains 90% of strength at an accelerated weathering test and maintains very low level of emission of hazardous substances and formaldehyde which is far lower than JIS (Japanese Industrial Stand). In addition, the skid resistance coefficient (CSR) of the product is 0.82 ~ 0.92 and it exists with walking comfort and safety.

"ECO M WOOD" is made from domestic timber. (Forest and Forestry Recycling Plan) The recycled material content is more than 90% (R90) and our 3 products are licensed to use the carbon footprint mark. While the product itself has a texture which is similar to tree, no splinter, hangnail, decay and termites occurs. It features that there is rather fading in the beginning, but the color doesn't change over the years compare with timber. It has been demonstrated that it is not seen much fading after 5000 hours (It is equivalent to approximately 10 years) by a weathering test, sun shine weather meter. Since the base material itself is colored, scratches are less noticeable. It is easy to repair it with a piece of sandpaper also.

No maintenance such as painting and preservative treatment is required. Since it only requires a regular cleaning and reduces LCC (life cycle cost). We recognize that using of this product, "ECO WOOD" itself is an environmental business for customers.

Moreover, it can be recycled that wood-based and resin systems waste wood discharged by the business as a raw material. (Recycling system of waste wood for customers). It is also possible to replace a dangerous wood deck by aging to a new recycled deck by using same recycled material without disposing.

Company Achievements

It is also possible to forward approximately 3,000 t of our product in fiscal 2010 except for Chikugo Funagoya station and Marine Messe Fukuoka (multi-purpose facility). It evoked many responses as well.

<Prize winning work>

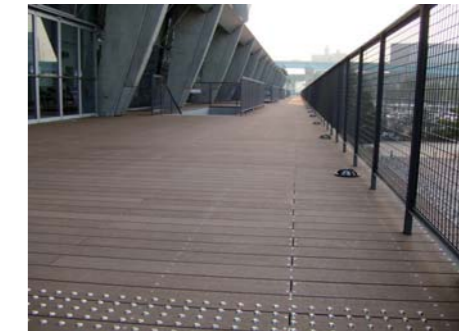
The First Time of Kyusyu Environmental Business Award "Outstanding Performance Award"
 The 12th Time of Fukuoka Design Association Award "Special Recognition Award" "encouragement award"

<authorization>

ISO9001 in 2008. JIS (Japanese Industrial Standards) (JISA5741). CFP mark (carbon footprint mark) for 3 products. Etc.



▲ Recycled composite materials of wood and plastic "ECO M WOOD"



▲ An example of construction of deck at "MARINEMESSE FUKUOKA"



▲ An example of construction of deck at "Bayside Place"



▲ An example of construction of deck and bench at "KYUSYU UNIVERSITY HOSPITAL"

DATA ECO WOOD Co., Ltd. Sales department marketing development section

Our company was founded to promote recycling and regeneration of limited resources in Kitakyushu city in 2002. We developed and sell recycling-based material "ECO M WOOD" which is made from waste wood and waste plastic. We have been increasing sales, not only the sale of product, but also a beneficial proposal of new environmental business to customers. We would like you to use our product which combines both aspects. One is the thing that our product is renewable; the other is the quality of our product meets the severe criteria

1-12-1 Hibiki-machi, Wakamatsu-ku, Kitakyushu-shi, Fukuoka-ken, 808-0021 <TEL> 093-751-2424 <FAX> 093-751-2430
 <URL> <http://www.eco-wood.jp> <mail> info@eco-wood.jp



Representative director
Mr. Ishimoto

C03 Eco Factory Co., Ltd.



■ Kyusyu Environmental Business Award(2011), ■ K-RIP Project(2009)

Research and development of "good for people" and "be pleased" technology

It was established taking an opportunity to start developing of Hybrid thermo system "ECOWIN".
We aim to research, develop and commercialize heating and cooling system having everyone really smile.

A Hybrid thermo system "ECOWIN"

Our Hybrid thermo system "ECOWIN" was developed by our own technology, and is a radioactive (radiating type) heating and cooling system which is as kind to globe as to people.

It is a system that uses extreme infrared radiation, and it does not produce the local temperature difference that an air-conditioner of forced-convection type does. That is why, it is possible to affect to floor, wall, ceiling, object and human body directly and you can feel the heating and cooling temperature as an effective temperature. It also features to cut down 30% of energy efficiency compared to a multi-air-conditioner for building.

"ECOWIN" warms up and cool a room by extreme infrared radiation radiated cold water and hot water in a 6 cm (diameter) of aluminum tube (hybrid thermo element). It has a special coating developed by us on the tube to make it easier to radiate. It produces a comfortable space by extreme infrared radiation using technology which let our body cool and warm up from the core of the body.

It does not pollute the air of the room, and does not let it dry as well. It is major features of ECOWIN that there is no unpleasant smell and even it produces a clean air. Since there is no unpleasant sound and wind compared to usual air conditioners, it reduces the risk of air-borne infection.

In addition, because it is a radioactive heating system, the air does not dry in winter and it is gentle to your delicate skin and throat.

Radiating panel of "ECOWIN" is a powerless and non-filtered that traditional air conditioners have, so compared to traditional air conditioners, it has a product life cycle. It also reduces the maintenance costs.

Circulating fluid flowing inside of "ECOWIN" is up to 7 to 60 degrees, so it is low temperature and safe to the touch.

In terms of reducing heat damage to a building, It is an environmentally friendly products.

<Main element and measure>

Timer function/ Quietness-no sound with powerless/ Rise time-30 minutes (Standard system, at next generation' s energy-saving house, 22 Tatami mats size)/ Weight-70kg without wooden frame.

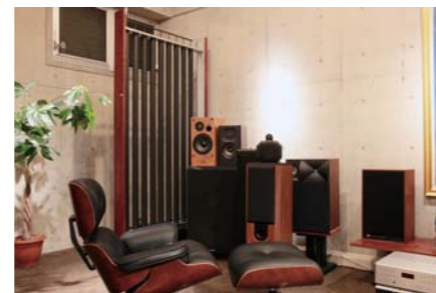
Can be moved with 2 people/ How to delivery-It is possible to assemble on the spot.

Can be replaced the repair parts/ Heating and cooling system- a radioactive (Big) plus free convection (Small)/ Thermal efficiency- extreme infrared radiation to angle of 360 degrees/ Thermo-coating- extreme infrared radiation rate 93%.

It adsorbs and resolves VOC (Volatile Organic Compound) and cleans the air simultaneously as well.



▲ An example of establishment of hybrid ecowin house*



▲ An example of establishment at a sound room



▲ Very safe at facilities such as primary school



▲ An example of establishment of "ecowin" at west wards office of Kumamoto city



▲ High efficiency heat pump equipment

DATA Eco Factory Co., Ltd.

It was established in 2006 taking an opportunity to start developing of Hybrid thermo system "ECOWIN" in 2004. Our "ECOWIN" is a heating and cooling system having everyone really smile. So far, we have appreciated a lot from everyone such as "Encouragement Award" at Kumamoto prefecture Industrial Award, "Excellence Award" at the 3rd Japan Manufacturing Award in 2009, and "Excellence Award" at New Business Kyushu Award in 2010. In recent years, it has been promoted the development in China and other countries as well as domestic. We aim to research and develop "good for people" and "be pleased" technology and commercialize good products.



Representative director
Mr. Murakami

2-17-7 Suizenji, Kumamoto-shi, Kumamoto, 862-0950 <TEL> 0120-539-666 <TEL> 096-381-7033 <FAX> 050-5509-9395
<URL> <http://www.ecofactory.jp> <mail> ecowin@ecofactory.jp <URL> <http://www.atelier-locus.jp> (atelier-locus)

C04 Eco-Works Co., Ltd.



■ Kyusyu Environmental Business Award(2009)

Pioneer way of building a house with full use of nature

Our company contributes to society ecologically and economically with our high technology and fine operation system.

A Hybrid Eco House

Our Hybrid Eco House is a custom home which is built by the ideas of using natural materials and living there with natural energy. It allows us to create a low-carbon society because it uses natural materials, has good building performance and will last for long.

We suggest using equipment which can create energy from natural resources such as solar thermal, sunlight, ground temperature, wind power and rainwater. We research client' s lifestyle and propose them to apply pioneer technology including the system which collects cold and heat from ground, and also have many plans for clients to choose.

Compare to iron or concrete, wood is more eco-friendly material. We only use wood which approved by Forest Stewardship Council and also reduce carbon dioxide emissions by air seasoning. Our technology allows the life of a house to extend dramatically and it also saves environment and reduce carbon dioxide emissions.

Building a house with bunch of those pioneer technologies cost a lot. Therefore it tends to be disliked by client but we reduce those cost of constructions by using various subsidiary aids and make it cheaper and we purpose to spear the hybrid eco-house.

Company Achievements

2010 September: sales volume 1.15 billion yen (total of 38 houses)
2011 September: sales volume 1.47 billion yen (total of 50 houses have been scheduled)

2006: first place of fine OM use constructor from OM benevolent society.

2009: Kyushu environmental business award, prize for encouragement Ministry of Economy, Trade and Industry

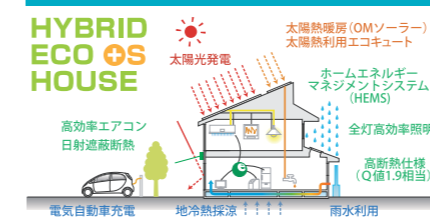
2010: 3 years in a row Ministry of Land, Infrastructure and Transport/Ministry of Economy, Trade and Industry/2 years in a row Ministry of Land, Infrastructure and Transport

2011: 3 years in a row Ministry of Land, Infrastructure and Transport/Ministry of the Environment



▲ Bright and comfortable space by using natural materials and natural energy

Summary of Hybrid eco house + smart



▲ Hybrid Eco House

DATA Eco-Works Co., Ltd. Fukuoka Office

EcoWorks means environmental activity. We named our company with the purpose that not only to build house for customer but also to contribute to the society by ecologically and economically. 'W' from our logo stands for wood and works. Orange circle represents solar energy. Two leaves which grew from W represent ecology and economy. Overall, it represents our concept of living that live in a house which can use solar power as energy resource and save energy and create eco friendly society.



Representative director
Mr. Oyama

1-5-32 Takeoka-machi, Hakata-ku Fukuoka Japan, 812-0878 (Fukuoka Office) 2-3-25 Mawatari Kumamoto-City, Kumamoto Japan 862-0968 (Kumamoto Office) <TEL> 092-404-9200 <FAX> 092-404-9201 <URL> <http://www.eco-works.jp> <mail> info@eco-works.jp

C05 NPO Environmental Core



K-RIP Project(2010)

NPO finds the possibility of utilization of biomass.

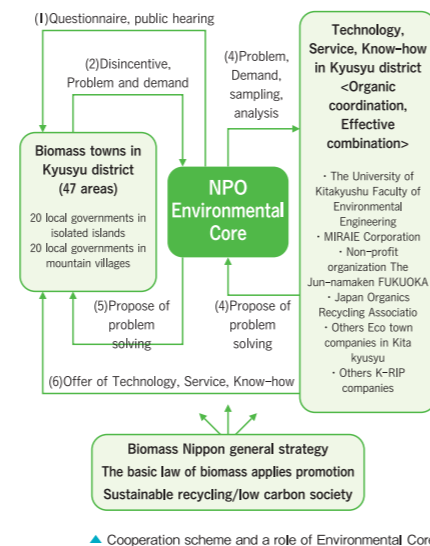
We are a nonprofit organization proceeds with companies, administration, and the citizens to realize global environment conservation. We contribute to the development of local communities by supporting forming sustainable recycling-based low carbon society.

A Research of business supporting construction at a biomass town

We research and extract some business challenges and needs to utilize biomass from a neutral stand for local governments in isolated islands and mountain villages having biomass in Kyusyu district. Various business models (business) suitable for each region will be suggested by specialists and advisors of biomass Town. Our business is to aggregate service, technology, and know-how that is impossible to be done by a single company by cooperating with others such as K-RIP (Kyusyu Recycle and Environmental Industry Plaza). We offer suitable technology from a wide range of technology to a company that hope to utilize biomass, being neutral to manufacturer's specific technology. By cooperate with local governments, we offer a problem-solving proposal from a neutral stand.

Company Achievements

We visited and sent out a questionnaire survey to biomass towns, isolated islands and mountain villages at 50 areas in Kyusyu district selected by K-RIP project in 22nd year of Heisei, 2010. Moreover, the results were analyzed and the problems were classified. In addition, we grasp the unique business challenges (funding, business profitability, inlet and outlet problem) and give a suitable business advice to local government.



B Support business utilizing biomass

This organization has proposed a business model utilizing biomass based on research of business supporting construction. This work is also based on "provision of concrete technology, services and know-how" and "an advice by each specialists". We have various proposals of example of business model.

Company Achievements

We have visited 21 biomass towns in Kyusyu district and carried out a public hearing there. We also proposed 11 of them to commercialize.



▲ The scene of seminar



DATA NPO Environmental Core Biomass Project bureau

Our organization is NPO (specified nonprofit organization) which was established in 17th year of Heisei, 2005 in consideration of realizing global environment conservation, to support forming sustainable recycling-based low carbon society with companies, administration, and the citizens, and to contribute to the development of local communities. In order to promote biomass utilization projects, we support to build a biomass business in biomass town in Kyushu district by utilizing Environmental Core's business mind. It is possible to build well-balanced business solution of economic efficiency (such as cost) and environmental (such as environmental impact) from a neutral stand which is as NPO. Please do not hesitate to consult us.

1-1-4, Takanobou, Kokurakita-ku, Kitakyushu-shi, Fukuoka, 8020053 <TEL> 093-752-5300 <FAX> 0-93-752-5303 <URL> <http://www.env-core.jp> <mail> ceres@fun-c.jp

C06 Environmental Technos Co., Ltd.



K-RIP Project(2011, 2008, 2007, 2005)

From preservation to Creation of the future earth.

We aim to protect the global environment and make safer society by providing IT service.

A Total environmental consult that scientifically investigate "the comfort, the safety, and the secureness"

We focuses on environmental problems and provide total consulting service. Our former company has established in 1973, with aim to solve the pollution problems for small enterprises, In 1976, our company was listed as Kitakyushu Pollution Technology Center. In the beginning, we focused on the typical 7 Pollutions, such as discharged water and emissions from factories, and provided analysis and measure service. In 1980, environmental problems in ocean, rivers, seaports and railways became one of the main concerns in the public. Then we extended our service to environmental assesment to cope with these issues. Moreover, after 1990, we started consulting business related with CO₂ problems, Recycling, energy saving, and reuseable energy. We also provide the engineering service for environmental facilities, such as design, management, and maintenance. In the cooperation with industry-academic-government, we were able to announce the production of Constitutively environmental reference material and making use of Biomass. In 1998, we changed our company name as Environmental Technology Service Co., Ltd. Under our slogan, "Preservation to Creation", we started to expand our business in China. In 1995, established Shanghai Kyushu Environmental Facility Company (engineering company) In 2005, established Shanghai Green Circle Testing Company (product green test company) In 2011, established Dalian Kyushu environment technology company (environmental monitoring company)

<Major business>

[Measure, Analysis Department]

Water quality/atmosphere/soil/noise/shaking/strench/industrial waste/dioxin/VOC/asbestos/RoHS etc. Related qualifications: Environmental measurement qualification office, Working environment measurement agency, construction consulting service, MLAP, Soil Contamination Countermeasures Designated Investigative Organization, ISO-17025

[Research Department]

Nature environment research: ecosystems, animals, plants, bacterias, raptors, biotope space, mitigation, living environmental research: aerospace, waterspace, landspace, noise and shaking, traffic quantity, measuring, landscape, solar irradiation.

[Consulting Department]

Recycling system/ Enviroment and waste management/ecological assesment, simulation/energy saving, new energy, reducing CO₂/ environmental business FS/ market survey/ symposium/ planning, research, operation, assesment services for ecological education.

[Engineering Department]

Water treatment, flue gas treatment, energy saving, wastes recycling, and soil pollution.



▲ Main business



▲ Business area



▲ MOU(Memorandum of Understanding) with a company in Dalian, China

DATA Environmental Technos Co., Ltd. Business Department

Our company aim to fulfill the comfortable and safe society, that based on "Basic Environment Law" related to international ecological activities such as recycling system to provide eco-friendly society, and living with nature. We are currently facing Environmental-related issues, such as global warming, toxic chemical substances, and resource circulation. We, Environmental Technology Service Co., Ltd, put our every effort to provide better environment for our earth.

2-4 Nakabaru-shinmachi Tobata-ku Kitakyushu-City Fukuoka (located in the Kitakyushu Techno-Park) <TEL> 093-883-0150 <FAX> 093-883-0701 <URL> <http://www.kan-tec.co.jp/index.html> <mail> kankyo@kan-tec.co.jp



Representative director
Mr. Tsuruta

C07 Kenki Co., Ltd.



Projects to find markets(2011, 2010)

Make New Energy by Surplus Heat and Waste

We have been developing products with wealth of ideas to form an environmentally friendly, sustainable recycling society. We work from design, manufacture, construction, to maintenance service consistently.

A an unused fire surplus steam continuous system dryer "Nandemo kawakun"

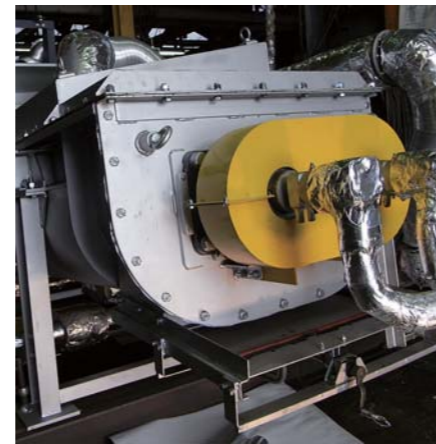
"Nandemo kawakun" is a dryer which dries from wooden solid to sludge adhere strongly. It can be used surplus steam traditionally emitted into the atmosphere from a factory to a source of heat of a dryer. It does not need new source of heat and uses unused energy. It leads the emission reduction of CO₂.

We developed an own screw wing does not adhere and made the dryer which dries various types of raw materials by a single dryer. We also have received proposals and cooperation from forestry technical center in Fukuoka Prefecture. Currently, we are engaged in a joint research with Kyushu University and have been improving it further.

We also cleared the drying of raw material with strong adhesion, such as sludge at low temperatures having been a challenge. Since low-temperature drying is not a direct heat drying and there is no change in the components of the raw material after drying, it becomes easy to

utilize as compost, fertilizer, livestock feed, and fuel after drying. This product can be done crushing and stirring while heating, giving hot air, and heat transfer drying at the same time. It performs 4 kinds of drying by a single dryer and we applied this structure of the dryer that other companies does not have for patent. It also features that the structure is safe, small, simple and easy to maintenance. We are currently developing a conversion of waste to fuel system including this product, and proposing an alternative fossil fuel after drying.

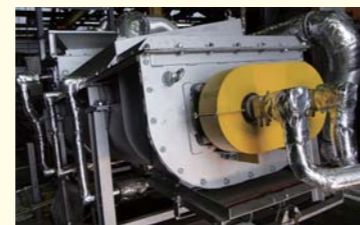
We have done business with three leading companies in domestic. We also have done business with Korea.



▲ A.Nandemo kawakun

Integrated a dryer and a biomass burner for the first time

Patent pending



B High moisture content biomass, Alternative fuel of organic waste

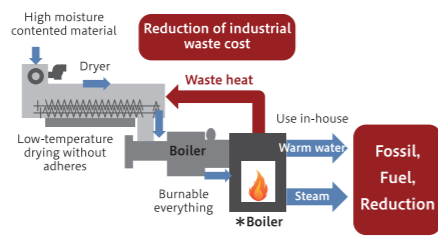
It is a system that uses high moisture content biomass and organic waste that is not currently used as an alternative fuel.

It was achieved by integrating a low-temperature dryer and a biomass burner with gas burning. It has been progressed a dryer and a biomass burner individually, but the integrated system is nowhere except for it.

By integrating the low-temperature dryer with patent which dries from wooden solid to sludge adhere, and the biomass burner which burns various materials, it makes it possible to put raw materials with high moisture content to the dryer. Then, generated hot water and steam by a boiler is used in a factory. Since the source of heat of a dryer is from waste heat of a boiler, there is no need to generate new heat.

It saves the cost of industrial waste and petroleum fuel by generating steam and hot water from factory waste.

Since the fuel of this dryer is biomass and organic waste, it is carbon-neutral and leads to prevention of global warming.



DATA Kenki Co., Ltd.

We work from development, design, manufacture, construction, to maintenance consistently to offer you products which form an environmentally friendly, sustainable recycling society. In recent years, we are engaged in a joint research with Kyushu University and have been improving our product "Nandemo kawakun" further. It is a dryer which dries without fire but steam and received a support of market finding from K-RIP (Kyusyu Recycle and Environmental Industry Plaza) in 2010. In addition, we are also engaged in offering biomass fuel system which received a support of market finding from K-RIP (Kyusyu Recycle and Environmental Industry Plaza) in 2011.

3-9-7 Kamimuta, Hakata-ku, Fukuoka shi, Fukuoka, 812-0006 (TEL) 092-411-1203 (FAX) 092-411-1259 (URL) <http://www.kenmori.biz> (mail) info@kenmori.com



Representative director
Mr. Moriyama

C08 Shitama Sekkai, Inc.



A. Kyusyu Environmental Business Award (2009), B. Kyusyu Environmental Business Award (2009)

Contribute to agriculture with safe and secure recycling lime fertilizer.

Since it was founded in the Meiji era, under this corporate philosophy "the development of our company is with our business partners", we have manufactured and sold agricultural soil improvements such as inorganic/organic lime, organic fertilizer consistently.

A Granulated slacked lime alkali 70

Agricultural soil improvements agent "Granulation slacked lime alkali 70" is a product that uses crushed and powdered lime which is from non-standard product of lime drying agent for food such as seaweed and returned used drying agent. This product is mixed recycled and granulated quicklime as a binder and makes it easy to collapse after spraying. It remains good no less than alkali as a soil improvement.

Traditionally, it has been used powdered slacked lime mainly as agricultural soil improvements and it caused health damage (such as visual loss and inflammation of the digestive organs) by its scattered dust. However, its scattered dust of slacked lime was widely decreased by replacing that to granulated slacked lime. Since we have contrived to let it collapse easily, it is scattered and penetrated to soil. So it does not cause any farm

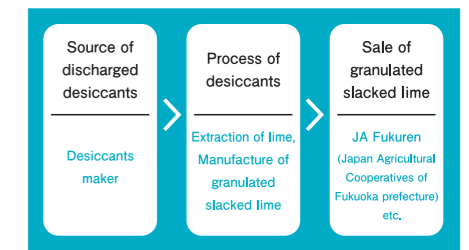
products failure and improves its productivity and safety. We have to build a new distribution and sales network to commercialize by tying up with JA Fukuren (Japan Agricultural Cooperatives of Fukuoka prefecture) since its product research and development stage.

Company Achievements

Award of a man promoted formation of recycling society by Fukuoka prefectural governor in October, 20th year of Heisei, 2008.
Award of a man promoted formation of recycling society by Minister for the Environment in October, 21st year of Heisei, 2009.
The 2nd Kyusyu Environment Business Award, Award of Excellence in October, 21st year of Heisei, 2009.



▲ A. Granulated slacked lime alkali 70



B Sea lime

"Sea lime" is an organic lime fertilizer made from crushed natural oyster shells which is discharged from Itoshima area, Fukuoka Prefecture. Because it includes wealth of calcium, minerals and microelements, it is a high-quality, safe and secures fertilizer.

In addition, the Granularity of the fertilizer is fine to be blended with soil quickly, it promotes the growth of agricultural products.

We have been able to establish a recycling society of waste which is based local production for local consumption in cooperation with Japan agricultural Cooperatives of Itoshima (JA Itoshima), Japan Fisheries Cooperatives of Itoshima (JF Itoshima) and Fukuoka Fisheries and Marine Technology Center through this product.

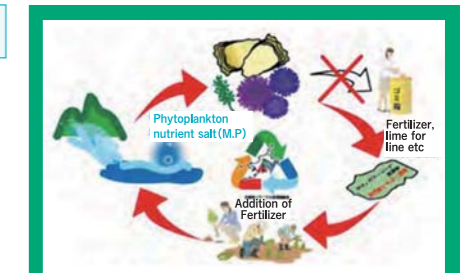
It uses oyster shells cultured and consumed in Itoshima area as a raw material. The organic lime fertilizers made by oyster shells sell and used by local farmers.

Traditionally, the oyster shells were dried with high temperature in order to remove the moisture of shells. With our own technology, the oyster shells need not to be dried with high temperature, and used heavy oil. It reduces the amount of carbon dioxide emissions during its production.

By inexpensive locally produced organic lime fertilizer, we also contribute to the managerial betterment of farmers.

Company Achievements

It has been delivered all amounts of fertilizer to Japan agricultural Cooperatives of Itoshima (JA Itoshima)
The 3rd Kyusyu Environment Business Award, Encouragement award in October, 22nd year of Heisei, 2010.



Recycling of oyster shell for saving land and sea

With all your corporate, the baked oyster shells are recycled to a fertilizer and lime for lime. We are working on the recycling of oyster shells to protect the rich land and sea of Itoshima peninsula. The oyster shells are captured lots of nutrition of the sea. It makes land rich by returning the nutrition into the soils. Many safe agricultural products are harvested by healthy land. Then, the component flowing out from the land will returning to the sea again.

DATA Shitama Sekkai, Inc.

Since it was founded in the Meiji era, under this corporate philosophy "the development of our company is with our business partners", we have manufactured and sold agricultural soil improvements such as inorganic/ organic lime, organic fertilizer consistently. In recent years, by using our know-how we have accumulated, we analyze the problem of soil improvement that our business partners face and provide the best and environmentally-friendly solution. We develop new products to contribute to a recycling society. We will continue to meet the needs of the times, consider to giving a priority to our business partner's benefit, strive to research the best resolution for our business partners, and develop our business certainly and widely.

547 Yubaru, Miyawaka-shi, Fukuoka, 822-0121 (TEL) 0949-54-0329 (FAX) 0949-54-0719 (URL) <http://shitama.co.jp/> (mail) shitama-sekkai@mirror.ocn.ne.jp



Representative director
Mr. Shitama

C09 Sumida Co., Ltd.



K-RIP Project (2011)

All-in-one Vehicle for Recycle System

To neutralize Carbon, we put every effort for developing Portable carbonized thermal decomposition equipments.

A Portable carbonized thermal decomposition equipment Carbon X- II

We developed this product for prevention of epidemics and sterilize for animal husbandry. Introduced new technologies such as Carbonization gas control equipments and heat flow path heating chamber, without any dust or dioxin discharged. This equipment recycles carbonization gas, then increases thermal efficiency, that results reduction on burn-out fuel costs and running costs.

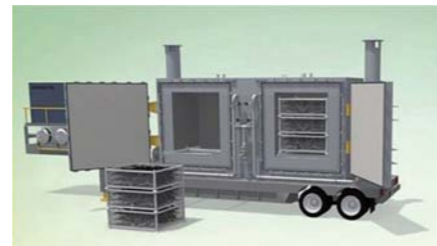
This product enables users process the pyrolysis carbonization on site. You can process and reuse the wastes on site and fulfill the communal recycle activities.

Additionally, All-in-one satisfies all necessary equipments required for recycling. The equipments for carbonization process are all loaded on trailer. You don't need installation work nor construction permits. It doesn't discharge any dusts and soot, so there is no need to install bag filter. The design is very simple, so that you can cut the manufacturing costs, and easy to maintain. This product is considered as Vehicles,

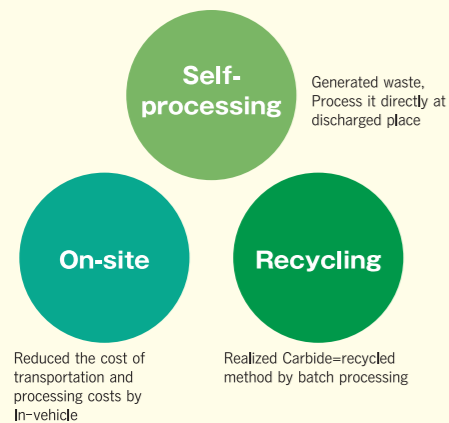
and we offer the total lease contract, and this another attraction for expense processing. Our new technology, carbonized gas control equipment, reused all carbonized gas. You can save the costs for wastes disposal. Other new technology, heat flow path structure, enables to shorten the process time and save costs. This product, expected reduces the volume of wastes, and DE-toxify.

Company Achievements

In 2012, it was selected as K-RIP Projects.



Feature of "Carbon XII"



"Carbon XII" is a technology that does not burden environment and has been developed from the idea of recycling hydrocarbon waste on-site.

- Cost reduction**
 - Cost for transportation of generated waste, reduction of processing cost
 - Reduction of processing running cost
- Diversity**
 - Deployment of environmental business
 - Sale and commercialize of recycling hydrocarbon waste
- Environmental response**
 - Contributing to recycling society by utilizing recycling hydrocarbon waste
 - Contribute to the prevention of global warming by energy-saving operation utilizing a dry distillation gas and non-emissions of air pollutants
- Social Contribution**
 - Achievement of Co-benefit, Simultaneous achievement of the prevention of global warming and pollution
 - Technology transfer to Asia area

DATA Sumida Co., Ltd.

We focus on developing low carbon, recycling society to solve the environmental problems. To neutralize carbon, we made "recycling and DE-toxify organic substance using Biomass and carbonization" as concept, we put every effort for developing Portable carbonized thermal decomposition equipments. With consideration of traditional disposing method, such as landfill and incineration, we developed ecological method with enables you to dispose wastes on-site. We cooperate with companies and provide this recycling system for local community.

10-21 Koyo-machi Wakamatsu-ku Kitakyushu-City Fukuoka Japan 808-0002 (TEL) 093-701-8740 (FAX) 093-701-8741 (URL) <http://sumida.main.jp> (mail) sumida.info@sumida-eco.com

C10 SEIHO KIKO Co., Ltd.



Projects to find markets (2011)

Using hydraulic and pneumatic pressure skills for environmental recycling

We are committed to remaining a company that is indispensable to society through our untiring efforts and technological advancements. All our employees are devoted to constantly view things from the customer's viewpoint and to have a flexible and unrestricted way of thinking.

A All-purpose one axis crusher SC-series

Through our unique control systems, our company's All-purpose one axis crusher SC-series is easily able to crush soft plastics such as flexible containers, tarps and PP band which are viewed to be relatively difficult to crush. There will not be a situation where the machine stops after biting into the material. It is able to crush materials which formerly were difficult to do so (NB. Metals, stone and concrete are not covered). The main points on the technology of the product are: (1) The ability to generate high torque

performance through the automatic reversing function incorporated through our unique control systems. (2) The ability to restrict the electricity usage of the motor through our unique control systems. (3) The availability of seven models which can handle between 5.5kW to 160kW. (4) Strong and durable design in the base and crushing room to withstand high torque performance.

The effects of the product include promoting thermal recycling and material recycling. We have to date supplied 360 machines domestically.



▲ A. All-purpose one axis crusher SC-series

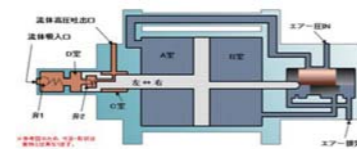
B Air hydro (air drive booster)

This product is an air drive booster, which has used our superior technology and skills in hydraulic and pneumatic pressure equipment.

When the pneumatic pressure is activated, it can achieve a maximum of 800kgf/cm² in pressure and 130 ℓ /min in liquid flow.

The pressure levels can be freely adjusted. As the pressure is continually discharged, it does not generate pressure pulsation that is common in regular boosters. It automatically stops when it reaches the configured pressure level, operates with certainty even with miniscule operations, and is extremely quiet. Both water and oil can be used as

liquids. In terms of usage, it is light-weight (6.5kg) and compact, and therefore is portable by an adult. As it can easily generate high pressure oil and water by simply connecting to a compressor, it can improve your operation efficiency. We have to date supplied approximately 1450 machines both domestically and internationally.



▲ B. Air hydro

C Pruned branches, bamboo, grass grinder "Rub machine"

The "Rub Machine" is machinery that can grind plant biomass to a fibrous state through the strong power generated through the two screw type axis of rotations. Main merits and features include: (1) The ability to directly insert the processing product. (2) Lower malfunction levels through the use of two axis of rotations. (3) Low noise level due to the lower rotational speed. (4) Lower malfunction levels through the automatic reversing function. (5) Lower electricity usage through special control systems.

In particular, the bamboo powder that is generated through processing moso bamboo displays exceptional

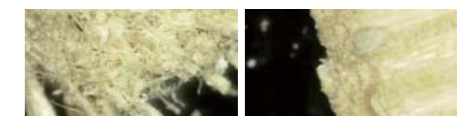
usability and holds high expectations for future possibilities.

Bamboo powder is expected to have usability for: (1) Improving the fertility of soil on farmlands (2) Improving the taste of crops (3) Composting of organic waste matter such as food scraps (4) Silage

It can contribute to solving the problem of abandoned bamboo forests through recycling of bamboo matter. To date we have supplied a total of 20 machines domestically, including 6 machines for the processing bamboo and 14 machines for uses such as biomass composting.



▲ C. Rub machine



▲ Cross sectional shape of processed bamboo powder (Left) processed with "RUB MACHINE" (Right) processed with chipper

DATA SEIHO KIKO Co., Ltd.

Our company was established in 1988 with the manufacture and sales of hydraulic and pneumatic pressure machinery. In 1998, we have entered into the environmental field of operation, have developed the hammer type wood scrap pulveriser, and through innovative technology started the manufacture and sales of the All-purpose one axis crusher which is mainly used to crush waste plastic. Currently we are designing and manufacturing our flagship "SC series", as well as the "SRM series" which is used to process bamboo and pruned branches. We are committed to remaining a company that is indispensable to society through our untiring efforts and technological advancements. All our employees are devoted to constantly view things from the customer's viewpoint and to have a flexible and unrestricted way of thinking.

1-14-14 Nakahata Onojo-City Fukuoka Japan 816-0921 (TEL) 092-588-6216 (FAX) 092-588-6218 (URL) <http://www.seiho-kiko.co.jp> (mail) sc@seiho-k.com



Representative director
Mr. Kadota

C11 Daiya Kucho Co., Ltd.



Projects to find markets (2008)

High effective in soundproofing and insulation for gymnasium etc

Focusing attention on the noise problem since 39 years ago. "Full sun and green, crystal-clear air, and Living a quiet and cozy" are our philosophy. We are going to work on promotion of environmental soundproofing and thermal insulation which are modern society's issues.

A Fully open mouth shape silencer (Resonance absorption shape silencer)

Regarding to placed our company's Fully open mouth shape silencer (Resonance absorption shape silencer) at the air vent it will reduce and prevent noise generated from the machine room and pump room, indoor of factories propagated to the outdoors. It will exert an effective silencing effect of 50dB at the maximum including the low-frequency band by "Expansion", "Resonance" and "Interference" which are characteristic of the sound. It is not required

large-scale construction; installation is easy and compact shape. Not limited to new construction, you can also countermeasures in existing buildings with short-term. Also pressure loss is small and can be adapted for low-power blower so it is possible to reduce running cost. We already have experience in the delivery of 3500 units to the Ministry of Land, Infrastructure and Transport and local governments.



▲ Open shed type of exhaust muffler urban 800

B Total-soundproof construction (Multiple layered panel of absorption and sound insulation, soundproof-wall, soundproof-box, ventilation mute machine)

Our company is getting high evaluation of construction for corresponding to the overall sound insulation which chooses most suitable way for each noise source from various noises generated from factories etc. Basically our process is "Diagnosis" → "design" → "construction" → "measurement".

And to working on for measures with technology of "Multiple layered panel of absorption and sound insulation" and "soundproof wall" measures by

construction to outside of existing, Air vent measures by using the silencer and soundproof-box measures which for stored equipments. It will be less than noise control standards (ex.50dB (A)) at the site boundaries by implementing. There are proven track record of more than 100 of construction for factory noise prevention including 3 case studies of small business improve pollution control were entered in so far.



▲ Before construction



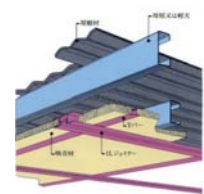
▲ After construction

C IL-Joiner

IL-joiner is a one-touch inset ceiling systems which can easily construction of insulating material and sound absorption material.

It is light in weight because made of aluminum; also it can finish in rich variety according to the shape and color.

It is shock resistant and is optimal for construction of the gymnasium ceiling. Also available to existing buildings. This product has two peculiar construction methods.



▲ Detailed structure of "IL Joiner"

(1) Of insulation and radiant rays removal work (air layer construction method)

Will reduce the amount of 5~7°C radiant heat from the outside by to paste insulation material (glass wool) on the wall or ceiling surface from the indoor side. So cooling cost reduction is possible.

(2) djustment construction of room acoustics and reverberation time (IL system construction method)

Do acoustic improvement by placed sound absorbing material on the ceiling, to improve phenomenon of difficult to hear sound cause of long reverberation time like multipurpose hall. You can maintenance a comfortable acoustic environment for such as a meeting or sporting event.



▲ After establishment of "IL Joiner"

DATA Daiya Kucho Co., Ltd. Business Technology Department

Our company is founding in 1970 and since then we are working on energy conservation and noise pollution solution through the insulation and soundproof. About noise field we have develop silencing technology in cooperation with industry, academia and governments. In recent years we have certification to "small performance superior technology" (registration number: QS-060014-V) at NETIS (New Technology Information System) of operational management at the Ministry of Land, Infrastructure and Transport. Daiya Kucho Co., Ltd will contribute to creating a great clean living in the future based on the respect for human beings and economic efficiency by working on with "environmental, soundproof and thermal insulation" which are modern society's issues.

Head Office: 7762-2 Ono Yamauchi-Cho Takeo-City Saga Japan 849-2304 (TEL) 0954-45-3568 (FAX) 0954-45-5344
Business Office: 205 Tajima Building 3-3 Takara-machi Kasuga-City Fukuoka Japan 816-0807 (TEL) 092-582-4431 (FAX) 092-591-6191 (URL) <http://www.daiyakucho.com/> (mail) daiyah@jasmine.ocn.ne.jp



Representative director Mr. Tajima

C12 Change-Value Co., Ltd



Projects to find markets (2011)

Providing services and products to aim for 15% cost cut

We are providing the know-how that is aiming to '15% cost cut' as a support of customer's 'cost reduction' and for 'energy saving measure'. We also providing the high effective business control software based on instruction achievements in each institution.

A Selling Energy-saving lamp "Non-electrode discharge lamp"

Our company is selling the energy-saving lamps named "electrodeless discharge lamps" instead of mercury-vapor lamps or sodium lamps. The electrodeless lamps mechanism is based on the principle of electromagnetic induction and radiation. Since it doesn't have a filament electrode in the luminous tube like a fluorescent light or mercury-vapor lamp, its life isn't influenced by consumption of the electrode and the lamp is able to spend light much longer than the other types.

For example, a 400W mercury-vapor lamp corresponds to a 100W electrodeless lamp and the life of non-electrode lamp is about ten times of the fluorescent light and five times of the mercury-vapor lamp.

The lumen depreciation compared with a mercury-vapor lamp is also overwhelmingly less. After 2000 hours of operation the lumen depreciation of the electrodeless lamp is 5% and the mercury-vapor lamp ones is 45% (By our investigation)

The product is excellent as it lights immediately

and it is steady with no flickering and glaring. Since the heat generation is also low, it decreases the air conditioning cost. The electrodeless lamp has a PSE (Electrical Appliance and Material Safety Law) mark.

The installation of the electrodeless lamp is advancing rapidly to commercial facilities that are requiring correspondence to new generation of energy-saving.



▲ (Left) mercury lamp 700W (Right) electrodeless lamp 250W



▲ (Foreside) base type (Below) square type

B Aluminum fin cleaning services of air conditioning outdoor equipment

The fin of air conditioning outdoor equipment becomes dirty easily. Even when covered with as little as 0.25mm dirt the electricity cost will increase by up to 40%.

Our company is using a special chemical cleaning agent by National Chemsearch (a company that is expanding to more than 60 countries in the world) to clean the fins which improves the heat exchange significantly. Which means it is able to shorter the time for the same amount of heat diffusion.

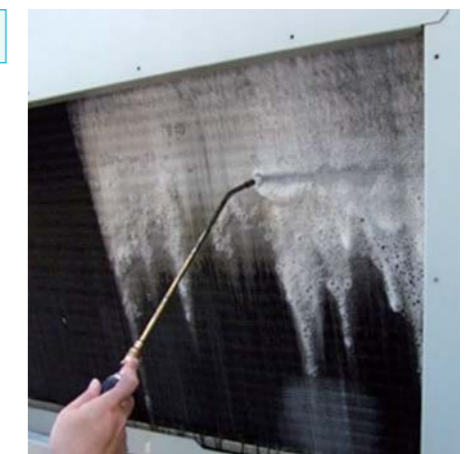
If the outdoor equipment is clean, it is not only an improvement of the work environment, but also increases efficiency and leads to an extend service life.

The average cost-down of electricity is 14.7% and it contributes to save the energy. (Conformity of ISO14001)

For example, when we cleaned an air conditioning unit of a company the power consumption decreased from 10.15A to 8.00A. (By our investigation)

Cleaning saved 21% electric power consumption at this time.

When we cleaned an ice-making refrigerating machine the high pressure decreased 0.2MPa and we could save about 8% of the costs. Our services have been introduced to hospitals, factories, offices, supermarkets, and so on.



▲ Aluminum fin cleaning services

DATA Change-Value Co., Ltd

Our company supports cost reduction and energy saving strategies of the customers that are in prolonged recession. Since we started the business in 2009 we succeeded to instructed customers about energy-saving in more than 2,000 places.

And we are developing high-effectiveness business control software named "Eco-active" that systematizes our own know-how and our cost-cutting experience. In addition, Please inquire to us regarding consulting of energy cost strategies or office cost, tax and insurance strategy and so on.

#508 1-1-1 Fukumaekihigashi, Fukutsu-city Fukuoka Japan, 811-3208 (TEL) 0940-36-9001 (FAX) 050-3488-4445 (mail) info@changevalue.co.jp



Representative director Mr. Sugimoto

C13 Nippon Steel Kankyo Engineering Co., Ltd.



■ A. Kyusyu Environmental Business Award (2010), ■ K-RIP Project (2009)

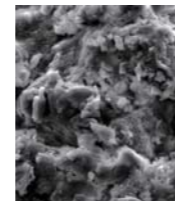
Provide the Best Solution with Latest Technology

We, Nippon Steel Kankyo Engineering Co., Ltd., provide the latest technology to protect the environment, and solution to meet the needs of citizen.

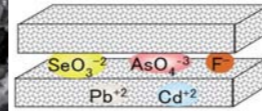
A Hydrotalcite heavy metal adsorbent

This new product introduced synthesis technology of dry hydrated layered clay mineral. It enables to produce at low cost and achieved high stability and efficiency of the absorptive treatment of heavy metals. (Patent pending)

We design the product with absorptive performance on your demand at reasonable price. It adsorbs number of pollutants as follow; arsenic, lead, fluorine, selenium (IV), zinc, and cadmium.



▲ The electron microscope photo of hydrotalcite

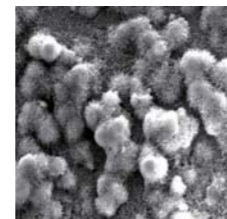


▲ The adsorption of hydrotalcite (image picture)

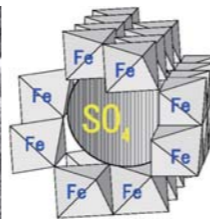
B Schwertmannite adsorbent

Schwertmannite adsorbent use the material adsorbed component and adsorption of composite material with the material of active hydroxide iron and active calcium silicate, it is the adsorption material was molded into a granular powder or granular. (Patent No.4344187 and No.4420634). We design the product with absorptive performance on your demand at

reasonable price. It has the effect of suppressing adsorption and re-adsorption of heavy metals, the sorption of contaminants by mixing with pollutants. When it's mixed with pollutants, adsorbs the pollutants. It adsorbs number of pollutants as follow; arsenic, lead, fluorine, selenium (IV), hexavalent chromium, and cadmium.



▲ The electron microscope photo of schwertmannite

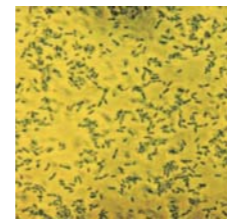


▲ The image picture of structure of schwertmannite

C Bio Attack, Bio Diet

The combination of excess sludge reduction device of "Bio-diet" and "Bio Attack" high efficiency BOD removal equipment, it can be expect of reduction of industrial waste due to due to the treatment of excess sludge microbial BOD (industrial waste) in organic wastewater. In addition, the "Bio-diet" is a general target of excess sludge (regardless of the industry); you can also apply to the field of sewer.

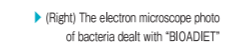
For "Bio Attack", if it is 2 times of the amount of BOD processing load, not required for large expansion of the aeration tank, the sludge can be expected to affect weight loss of about 20 to 40%. "Bio-Diet", is only configured of the storage tank facilities and chemical reaction vessel, it is very easy to use. Sludge weight loss effect can be expected about 40 to 75%.



▲ (Left) The electron microscope photo of bacteria dealt with "BIOATTACK"



▲ The bacteria before process



▲ (Right) The electron microscope photo of bacteria dealt with "BIOADIET"



▲ The bacteria after process

D High efficiency aeration equipment "Triton", Decompression condenser "Ecoprima"

High efficiency aeration equipment "Triton" is uses for activated sludge treatment, anaerobic denitrification process and aeration of adjustment tank. There is no need for liquid disconnect, since it is equip on the surface of water-tank. We have eight types of machine, from 7~52.5kW (multiple units installed by processing volume and tank capacity), power cost is 0.5~0.8 Compare with existing products. Also, concentrated under reduced pressure device "Ecoprima" is able to

concentration reduction of industrial waste (plating waste, alkali waste, and other waste liquid). It is easy to equip since the package equipment, depending on water evaporation capacity, there are 19 models from 0.15~12 m³ per a day, concentration of 5 to 10 times, power is 100~150kW/ m³, which is cheap. It is possible to concentrated in a low price by using of heat pump. Also cost of industrial waste can be expected to reduce.



▲ An example of establishment "TRITON"



▲ "ECOPRIMA"

DATA Nippon Steel Kankyo Engineering Co., Ltd. Environmental Consulting Department/Water Solution Operation Department

We, Nippon Steel Kankyo Engineering Co., Ltd., put "The Environmental Solution Company that inherits better environment to the future generation" as our slogan. We provide advanced ecological service and best solution with our comprehensive engineering force. "Hydrotalcite heavy metal adsorbent" received "Honorable award" in "The 3rd Kyusyu Environmental Business Award" "Schwertmannite adsorbent" is supplied in construction sites nationwide. "Bio Attack" and "Bio Diet" are supplied in more than 100 plants nationwide. We received many Awards, certificates, and great reputation from clients.



Appearance of company

2-2-1 Nishi-honmachi Yahata-higashi-ku Kitakyusyu City, Fukuoka, Japan 805-0061 (TEL) 093-661-1667 (FAX) 093-662-3362 (URL) http://www.nske.co.jp (mail) m_haga@nske.co.jp

C14 Nippon Kanryu Industry Co., Ltd.



■ Kyusyu Environmental Business Award (2010)

Take Pride in an Excellent Water Permeability, Grass-proof from Natural Materials.

Under this management principle, "Continue endless challenge for the creation of environmentally friendly and safe society" we are developing products that contribute to a local community by recycling and cycle life.

A Grass-proof from natural soil "Weed Attack"

"Weed Attack" is a grass-proof from natural soil and a paving material made from Natural Materials. It is premixed Fine decomposed granite soil and mountain sand Selected carefully with extremely safe magnesium soil solidification material (magnesium oxide) that originated in the sea and a bamboo short fiber.

In addition, it is an environmentally friendly glass-proof/ a paving soil and commercialized as a product by adopting traditional Japanese culture and wisdom to make a mud wall and an earth floor. It has been developed as a material that does not use any kind of cement but only natural materials. As a general use, put a thin layer of "Weed Attack" (about 3cm thick) on average, and sprinkle with water on it, then compact by a roller and a trowel. Simply solidify it with natural color of soil and make a grass-proof and a low cost pavement. Only by that process, it is solidified with natural soil and will not grow any weed there. It lightens you to remove weeds.

It releases you from a troublesome weeding and has excellent water permeability. It is also effective to a depression effect of heat island. We contribute to a local community by recycling and cycle life.

We use bamboos cut down at a left bamboo grove in Kitakyusyu city by volunteer s conservation activities of Satoyama (undeveloped woodland near populated area) and gained from bamboo shoot farmers in Fukuoka prefecture. It is used as a reinforcement by cutting bamboo such as a cotton fiber.

We have been donating a portion of the proceeds of the product to conservation activities of Satoyama (undeveloped woodland near populated area). Through volunteer activities such as clean-up activities, we aim to contribute to a local community.

Company Achievements

Ministry of Land, Infrastructure, Transport and Tourism, Fukuoka prefecture, Saga prefecture, Nagasaki prefecture, Kumamoto prefecture, Kagoshima prefecture, Miyazaki prefecture, Oita prefecture, each municipality, Kyushu Electric Power Co., Inc. etc. It was selected as an Eco-premium product in Kitakyusyu in 21st year of Heisei, 2009. The 3rd Kyusyu Environmental Business Award (award of excellence) in 2010.



▲ Weed Attack



▲ Before work



▲ The scene of volunteer clean-up activities at bamboo grove



▲ The scene of volunteer clean-up activities at bamboo grove



▲ After work

DATA Nippon Kanryu Industry Co., Ltd.

Our company was established for the purpose of manufacturing a pitch cokes for an electrode in Kurosaki, Yahata city at the time (Kita kyusyu city at present) in 1939. At present, under this management principle, "Continue endless challenge for the creation of environmentally friendly and safe society", we run a business in 3 fields. "Civil engineering and construction" (construction and sales of traffic safety facilities.) "Disaster prevention" (sales of emergency supplies.) "Chemicals" (manufacture insoluble sulfur and grass-proof soil.) In order to realize a reliable securely established corporate entity in the future, each department will be independent and supply the deficiency each other to go further forward.

1-11-11 Maidashi, Higashi-ku, Fukuoka-shi, Fukuoka-ken, 812-0054 (TEL) 092-632-1007 (FAX) 092-632-1027 (URL) http://www.kanryu.co.jp/ (mail) hamashima@kanryu.co.jp



Representative director Mr. Sawai

C15 JAPAN LIMONITE Co., Ltd.



K-RIP Project(2010, 2008)

Expand the Possibilities of Limonite nurtured at a field of Mt.Aso

We research the possibility of "brown hematite, limonite" which is a rare natural materials nutured from Mother Nature of Mt.Aso and develop technologies and products which correspond to various environmental problems.

A Waste oil deodorant A.S.O

"Waste oil deodorant A.S.O" is a product made from natural limonite nutured from Mt.Aso. The way to use is sprays A.S.O to places where oily and smells bad. It is effective to a clogging of piping and a stench caused by accumulated fat, food residue and a detergent flown into

in large quantities everyday from restaurants and food processing factories. It has a reducing effect on a grease trap, a stench in a septic tank, and hexane extracts which indicates oil content in water. Certainly it is an ecologically-friendly product does not tax drainage.



A.Waste oil deodorant A.S.O

B Limo carbonite

"Limo carbonite" was developed as a deodorant. It is a thing specially processed to natural limonite which exceeds an absorption effect of gas and has been mined at a caldera of Mt. Aso. It is an effective product which exceeds absorption of stench such as Ammonia, Methyl mercaptan,

Trimethylamine, and Hydrogen sulfide. In addition, because "Limo carbonite" can be varied the shape, it is available to deodorize at rooms, refrigerator, entrance by filling it up with a waste basket and a container. It is disposable safely as a general combustible as well.



B.Limo carbonite

C Devulcanizing agent Limonic

"Limonic" was developed to eliminate Hydrogen sulfide. As a DE vulcanizing agent made from natural limonite nutured from Mt.Aso, it is possible to remove Hydrogen sulfide including a biogas created at sewage treatment facility, wastewater treatment facility such as a factory, and biomass facility etc. It is also possible that used agents can

be recycled and regenerate raw materials. Our company has been working of filling up, collection, disposal and recycling consistently. We have been having the high effect at places such as an administrative organ, a food factory, and a biomass power plant.



Field of Mt.Aso



Various products used by limonite ores



Raw materials of "Limonic"



C.Devulcanizing agent Limonic

DATA JAPAN LIMONITE Co., Ltd. Kumamoto Business Office, Environmental Planning Division, Planning and Development Group

Iron ore and brown hematite, limonite spread under the ground of Mt.Aso, Kumamoto prefecture are precious assets. They have been nurtured for a long time by nature such as a volcanic eruption. Since it exceeds to absorb gas and toxic substances and contains a lot of iron and mineral balance such as calcium and magnesium, it is suitable for livestock feed and a soil conditioner. Our company, JAPAN LIMONITE, research this rare naturally-derived material and develop technologies and products which contribute to environment.



Representative director Mr. Kuriya

3-32-18 Tatsuda, Kumamoto Shi, Kumamoto-ken, 861-8006 (TEL) 096-374-7701 (FAX) 096-374-7705 (URL) <http://www.limonic.co.jp/> (mail) info@limonic.co.jp

C16 Fukuoka Institute of Bio industry and Development Co., Ltd



K-RIP Project(2010, 2006)

Selected actinomycete provide environmental-friendly and hygienic animal breeding

We provide recycling and DE-toxify of organic wastes system, through the composting technology for garbage, pruned branches, mowing and feces

A Ecologically functional cattle shed material "Super Houzou"

It is a microbe materials that can improve the shed environment. After installation of actinomycete in the shed, the heat from fermentation of actinomycete prevents outbreak of virus. According to the research from health center, the number of colon bacillus are fewer than wooden chips. It enables you to manage the shed clean, also reduce the medicament in use. Moreover, there is no need of spreading materials. it enables you to decrease the heating cost and sewage disposal cost.

Here is the special features for this product.
(1) Able to cut down the composting term, using the feces decompose-bacteria

(2) Prevent the vermination or bad smell
(3) Prevent the out break of coliform in piled feces
(4) The warm floor increase the demand of baits, and reduce the gas charges.
(5) Prevent the matter against compost disease

Company Achievements

Adopted in Y Company., A company., F poultry farming co-op., K hatching farm Co.,Ltd etc.



A.Super Houzou 20L



The scene of scattered "Super Treasure" at a henhouse

B Grease trap sludge breakdown system "E-System"

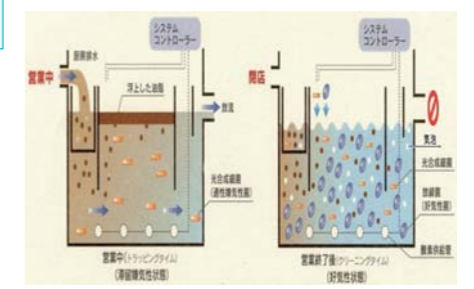
This system break down the sludges produced in restaurants or food factory.

We especially use the AS(Acti soil bacilli, selected actinomycete, photosynthetic bacteria etc.) that can break down the sludge efficiently. It enables you to cut down the costs through the number of scouting, purify the air.

Aeration accelerates break down procedure that can only be done during night time, so it is much better than the traditional way.

Company Achievements

Out system was chosen as part of "K-RIP Project", also selected as the first project in Kyushu by Industry/Academic cooperated organization. (It carried out by the cooperation with Kyushu University and Ringer Hut)



B.The explanation drawing of "E-system"

C Organic wastes Recycle accerelator "Houzou"

This product contains the selected actinomycete that breaks down the organic wastes.

With its degradation ability, it break down the lower fatty acid that responsible of bad smell. Also it produces the high quality compost in shorter period of time.In particular. it helps the recycling of organic wastes such as gabages, pruned branches, feces in short period of time, and produces high quality compost. "Treasure" make composts quickly, (in 3-4weeks), without strong smell or

vermination. Produced compost that contains rich of actinomycete, prevent crops from disease, also reduce agrichemicals in use.

Company Achievements

Adopted in MLIT, Kyushu Regional Development Bureau, Cattle breeders in Fukuoka, Garbage Recycling Community in Kurume-City, Kurume municipal elementally school etc.



C.10L bag of "Houzou"

The electron microscope photo

DATA Fukuoka Institute of Bio industry and Development Co., Ltd Research and development department

Our company focus on Recycling and de-toxify of organic wastes. Especially in composting technology field, we have good reputations from many clients. We will put every effort to encourage organic recycling society, and agriculture in Japan.

3138-7 Kitanomachinaka Kurume-city, Fukuoka, Japan 830-1113 (TEL) 0942-78-6135 (FAX) 0942-78-0201 (URL) <http://www.fukuseiken.co.jp> (mail) houzou@fukuseiken.co.jp



Appearance of company

C17 MIYABO Co., Ltd.



■ Projects to find markets (2010)

Ecological Paint which blocks the heat. Simply Paint It on Buildings

We work on a business about a heat shield for the purpose of blocking the heat to buildings by utilizing our know-how and business result gained at waterproofing work for many years.

A Ecological heat shield paint "FARM BARRIER"

"Farm barrier" was jointly developed with NIHON TOKUSYU TORYO Co.,LTD. and is a heat shield paint to block the rise of temperature in the building. As a measure of heat at agriculture and livestock industry, it aims at alleviating a heat death of livestock in a barn in summer by temperature rise and breeding difficulties. In addition, our new product "FARM BARRIER Tio" is a product which is raised the heat shield effect to the maximum by adopting further demands and reviewing the contents.

It also utilized as a livestock feed tank and a drum part of a ready mixed concrete truck. It has been proceeding to develop a dedicated primer (adhesive) "FARM BARRIER heat primer W" and will be able to further amplify the heat shield effect by using it together. Regarding the primer, it is not only for gluing, but also it is a product added a heat shield effect to meet customer's needs. As the effect of the product, it is expected to gain 20~30 degrees of heat shield effect on the surface temperature (on a metal roof) in the scorching heat of summer by applying an appropriate amount of coating (50 m² / can).

In addition, this product can be blended with our original antimicrobial and alleviate to adhere such as mold to surface of paint film which is a vital of a heat shield effect. And what is more, we corresponded a toning of heat shield paint which has been said that it is difficult to do and now it is possible to represent with various colors.

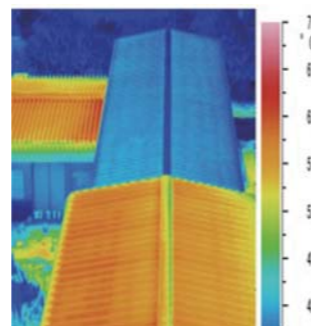
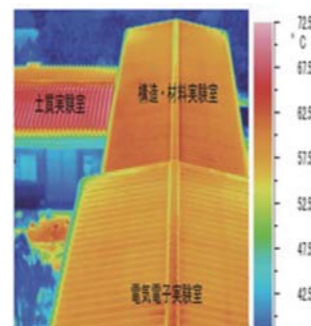
Company Achievements

At present, we have delivered to producers such as Federation of Economic Organizations of Miyazaki Prefecture (JA Miyazaki) and other JA (Japan Agriculture).

We had approximately 30,000m² of construction area and there was not any complaint from customers after delivery last year. We retain a very high customer satisfaction. As for product sales, we take orders from ready mixed concrete industrial associations and factories nationwide. It has been adopted in 25 prefectures and the total number of unit is exceeded 700 units all over Japan. The assistance of by granting a subsidy to small and medium - sized enterprises in Miyazaki prefecture in 21st and 23rd year of Heisei, 2009 and 2011. Support Project for reinforcement of management foundation in construction industry in Miyazaki prefecture in 21st and 22nd year of Heisei, 2009 and 2010. Find a market for cluster of new products in 22nd year of Heisei, 2010. Support Project at KIP (Kyusyu Recycle and Environmental Industry Plaza) in 22nd year of Heisei, 2010. Develop new markets and coordinate at The Organization for Small & Medium Enterprises and Regional Innovation in 22nd year of Heisei, 2010. "Frontier Program" at Ministry of Land, Infrastructure, Transport and Tourism in 23rd year of Heisei, 2010. The above is the evaluation that we have gained.



▲ The scene of "FARM BARRIER Tio"



▲ Thermograph of a metal plate roof before /after heat shield coating



▲ Heat shield coating for ready-mixed concrete truck



▲ Heat shield coating for livestock feed tank

DATA MIYABO Co., Ltd. Environment business department

This is the 42 years since this waterproof contraction company was established. It is launched a new business in 20 year of Heisei, 2008 and we received an approval of the Management Improvement Plan in Miyazaki Prefecture. We call it a consulting service of temperature suppression in a building by using heat shield paint and construct to a variety of buildings.

In recent years, we are striving to create clean energy by using an ultra slim type of solar module while striving to a heat shield. This plan has also received an approval of the Management Improvement Plan in Miyazaki Prefecture in 24th year of Heisei, 2011. We will continue working on the development of "heat shield paint FARM BARRIER" and hope you will continue to patronize us.

1886 Oaza tayoshi, Miyazaki-shi, Miyazaki-ken, 880-0911 (TEL) 0985-53-1008 (FAX) 0985-53-1044 (URL) <http://www.miyabo.co.jp> (mail) ogihara@miyabo.co.jp



Representative director Mr. Murakoso

C18 Ryoko-Industry Co., Ltd.



■ Projects to find markets (2009)

The 'Technological skill' acquired over the years established the No.1 system in the world

We established the technique of advanced composting plant that is rated as the 'No.1 system in the world' with more than 30 years efforts to produce good quality organic compost. (Fully matured compost)

A High quality composting system for organic waste treatment plants

This product is a recycle system that produces high quality compost including fulvic acid iron from organic waste by means of a mixing device which employs a special scooping method. This method creates favorable conditions for microbes to process organic waste (garbage, farm animal's feces, sewage, excreta, slime, pruned branch, and do on...) by strongly stirring the waste with a mixing device. The mixing device features a dedicated, abrasion and corrosion resistant stirring chain. This process produces good quality and fully matured compost.

This product has designed for more than 20 years' service life with excellent function and super-rigid structure designed based on our long experience and achievement. We have been making our efforts to put the fermentation tank higher to reduce the ground space. The system itself has a high capacity and is able to operate automatically for 24 hours. In contrast to incineration of organic waste, this system doesn't create any CO₂ emissions. In addition, it is able to operate at 1/10 of the cost by using this system. Groundwater contamination by corrupt gas or waste fluid is prevented by means of waste reclamation, and also able to create bio-fuel with a very low price. Selling the high quality compost made by this system, we would expect for additional income. It is basis... The compost itself has great appeal. Compost is not only essential to increase production of safe agriculture products, it is also important for organic agriculture products since this compost has fulvic acid iron which is essential for farms. And it will help to recover original nature environment like purification of rivers and regeneration of maritime life.

Fulvic acid iron is in the final product material (humic substance) of plant resolved by microbe, iron complexes of fulvic acid amorphous polymer, which is an organic acid does not precipitate by acid and known by the effect of promoting the growth of plant.

Company Achievements

27 plants for domestic, and supplying to Indonesia, Republic of Palau and so on in overseas. The quality of compost was highly rated, the acknowledge receipt the Environmental performance verification in 2007.



▲ Strong mixing with a scoop style crosscutting device



▲ Mixing device (active)



▲ Abrasion-resistant, corrosion resistance special chain



▲ 24 hours full automatic unmanned operation

DATA Ryoko-Industry Co., Ltd. Sales department

Our company has been striving for an environment project to make feed from food residues or make compost from feces of farm animals. We are pursuing research to make good quality organic compost (fully matured compost) for more than for 30 years for our health, Japanese stock rising and cultivation famers.

The machine failure is less and the techniques of the scoop compost equipment that can produce good quality compost at steady, highly rated as 'No.1 system in the world', and getting many inquiries from Japan, also from overseas.

2167-1 Saikaimachi Nagasaki-City, Nagasaki Japan 851-3101 (TEL) 095-884-1829 (FAX) 095-884-3255 (URL) <http://www.a-ryoko.co.jp> (mail) inform@a-ryoko.co.jp



Representative director Mr. Ohta



Projects to find markets (2009)

Making tomorrow's Earth beautiful through underground and water technology

Since establishment, we have as a research and development manufacturer delivered a diverse range of products into the world that reflect the needs of various time periods. In the 21st century, we are committed to the research and development of environmentally adaptable machinery.

A FJ Plant System (High efficiency oxygen supply system for factory waste water processing facilities)

The FJ plant system pumps the drainage water from the flow adjustment tank, efficiently supplies high concentration oxygen (90%+ concentration) within the FJ vapour/liquid mixing device, and returns the processed water to the tank for circulation processing. It multiplies the microorganisms in the tank, and reduces the water purity load (BOD, SS, n-Hex). It also improves the anaerobic conditions by supplying high concentration oxygen,

and suppresses the foul odor from materials such as hydrogen sulfide. It has also reduced the occurrence of sludge and reduced the blower operation rate. As it is compactly designed, it is able to be established within existing facilities. It was developed as part of the 2009 fiscal year K-RIP new market entering project, and has been supplied to drainage water processing facilities in food and meat processing factories, paper mills, and commercial kitchen cleaning facilities.

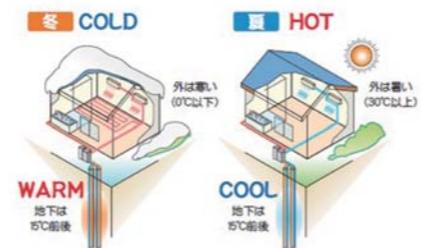


▲ FJ Plant System

B Geothermal energy air conditioning system

Through the excavation of several deep drilled wells of 30-100m depth that satisfies the requirements for usage for air conditioning systems, this system extracts heat energy for heating during winter periods and releases the heat from cooling into the underground during summer periods. By using heat that is colder than the open air during summer and heat that is warmer than the open air during the winter to exchange heat for

the air conditioning system in the underground, it achieves an energy saving of 30-50%. As the effect of electricity usage for air conditioning is large at approximately 50% during the summer, the geothermal energy air conditioning system is particularly suited to the Kyushu area where the demand for air conditioning is high during summer. We have achieved construction in eight locations in the Kyushu area.



C Soil contamination investigation equipment, and the VOC contamination purification system.

The "Soil contamination investigation equipment" achieves low noise and rapid drilling through the vibro-excitation system, and is able to conduct soil contamination examination without using water that could diffuse contamination. The work is made simple through the ease at which the machine can be controlled and set during excavation, and maintenance is also straightforward due to the simple structure of the machine. It can conduct soil surveys within towns where noise can be a problem whilst avoiding the risk of further contamination. We have supplied 200 machines domestically in Japan.



▲ ECO series (Rapid drilling Machines with low noise)

Furthermore, the "Mighty-Eco" processing device which can remove Volatile Organic Compounds (VOC) from contaminated ground water to levels below those required by the environmental quality standard, has also displayed processing performance in a large number of situations.

D Jet stream water quality improvement device

The Jet stream water quality improvement device supplies high concentration (90%+) oxygen and ozone gas using the high efficiency oxygen supply technology. It processes low oxygen concentration water and discharges them as high oxygen concentration water.



▲ Jet stream water quality improvement device

By returning the water to the bottom layer, it is expected to improve bottom quality at the same time as addressing the low oxygen concentration issue. Furthermore by supplying ozone gas, it will assist in improving the water quality and bottom layer low oxygen concentration in lakes and marshes through killing algae blooms, improving odor from anaerobic gas, and improving transparency of water. We have already installed the device at more than 200 locations, including for the Isahaya Bay where low oxygen concentration is a problem, dealing with algae bloom problems in lakes and marshes, and also at live fish centers, fishing ponds and pre-stressed concrete tanks in water purification plants.



▲ Device for water bloom of lakes and marshes

DATA YBM Co., Ltd. A Technology Business Department/B,C,D Technology Development Department

Since establishing as the former Yoshida Ironworks in 1946, we have as a research development manufacturer delivered a diverse range of products, such as bowling equipment's, excavation tools, and high pressure jet pumps for pouring concrete into steel sheet piling and steel pipe pile, to reflect the needs of various time periods. In the 21st century, we are committed to the research and development of environmentally adaptable machinery. Our products have been adopted and consulted by large domestic water processing companies and multiple engineering companies. We have advance evaluation tests, so please feel free to contact us.



Representative director
Mr. Yoshida

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(URL) <http://www.ybm.jp/> (mail) ybm@ybm.jp

Development of ecological products & services

PRODUCTS 78

P01 Itochu Corporation, Kyushu Mist shade unit

Achievement of efficiency improvement and energy saving of air conditioner and freezer

"Mist shade unit" takes advantage of the principles of "uchimizu" which is sprinkling water to keep dust and cool down pavement and "yoshizu", a sunshade which are made from reed. By spraying the mist to inlet of air conditioner and air-chilled freezer outdoor unit, it causes the heat of vaporization and will cool the air around it. Also by sucking the mist into it, it will help improving efficiency and energy saving of the air conditioner and freezer. Spray fine mist which is about the micro-size of 20 μ from nozzle by increasing the water pressure with IMPA pump. At that point, shade will prevent mist from blow away by wind.

By collaborating with our high technology, we could adopt "Daelman Shock" which prevent water stain to this product, and also systematized "Demand Controller Equipment" which monitoring power use and control power use by turning off non-essential usage during such periods of high power use. When the temperature around the outdoor unit also came to 40°C, this product can cool it down by 8°C with using mist. Also it reduces power consumption by reducing the measured value of the current value up to 40%. Our products are already used in places such as convenience stores, supermarkets, golf club.

DATA Itochu Corporation, Kyushu Project planning & Development Department
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(TEL) 092-471-3722 (FAX) 092-471-3707 (URL) <http://www.itochu.co.jp/ja/> (mail) satou-tetsus@itochu.co.jp



IMAGE

P02 Knowledge Management Technology.co., Ltd Diamond Like Carbon (DLC) Coating

Superior technology of energy-savings and wear resistance

It is common to perform plating process to metal by using chemicals and electricity in order to have a corrosion resistance and weather resistance. DLC is the technology which covers the surface of the metal and resin with the membrane which has a similar property to diamond without using chemicals. Instead of chemicals, DLC uses industrial gas which is ionized by plasma. It is more durable and energy-saving efficiency than plating because it can be processed with almost no impact on the environment. This technology has been commercialized PSII method which has been developed in Industrial technology center of Nagasaki. This technology is applicable from small parts to a large structure which is more than 1m without being mottled. It is expected to be applied by various industrial

fields. By applying this technology to various parts of machinery and equipment, their durability will be improved dramatically. Also, it will be lowering coefficient of friction; therefore it will reduce the amount of energy consumptions. (Less than 30 percent compared to the metal) Because it has many characteristics such as biocompatibility and corrosion resistance, UV resistance, infrared-transparent, this technology can also enhance the added value of parts.

Company Achievements

This technology has been applied to vacuum pump rotor (semiconductor factory use), roller for large printer (500 φ x 1500 ℓ), micro-gear made of resin, Ball Valve, Food conveyor wire mesh, Wafer Wrapping Carrier

DATA Knowledge Management Technology.co., Ltd Business development department
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(URL) <http://www.kmtech.jp> (mail) t-takata@kmtech.jp



IMAGE

▲ Large-scale chamber for DLC coating

▲ DLC coated vacuum pump rotor

P03 SANIX INCORPORATED SANIX recycling power generation system

To create a new energy from waste plastics

In SANIX Incorporated, there are corporate philosophies which contribute to the creation of recycling-based society. Therefore we are promoting the effective use and recycling of waste plastics. We have 15 factories which has working on changing industrial waste plastics into fuel all over Japan. They are promoting thermal recycling which means that creating an alternative fuel of petroleum and coal by crushing various sizes of waste plastics into very small fragments. Currently, recycling-based power generating system is the core. It means use plastic fuel energy which is created at recycle plastic source development factory to energy generating facilities.

It has higher calorific value compared to coal also cause less carbon dioxide and ash. Thus, it creates less environmental impact and allows us to provide electrical energy with high added value. This system will suppress the use (or import) of coal about 240 million per year by using about 2 million tons of plastics per year as a fuel for power generation. In addition, it will help reducing about 15 to 20% of CO₂ emissions when it burns compared to coal.

DATA SANIX INCORPORATED Corporate Planning Division Secretariat
2-1-23 hakataeki higashi, hakata-ku, fukuoka-shi, fukuoka 812-0013 Japan (TEL) 092-436-8882
(FAX) 092-436-8883 (URL) <http://sanix.jp> (mail) postmaster@sanix.co.jp



IMAGE

▲ Plastic resource development factory

▲ SANIX ENERGY INCORPORATED Tomakomai power station

P04 Shingo Denzai Co.,Ltd. LED Street lighting/road lighting/stage lighting

High quality LED lighting with energy-saving effect

SD.Hess Lighting provides high-quality lighting equipment with energy saving effect which brings magnificent atmosphere. We design various types of LED such as suspension type and pole-top type. Following 4 listings are the main modules which we currently designed.

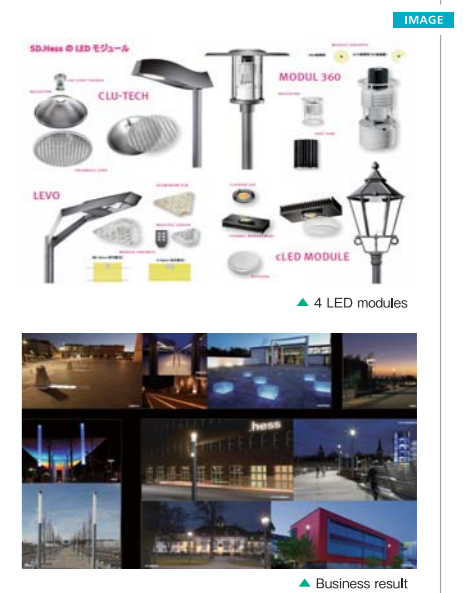
(1)CLU-TECH –Adopt cluster LED, reflector, optical lens. (2)LEVO –Adopt aluminum substrate which consider the life of the LED and optical lens which illuminates wide range. (3)Module360 –Increase the effect of heat dissipation by using Aluminum heat sink, and provides lighting without unevenness and glare. (4)cLED –Appearance of this modules and the warm colors of the light fits nostalgic atmosphere.

Lighting takes up 20% in world power consumption. By using LED lighting, we can reduce 30% of power consumption compared to now. Also, glare-free allow us to prevent a harm which caused by lighting.

Company Achievements

LED road lighting has been used in Kyushu area and more. Our street lighting and stage lighting have been used in Kansai and Chugoku area. Also, SD.Hess Lighting Headquarter in Germany provides our product to all over the world. Also they are involved in a number of LED lighting projects in Germany and their technology has been highly praised.

DATA Shingo Denzai Co.,Ltd. Light business development department
1-29 shinkomachi, omuta-shi, Fukuoka-ken 836-0061 Japan (TEL) 0944-56-8285 (FAX) 0944-56-8399
(URL) <http://www.shingo-d.co.jp> (mail) osiro@shingo-d.co.jp



IMAGE

▲ 4 LED modules

▲ Business result

P05 Shingo Denzai Co.,Ltd. LED style energy conservation Anti-afternoon sun signal

Clearly visible even face to the afternoon sun, a safe signal with energy conservation

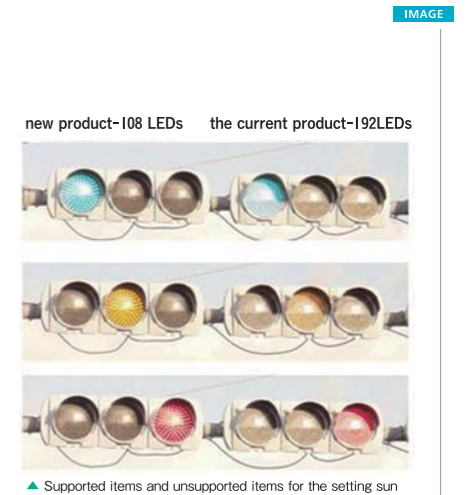
This product cost less power, has long usage life and easy to replace compare with existing bulb style product, thus each prefectural police is promoting of LED style. Our company has succeeded on reduced amount of LED units to 1/4 from existing product with secured visibility; by use of the original lenses with concentrate the surrounding diverge light to the direction of the front and slightly downward of the person who sees the signal. Moreover, the phenomenon (afternoon sun) of difficult to see the signal light by the reflection of the sunlight is mainly occurs in the morning and evening, when the sun at the lower position. For

the solution, we applied black print partly to the inner lenses in order to reduce the reflect lights, and use of smoke color for the front cover to stand out the contrast of lighting condition. Due to the reduced of LED elements, reduced 24% of power usage compare with existing product, and 1/10 compared with bulb style, we have started to selling this product by approved of each prefectural police.

Company Achievements

Double prize on "Award of Excellent" "Award of Environment contribution" of the 24th New technologies and products excellence Award for small business

DATA Shingo Denzai Co.,Ltd. Light business development department
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(URL) <http://www.shingo-d.co.jp> (mail) osiro@shingo-d.co.jp



IMAGE

new product-108 LEDs the current product-192LEDs

▲ Supported items and unsupported items for the setting sun

P06 Shingo Denzai Co.,Ltd. LED light source for road signs; Flat ring

Indicator light source with unnecessary regular maintenance

Most of existing road signs have the plate surface which are not emit light, causes hard to see and easy to miss it. In order to secure the visibility it uses fluorescent lamp as the light source. However, there is brightness unevenness on the display surface, uneasy for maintenance of the high place on the road, thus in some cases they have been neglected even they were broken. Our "Flat ring" has placed 12 high powers LED in both sides, we working on secure of brightness and reduction of power cost. We have put the special lenses that able to irradiate evenly on the plate surface inside.

By use of the optimum special constant current type of LED light, as the equipment efficiency, it has 1/4 power usages compare with 40 form round sharpened fluorescent lamp. The designed usage life is about 12 years (70% lumen maintenance), and structured of installation to existing 40 form round sharpened fluorescent lamp by easy work. We have very pleased by each prefecture police as this product is able to over existing sign, as well as power conservation and unnecessary for the replacement of fluorescent lamps once every two years.

DATA Shingo Denzai Co.,Ltd. Light business development department
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(URL) <http://www.shingo-d.co.jp> (mail) osiro@shingo-d.co.jp



IMAGE

▲ Internal light sign for crosswalk.

▲ Inside light source "Flat ring"

P07 Nippon Steel Corporation, Yawata Iron & Steel Eco Coat®- S

IMAGE

Steel plate for tank which corresponds to bio-fuel

Automotive fuel tank need to be environmentally friendly ,from now, on such as be good for prevention of fuel permeation, does not contain an environmentally hazardous substances (for example lead and hexavalent chromium), also be able to use bio-fuel.

Eco Coat®- S is a non-lead steel materials for automotive fuel tank. Corrosion resistance of steel plate will be greatly improved by controlling plating organizations. Also it has stronger corrosive than gasoline fuel and be able to use bio-fuel which require further strong corrosive. Thus, this fuel tank meets all above requirement. Furthermore, it is superior to fuel tank made of resin by fuel

permeation and easier to recycle. It is also easy to mold and weld, so it has been given good evaluation from major automotive manufacturers.

Company Achievements

Our high technology has been given good evaluation and won "The Third Product Making Prime Minister of Japan Grand Prix(2009) Award" and "The 41st City-Country Industrial Award -Contribution Award (2009)"



DATA Nippon Steel Corporation, Yawata Iron & Steel General Affairs Department
1-1, Tobihata-cho, Tobata-ku, Kitakyushu-shi, Fukuoka, 804-8501 (TEL) 093-872-6108
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P08 Nippon Steel Corporation, Yawata Iron & Steel Magnetic steel sheet

(non-oriented magnetic steel sheet, oriented magnetic steel sheet)

IMAGE

Important technology of high efficient low iron loss products

Magnetic steel sheet is functional materials which utilizing the (magnetic) characteristics of the iron stick to the magnet. It has been used to generator in power plant, transformer for transmission and power distribution, electrical products which is for both industry and home, motor for cutting edge electric car, hybrid car, and so on. This product plays a vital role as iron core which convert the electricity and magnetism. Since people are concerned about global warming and try to reduce carbon dioxide emissions, the movement to develop energy saving technology and research about the hybrid cars has been activated recently.

There is also a demand in IT industry to downsize gadgets and long-lasting battery for mobile device such as notebook computer, portable music player, and digital camera.

We provide eco-products (low-environmental impact product) to the field such as precision motor and transformer. We have a significant contribution to global environmental protection such as energy-saving and reduction of carbon dioxide through the development and provide of power efficient low iron loss products. We expect that the use of magnetic steel sheet will expand since it is good for environment and makes peoples life easier.



DATA Nippon Steel Corporation, Yawata Iron & Steel General Affairs Department
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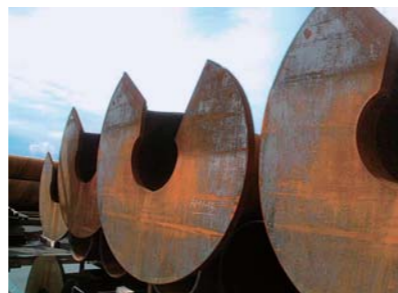
P09 Nippon Steel Corporation, Yawata Iron & Steel NS ECO-PILE®

IMAGE

Next-generation Pile Method Corresponding to Ecology

As is often the case with ground is Japan, the surface layer is almost soft. Therefore, it needs to support a structure, such as a high-rise building and highway, with a pile reaches to firm ground. Traditionally, it has used [impact pile], [cast in place pile], and [bored precast pile]. However, there have been many problems such as construction noise and vibration, muddy water, removal of surplus soils and slime, risk of collapsing of sidewalls, and decrease of end bearing capacity due to loosening of the ground. It has been required a new pile method of construction that matches with the environment in urban areas. NS ECO-PILE® is an environmentally-friendly,

revolutionary new method adopting steel pipe pile for civil engineering construction. Not only does it reduce noise and vibration, but also it suppresses muddy water and earth removal by press-fitting and rotating a spiral drilling blade installed the tip of the steel pipe. It also achieves a high bearing capacity, high quakeproof, low cost, moving up the time schedule. We would like you to pay attention to our next-generation pile method.



DATA Nippon Steel Corporation, Yawata Iron & Steel General Affairs Department
1-1, Tobihata-cho, Tobata-ku, Kitakyushu-shi, Fukuoka, 804-8501 (TEL) 093-872-6108
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P10 Seiko Electric Co., Ltd. Stationary Storage System "Ene Pack α"

IMAGE

The safest system in Japan

Stationary Storage System feature that it can provide electricity to load equipment even we are having a power outage. It will allow us to use 500W load equipment (such as electric light) up to 16hours (if it is fully charged). It is also capable of "peak cut and peak shift" which allow us to use charged electricity in the daytime when the demand of electricity is high. If it attached to Solar power system(PV), you can charge and use electricity from power conditioner outlet. It is operated automatically all the time.

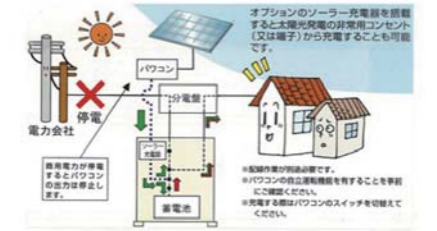
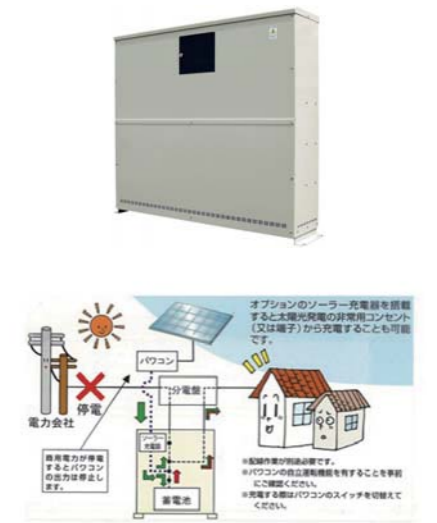
Maximum output:3.0kVA / Total capacity of Storage battery:9.36kWh / Maximum available capacity of normal period:5.6kWh (60% of total

storage) / Charge control method : PSOC multistep constant current / Cooling system:Natural cooling / Protection system:islanding phenomenon protection (comply with regulation of Grid-connected "JEAC9701-2010") / Equipment protection:equip over-current and over-load protection / Battery protection:equip over-current and, voltage reduction protection / Type of battery:Small-sized valve regulated lead-acid battery / External measurement(mm):W1439 x H1300 x D340

Company Achievements

We provide 1,300 sets of Stationary Storage System and it is the top sales in Japan.

DATA Seiko Electric Co., Ltd. Sales department group of Kyushu solution
2-7-25 Toko, Fukuoka-shi Hakata-ku, Fukuoka 812-0008 Japan (TEL) 092-473-8939 (FAX) 092-473-9065
(URL) <http://www.seiko-denki.co.jp> (mail) sales@seiko-denki.co.jp



P11 Takafuji Co.,Ltd. Lvi Lighting System "LED/LVI/Hybrid"

IMAGE

Unique, Next-Generation Eco-Friendly Lighting being Developed

At our company, with firm confidence in our technological strength and product performance, we are researching as well as manufacturing and selling Eco-friendly lighting.

Our products have the merit of being environmentally friendly, using less energy yet having long life, and providing light that is not too bright but with which one can still clearly see.

Whether aiding in solar power generation in areas that have no electricity, or providing order-made solutions to the ideas of the customer, our products answers that can satisfy all your needs. From output regulation to luminosity control, we produce LEDs that are completely designed and

manufactured in-house.

Our company has designed, in cooperation from the local university and industrial school, a long-lasting electrode-less lighting system which is comparable to industry LVI standards.

We have filed a patent for the "Hybrid", which aims to top even LED and LVI.

As a result of our research and development, you can choose three different types of Eco lighting. In the town of Hiji in the Oita Prefecture, a solar-style LED is being used for the seaside promanadde. The Nippon Steel Cooperation's site in Oita uses LVI, and Sekisuijushi is using Hybrid.

DATA Takafuji Co.,Ltd. Business Development Department
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(URL) <http://www.takafuji-gr.co.jp/index.html> (mail) kawabe@takafuji-gr.co.jp



▲ An example of establishment at "JR Shingu-cho station"



P12 Takafuji Co.,Ltd. Indoor Agri Plant System

IMAGE

Energy Cost-saving Agricultural Plant

Hydroponics is a cultivation method that was developed in Europe to grow plants that may be naturally unsuited to an environment. In hydroponics, factors such as exposure time to sunlight as well as temperature can be adjusted and controlled by artificial means.Focused on providing yield efficiency and crop safety, our company has developed a small plant factory.

At Yufu in Oita Prefecture, home to west Japan's largest cultivation of paprika, research is being done in cultivation with hydroponics as its base. "Safety regardless of the environment of the establishment - creating safe vegetables", Using container-style structures at challenging locations", "Reducing crop cycles, increasing output through multi-step structures", Changeover of

lighting equipment with 60% reduction in energy costs", "Using LED lights that are suitable for raising plants" are among various features which are being developed in the agricultural facility. We are confident that using LEDs will result in a substantial reduction in energy costs, which is a huge bottleneck for closed-circuit plant factories. As well, promising research is also done in which LED light is used accommodate to a plant's wavelength to encourage growth, which may increase the rate of harvest.

Currently, with the assistance of research funds from Mitsui Engineering and Shipbuilding Co., Ltd, data from the second prototype is being collected. As the testing apparatus is located in our company premises, open observation is possible.

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(URL) <http://www.takafuji-gr.co.jp/index.html> (mail) kawabe@takafuji-gr.co.jp



▲ Indoor Agri Plant System(Prototype)

P13 Seibu Giken Co.,Ltd. High Panex Ion (Ion Adsorption Total enthalpy heat exchanger)

IMAGE

The ion technology which keeps comfortable and clean indoor air

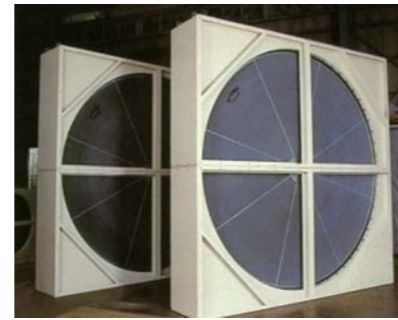
Total enthalpy heat exchanger transfer heat and moisture which has been attached to exhaust air to air supply from outside when you ventilate. It allows us to succeed to save energy and reduce high carbon dioxide emissions by reducing the burden on air conditioning with thermal energy which created during ventilation.

Our company has succeeded in commercialize rotary type total enthalpy heat exchanger in 1875, and then succeeded in commercialize 5th generation of total enthalpy heat exchanger with ion absorption method in 1998.

Even though our heat exchanger has been praised, the former heat exchanger also absorb odor and it

became a problem, and this problem has been solved by Ion adsorb technology.

High · Panex · Ion adopt ion exchange resin Polymer adsorbent which is difficult to absorb odor, as an absorbent of latent heat (moisture) exchanger for the first time in the world. Compared to former type which uses silica gel, it absorbs and transfer less odor. Also, it will create further cleaner and more comfortable indoor air by combining antibacterial and antifungal material with it.



▲ Total heat/sensible heat set

DATA Seibu Giken Co.,Ltd. Sales department
3108-3 Aoyagi, koga-shi, Fukuoka-ken 811-3134 Japan (TEL) 092-942-5711 (FAX) 092-944-6811
(URL) <http://www.seibu-giken.com> (mail) info@seibu-giken.co.jp

P14 Seibu Giken Co.,Ltd. Dry Save (desiccant dehumidifier)

IMAGE

Succeeded to create low humidity air which is better than cooling method

It is really important to control humidity in a field of food factory and medical plant where required to keep ingredients fresh and good quality, and of power plant and shipbuilding factory where required to prevent rust and dew condensation. Dry Save (desiccant humidifier) will meet all needs above.

Dehumidification rotor will decide the performance of desiccant humidifier. The technology such as (Metal silicates humidification rotor which has been develop by us for the first time in the world, creates low humidity air which cooling method cannot achieve. It can be operated even in an environment with 100% relative humidity and also

in a low temperature condition. Even under those conditions, it will creates stable humidity and Ultra-low dew point drying. It has been used in a various field where needs to control humidity.

For example, Dry Save has been used in quality retention of lithium battery manufacturing where requires sever humidity control.

Company Achievements

We provide our product to food factory and medical plant, thermal power plant, nuclear power plant and so on.



▲ Dehumidification unit

DATA Seibu Giken Co.,Ltd. Sales department
3108-3 Aoyagi, koga-shi, Fukuoka-ken 811-3134 Japan (TEL) 092-942-5711 (FAX) 092-944-6811
(URL) <http://www.seibu-giken.com> (mail) info@seibu-giken.co.jp

P15 Seibu Giken Co.,Ltd. Sky Save

IMAGE

Cut the disposing cost and discharge of CO₂

VOC (Volatile Organic Compounds) causes the formation of suspended particulate matter and photochemical oxidant.

Recovering and burning of low concentration emissions contains VOC needs not only extremely large-scale equipment, also the running cost will be higher, as increases the air volume.

It is possible to rich low concentration and large amount of gas emissions by using our products. As the result, it causes the decrease in the facility cost and running cost.

Enrichment of VOC reduces the load on combustion equipment. Moreover, make smaller the combustion equipment, which lesser the CO₂

emissions.

"Sky Save" is valued as great product for these features, "High Performance, High Efficiency", "High boiling point and High thermopolymerized VOC", "Inactive", "Cleaning and Activator action".

Company Achievements

Applied in Car factory, Printing factory and Semiconductor-making factory. Especially used in producer, who needs exhaust gas treatment.



▲ VOC concentrating ability set

DATA Seibu Giken Co.,Ltd. Sales department
3108-3 Aoyagi, koga-shi, Fukuoka-ken 811-3134 Japan (TEL) 092-942-5711 (FAX) 092-944-6811
(URL) <http://www.seibu-giken.com> (mail) info@seibu-giken.co.jp

P16 Nishinippon Plant Engineering and Construction Co., Ltd. Solar power generation system

IMAGE

Proposed a mega solar power generation, and achieve it.

Our solar power generation system converts solar energy to DC current in the solar panels installed outdoors, and converts the DC current to AC current for using of general electrical equipments with inverter.

Generally, you use electricity generated with sunlight in day time and buy electricity from Power Company in night time or time of insufficient amount of power. You can sell surplus amount of electricity to power company as well.

It is also possible to accumulate generated electricity to storage battery to supply as needed.

Solar power contributes to reduction of environmental impact (reduction of CO₂) and to spread of renewable energy. This is why solar power is very promising power. We offer you highly reliable solar power generation facilities by

using our technology developed from maintenance of thermal and nuclear power generation facilities. We offer you consistent service from infrastructure planning and design of mega solar power generation facilities, procurement, and construction to maintenance.

In addition to the advantage, we also offer you proposals of high efficiency power generation system, feasibility study, business affairs of application concerning the installation of power generation facilities, monitoring system and so on.

Company Achievements

We have supplied our products to a mega solar power plant (3MW), five 10KW ~ 50KW solar power generation facilities in the Kyushu district.



▲ KYUSHU ELECTRIC POWER CO., INC. Omuta mega solar power plant (3,000KW)

DATA Nishinippon Plant Engineering and Construction Co., Ltd. Engineering Department, Technical Management Group
1-10-1, Takasago, Fukuoka-shi, Fukuoka-ken, 810-8540 (TEL) 092-533-1725 (FAX) 092-533-1736
(URL) <http://www.npc21.jp/> (mail) gijutukanri@npc21.jp

P17 Nishinippon Plant Engineering and Construction Co., Ltd. Wind Power Generation

IMAGE

Promoting Environmentally Friendly Wind Energy

We offer you consistent service from site selection of wind power generation facilities, proposals of wind turbine, infrastructure planning and design, procurement, construction to maintenance. In addition to the advantage, we also offer you wind conditions survey, environmental assessment, feasibility study, business affairs of application concerning the installation of power generation facilities, monitoring system and so on. Wind power is a system that converts kinetic energy of wind into electrical energy.

It has been introduced more than 1,500 wind turbines as power generation facilities in Japan. Power generated by wind turbines is sold to power company, and it will be used as environmentally friendly energy. An environmentally friendly investigation is needed thoroughly where the

infrastructure planning and design of the wind power generation facilities is determined. The amount of power generation will depend on the "wind conditions" of the geographic location. It is needed to select the site of wind power generation facilities after considering wind speed, wind direction (wind conditions survey), etc. and rigorous investigation of natural environment. We offer you environmentally friendly wind energy in total.

Company Achievements

We have supplied 1300KW × 16 groups, 2000KW × 1 group, 1990KW × 1 group in Kagoshima Prefecture, 600KW × 1 group, 1500KW × 8 groups, 2000KW × 8 groups, 2000KW × 6 groups in Nagasaki Prefecture in the Kyushu district.



▲ Amami Oshima wind power Co.,Ltd. (1,990kW)

DATA Nishinippon Plant Engineering and Construction Co., Ltd. Engineering Department, Technical Management Group
1-10-1, Takasago, Fukuoka-shi, Fukuoka-ken, 810-8540 (TEL) 092-533-1725 (FAX) 092-533-1736
(URL) <http://www.npc21.jp/> (mail) gijutukanri@npc21.jp

P18 Nishinippon Environment Energy Co., Ltd. Biomass Power generation business

IMAGE

Effective utilization of eco-friendly energy

With the fundamental of biomass resources recycling, we are working on research, propose, implementation of power projects of energy. Not only proposed from primary research to business planning, but also operate partly consulting based on the customer needs, and implement of biomass power business with in the country and overseas.

<Consulting>
Primary research on type, usages availability and property of biomass, Implementation of consider the equipment scale of biomass energy effective utilization and equipment specifications, equipment design and business recommendation.

<Power business>
Implementation of biomass power business with in the country and overseas. Biomass energy is the renewable energy that is possible to alternate from fossil fuel and contribute to reduction CO₂ which is the origin of the global-warming.

Company Achievements

Implementation of the business planning, design and power business of Miyazaki biomass recycle power station. Implementation of biomass power business in India (during construction plan)



▲ Miyazaki Biomass recycled power generation plant

DATA Nishinippon Environment Energy Co., Ltd
1-17-8, Shirogane, Cho-oh-ku, Fukuoka, Japan 810-0012 (TEL) 092-526-6701 (FAX) 092-526-6702
(URL) <http://www.neeco.co.jp/> (mail) shinki@neeco.co.jp

P19 YASUKAWA Electric Corporation Yasukawa inverter & High efficiency motor

Energy saving, state-of-the-art motor technology

Our product, Inverter "VI000" "A1000" series, can easily control an induction motor as well as a high efficient, synchronous motor with a built-in magnet. Considering global environment in the future, it is possible to make progress with reducing of production costs and CO₂ emissions through energy conservation. It also corresponds to the situation required energy conservation such as RoHS (Restriction of hazardous substances). Our product contributes to a significant reduction of power consumption in combination with a high-efficient, excellent energy saving motor. Our ECOHIM series induction motor materialized a high-end-model (premium efficiency, equivalent to IE3)

which further elevates the energy-saving effect of further (IE2) that also has a high efficiency motor. The high efficiency synchronous motor, ECOIPM series has a performance which is equivalent to super-premium efficiency IE4. In combination with inverter control, we achieve super energy conservation exceeded an induction motor.

Company Achievements

We have 19.6% in domestic market share of the inverter, (less than 75kW, fiscal year 2010, estimated by JEMA) and 16.0% in global market share of the inverter. (Fiscal year 2010, estimated by YASUKAWA Electric Corporation)

DATA YASUKAWA Electric Corporation Inverter Operations Department, Marketing Division
2-13-1, Nisimiyaichi, Yukuhashi-shi, Fukuoka-ken, 824-8511 (TEL) 0120-114-616 (FAX) 0120-114-537
(URL) <http://www.e-mechatronics.com/>



IMAGE

P20 YASUKAWA Electric Corporation Power conditioner for solar power Generators Enewell-SOL

Conversion Efficiency of the Industry's Highest Level

Power conditioner is a device that converts AC power generated from solar panel to high-quality DC power. Not only it is used with general electrical equipments, but also supplies its power to power company. We produced the industry's highest level of conversion efficiency by using our World's highest level of conversion technology developed with general-purpose inverters. Our Power conditioner can be operated with input voltage DC100 ~ 600V (10kW) / DC250 ~ 600V (100kW) / DC60 ~ 400V (4.5/5.8kW), and its rated output also be achieved in more than DC250V. We are proud of this wide range of input voltage. In addition to the advantage, since our product uses

renewable energy, there is no carbon dioxide emission. Our technology also contributes to peak shaving. We investigate the demand of Enewell-SOL series in various markets and purposes, and are aiming to expand the possibility of our product. We meet the needs of our customers with a wide range of selection. 10kW for general industrial and apartment building use, 100kW for medium to large use such as Megasora, 4.5/5.8kW for residential use.

Company Achievements

Currently, Enewell-SOL series that supplies power about 15MW power in total is running.

DATA YASUKAWA Electric Corporation Inverter Operations Department, Marketing Division
2-13-1, Nisimiyaichi, Yukuhashi-shi, Fukuoka-ken, 824-8511 (TEL) 0120-114-616 (FAX) 0120-114-537
(URL) <http://www.e-mechatronics.com/>



IMAGE

P21 YASUKAWA Electric Corporation Rapid charger for electric vehicle Enewell-CEV

Charger for electric vehicle which based on the user's point of view

We contribute to reducing carbon dioxide by developing and commercializing technology and product which promote the spread of electric vehicle. This product has been developed and commercialized by making use of the power conversion technology that we specialize in. It is possible to charge any CHAdeMo standard electric vehicle rapidly (possible to charge 80% in 20 to 30 min). It has a function as harmonic protection (Maximum output 50kW), so there is no problem installing in a residential area and commercial facility. It is space-saving as the power source and plug-in station can be separated and up to two electric

vehicles can be charged at the same time. In order to make operation easier, we placed operating instruction and operating switch together.

Company Achievements

We came up with the idea to use upper free space on plug-in station as ad space and that idea won "2011 good design award". This product corresponds to harmonic protection guideline which has been issued from Ministry of Economy, Trade and Industry.

DATA YASUKAWA Electric Corporation Inverter Operations Department, Marketing Division
2-13-1, Nisimiyaichi, Yukuhashi-shi, Fukuoka-ken, 824-8511 (TEL) 0120-114-616 (FAX) 0120-114-537
(URL) <http://www.e-mechatronics.com/>



IMAGE

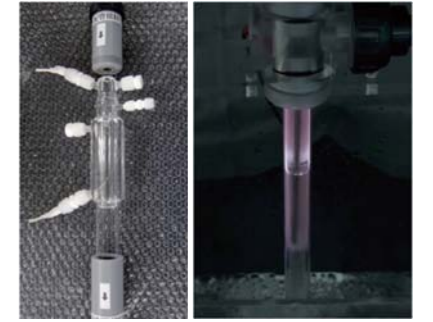
P22 Asahi Organic Chemicals Industry Co., Ltd. Aspirator Water-through Ozonizer

The possible safe use and handling of ozone

This Device form aspirator structure. There is glass-made double pipe and insert fluid(processed liquid) into inner pipe and insert gas (including oxygen) into a space between inner and outer pipe. When fluid which is in inner pipe has been discharged, it creates strong negative pressure between inner and outer pipe. It cause fluid cavitation and makes possible to mix fluid and gas. There is high voltage electrode on outside of the outer pipe and earth electrode on inner pipe or fluid. If the earth electrode is located on inner pipe, it creates ozone, and if it is on fluid, it creates ozone and active species such as OH radical. The biggest advantage of this device is it makes possible to generate ozone where next to use point

(processed liquid) since it has been integrated generating point and melting point of ozone. Even though it is small, but it allows us to handle ozone safely without any gas leak. Also, ozone will melt very efficiently by Venturi effect and no need to install air diffuser. It is possible to melt generated ozone gas into fluid efficiently (or react ozone gas to processed liquid) by controlling gas-to-liquid ratio inside of dielectric pipe. If processed liquid which goes through inner pipe has been discharged directly, it will make possible to let advanced oxidation process (decomposing refractory organic) happen with single device.

DATA Asahi Organic Chemicals Industry Co., Ltd. Valve & piping systems technology development center/ Water system group
2-5955 Nakanose-cho, Nobeoka-shi, Miyazaki-ken 882-8688 Japan (TEL) 0982-35-0900
(FAX) 0982-35-9352 (URL) <http://www.asahi-yukizai.co.jp/> (mail) hideyuki.nakashima@asahi-yukizai.co.jp



IMAGE

P23 Ohishi Construction Co.,Ltd. Submarine cleaner(SMC) method

"Under sea vacuum cleaner" which improve marine environment

Submarine cleaner method is technology that remove as thick as 10cm of material which includes earth and sand, also organic matter, floating mud and toxic substances (TBT, dioxin, OCB, etc.) which accumulated on the bottom of the sea, without making water muddy. It is effective for removing floating mud in fishing harbor and port, also effective for cultivation of sea-bottom which will allow us to reproduce a fishery. It is capable of executing job with the speed of 3,000 m³ per day. This equipment creates jet stream and shoots out to see-bottom. And jet stream blows materials up then pumps them up. This method makes it possible to remove 10cm thick toxic material on the bottom of the sea where environmental hormone has been piled up, without making water muddy. It removes small silt (sulfide,

phosphorus, nitrogen) and leaves larger size of clean sand. It also cultivate bottom of the sea. Since it does not make water muddy when it dredges, there is no chance of secondary pollution. It will reduce the volume of dredged materials. Therefore, we do not need vast landfill site and that will reduce construction cost. It can contribute to improvement of marine environment in semi-enclosed sea.

Company Achievements

We won The first best Award of fisheries Infrastructures in 2009
The Third Best Award Land, Infrastructures in 2011 (Awarded by Minister of Land, Infrastructure and Transport)

DATA Ohishi Construction Co.,Ltd.
4-52 Hausutenbosu-cho, Sasebo-shi, Nagasaki-ken 859-3243 Japan (Nagasaki headquarters:6-1 Asahi-machi, Nagasaki-shi, Nagasaki-ken 852-8003 Japan) (TEL) 095-834-1200 (FAX) 095-834-1201 (URL) <http://www.ohishi-net.co.jp> (mail) s-suenaga@ohishi-net.co.jp



IMAGE



IMAGE

P24 Kyowakiden Industry Co., Ltd. Water provider box

It is capable to supply drinking water without power

"Water provider box" is a manual pump, portable water purifier which you can secure your safe drinking water when disaster occurred. It consists of pre-filter, activated charcoal filter, zeolite, microfilter membrane. It can create 200L per an hour of drinking water which is a total of about 2,000L filtrate water from remaining bath water, water from water tank and receiving tank, even from swimming pool. If you use daily life water, it can create a total of 5,000L filtrate water. "Water provider box" comes with aluminium case and weight 13kg. It has small wheel on a bottom, so you can move it easily. It will take about only a minute to put it together by oneself and operation

is really simple. Since it is portable and manual pumping system, you do not need power source. All you need is water source to create drinking water.

Company Achievements

We have provided this product all over in Japan and also in overseas such as China, Pakistan, and Haiti.

DATA Kyowakiden Industry Co., Ltd. Overseas division
376-5 Kururi-go, Nishisonogiguntogitsu-cho, Nagasaki-ken 851-2107 Japan (TEL) 095-882-0088
(FAX) 095-882-7240 (URL) <http://www.kyowa-kk.co.jp> (mail) takatoshis@kyowa-kk.co.jp



IMAGE



IMAGE

P25 Marine Technology Institute Corporation Aqua Fine

A system to protect water in dam from algae

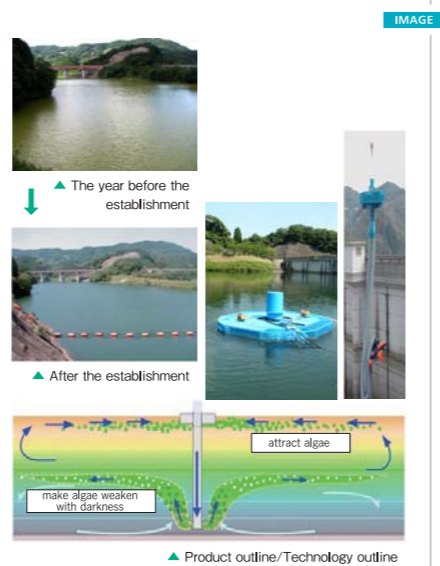
Algae cause offensive odor, water pollution, and decreasing water temperature of water reservoir such as lake, swamp and dam. Algae on a water surface will shut out the lights and oxygen, and oxygen concentration in water become poor. Aqua Fine collects the algae of the water surface and takes it to the bottom by creating "from-up-to-down" water stream. It kills the algae and prevent reservoir from overgrowth of algae. Aqua Fine consists of floating body which equip motor and propeller and water pipe which reaches to the bottom of the lake. It will absorb the water surface including algae with the stream which has been created by propeller and takes them to the

bottom. The water surface contains oxygen as well, so it also solves poor oxygen concentration in the water. It consumes less energy to create stream. Also, structure is very simple, so easy to maintain.

Company Achievements

It has been used in 15 dam since its release in 2004.

DATA Marine Technology Institute Corporation
2269-53 Seto-cho, Imari-shi, Saga-ken 848-0043 Japan (TEL) 0955-23-2266 (FAX) 0955-23-2223
(URL) <http://www.felco.ne.jp/felco/mti> (mail) mti@felco.ne.jp



P28 Takachiho Shirasu Corp. Satsuma-Nakagirishima-Kabe

Create comfortable house with efficient humidity control and deodorization

"Satsuma-Nakagirishima-Kabe" is finishing material for interior that is made of "Shirasu" which is volcanic product in south Kyushu. It is all natural and does not use chemical resin or glue. It can control humidity and eliminate odor, so you can keep house clean and comfortable without using air-conditioner or air-purifier. It has ten different color variations and six patterns, so will fit any types of house.

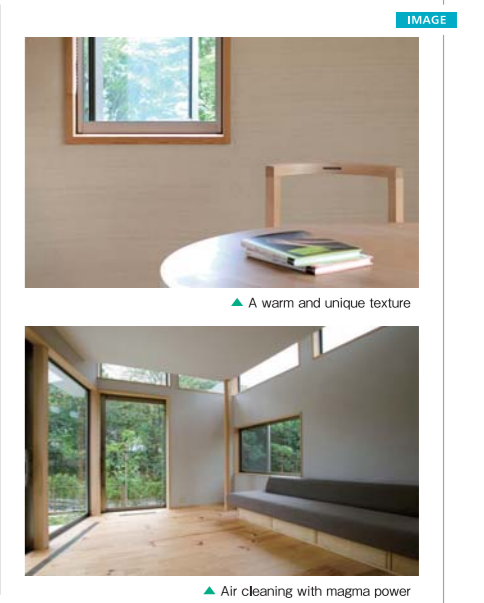
If you use this material for your house, it will eliminate the smell of cigarettes, pets and food in a short time. Also it will absorb chemical which volatilized from furniture and will not release it. It will control humidity, so it will absorb moisture

when inside of the house become humid. On the other hand, it will release moisture which was stored in a wall, when inside of the house become dry. In addition, it prevents condensation, so reduce the chance of getting moldy or appear of mite.

Company Achievements

Our product used in all over Japan and total of 4million m² has been sold. Also, it has been used in Korea, Taiwan and China.

DATA Takachiho Shirasu Corp.
1662 Yamada-cho nakagirishima, Miyakonojo-shi, Miyazaki-ken 889-4602 Japan (Sales department:2-2-1 Minatomirai Yokohama landmark tower 9F, Nishi-ku, Yokohama-shi, Kanagawa-ken) (TEL) 0120-011-535 (FAX) 0120-998-084 (URL) <http://www.takachiho-shirasu.co.jp/> (mail) info@takachiho-shirasu.co.jp



P26 Marine Technology Institute Corporation Oil recovery unit "Erimina"

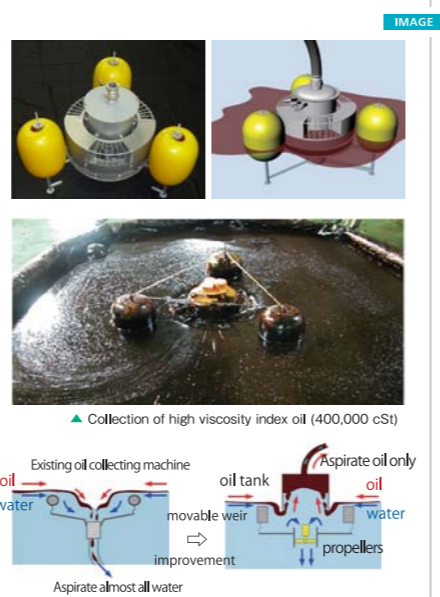
Protect ocean and coast

It is very important to collect spillage oil quickly and efficiently when a marine accident occurred because it might cause oil spill and damage to coastal fishing. "Erimina" is a device which collect those spillage oil. It overcame the problems that former type collect lots of water not only oil, and it cannot collect high viscosity index oil. Former oil recovery unit adopt a method that collect both oil and water which is on the water surface. When oil spilled, it spread very thinly, so when former oil recovery unit operate, it collect mostly water. We installed round bowl shape tank where we hold oil, and connected tank and suction pump. Also we installed propeller at the bottom of

the unit. Oil will be collected to tank and sucked by pump because oil is lighter than water. Then water will be returned to ocean by propeller. This method makes it possible to collect oily water with less water content and it will make other operation (storage, transport, disposal) easier and more efficient.

In addition, it can collect high viscosity index oil by using movable weir which can move up and down along with the height of water.

DATA Marine Technology Institute Corporation
2269-53 Seto-cho, Imari-shi, Saga-ken 848-0043 Japan (TEL) 0955-23-2266 (FAX) 0955-23-2223
(URL) <http://www.felco.ne.jp/felco/mti> (mail) mti@felco.ne.jp



P29 Takachiho Shirasu Co., Ltd. Super Shirasu Soton house wall W

100% Natural comfortable and eco friendly house wall

"Super Shirasu Soton house wall W" is 100% natural material house wall which created from mainly volcanic soil known as "Shirasu" in south Kyushu. Even though it is all natural material, it will prevent house from rain without water resistant coat and also has moisture permeation effect. Coating material has high water-holding capacity and long lasting the heat of vaporization effect, and it will prevent house temperature from getting high for a long time.

This character improve the efficiency of air-conditioners and contribute to energy saving and reducing carbon dioxide emission. Compared to mortared frame house, house with "Soton house

wall W" has one sixth of thermal conductivity. If you spray water to the wall in a summer, it will cool down the temperature of inside of the house by 2-3°C.

"Soton house wall W" consist of two layers which use different particle size distribution of Shirasu. Primers which use fine Shirasu will let fine particle such as water vapor through but not water particles. It has been painted with inorganic pigments which will not be affected by ultraviolet ray or wind and rain, so no need to re-paint or re-covering.

DATA Takachiho Shirasu Co., Ltd.
1662 Yamada-cho nakagirishima, Miyakonojo-shi, Miyazaki-ken 889-4602 Japan (Sales department:2-2-1 Minatomirai Yokohama landmark tower 9F, Nishi-ku, Yokohama-shi, Kanagawa-ken) (TEL) 0120-011-535 (FAX) 0120-998-084 (URL) <http://www.takachiho-shirasu.co.jp/> (mail) info@takachiho-shirasu.co.jp



P27 Kiyomoto Co.,Ltd Resin sludge collector

Long lasting corrosion resistance

It was common to use steel (SS400) which has coated with epoxy to round shape collector that use thickener and settling tank which is under corrosive environment. This "Resin scratching machine" use engineering plastic (FRP) which resist acid and alkaline very good to most of the part. It will maintain high corrosion resistance for a long period of use. Also, it is very light. It has two types, one is suspension type which tank diameter is less than φ10m and another is strut type which tank diameter is more than φ10m.

product because it only need annual paint repair to bridge part. Also, it weight only a quarter of the former type, so it reduce burden of the structure and power requirement will be reduced as well and result in saving power consumption.

Company Achievements

This product has been used in over 20 Municipalities, mainly of sewage treatment plants in Japan.

DATA Kiyomoto Co.,Ltd Environmental business department marketing division
6-1633 Totoro-machi, Nobeoka-shi, Miyazaki-ken 889-0595 Japan (Tokyo branch:2-11-1 UchiKanda Shimada building 4F, Chiyoda-ku, Tokyo 101-0047 Japan) (TEL) 03-5256-1181 (FAX) 03-5256-1185 (URL) <http://www.kiyomoto.co.jp> (mail) nouno-ta@kiyomoto.co.jp



P30 Tagawa Sangyo Co., Ltd. Plaster ceramic "Limix"

■ K-RIP Project(2007)

Eco-friendly natural building material

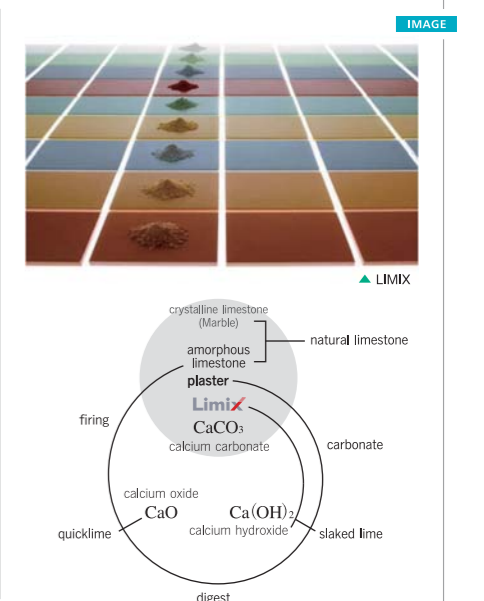
"Limix" is a limestone-based building material that is made of all natural materials. It was formed under extremely high pressure by using vacuum forming technique without any heat or binder. It achieved properties similar to marble by being reacted with carbon dioxide. This was an epoch-making invention in our history. Due to the non-baking technology, it allows us to save energy and reduce carbon dioxide emissions during manufacturing process. Compared to former baking method, it reduced 80% of them. This material controls humidity inside of the house and create a comfortable space. Also, it absorbs harmful chemicals such as formaldehyde which causes

sick-building syndrome. It suppresses pathogenic bacteria and swine flu viruses and molds due to high alkalinity.

Company Achievements

It has been used not only in houses but also in public places such as stations and large commercial complex, and exported to United States and Malaysia for overseas.

DATA Tagawa Sangyo Co., Ltd.
1924 Yugeta, Tagawa-shi, Fukuoka-ken, 826-0041 Japan (TEL) 0947-44-2240 (FAX) 0947-44-8484
(URL) <http://www.shirokabe.co.jp/> (mail) info@shirokabe.co.jp



P31 TOYO DENKI INDUSTRIAL COMPANY TOYO underwater disturbance sand pump

Efficient discharge is made possible at high concentration

The disturbance sand pump is a pump which can discharge solid mixed-liquor efficiently, so that it can expect the cost reduction by the increase in efficiency and shortening of work according to the churning effect of a disturbance shuttlecock. Our company has the technology developed prior to the world, and discharge of the efficient solid mixed-solution is possible for it at high concentration. Because of an underwater type (deep sea operation type), this product has an unnecessary setting position in land, and it is safe at the time of water disasters, such as submersion under water, a flood, and so on. Moreover, since it is the design which specialized in durability, long-term continuous use can be performed only in a periodic maintenance. In result of the long-term usage, reduction of the equipment operation cost and the useless materials is possible.

The sand pump could be used for all kinds of diverse situation, for example, adequated for amphibious, the high depth of 200 meters, and from small sized 0.75kW to large sized 900kW of pump outputs.

Company Achievements

We have been taking effect on both domestic and overseas fields both domestic and international technology scene, such us ; Dredge of prevention-of-pollution processing equipment/A pollution processing plant/Device for improving soil quality/Dredge of a river, a harbor, and a dam/Recycle system for the rest of liquid concrete/Sewage disposal facility for Agenda sedimentation basin/Extraction of marine resources/Industrial waste disposal.

DATA TOYO DENKI INDUSTRIAL COMPANY
1-7-10 Norimatsu Nishi-ku Yahata Kita yushu-shi Fukuoka 807-0831 (TEL) 093-691-2731
(FAX) 093-691-2728 (URL) <http://www.toyopump.co.jp> (mail) info@toyopump.co.jp



IMAGE



P34 Fujikasui Engineering Co., Ltd. "TROLL" UASB type anaerobiosis waste water treatment equipment

Energy recovery and cost are also reduced from waste water

Technology, such as water disposal, gas processing, and soil purification, has been polished as an advanced company of environmental engineering since foundation in 1957. "TROLL" UASB type anaerobiosis waste water treatment equipment disassembles and processes the organic matter in the waste water discharged from a food factory etc. at methane and carbon dioxide using granule-like anaerobic bacteria.

Rather than an activated sludge method, there are few sludge amounts of emergence of anaerobic bacteria, and they can reduce a waste sludge amount of emergence to 1~1/10. Furthermore, methane is recoverable from the process of liquid waste treatment as energy. Moreover, since the electric power for aeration is unnecessary, the

amount of the electric power used can be reduced sharply, and reduction of carbon dioxide emission can be aimed at simultaneously. Equipment itself is a compact design and it can use it by space-saving.

Company Achievements

Hikari Miso Co., Ltd.
Within liquid-waste-treatment equipment, "TROLL" of our company is collecting energies from industrial waste water as methane.
2010 food-industry CO₂ reduction grand-prix "Minister of Agriculture, Forestry and Fisheries prize" award
In addition to this, supply about 100 companies.

DATA Fujikasui Engineering Co., Ltd. Kyushu Office
2404-1 Tsukure Kikuyomachi, Kikuchi-gun, Kumamoto Japan 869-1101 (TEL) 096-288-9953
(FAX) 096-288-9963 (URL) <http://www.fkk.co.jp> (mail) hpfkk@fkk.co.jp



▲ TROLL mycobiont



▲ TROLL device

P32 Nishinippon Environmental Engineering Co., Ltd. ■ Projects to find markets (2010) Solar SG system

Realize water purification by the catalyst of whitebait

Solar SG system was born from the research of the catalyst and advanced technology. By collaboration with the Faculty of Science, Kagoshima University, we have made clear that this catalyst is able to decompose of toxic substances such as nitrogen, dye and environmental hormone in the water, even in a dark place.

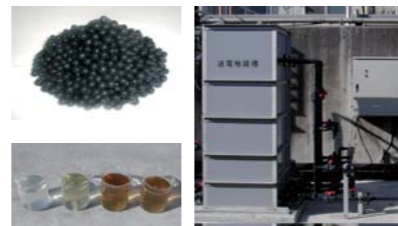
Furthermore, as the amplified of catalyst reaction, we greatly improved the level of purification by providing the electronic in contact with the catalyst tank for wastewater and contaminated which is energized. Decomposition has been accelerated and it is possible for even faster processing now. For nitrate-nitrogen, it will convert to nitrogen gas

and released into the air. The structure of this system is very simple. Since it doesn't require chemicals or vast site, lower construction and management cost can be expected. Throughout the decomposition of harmful substances in the water, we will contribute to securing water and water purification around the world.

DATA Nishinippon Environmental Engineering Co., Ltd.
2-3-2 Takashi Kagoshima-City, Kagoshima, Japan 890-0043/1637-31 Takarabe-cho Soga-City, Kagoshima, Japan 899-4103 (Plant) (TEL) 090-3070-9503 (mail) nishikan.sata@gmail.com



▲ Solar SG system



P35 Fujikasui Engineering Co., Ltd. "NS-process" Recovery of valuable resources

The system collects metal from the waste fluid.

NS-process is a system which can collect nickel, copper, zinc, tin, mercury, etc as metal sulfide by performing reaction-end point control using a gas sensor.

As a feature when adding the sulfidating agent they can "prevention of excess input of sulfidating agent", "reduce occur odorous gas" and "prevent them to change to Colloid" by doing correct way to adding" by to manage the end of the chemical reaction using with hydrogen sulfide gas sensor.

As a feature when As a concrete effect, the amount of emergence of sludge is reducible to about 1/3 of the conventional method, and when it is a nickel sulfide, moisture content will be

10~20%. Moreover, since that moisture content is low, metal content is high, a dewatering cake can be sold off as mineral materials.

Company Achievements

Already supplying three companies etc. is a product which can expect future.

DATA Fujikasui Engineering Co., Ltd. Kyushu Office
2404-1 Tsukure Kikuyomachi, Kikuchi-gun, Kumamoto Japan 869-1101 (TEL) 096-288-9953
(FAX) 096-288-9963 (URL) <http://www.fkk.co.jp> (mail) hpfkk@fkk.co.jp



▲ Processing by NS Process

P33 FUKUYU RYOKUCHI Inc. ■ K-RIP Project (2005) Technological development for a-tree planting and environmental loading reduction

A transplant and restoration of a natural forest including an ecological system

We take effect and propose the methods of restoration of ecological system, topsoil transplant, heavy-tree machine transplant, rooftop gardening, afforestation and environmental loading reduction.

(1) Afforestation - A method of ecology unit construction: It is a construction method which transfers natural environment as it is. The topsoil in the state where ecosystems, such as a soil microbe are included is secured and it makes possible to port as a unit. Relocation (ecosystem transfer technology) of a lignose or a grassy place and waterside environmental creation (technology corresponding to a rationality plant) are possible.
(2) Technical development for environmental impact reduction: Construction of permeable water retention soil system pavement, weeding out using natural bicarbonate of soda

which is not a weed killer and reproduction of a lawn, the screw stake foundation, rooftop gardening, the biotope proposal of whether to be a firefly and a killifish etc. Proposal and construction of the environmental impact reduction which combined each technique are possible.

Company Achievements

Eco-box unit construction is adopted as a new technology practical use for pilot construction of the Ministry of Land, Infrastructure, Transport and Tourism. The rice terrace restoration construction in Akashi Kaikyo National Government Park, transplant construction of ancient wood inside of Yoshinogari historical park garden, a green-tract-of-land maintenance construction, development planting maintenance construction, etc.

DATA FUKUYU RYOKUCHI Inc.
2-27-24 Heiwa Minami-ku Fukuoka-shi Fukuoka-ken 815-0071 (TEL) 092-521-0620 (FAX) 092-521-0867
(URL) <http://www.fukuyu.com> (mail) info@fukuyu.com



IMAGE

P36 HONDA KIKO CO., LTD. High capacity Micro-Nano-Bubble generator pump

Small bubbles produce the big possibility

This product is the world's first high capacity Micro-Nano-Bubble generator Pump. It makes finer air bubbles than hair and can adsorb and remove sludge in wastewater.

Dissolved Oxygen level approaches to the saturation value and revives hypoxia lakes.

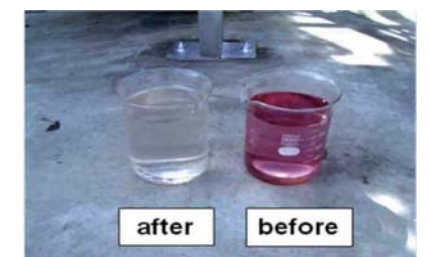
This product uses vortex pump, different from existing idea, adopts the way poring gas to the suction side. Firstly, it dissolves gas in liquid with pump pressure then makes fine bubbles (about 20-30 micron) with bubble generator. It offers not only domestically but also in Thailand, India, Singapore and other countries. Generally use for pressure floatation device and

Water oil separating equipment, other than these, it is introduced to new markets such as COD/BOD regulation measures which is global stringent environment regulation by using of Ozone, and pre-processing of seawater desalination device.

Company Achievements

Year 2010, displayed at Yokohama APEC environmental zone.
Won at The fourth Japan Manufacture Excellence Award

DATA HONDA KIKO CO., LTD.
2055 Yamano Kama-shi Hukuoka-ken 820-0202 (TEL) 0948-42-3111 (FAX) 0948-42-3116
(URL) <http://www.hondakiko.co.jp> (mail) headquarter@hondakiko.co.jp



P37 Fujisawa-eco Co.,Ltd. Hauling industrial waste, Recycling disposal

To make maximum use of the benefit of limited resources

In 21 century, the recycling of various industrial wastes becomes more and more important to recycle. Through various recycling business partners, we would like to positively contribute to well-balanced corporate activity with environment to make a contribution to environmental society and take over the limited resources and great global environment to the next generations.

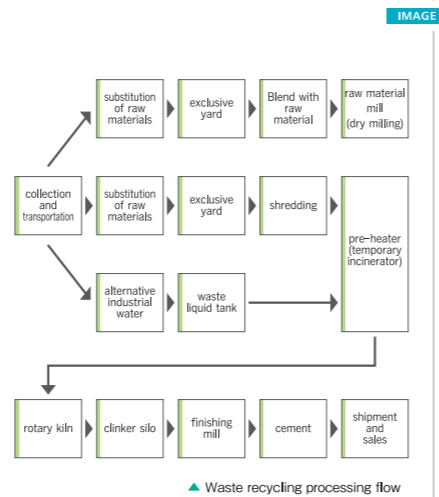
Company Achievements

We gather industrial waste mainly in Kansai to the west, western Japan and haul them to our business partners. In 2010, we gather and haul 94,847t.

Our recycling partners and Recycling

Cement factory: alternate of raw feedstock, alternate of industrial water, alternate of fuel. Yamamoto Reduction (smelting)- purified Zn, Pb, Cu, by ash from steelmaking, molten fly ash, and waste glass. Fe2O3, CaO, SiO2 are sold as the source material of cement and roadbed material. RPF factory: Sell alternate fuel RPF for coral to paper companies. (In a year 25,000-30,000t) Civil engineering material: sand for fresh concrete, sand for plastering and Sand for backfilling. Other compost factories, incineration-fusion plants, etc.

DATA 藤澤環境開発株式会社 総務部
〒870-0235 大分県大分市久原中央 4-7-1 (TEL) 097-593-4211 (FAX) 097-593-0094
(URL) <http://www.fujisawa-eco.co.jp> (mail) yano@fujisawa-eco.co.jp



P38 Fujisawa-eco Co.,Ltd. Specialty enzyme business (Study of genesis of bio-based fuel)

Non harmful effect, generation of new bio-based fuel

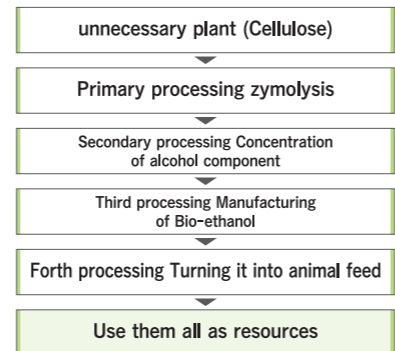
We study bio-based fuel generation; it has no conflict with Cellulose plant, and no use of any medicals, and decomposition of Special enzyme "MRE enzyme" "Symbiotic bacterial groups" and MRE enzyme, concentrated the cause of alcohol, we carried out the experiment of green energy with harmless.

By generate ethanol from waste plants like weed, it can save waste weight. To use bio ethanol from traditional plants and grains is an effective technology but at the same time, it also causes of run up of raw feedstock and harmful effect.

Our technology resolved that point.

In addition, manufacturing residue of ethanol, enzyme treatment again to create it to a safety feeds replacement "Enzymatic degradation feed", and it is possible to create strong individuals to Pathogen or growth of livestock. Enzyme is generally weak against heat but MRE enzyme has a good benefit to strong heat so it has positive potency for future. By using MRE enzyme and ferment and dissolve, it opens possibilities of bio-based fuel generation.

DATA Fujisawa-eco Co.,Ltd. General Affairs Department
4-7-1 Kubaruchuo Oita-shi Oita-ken 870-0325 (TEL) 097-593-4211 (FAX) 097-593-0094
(URL) <http://www.fujisawa-eco.co.jp> (mail) yano@fujisawa-eco.co.jp



P39 Mitsubishi Nagasaki Machinery MFG. Co., Ltd. Reducing System for Sewage Sludge

Latest Technology of recycle/reduce Sewage Sludge

This is a new technology which is the combination of hydrothermal and high temperature methane fermentation.

Place the continuance hydrothermal treatments into sewage sludge; hydrolyze them to increase the concentration of carboxylic acid, (mainly acetic acid.)

Our system convert this liquid solution to Bio gas (methane 65vol%, CO2 35vol%) only in 5days. This is 6times faster than the existing system. It also can be applied for organic slurry such as excreta sludge, cattle excreta, kitchen garbage, slaughter remains, foods after expiry date, irregularly sized vegetables and also for sewage sludge that

contains high concentrated radioactive substances.

<8 features for the product>

- (1) High speed of collecting methane gas.
- (2) Reduce the final dehydrate sludge 5 times lesser than that of existing system.
- (3) The remained sludge is able to reuse as fuel.
- (4) The remained sludge is able to reuse as high quality fertilizer.
- (5) There are no needs of fossil fuel because the collection of methane gas is used as operation heat.
- (6) Space-saving design.
- (7) Easy operation and management.
- (8) High operation rate

DATA Mitsubishi Nagasaki Machinery MFG. Co., Ltd. Environmental Plants Department Business Group
1-2-1 Fukahori-machi, Nagasaki City, Japan, 851-0301 (TEL) 095-871-6102 (FAX) 095-871-3288
(URL) <http://www.mnm.co.jp> (mail) webmaster@mnm.co.jp



P40 Astec irie Co., Ltd. Recycle system of etching liquid wastes (iron chloride)

Waste acid treatment technology with high purity iron powder

This is the 1st product in Japan that equips recycling function. Control the Oxidation-reduction potential with the high purity iron powder, and provide them the waste acid treatment in waste liquid that collects following substances; the valuable metals such as nickel and copper, impure substances such as chromium. We sell these recovered nickel and copper as steel feedstock. We defecate the iron dust and produce purity iron powder. It has high solidity from high carbon concentration, and high fluidity from its spherical shaped. Moreover, these produced iron chloride liquids

contains extremely few impure substances. It prevents etching spray nozzle to clog up, and enables easy maintenances. Clients can adjust its concentration level, and this system deals not only with etching, but also with flocculation agent for water treatment.

Company Achievements

Our products are widely used in SC makers, Steel Industries, public agencies and companies that deal sewage treatment, mainly in Western Japan. We also run business in Shanghai, China.

DATA Astec irie Co., Ltd. FM Operations Department, Business Group
1-1 Tobihata-cho, Tobata-ku, Kitakyushu-City, Fukuoka, Japan 804-0001 (located in Tobata Railway Center)
(TEL) 093-872-6403 (FAX) 093-872-6575 (URL) <http://www.astec-irie.co.jp> (mail) h-udou@astec-irie.co.jp



P41 ARC Co., Ltd. Concrete and asphalt recycling plant

Recycling facilities to promote recycle resources.

Aim to protect natural resources to promote recycling of resources; we operate recycling plants not only for lamps of concrete and asphalt, but also operating for recycling plant such as brick scraps and slags. We provide the appropriate recycling treatment as below...

The first fragmentation machine, "Jaw crusher S6N", this product break the large lamps into smaller pieces under 80mm lamps, and separate the metals from it. With the second fragmentation machine, "Impact crusher NCF-2B", it breaks the pieces into constant granules.

"Iron scrap separation machine (the first and second magnetic separator), removes the iron scraps from debris by strong magnetic power, "Screen BSR-4102" separates the scraps depends on granularity and reuse them as crashed rocks.

DATA ARC Co., Ltd.
1279-9 Seita Izuka-City, Fukuoka, Japan 820-1111 (TEL) 09496-2-2023 (FAX) 09496-6-3032
(mail) arc62016@mint.ocn.ne.jp



P42 ARC Co., Ltd. Approved Recycling Products (Recycle granularly controlled of crushed-stone, Recycling Crusher-run)

Contribute to reduction the usage of natural resources.

Since 1982, we have been working on developing ecological business. In the 90s, we developed Industrial-wastes-originated products such as "Deodorant for animals (DAM-100)", "pet excrement disposal (WAM-3)", and "Moisture adsorbent (WAM-1)". After 1993, we introduced and sold "Recycle granularly controlled of crushed-stone (RM-25)" as the regeneration of buildings byproducts certified products that is crashed in to pieces of maximum 25mm, and "Recycle Crusher Run (CR-40)", that is crashed below maximum of 40mm.

These products have huge effect on protecting natural resources.

DATA ARC Co., Ltd.
1279-9 Seita Izuka-City, Fukuoka, Japan 820-1111 (TEL) 09496-2-2023 (FAX) 09496-6-3032
(mail) arc62016@mint.ocn.ne.jp



P43 AMAMI Fashion Laboratory Co.,Ltd Amahada Skin Care Series

K-RIP Project(2007)

Get a beautiful skin with the essence of Shochu residue

Amami Brownsuger Shochu, the local specialty in Amami region is the product with high-value added developed by project of cooperation among industry, academia, and government, which production volume increases, and launched to solve the disposal problem of Moromi (residue of Shochu) in process.

It is the product which derives active substances such as Polyphenol from residue of brown suger Shochu, and effective to inhibit the formation melanin which causes of blotches, and also has positive and highly safe findings for cells.

"Amahada skin care Series is our original product makes from this essence. (Patent No.4889048)

We produce this Series with the opinions of general women monitors and producing thorough user's point of view.

This product retains your skins moisturizing and also protects from dryness and you can always use it with safety. To reuse of Shochu residue reduce environmental load.

This is not just local cosmetics; it is the real skin care series.

Company Achievements

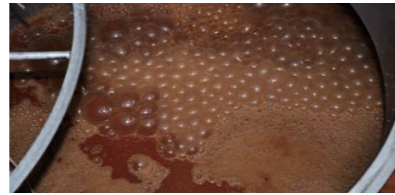
Year 2011 Won the Incentive award at "New local specialty products in Kagoshima" Shiroyama Kanko Hotel

DATA AMAMI Fashion Laboratory Co.,Ltd
269-3, Nasesado Amami-shi Kagosima-ken, 894-0773 (TEL) 0997-54-9181 (FAX) 0997-54-9182
(URL) <http://www.facebook.com/amami.AMAHADA> (mail) amami@luc-group.co.jp

IMAGE



▲ Amahada Skin Care Series(From the left, beauty essence, emulsion, skin toner)



▲ Fermenting Moromi of brown sugar lump Shochu (distilled spirit)

P44 OHASHI INC. Chipper Shredder Green Shark GS400D

Enable to one crush for max 20cm diameter trees or bamboos

Chipper Shredder Green Shark."GS400D" is a unique shredding mechanism of our original shredding technology. With only one primary shredding process, it can produce uniformly sized wood chips of less than 5mm.

It can strongly and smoothly handle bamboo trees with a maximum capacity of up to 20cm in diameter, including its branches and leaves.

It comes with a resizable screen and a detachable shredder knife that produces the uniformly shredded wooden chips, which can be efficiently used for Mulching materials, soil improvement material, pellet material and so on. Compared to the traditional Chipper Shredder, not only can it

significantly save cost and increase production, it can also be utilized widely for mulching in various areas.

Crawler self-propelled travel system makes the crushing operation easy.

For example, if you adopt the wooden tips as Mulching material around the construction site, transportation cost can be reduced.

It also has some specific functions such as, a foldable discharge conveyer, an easily maintained engine circumference, and it comes with a good size and weight to be loaded on 2t truck.

DATA OHASHI INC.
842-0065 401 Sakimura Chiyoda-machi Kanzaki-shi Saga JAPAN (TEL) 0952-44-3135 (FAX) 0952-44-3137
(URL) <http://www.ohashi-inc.com> (mail) eco@ohashi-inc.com

IMAGE



▲ Chipper Shredder Green Shark GS400D

P45 OHASHI INC. Fertilizer Sprayer "Rakurakumaku-chan MK03"

Man-powered Sprayer for Farming Communities

With the push of a hand, the fertilizer sprayer "Rakurakumaku-chan MK03" distributes fertilizer uniformly over a wide field area by means of rotary rotation. Customization according to the crop variety and season is also possible.

With the guide plate, adjustments can be made in range as well as inclination angle, such that the target areas can be configured easily.

As a chain drive is used, the driving force is directly taken from the tires. By using of unicycle-tires, it is enable to plow through mud easily and provide reliable distribution.

Other notable features include one-way clutch with durable wire, start/stop lever with lock, scalable

spreading adjustment lever- all designed with operability in mind.

In the case of any further fertilizer distribution needs, many options are available as well.

For example: Multi-sheet roller "Mekuru-kun", central furrow guide, extendable guide plate for different seed bed heights, fertilizer quantity-increase hopper, fertilizer granularity net. Please consider with each different purpose.

DATA OHASHI INC.
401 Sakimura Chiyoda-machi Kanzaki-shi Saga JAPAN, 842-0065 (TEL) 0952-44-3135 (FAX) 0952-44-3137
(URL) <http://www.ohashi-inc.com> (mail) eco@ohashi-inc.com

IMAGE



▲ Rakurakumaku-chan MK03

P46 Kagoshima Technology Licensing Organization Co.,Ltd. Calvo Board

Environmental-friendly Calvo Board

This product uses Kyushu local bamboo charcoal as main materials, sized: 303mm × 606mm × 6mm (for room structure).

We had worked on this development for over 5years, in cooperate with Industry, academia and government, especially the honorable Professor in Kagoshima University, Mr. Shinsuke Fujita (current president of our company) played a main role in developing this product.(for it). We only use bamboo charcoal and pulpwood as resources, and never use any chemical material at all such as binder, this is an eco-friendly product. There are many minute holes in Bamboo charcoals that control humidity, and adsorb the bad smells.

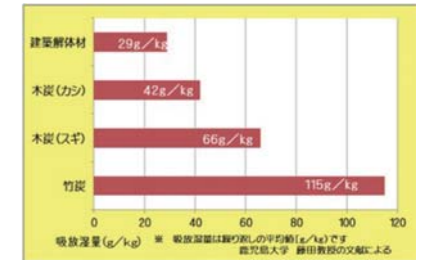
Compared to other products, we improved more than 50% in decreasing humidity, and 20% in discharging humidity.

As for electromagnet shield factor, we achieved more than 50% of improvement.

Moreover, it also adsorbs toxic chemical substances such as formaldehyde, and reliefs sick building syndromes. Through the brain waves measuring system proved that our products improve the indoor comfort.

DATA Kagoshima Technology Licensing Organization Co.,Ltd. Research and development Department
1-21-40 Kohrimoto Kagoshima-city, Kagoshima, Japan, 890-0065 (Located in Kagoshima University)
(TEL) 099-284-1631 (FAX) 099-284-1632 (URL) <http://www.ktlo.co.jp/> (mail) info@ktlo.co.jp

IMAGE



P47 KUMASEI Co., Ltd. Environmental Food Product Recycle Plant "Bio Plaza"

Recycle the disposable food to 100% organic fertilizer

We did not have any other way but burning or landfill collected food waste before. It creates problems such as increasing disposal cost and shortage of landfill site as a result. Our "Bio plaza Okishin" and "Bio plaza Nagoya" allow us to reproduce fertilizer from food waste without burning or landfill. It will create a circle of recycling when the crops which grew on a field with this fertilizer has harvested. Each building equipped with deodorizer, so there is no odor outside. Also, it used a system which increase temperature with solar heat and does not use any electric energy.

Company Achievements

"Bio plaza Okishin" process 108 tons of food waste recycle and 215 tons in "Bio plaza Nagoya".

DATA KUMASEI Co., Ltd.
1000-5 Ikegami-cho, Kumamoto City 860-0048 (TEL) 096-325-5353 (FAX) 096-322-1140
(URL) <http://www.kumasei.com/> (mail) info@kumasei.com

IMAGE



▲ BIO PLAZA OKISHIN (Okishin-machi, Nishi-ku, Kumamoto city)



▲ BIO PLAZA NAGOYA (Shiomi-cho, Minato-ku, Nagoya city)

P48 KUMASEI Co., Ltd. Organic Fertilizer "Green Supple"

Organic Fertilizer makes Ideal Soil

"Organic fertilizer green supple" is eco and environment friendly fertilizer which has been reproduced in our recycling system.

It contains various fertilizer components, also manganese (magnesia), zinc, iron, boric acid which are essential for growth of plants.

There are various effective microorganisms which will purify soil and make it richer. This will decrease the incidence of diseases and negative chain reactions.

It will take two to eight weeks to create ideal soil with green supple.

It will create a space between soil particles. That makes soil soft and fluffy, so root can grow easily.

People who use organic fertilizer love our eco-friendly product.

DATA KUMASEI Co., Ltd.
1000-5 Ikegami-cho, Kumamoto City 860-0048 (TEL) 096-325-5353 (FAX) 096-322-1140
(URL) <http://www.kumasei.com/> (mail) info@kumasei.com

IMAGE



▲ Commercialized GREEN SUPPLE



▲ Popular pellet (granular) organic fertilizer

P49 Kira SEISHO Co., Ltd.

Use of compost fermentation heat with unused biomass(Unused waste)

Create energy with intense heat of fermentation

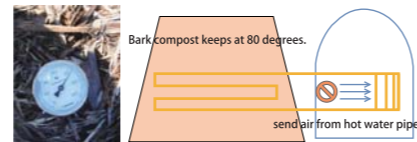
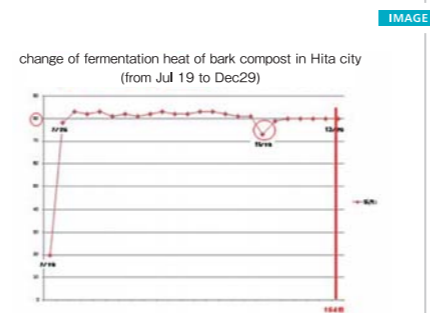
We are researching about use of fermentation heat which has been generated when we composting unused waste (bark, livestock waste, food waste, etc), as a heat source. When we composting waste, it creates over 80°C fermentation heat for over four months (if it is bark, over six months) without stirring. We are studying how to use the fermentation heat as a heat source (energy).

By mixing particular bacterium with unused biomass (forestry waste, livestock waste, food waste) and piling them up, unused biomass will keep 80 ~ 100°C for a long period without stirring (usually you need to stir). We are trying to collect and use the heat for greenhouse, floor heating,

melting snow.

If we succeed in using this energy, we could reduce the use of fossil fuel. Also, after collected fermentation heat, we can use compost as a soil improvement material for agriculture. In addition, if we scatter it to soil, soil will be able to keep carbon for a long period and it will allow us to reduce carbon dioxide emission.

DATA Kira SEISHO Co., Ltd.
2-37-14-605 Ishimaru Nishi-ku Fukuoka City, Fukuoka JAPAN (TEL) 080-3944-9981 (FAX) 092-882-3968 (mail) syobi66@hotmail.com



▲ Heating using warm water boiled by fermentation

P50 Knowledge Management Technology co.,ltd ■ Kyusyu Environmental Business Award(2009)

Micro Eraser

Delete data, safe recycling

K.M Technology Co.,Ltd. Focus on the problems in semiconductor plants such as toxic emission from the plants. We consider it is the most important matter to save the environment.

Fault wafers and silicon scraps discharged from the process of semiconductor production, can be reused as materials for Solar battery.

Silicon circuit contains certain data which is difficult to reuse.

We used to break them into pieces and dispose as metal scraps and cannot be reused.

We produced new product, "Micro Eraser" to solve this problem. This product enables to erase the whole data in circuits on site.

After erasing the confidential data completely, we collect the circuits so we can reuse themes materials for solar batteries.

Once the data has been completely deleted from the silicon circuit, we reuse them as materials for solar batteries.

We have great reputation in this industry and holds great evaluation of performance.

We have 7 offices in Japan and put every effort on developing our products.



▲ Micro Eraser

DATA Knowledge Management Technology co.,ltd
147-39 Masuragahara-machi, Omura City, Nagasaki, Japan 856-0022 (TEL) 0957-48-5808 (FAX) 0957-48-5810 (URL) http://www.kmtech.jp (mail)t-takata@kmtech.jp

P51 Kowa Seiko Co.,Ltd.

Using "chloride volatile method" to recycle waste

Top-class chloric waste treatment technology in Japan

Applying chloric agents in Oxidation roasting mine (pellets), after the process of kneading, granulation, and drying. Firing again up to 1,250°C by rotary kiln. Volatilize the nonferrous metals in pellets (Cu, Zn, Pb, Au, Ag, etc.) as chloride gas, recover them by wet collecting.

The pellets that isolated from nonferrous metals are iron oxides; we reuse them as materials for Steel Blast Furnace. These series of process are our new technology, chloride volatile method.

We regard the industrial wastes recycle management as one of our main business, promote the recycling of resources, such as producing the material for Steel Blast Furnace, and recover the

nonferrous metals. We deal 200,000t of industrial wastes per year; we produced top-class results as chloric waste treatment in Japan. We also deal the de-toxify of following; POP s waste agricultural chemicals, dioxin wastes, molten fly ash.

We approved by the authorization of minister for detoxification trace for PCB-contaminated waste electrical equipment, it enables us to deal further objects for the treatments.

<Products per month>

The pellets for steel blast furnace (steel materials); 20,000 t

The recovered nonferrous metals; 250t

Iron oxide powder for cement raw iron; 3,000t



DATA Kowa Seiko Co.,Ltd. Development Department
46-93 Nakabaru Tobataku, Kitakyushu-City, Fukuoka, Japan 804-0002 (TEL) 093-872-5155 (FAX) 093-882-3500 (URL) http://www.kowa-seiko.co.jp

P52 SANKEN Engineering Co., Ltd.

1-shaft crusher(SC series), and 2-shaft crusher(SET series)

Crushing with the latest Control Technology

The 1-shaft crusher (SC series) and the 2-shaft crusher (SET series) contains a unique inverter which allows instant computerized detection of the load on the electric motor.

With rotational speed decreased and torque increased, the fragmentation rate is increased. In addition, as the crusher surfaces move forwards/backwards in response to the load, mechanical breakdown is minimized. The 1-shaft crusher is intended for crushing flexible container packs, or "soft-types". The 2-shaft crusher has been demonstrated to crush materials such as bedding and carpets.

A major feature is that difficult materials such as

hard combustible items can be crushed with great efficiency. The product boasts excellent performance in terms of operating and running costs. As well, the quiet electric motor allows for cheaper energy costs. The product has been built with controls so that probability of mechanical failure is greatly minimal.

Company Achievements

Around 350 motors have been sold of all models from 5.5KW to 90KW.

DATA SANKEN Engineering Co., Ltd. Environmental Department
501-1 Nanatoma Oaza Onaka Sasaguri-cho Kasuya-gun Fukuoka, Japan 811-2413 (TEL) 092-957-4380 (FAX) 092-947-1379 (URL) http://www.sanken-eng.co.jp (mail) Kankyo@sanken-eng.com



▲ Single axis crusher SC-100



▲ Double axes crusher SET-202

P53 SANKEN Engineering Co., Ltd.

Two-axle grinding pulverizer "RUB Machine"

It can even separate even bamboo fibers

The "RUB Machine" is a two-axle grinding pulverizer that processes products, with the force of the rotation of two screws, into fine fibrous powder. The computer-controlled motor instantly corrects and counteracts to changes to the load, increasing processing efficiency and minimizing machine failure. The effect can especially seen in materials that are fibrous such as bamboo, pruned trees, grass, water plants, and other raw waste- the processed material promotes rate of microbe growth considerably. The machine has an electric motor and will therefore need fewer repairs, is safe, and has reduced noise. It is an energy conserver.

Because the bamboo from the RUB Machine is

crushed to a degree such that the microbes within can multiply, the powder, a short time after the process and without the use of compost, can be used as a soil conditioner. As well, it is also increasingly used as a base for raw recycling, as it has a deodorizing effect. As it also has excellent fermentation ability, it can also be used in silage making.

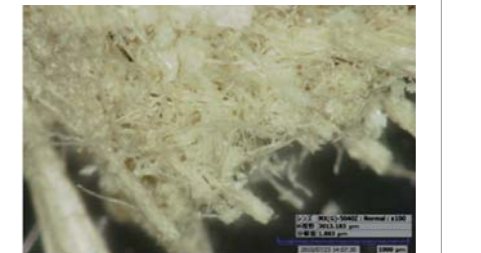
Company Achievements

We supply to private enterprises and increasingly to local governments. We are suppliers for gas power generation in sheds from trees/grass from the outlying islands, and recently from radishes as well. You can expect many things from us in the future.

DATA SANKEN Engineering Co., Ltd. Environmental Department
501-1 Nanatoma Oaza Onaka Sasaguri-cho Kasuya-gun Fukuoka, Japan 811-2413 (TEL) 092-957-4380 (FAX) 092-947-1379 (URL) http://www.sanken-eng.co.jp (mail) Kankyo@sanken-eng.com



▲ RUB-machine SRM-50



▲ The enlarged photo of crushed bamboo

P54 SANKEN Engineering Co., Ltd.

Living sensors "Killifish Eco-monitors" BS2010

Continuously monitoring water safety Killifish

Living sensors "Killifish Eco-monitors" are observation devices that can be used to monitor places such as factory drainage systems, whereby negative influences in the environments are automatically displayed through chemicals. In the device, lavender jobfish are bred and raised and their behaviour observed by camera. The camera images are then analyzed and in case of irregularities, an alarm is sounded.

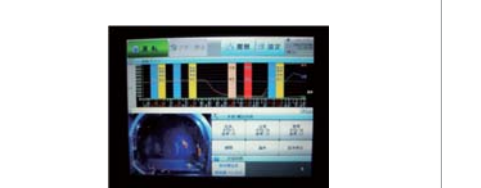
Device specifications: External dimensions=length600xwidth600xheight1450 in a compact form. Data recording component, uninterrupted power source, network connection. A touch panel PC is included to allow the user to easily set and change

environment conditions. The recorded data can be analyzed and displayed on PC, and saved onto external memory. To complement the traditional methods of analyzing specific chemicals, complex toxins are also extensively supported. As well the care of the fish and the analysis can be performed by individuals that do not have technical knowledge of this field.

Company Achievements

Currently operating in around 80 public water purification plants around the country (includes the BS2000A pre-model change)

DATA SANKEN Engineering Co., Ltd. Environmental Department
501-1 Nanatoma Oaza Onaka Sasaguri-cho Kasuya-gun Fukuoka, Japan 811-2413 (TEL) 092-957-4380 (FAX) 092-947-1379 (URL) http://www.sanken-eng.co.jp (mail) Kankyo@sanken-eng.com



P55 Saimu Corporation Plastic-raman recognition machine

K-RIP Project(2009)

IMAGE

Recognize the all component, color of waste plastic instantly

Plastic-raman recognition machine is the first product which analytic principle at a laboratory level (Raman Spectroscopy) applies to discrimination of waste plastic.

Comparing to old ways such as Specific gravity method and Reflection absorption method, it can accurately and quickly discriminate PS・AS・ABS similar plastics, combined materials like PC・ABS.

As a big feature, it can judge kind, additionally inclusion of additive agent (including Brominated flame retardants) and degradation.

And also able to discern color like black・transparent, thin thing like a film.

With these high-tech skills, you can discern plastics of various kinds, color and shapes in your own company and protect security.

Our product is form as compact-shaped and we have two types, tabletop and on hand.

You just hit a target with a laser beam so idiot proof device. We have two colors, white and black and white.



▲ Plastic-raman recognition machine

DATA Saimu Corporation Head Office/Plant
430-42 Yoshikuma Keisen-mach Kama-gun Fukuoka, Japan, 820-0609 (TEL) 0948-20-2081
(FAX) 0948-65-3795 (URL) <http://akane.saimu-net.ne.jp/index.html> (mail) yasuo@saimu-net.ne.jp

P56 Saimu Corporation Personal computer・OA device recycle

Data complete elimination, Safety recycle

From the point of views such as personal information protection and confidential secrets, PC recycle has a big problem to complete elimination of remaining data.

Our way of data erasing of PC is overwriting data space in hard disc and unable to restore them with any mode of analysis by a special hard disc.

It has technical know-how and can erase data of 366 of PC at the same time.

And we can sell operable computers as used ones after erasing data.

We scrap unusable ones and recycle those components and materials.

And if we need to destroy disc itself, we do though the process "Magnetic breakdown", "Physical breakdown" to achieve a perfect process.



▲ Sorting of plastic

DATA Saimu Corporation Head Office/Plant
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P57 Takachiho Shirasu Co., Ltd. Utilization System for Rainwater; "Mizugame"

Making use of natural resources in daily life

Rainwater doesn't affect by ground conditions, and contains less solute material.

It is natural water that easy to process filtering and purify, also no need of chemical treatments.

The purified rainwater is soft water with high quality, that has good absorb-ability, and can be used as daily life water.

Utilization System for Rainwater "Mizugame" collects the rainwater from roof top, run them from gutters to filter, and keep in a large water tank in the ground.

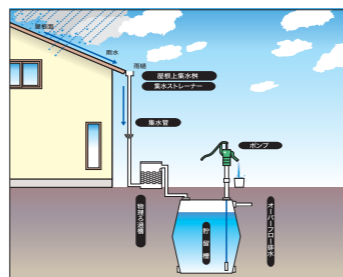
Clients can adjust the volume of water from 1,500-1,800L depends on the number of users and use.

Filtered water can be used for out-door, such as car-washing, watering and gardening, also enable to use for toilet, and washing machine, and it helped users to save water expenses.

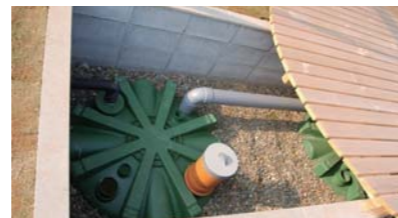
Moreover, filtered water comes handy to use in toilet or washing machine, in the case of water outage, or water supply restriction by disaster.

Company Achievements

Through building construction offices, we provide products mainly in single-family houses in nationwide.



▲ Water available as emergency use



▲ It saves water for 250 times of flush toilet at a tank

DATA Takachiho Shirasu Co., Ltd.
1662 Naka-Kirishima Yamada-machi, Miyakonojo City, Miyazaki, Japan 889-4602. (Sales Department: 9F Yokohama Land mark tower, 2-2-1 Minatomirai Nishi-ku, Yokohama-City, Kanagawa, Japan.) (TEL) 0120-011-535 (FAX) 0120-998-084 (URL) <http://www.takachiho-shirasu.co.jp/> (mail) info@takachiho-shirasu.co.jp

P58 NPO The Jun-namaken FUKUOKA Cardboard composter

Home Unit Happy Circulation Life

Cardboard composting is a method to improve soil quality by using kitchen scraps.

You can easily make compost in your house without strong smells, and it can be used in narrow spaces such as balcony.

We offer Composting Class for beginners, follow-up lectures, step-up Lectures and also Consultation meetings, instructed by certified Instructors.

According to our "Cardboard Composting Advisor Recognition System", since 2005 we have trained and certified Advisers who have appropriate coaching skills in the community.

We have "A Qualification Certification System", including Beginner, Intermediate, Advanced and

Trainer certifications, allowing the Advisers spread their know-how to the community.

Through the Local Regeneration Business Project for the baby boom generation by METI, Vegetable Gardening Lecture "Half-farmer Urbanites lecture", and Slow Food Class, our network is now sprawling.



▲ Introduction lecture of "Compost in a cardboard box"

DATA NPO The Jun-namaken FUKUOKA
4-4-27, Mitoma, Higashi-ku, Fukuoka-City, 811-0201 (TEL) 092-405-5217 (FAX) 092-405-5951
(URL) <http://www.jun-namaken.com/index.html> (mail) jsk@jun-namaken.com

P59 NPO The Jun-namaken FUKUOKA Kids KuruKuru Village

The Even for kids to learn the recycle society

Kids KuruKuru Village is our own event that enables Kids (4-12years old) to experience many different jobs and help them understanding the society mechanism and recycling.

In KuruKuru Village, kids take on a job at village office, super market, recycle plant and so on. Their wages earned through their work can be used for shopping or playing games.

They can learn the relationship between "people", "products" "money" and the "importance of recycling" "with fun. We have holding this event since 2002.

And now, more than 700 of kids attend to the event per a day.

Kids who have enjoyed the event and attend to it constantly, when they grow up, they attend it as the event staff.

During the event, there are hundreds of staffs to supervise the kids in order to let them play happily and safely.

We now have cooperated with many different companies and associations, thus we have 20 different types of work places and each of them allowing kids to experience different kinds of work.



▲ The scene of "Kodomo kurukuru mura(Kids recycling village)"

DATA NPO The Jun-namaken FUKUOKA
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(URL) <http://www.jun-namaken.com/index2.html> (mail) jsk@jun-namaken.com

P60 NPO The Jun-namaken FUKUOKA Small Circulation Farm

Have a Good Circulation of Life at Where You Live

"Small circulation farm" is a commitment that our organization has begun since2009.

We expect the benefit of the good life having compost in a cardboard box to be extended to local community. In addition, we strive to circulate the benefit within walking distance.

It is an attempt to make a circle with residents, farmers, restaurant, shop, company, and Non-profit organization by offering their wisdom and skill to each other. The purpose of the circle is to offer everyone a place to participate in with smile and have them live straight (Jimichi) at bare earth (Jibeta) (Jimichi+Jibeta)Betta Life.We have started this activity Have a good life with small circulation since 2010 to

contribute to a recycling-oriented society by not let it end just a commitment.The compost made in a cardboard box is offered to farmers. And we can enjoy the local vegetables at ease at a bakery and restaurant. The idea that local resources circulation leads to safe food spreads and produces sympathy with "the taste of vegetables".

Company Achievements

Small circulation farm has started at Mitoma, Higashi-ku, Fukuoka city where is the base of this organization, Miwadaï (Yamazaki Shop), Otake (produce department), Wajirogaoka (Restaurant), Kasuga city (restaurant).



▲ The scene of "Small circulation farm" activity.

DATA NPO The Jun-namaken FUKUOKA
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(URL) <http://www.jun-namaken.com/index2.html> (mail) jsk@jun-namaken.com

P61 TAKESHIMA CO.,LTD Rainwater Utilization System "Ametto-kun"

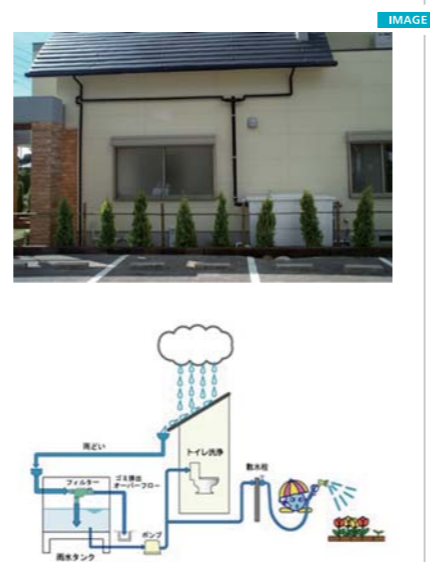
Use Rainwater Effectively for Home Use

Rainwater is a familiar superior resource in terms of low cost of water treatment, not taking any cost of transportation and storage because it is locally available. "Ametto-kun" is an efficient rainwater utilization system for home use and its rainwater storage tank is built-in a rainwater filter. The stored rainwater can be used for sprinkling water over the garden, car washing and a wash room by using a conveying pump. As the flow of rainwater, (1)The rainwater that fell on the roof goes through a gutter. (2)It also goes through a filter (garbage which is more than 0.4mm is removed in this process) and is stored to a rainwater tank. The conveying pump activates

when you use a washroom and a lawn faucet and the stored rainwater is supplied to various places. As a merit of our product, it plays a role as a "small dam" by storing rainwater at home and reduces rainwater which goes to a sewage system. In addition, by using the water for miscellaneous to sprinkling water, it saves water.

Company Achievements

At present, it has been adopted by housing complex and it is provided with about 60 houses as standard equipment. It is adopted this rainwater utilization system in public facilities as well.



DATA TAKESHIMA CO.,LTD 2nd Sales Department
1-1-28, Tomachi, Nagasaki-shi, Nagasaki-ken, 850-0952 (TEL) 095-878-5323 (FAX) 095-879-0739
(URL) <http://www.takesima.co.jp> (mail) info@takesima.co.jp

P62 TOTO Co., Ltd. Air-In Shower

"Water conservation" and "Comfort" with the Power of Air

As the top maker of water equipment, TOTO Co., Ltd launched the the "TOTO GREEN CHALLENGE" in April 2010 to dramatically accelerate traditional environmental practices towards a new vision. While corporate activities must be re-verified, we are committed to strict targets until the year 2017.Among the targets, the "Air-In Shower" conserves 35% more water (compared to our other products) while offering a comfortable bathing experience. Our new technology saturates the water with air, such that each individual drop is increased in size.Such an environmentally friendly and great-feeling shower has never existed until now.

Compared to the traditional shower, CO₂ is reduced by about 143kg, with an annual cost cut of about 13,200yen. Which include the water service fee is about 4,556 yen and the gas fee is about 8,705 yen. Energy consumption calculated based "Standards of Judgment for Residential Construction Clients" (Tokyo in reference to sections "Energy Reduction of Hot-Water Supply Systems as Primary Energy Source")



▲ Air-In Shower



DATA TOTO Co., Ltd Head Office
2-1-1 Nakashima Kita-ku Kokura Kitakyushu-shi Fukuoka, Japan 802-8601
(TEL) 093-951-2052 (FAX) 093-951-2718 (URL) <http://www.toto.co.jp> (mail) kaori.mukai@jp.toto.com

P63 TOTO Co., Ltd. Neorest AH/RH

Stylish and Eco, a Toilet on the Cutting Edge

TOTO Co., Ltd, a company that shows initiative through its products, is now promoting "Water equipment with CO₂ reduction" and "Air purification with Hydrotec". Our vision of the future is simple - to be involved in the entirety of the housing industry and spread our activities on a global scale. The Neorest AH/RH is:
(1)Hygienic - Effortless sterilization with the power of bacterial-eliminating water. (2) Environmentally friendly - conserves water and electricity. (3)Comfortable - choose from four different wash options. (4)Effortless - easy cleaning and repair. The four characteristic features above describe our

new tank-less toilet. 99% bacteria eliminating "clean sterilized water", clear up to the nano-level, long-lasting hygiene with "Sefiontekt", minimal water consumption while providing thorough "tornado cleaning" - with our best knowledge and skills comes a product with the utmost concern for the environment.



▲ (Back)NEOREST AH (This side) NEOREST RH

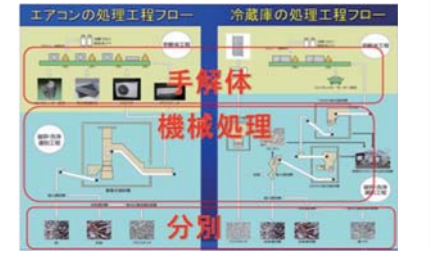
DATA TOTO Co., Ltd Head Office
2-1-1 Nakashima Kita-ku Kokura Kitakyushu-shi Fukuoka, Japan 802-8601
(TEL) 093-951-2052 (FAX) 093-951-2718 (URL) <http://www.toto.co.jp> (mail) kaori.mukai@jp.toto.com

P64 Nishinohon Kaden Recycle Corporation Remake Raw Material from Plastic Included in Household Electrical Appliances

Recycle necessary things from Waste Household Electrical Appliances

Our company was established as a recycling company for used products invested by 9 domestic appliance makers. The purpose of the establishment was to accommodate with [Home Appliance Recycling Law] enforced in April 2001 for the first time in the world.We play 2 parts in [recycling plant] where dismantle home appliances for recycling and [designated disposal place] of waste household electrical appliances. To meet the needs of expanding recycling of plastics, we sort out the plastic discharged at the recycling of waste household electrical appliances (dismantling by hand => crusher =>wind force/magnetic force/ sorting of non-ferrous) by gravity

concentration. We make raw material of plastic which is equivalent to single raw material. By supplying the raw materials to manufacturers with low price, we promote closed recycling of home appliances. The process of sorting of single plastic and mixed plastic by dismantling is 1.fragmentation (less than 50mm) 2. Trammel (removal of dust) 3.primary wet process of gravity concentration 4. Fragmentation of floating plastic (less than 20mm) 5.removal of dust by dewatering and wind force 6.secondary wet process of gravity concentration The amount of emission of PP (polypropylene) is 1,500 t per a year.



▲ Sorting and collecting of mixed plastic

DATA Nishinohon Kaden Recycle Corporation Engineering・Planning Group
1-62, Hibiki-machi, Wakamatsu-ku, Kitakyushu-shi, Fukuoka-ken, 808-0021 (TEL) 093-752-2424
(FAX) 093-752-2425 (URL) <http://www.nkrcc.co.jp> (mail) atushi.hoshino@nkrcc.co.jp

P65 Nippon Magnetic Dressing Co.,Ltd. Steel board rolling oil, solution recycling device "HIGAMS"

The realization of the removal of ferrous particles by high magnetic field and saving resources.

HIGAMS is the device to remove the ferrous particles from the used coolant and alkaline solutions in the cleaning line in iron works. HIGAMS stands for High Gauss Magnetic Separator. It has three particular features: (1)The high removal ratio and able to remove of fine ferrous particles, (2)Able to reduce the rolling oil usage because of the efficient system, and (3)Fully automated and maintenance free. There are many orders from not only domestic but also overseas. The process is that making a strong magnetic field into a tube having ferrous balls inside, after magnetization, removes the ferrous particles through the process liquid.

Reducing consumption rate of oil and solution save resources. Also reducing disposal volume can have small influence on environment. The maintenance of filter is easy for automated cleaning. The filter media is made of iron ball, so no worry about deterioration or degeneration. It can be used maximum of three years.

Company Achievements

Domestic major steel makers 6 companies, 17 machines, Overseas major steel makers 7 companies, 17 machines



▲ Rolling oil usage



▲ Alkaline solutions usage

DATA Nippon Magnetic Dressing Co.,Ltd. General Planning and Policy Department
3-6-42 Bashaku Kokurakita-ku Kitakyushu-shi Fukuoka, Japan 802-0077 (TEL) 093-521-4400
(FAX) 093-521-4167 (URL) <http://www.nmd.co.jp> (mail) wakizono@nmd.co.jp

P66 Marine Techno Research Co.,Ltd. Jet type glidants formula water purification device "Jet Streamer"

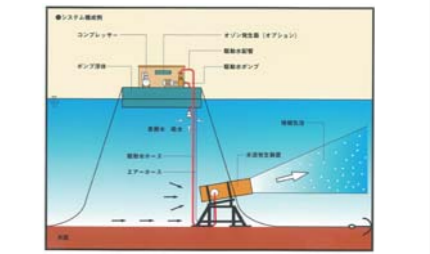
Promote the circulation in lakes and marshes; solve the oxygen deficient and water blooms problems.

The water pollution problems in closed areas, such as lakes and marshes, reservoir, regulating reservoir, estuary weir, and enclosed bay, are concerned. We focus on water pollution issues in not circulated areas such as lakes and marshes, reservoir. Our new product is set on such area and promoting for fluent circulation of water. It solves the oxygen deficient and organic pollution by ozone aeration, also reduces COD and bad smells. It improve the sediment and increase creatures in water, also reduces water blooms by ultrasonic generator in the area that water bloom have been discovered. Jet Streamer consists of water streamer and driving system that provides powered water, ozone air, and electricity.

We don't use any chemicals. This product has great durability because there is no roter or mechanical sliding parts. It agitate a volume of water with low energy, can be installed from less than 1m to more than 10m under water and improve water condition in wide area.

Company Achievements

It's already registered MLIT, NETIS, and ARIC, and used in public offices and water management company in Iwate, Ibaragi, Saitama, Tokyo, Kanagawa, Mie, Hyogo, Fukuoka, Nagasaki. In overseas, it's adopted in Mexico, the U.S.A, Korea, China and countries in Southeast Asia.



DATA Marine Techno Research Co.,Ltd. Business Technology Department
22 Furu-machi Nagasaki-City, Nagasaki, Japan 850-0026 (TEL) 095-821-8549 (FAX) 095-821-8671
(URL) <http://www.marin-g.co.jp> (mail) info@marin-g.co.jp

P67 Mawatari Syokai, Inc. Eco-slag Concrete

Achieving Zero emission with Eco-slag Concrete

Our company manufactures and sales architectural, civil engineering concrete products and roofing mainly in Saga prefecture.

We established a society for the study of melted slag with two companies in the same trade in Saga prefecture for the efficient use of wastes in the 15th year of Heisei, 2003. Moreover, we collaborated with Saga University and Saga Prefectural Industrial Technology Center to develop a concrete product which is for local production for local consumption based on zero emission. Our product, "Eco-slag concrete" is a concrete product manufactured by Eco-slag discharged in Saga prefecture.

It is helpful in utilizing resources discharged in local area and becomes regional self-contained principle of zero emissions.

"Eco-slag concrete" conforms to the quality standards of fine aggregate for concrete. It also conforms to the environmental quality standard and an examination of Inclusion and elution of heavy metals made and taken by Japanese Government. The strength and durability of Eco-slag concrete is equivalent to ordinary concrete products. Our product was registered as one of the recycled products of Saga Prefecture in the 15th year of Heisei, 2005 and it has been used at construction fields both public and private engineering work.

DATA Mawatari Syokai, Inc. Concrete Products Department
3498-2, Oaza amagu, Asahi-cho, Takeo-shi, Saga-ken, 843-0001 (TEL) 0954-23-4145 (FAX) 0954-23-1775
(URL) <http://www.mawatari-s.co.jp/> (mail) saito-hide@mawatari-s.co.jp



▲ Box culvert shaped side ditch



▲ RV adjustable inclination side ditch

P70 Kitakyushu International Techno-cooperative Association Promote International cooperation of technology for sustainable development

Harmony of industrial development and environmental conservation

In 1980, we started the antecedent company, "Kitakyushu International Training Association", with aim to inherit the industrial technology from Kitakyushu area to foreign countries. In 1992, we have changed our company name as "Kitakyushu International Techno-cooperative Association" to promote cooperation of international technology. We provide group or individual trainings of technology and environmental fields, such as accepted training, dispatch of specialists, providing research and information services, technology exchange, consulting, and international goodwill exchange etc. We cooperate with "Kitakyushu Asian Center of for Low Carbon Society", and take the roll of human resource development, as well as through active moving over

Asian district, in order to secure the social regulation of Environmental technology or Environmental preservation, and expand our support. In particular, research services related in international technology cooperation, support service for development plan, collecting and providing related information etc.

Company Achievements

Our services has earned cooperate with more than 200 of companies, University, and administrative organs. Especially in accepted training field, we have provided in 133 countries, to 5207 people. At present, we are constructing global networks through returning training members.

DATA Kitakyushu International Techno-cooperative Association KITA Environmental Cooperation Center
1-1-1 Hirano Yahatahigashi-ku, Kitakyushu-City, Fukuoka, Japan 805-0062 (TEL) 093-662-7770
(FAX) 093-662-7782 (URL) <http://www.kita.or.jp> (mail) tenso2f@kita.or.jp



P68 Meiho Eco Techno Ltd. Swiveling biomass combustion furnace

Consecutive combustion system for compost

This is a relatively small (same size as drum can), simple structured biomass combustion furnace.

The driving parts consist of a blower and auxiliary burner. Heating-oil burner is needed only at beginning where starting up the furnace, it is no longer needed after this starting up of furnace as it burns compost by itself. We also have volumetric feeder which is able to correspond to various fuel.

The furnace is double layered with inner and outer cylinder. Inject the fuels into the furnace by air conveying and fuels rotating into a high temperature outer layer of inner cylinder. Even though the fuel contains moisture, it will be dried out in the process and Gas-phase ignition at the bottom of furnace, then thermally decomposed

before combusted in inner cylinder and then fuels will be exhausted. This product reuses the organic waste as fuels on the site, and it enables to cut off the expense of waste disposal and fuel. At the poultry farming and cattle breeding, it prevents the accumulated composition, and decrease the cost and risk of epidemics.

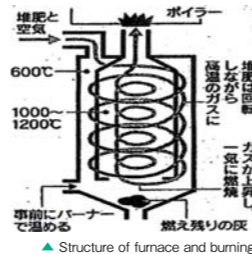
Company Achievements

Our products are installed in composting plants for SDR (Stillage Distillation Residues) methana fermentation residue. It reuses composts as fuels and increases the temperature of composting process. Moreover, we are involving these products as a source of heat for poultry and cattle breeding management.

DATA Meiho Eco Techno Ltd.
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(URL) <http://meiho.main.jp> (mail) info@meiho.main.jp



▲ Oil drum size combustion furnace



▲ Structure of furnace and burning

P71 Kyowakiden Industry Co.,Ltd M-one FIELDMASTER

ASP server, cost reduction with packet communication

M-one FIELDMASTER is a remote monitoring system which can unified at a low price to communicate data of widely scattered monitored facilities to server by packet transmission system and then deliver monitored data to the internet. This proprietary controller achieved the unification of monitored the facilities, to control and to communicate.

This system is able to monitored in the target mobile phone and PC via web. Our company have proven the system was constructed which can manage facilities scattered throughout the wide area by centralized system for manhole pump M-ONE; we are expanding it to many fields with

our gained knowledge. Traditional expensive dedicated servers are no-need any more, by adopting ASP server method. With the running cost you only, it is able to achieve high reliability and high-performance operation of the facility. By using packet communication easily to reduce line cost and to add monitoring target facilities. Also Information usage fee is fixed so it is able to be deal with no anxiety.

DATA Kyowakiden Industry Co.,Ltd Overseas business department
376-5 Kururigou Nishisonogigun Togituchou, Nagasaki JAPAN, 851-2107 (TEL) 095-882-0088
(FAX) 095-882-7240 (URL) <http://www.kyowa-kk.co.jp> (mail) takatoshis@kyowa-kk.co.jp



P69 Yoshikawa Kogyo Co.,Ltd Disassembly line of ELV (End of Life Vehicles)

95% recycling rate, achieve ASR zero incidence

Our company has done established the process breaking down the traditional concept of technology' s with working on proper technology of dismantling of ELV from 1994.

From 1997 we have Expand the business and make introducing same line of engineering is possible.

For example though the process which is arranged in a straight line we have realized these 5 which are (1)To collect Non-ferrous metal parts (like wiring or motors) and make some iron scrap which has less amount of copper. (2) Preservation of the environment by doing thorough recovery of environmental pollutants. (3)Ease of recycling of valuable metals by collect parts which dismantling

by hand. (4)To do process of ELV press without occur ASR (Automobile Shredder Residue). (5)To make efficient and reduce construction cost by arranged dismantling in a straight line.

The effect is achieve a high recycling rate (more than 95%) by thoroughly collect parts which can recycle and renewable and then recycling them with excellent resource recycling process. Also there is achieving occurrence of 0% ASP by doing shredder-less by using environmental conservation type of process.

DATA Yoshikawa Kogyo Co.,Ltd Sales Strategic Planning Division
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(FAX) 093-661-3220 (URL) <http://www.ykc.co.jp> (mail) honsya-eigy@ykc.co.jp



▲ Process of dismantling



▲ ELV (End of Life Vehicle) cut into small cube size

P72 Kyowakiden Industry Co.,Ltd Unmanned transport system KE-SS200

Unmanned carts which can travel on the best route

KE-SS200 is an automatic carry system which can move carts by unmanned. Unlike conventional system, it is no need to marker or put the rail on the floor, in order to secure the passage and also route changing is much easier.

KE-SS200 is able to measure the absolute place on real time from standard mark which pasted on the indoor ceiling of the factory and ware house, also it is able to travel unmanned on the route which made from this measurement system. Certainly, it is able to change the route based on the production line.

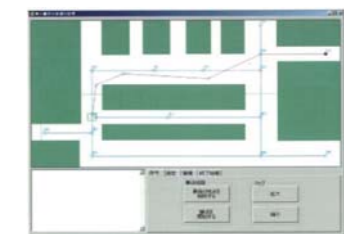
"Crash avoidance system" which able to speed down for unexpected man or objects, "Remote

calls" system which is able to call out by using of the specific remote control can be added in optional. By place of small and compact lithium battery which is 80% smaller and lighter than existing lead-acid battery. With 2hours charging time they can keep 8hours continuous operating time.

Company Achievements

This product was developed in 2011 and on sale from 2012. Now we are getting many deals of that.

DATA Kyowakiden Industry Co.,Ltd Overseas business department
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(FAX) 095-882-7240 (URL) <http://www.kyowa-kk.co.jp> (mail) takatoshis@kyowa-kk.co.jp



P73 Nodaichi Denshi Co.,Ltd. Water quality analysis

Provide safety and security with reliable analysis

Our company does wide range of business analysis such as industrial wastewater and environmental water including water quality tasting of tap water, exhaust gas, ambient air, odor measurement, soil, waste, pesticide residue. We also do measurement survey and prediction of noise and vibration, measure the work environment to supports in order to guarantee safety and peace of mind in the industry. In order to perform the operations like this as well as purpose of maintaining a precise analysis environment,we're certified by ISO9001. We're implementing to improve our daily operations

by PDCA cycle. Also in order to respond to the international analysis,we're certified ISO/IEC 17025 in 2011 performing our duties while we're working to confirm the validity of the analytical method to make the application of the future in all areas. By performing a variety of industry analysis based on the system about the quality. We help environmental conservation in the offices of a variety of industries.



IMAGE

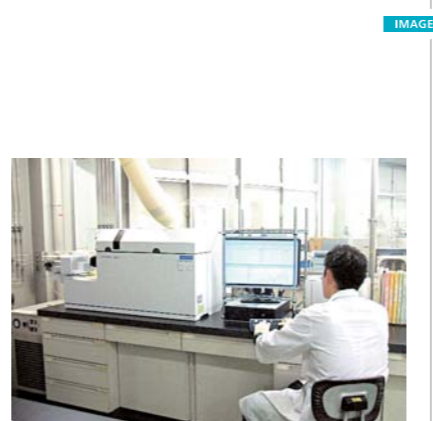
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P74 Nodaichi Denshi Co.,Ltd. RoHS analysis in the resin (Cadmium,Lead,Chromium)

An internationally recognized analytical skills

Implement the regulations on hazardous substances for a variety of products in many countries mainly from European region. There is a certification needed to prove it does not contain hazardous substances for electrical equipment such as electronics and home appliances (such as Cadmium,Lead,Hexavalent Chromium,Mercury,Polybrominated diphenyl ethers and Polybrominated biphenyls) in particular in the EU RoHS directive. Also monitoring and control equipments and medical equipments were added as target devices in 2011. It will take same regulations for all electrical and

electronic equipment in 2019. Our company is ISO/IEC17025 certified laboratory (received in 2011) to analysis of toxic metals in the resin and we conduct a business analysis and RoHS regulatory compliance for many resins used in electrical equipment. Similer support is also possible for resin to be treated as waste. We believe to be able to provide valid analysis in transactions with overseas.



IMAGE

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P75 Nodaichi Denshi Co.,Ltd. Hazardous substances, valuable materials in the waste analysis

Proposal according to the purpose of analysis

It has been a concern that with the development of the industry, a lot of waste is discharged to the environment and diffusion of toxic substances that could adversely affect not only us human but also effect many organisms. A matter of course, public environmental conservation by correct way of waste disposal is gradually increasing. Processing methods are subdivided by the amount of hazardous substances containing and states. In these days, our company is working on variety of waste analysis, and implements reliable analysis for containing hazardous substances. We strive to evaluate the content and choosing

appropriate methods in analysis by overlaying the meeting with the each client about the analysis of such substances that may cause future environment risks even though there's no regulatory. Also, we conduct analysis with confirmation of the process of waste generation and estimation of the compound contained for research of valuable resources content such as nickel.



IMAGE

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P76 Fukuyama Consultants Co., Ltd. Consulting which is based on data of environmental factor

A proposal of environmental harmony which is based on our research

It is become very important for company to consider environmental impact now. It is an essential subject for company in the field of risk management to keep harmony with surrounding area's environment. We will research, analyze, simulate about various kinds of environmental issue such as global warming, air and water, soil pollutions, noise and vibration problems and waste disposal issue and all the energy issues then suggest precisely the prediction of environmental impact and how to take measures to meet the situation. We are familiar with the new environmental protection laws, so we would be able to provide help to follow the necessary procedures and promote those environmental activities to various related parties. Technical overview (especially concerned to

environmental issue): measurement certification business operation (density, sound pressure level, vibration acceleration level)/survey on the natural environment/designated investigation institution which is based on Soil Contamination Countermeasures act/utilization of natural renewable energy/diagnosing energy/research of natural environment ,etc. Consulting achievement (excerpt) : AEON Co., Ltd. related Building offices, Kajima Corporation, Taisei Corporation, Obayashi Corporation, SHIMIZU CORPORATION, Takenaka Corporation, all construction contractor and, Otsuka Chemical Co.,Ltd., Oji Paper Co., Ltd., factory facility, real estate company, PFI company, university, hospital, golf club, NPO, etc.



IMAGE

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P77 Fujikasui Engineering Co.,Ltd. The research and countermeasure of the soil groundwater pollution

Offering consistent comprehensive solution

We prevent any tendencies of groundwater pollution and offer the consistent comprehensive solution about the soil groundwater pollution; research, analysis, disposal plan, countermeasure, and monitoring. We have reliable and economical excellent skills of soil purify technology. <4 steps of research and countermeasure> (1)Soil history- We examine the possibility of soil contamination from documentary record. (2)General condition investigation- We grasp the range of a possible pollution land by two dimensionally. (3)Details(going into particulars)- We research the depth direction of pollution range. (4)Countermeasure-We take measures against the pollution after determining the contamination range. We offer proper operations by the pollutant, money side, time

deadline, or contamination range. Doing the early research and countermeasure, you can prevent the sudden discovery of the soil pollution in an estate agent. As a result, you also can save the decline of the market price and make better land use plans in the future. Moreover, it is a good provision against ISO14000.

Company Achievements

VOC purification (autoparts manufacture): Pouring construction method by Nano-iron (RNIP), VOC purification (Electronic device manufacture): stir mixture construction method, Original position purification by Nano-iron(RNIP), Heavy metal processing(Illegal disposal spot): stir mixture construction method, Formation of heavy metal insoluble by inorganic system oxide(AMH)



IMAGE

▲ Countermeasure of soil cleanup

▲ Soil investigation

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P78 MINAMATA ENVIRONMENTAL RESEARCH&DEVELOP CENTER CO.,LTD. Promotion of regional industries and supporting networks

Communication point for Industry, academia and government in Minamata city

Minamata city has been approved as eco-friendly town in 2001. Eco-town project means supporting a creation of city which keeps harmony with environment. Local public cooperates with residents and local industries to create a new environmental industry which promotes local development, controlling waste and promoting recycles. Minamata Kankyo Techno Cente, which has established as a 'A model environment city' in 1999, has been set up as the communication point for promoting local industries and developing local industrial technologies by using the network between academia, public research organization and local industry. This facility has collaborative research room,

large and small laboratory and conference room. We have been researching about regional problems and promoting local industry with industry-academia-government by using promotion services from the country and prefecture. We will operate this facility to create a communication place where people can visit freely, also reinforce consulting work in cooperate with administration. Please feel free to use our facility.



IMAGE

▲ A full view of Minamata Kankyo Techno Center

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Company List

A		M	
AMAMI Fashion Laboratory Co.,Ltd	44	Marine Techno Research Co.,Ltd.	51
ARC Nishinippon Co.,Ltd.	43	MARINE TECHNOLOGY INSTITUTE CORPORATION	38
Asahi Organic Chemicals Industry Co., Ltd.	37	Mawatari Syokai, Inc.	52
Astec irie Co., Ltd.	43	Meiho Eco・Techno	52
C		MINAMATA ENVIRONMENTAL RESERCH&DEVELOP CENTER CO.,LTD.	55
CHANGE VALUE Co.,Ltd.	21	Mitsubishi Nagasaki Machinery MFG. Co., Ltd.	42
D		MIYABO Co.,Ltd.	26
DAIYA KUCHO CO.,LTD.	20	N	
E		Nippon Kanryu Industry Co., Ltd.	23
Eco Factory Co.,Ltd	06, 12	NIPPON MAGNETIC DRESSING Co.,Ltd.	51
ECO WOOD Co., Ltd.	11	Nippon Steel Corporation, Yawata Iron & Steel	32
ECOWORKS Co., Ltd.	13	Nippon Steel Kankyo Engineering Co., Ltd.	22
Environmental Core	14	Nishinippon Kaden Recycle Corporation	51
Environmental Technology Service Co., Ltd.	15	Nishinippon Environmental Energy Company	35
F		Nishinippon Environmental Engineering Co., Ltd.	40
FUJIKASUI ENGINEERING CO.,LTD.	41, 55	Nishinippon Plant Engineering and Construction Co.,Ltd.	35
Fujisawa-eco Co.,Ltd.	42	Nodaichi Denshi Co.,Ltd.	54
Fukuoka Institute of Bioindustry and Development Co., Ltd.	25	NPO The Jun-namaken FUKUOKA	49
Fukuyama Consultants Co., Ltd.	55	O	
FUKUYU RYOKUCHI Inc.	40	OHASHI INC.	44
H		Ohishi Construction Co.,Ltd.	37
HONDA KIKO CO., LTD.	41	R	
I		RYOKO INDUSTRY LTD.	27
IBUKI Co.,Ltd	10	S	
Itochu Corporation, Kyushu	30	Saimu Corporation	48
J		SANIX INCORPORATED	30
JAPAN LIMONITE Co., Ltd.	24	SANKEN-ENGINEERING co., Ltd.	47
K		Seibu Giken Co.Ltd	34
Kagoshima Technology Licensing Organization Co.,Ltd.	45	SEIHO KIKO co.,Ltd	19
Kenki Co., Ltd.	16	Seiko Electric Co., Ltd.	33
Kira seisyo Co.,Ltd.	46	Shingo Denzai Co., Ltd.	31
Kitakyushu International Techno-cooperative Association	53	Shitama Sekkai, Inc.	17
Kiyomoto Co.,Ltd.	38	Sumida Co., Ltd.	18
Knowledge Management Technology co.,Ltd	30, 46	T	
Kowa Seiko Co.,Ltd.	46	Tagawa Sangyo Co., Ltd.	39
KUMASEI Co.,Ltd.	45	Takachiho Shirasu Co., Ltd.	39, 48
Kyowakiden Industry Co., Ltd.	37, 53	Takafuji Co.,Ltd.	33
L		TAKESHIMA CO.,LTD	50
M		TOTO Co., Ltd.	50
N		TOYO DENKI INDUSTRIAL COMPANY	40
O		Y	
P		YASUKAWA Electric Corporation	36
Q		YBM Co.,Ltd.	28
R		Yoshikawa Kogyo Co., Ltd.	52

Lead Environmental Business in the Future

K-RIPRODUCT CATALOGUE 2012

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