



Gyeonggi Province Environmental Technology & Industry

 365열린도서관



B00000044679



Global Inspiration
GyeongGi-Do



04 Message from the Governor

GYEONGGI PROVINCE

- 06 The Growth Engine of Asia-Gyeonggi Province
- 07 Business Capital of Korea
- 08 Logistics Hub of Northeast Asia
- 09 Ideal Location for Foreign Investment
- 10 Center of High-tech R&D
- 11 The True Heart of Korea Environmental Technology & Industry

COMPANY INTRODUCTION

- | | | | |
|----|------------------------------|----|--|
| 14 | Baekdoo Co., Ltd. | 36 | Greenpe Co., Ltd. |
| 16 | Cheonghae Env Co., Ltd. | 38 | Greenpla Co., Ltd. |
| 18 | Daijin Precision Co., Ltd. | 40 | Greenwell Co., Ltd. |
| 20 | Digital Water Co., Ltd. | 42 | Haesung Engineering Co. |
| 22 | D.M. Puretech Co. | 44 | Hanhim Technology Co., Ltd. |
| 24 | Dong-Il Chemical Co. | 46 | H2I Co., Ltd. |
| 26 | Ecophile Co. | 48 | Hanwha Engineering & Construction |
| 28 | Enbiotec Co., Ltd. | 50 | Kolon Engineering & Construction Co., Ltd. |
| 30 | Gana Environment Engineering | 52 | Korea Engineering Consultants Corp. |
| 32 | GCM Korea Co., Ltd. | 54 | Pure Envitech Co., Ltd. |
| 34 | Green EnTech Co., Ltd. | 56 | Shingang Hi-Tech Co., Ltd. |
| | | 58 | Taset Inc. |

Contents



- | | | | |
|----|---|-----|-----------------------------------|
| 60 | Biothys Asia Co., Ltd. | 100 | Dasan Rnd Co., Ltd. |
| 62 | Chemsfield Co., Ltd. | 102 | Greentech Inc. |
| 64 | Duksan Air Conditioning Machinery Co., Ltd. | 104 | Home Care Co., Ltd. |
| 66 | J-etech Co., Ltd. | 106 | Korbi Co., Ltd. |
| 68 | Korea Power Engineering Company, Inc. | 108 | Qrotech Co., Ltd. |
| 70 | KS Engineering Co., Ltd. | 110 | Shinah Electronics Co., Ltd. |
| 72 | Seah Green Tech Co., Ltd. | 112 | Sptc Co., Ltd. |
| 74 | Trion Korea Co., Ltd. | 114 | World Bridge Industrial Co., Ltd. |
| 76 | Wooyang Eng. Co., Ltd. | 116 | Young Lin Instrument Co., Ltd. |
| 78 | Wonil Chemical & Environment Co., Ltd. | | |
| 80 | Dawtech Co., Ltd. | 118 | Tourist Attractions |
| 82 | Deokwoo Eco System Co., Ltd. | 122 | Business Map |
| 84 | Eco Services Korea Co., Ltd. | | |
| 86 | Erae Co., Ltd. | | |
| 88 | Forcebel Co., Ltd. | | |
| 90 | Gyeonggi Power Generation Co., Ltd. | | |
| 92 | Halla Energy & the Environment | | |
| 94 | Hansol Eme Co., Ltd. | | |
| 96 | Pulse Energy Corp. | | |
| 98 | Seohung En-Tech Ltd. | | |



Welcome to Gyeonggi Province!

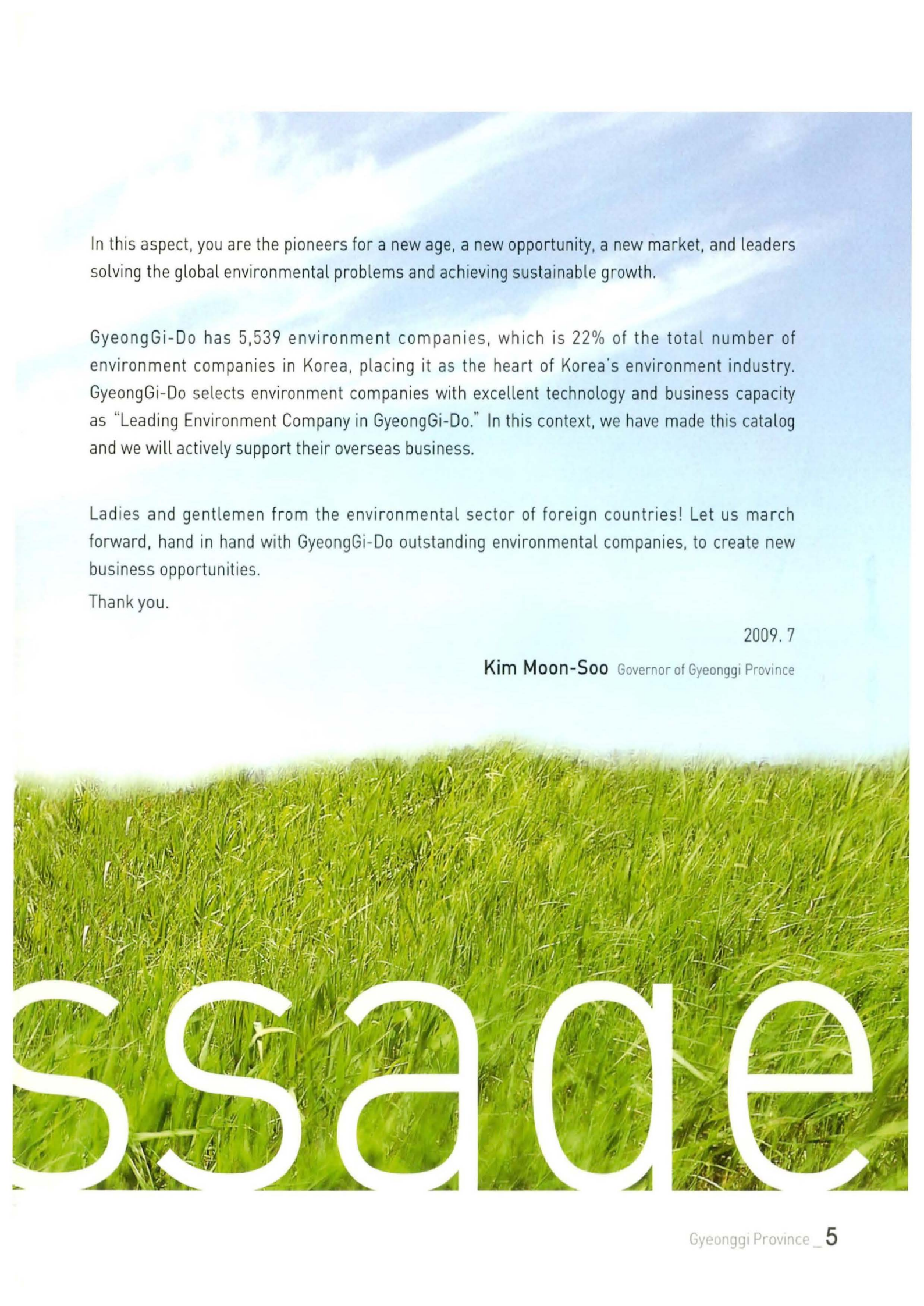
I am pleased and honored that I have been given the opportunity to greet delegates from various regions and countries who are dedicated to saving our environment and implement sustainable development.

GyeongGi-Do is the largest provincial government in Korea, located geographically on the center of the Korean Peninsula surrounding Seoul with a population of 11 million. Knowledge-based industry, electronic information machinery, state-of-art R&D industry, and environmental industry are concentrated and with diverse human resources and structural physical distribution infrastructure, it is leading Korea's economy.

As we all know, 'green growth' is a global topic. We are at an age where economic development should be achieved through environmental restoration and not destruction, through seeing the environment as a new growth engine, and through simultaneous growth of environment and economy.



Me



In this aspect, you are the pioneers for a new age, a new opportunity, a new market, and leaders solving the global environmental problems and achieving sustainable growth.

GyeongGi-Do has 5,539 environment companies, which is 22% of the total number of environment companies in Korea, placing it as the heart of Korea's environment industry. GyeongGi-Do selects environment companies with excellent technology and business capacity as "Leading Environment Company in GyeongGi-Do." In this context, we have made this catalog and we will actively support their overseas business.

Ladies and gentlemen from the environmental sector of foreign countries! Let us march forward, hand in hand with GyeongGi-Do outstanding environmental companies, to create new business opportunities.

Thank you.

2009. 7

Kim Moon-Soo Governor of Gyeonggi Province

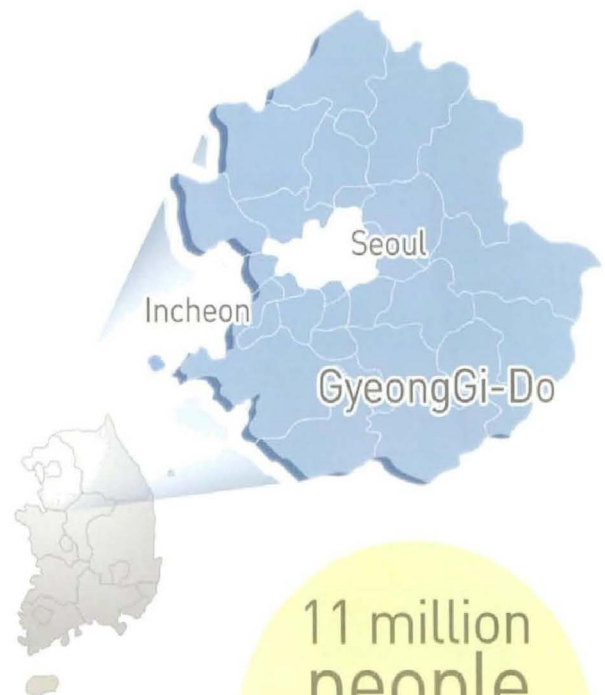
SSaode

THE GROWTH ENGINE OF ASIA

GYEONGGI PROVINCE

Gyeonggi Province, which surrounds the Korean capital of Seoul, has a population of approximately 11 million (22% of national total) and forms an enormous consumer market within the metropolitan area; together with Seoul and Incheon, this region boasts a population of more than 23 million.

Many large domestic and international companies in various fields are based in Gyeonggi Province, which plays a center role in the corporate and economic activities of Korea. Gyeonggi Province, the center of Korea, is quickly advancing into Asia and the world.



GYEONGGI AT A GLANCE

Area (2009)	10,183km ² - 10.2% of gross national area (17 times larger than Seoul) - Area equivalent to 1/4 of Netherlands or 10 times Hong Kong
Population (2008)	11,549,091 residents - 22.7% of total national population - Largest local government (Seoul is 2) - Economically active population: 5.6 million (23.4% of national total)
Economic Scale (2007)	KRW 182,832 billion (GRDP) - Equivalent to 38th position among 180 countries worldwide (Hong Kong : USD 206.7 billion / United Arab Emirates : USD 192.6 billion) - Composition to whole country (2007): 20%
Growth rate of GRDP (at 2000 constant prices)	6%(2007)
Provincial Government Budget (2009)	KRW 34 trillion - Degree of the local government's financial independence 75.9%(No.2 in the nation)
Trade (2008)	- Exports: USD 64.6 billion, Imports: USD 67.9 billion

BUSINESS CAPITAL OF KOREA

Gyeonggi Province is definitely the heart of Korea's economy. The proud home of global leaders such as Samsung Electronics, Hyundai-Kia and LG, Gyeonggi continues to lead the nation's growth and development.

GEOGRAPHIC ADVANTAGE

- Metropolitan area surrounding Seoul, the capital of Korea; the heart of the Korean Peninsula as well as Northeast Asia
- Tokyo, Beijing, Osaka, Shanghai, Vladivostok and other major Northeast Asian cities accessible within a 3-hour flight

MASSIVE CONSUMER MARKET

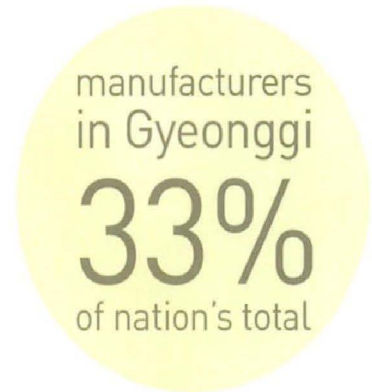
- Immediate access to the combined populations of Gyeonggi (12 million), Seoul (10 million) and Incheon (2 million) provides endless market opportunities
- Direct connections to the markets of Northeast Asia (including China, Japan and Russia) and the region's 1.5 billion consumers

WORLD-LEADING ENTERPRISES

- Home of world-leading enterprises including Samsung Electronics, LG Electronics, Hyundai-Kia Motors, Hynix and LG Display as well as many top multinational firms such as 3M, Bosch and Siemens.
- One-third of Korea's small and medium companies and the largest concentration of the nation's knowledge-based industries

OUTSTANDING HUMAN RESOURCES

- Lion's share of Korean R&D personnel (e.g. knowledge-based IT companies: 37.9% of national total)
- Home to half of the nation's masters and doctorate holders in the fields of science, engineering and medicine (173 graduate schools, 39 undergraduate schools, 38 technical colleges)



KEY INDUSTRIES OF GYEONGGI PROVINCE

AUTOMOBILE INDUSTRY

Gyeonggi Province Production Volume : 1.8 million vehicles

Global Market Share

2006	5.5%
2012	10% (estimated)

DISPLAY INDUSTRY

Global Market share

TFT LCD	39%
PDP	56%
OLED	42%

SEMICONDUCTOR INDUSTRY

Global Market share

DRAM	47%
Memory IC	38%
Nand Flash	56%



LOGISTICS HUB OF NORTHEAST ASIA

A burgeoning logistics hub, Gyeonggi Province offers four main gateways to Korea: Incheon International Airport, Gimpo International Airport, Incheon Port, and Pyeongtaek Port (the nearest seaport to China). The province also boasts efficient road and rail networks, providing easy access to any part of Korea.

INCHEON INTERNATIONAL AIRPORT

- 2nd largest cargo volume worldwide (2007): 2,560,000 tons (source: ACI)
- Passenger traffic (2008): 25~40 million persons (12th world)
- Best airport worldwide among 86 airports in 2008 ASQ survey
- 63 airlines connecting 142 cities

GIMPO INTERNATIONAL AIRPORT

- 2nd largest airport in Korea after Incheon International Airport
- Offers domestic and international flights
- Features the Sky City Complex for cultural events, leisure and shopping

INCHEON PORT

- Container shipments (2006): 1,377,000 TEU (19.9% year-on-year increase)

PYEONGTAEK PORT

- Fastest growing port in Korea
- Total shipments (2007): 48 million tons
- Container shipments (2007): 319,000 TEU (22.7% annual growth)
- China trade base (as the closest seaport to China, Chinese cargo account for the majority of Pyeongtaek Port's shipments)
- Reduction of cargo entrance and clearance fees: Only 60% of the container and freight costs of Busan and Incheon

CONVENIENT LOGISTICS

- Gyeongbu Expressway (Korea's main artery), Seohaean Expressway (backbone to the West Coast), and Yeongdong Expressway (penetrates the Korea Peninsula horizontally), as well as many other national highways, industrial routes
- Convenient rail connections (Gyeongbu and Honam lines) pass through Gyeonggi Province, guaranteeing fast access to any part of Korea



IDEAL LOCATION FOR FOREIGN INVESTMENT

Gyeonggi strives to provide the best support possible to ensure the success of foreign-invested operations in the province. To that end, we offer a comprehensive set of incentives that are based on the tenet that FDI is mutually beneficial, a belief supported by our one-stop service ideal.

KEY INVESTMENT INCENTIVES

• Lease Benefits

To satisfy the needs of foreign companies, industrial complexes are used exclusively for foreign-invested companies in strategic locations around the province. Eligible companies can take advantage of a very special rent price of just 1 percent of the land development cost.

• Tax Exemptions

Foreign-invested companies can enjoy national tax exemptions (corporate, income tax) for up to 7 years from the first year the company sees profit. In addition, the province offers local tax (acquisition, registration, property) breaks for up to 15 years as well as exemptions from tariffs and VAT for 3 years.

• Employment Subsidies

Gyeonggi Province provides employment and training subsidies to foreign-invested companies which hire more than 20 workers. For each additional worker, the company can receive up to USD 500 per month up to 6 months.

• Administrative Services

Gyeonggi Province also offers various services to improve the business environment for foreign-invested companies such as infrastructure support, management support services and language training programs.

NEW DEVELOPMENT PROJECTS

Godeok International City

With the relocation of USFK headquarters from Seoul to Pyeongtaek, more than USD 11 billion will be invested to transform the city into 'Godeok International City', an international center for business, technology, and global exchange, by 2013.

KINTEX

KINTEX, with a display area of more than 56,000m², is Asia's representative exhibition center.

Located in Goyang City in northern Gyeonggi, a massive development project is currently underway in the area, which includes hotels, malls and other leisure facilities.

HallyuWorld

Riding on the Korean wave, 'Hallyu', the international tourism and culture cluster in Goyang is set to become a global center of Korean films, dramas, and pop music.

Gyeonggi's FDI Performance



CONTACT

Foreign Investment

Investment Promotion Division,
TJ 82-31-249-2174

Godeok International City

Pyeongtaek Development Support
Division, TJ 82-31-249-2599

KINTEX

TJ 82-31-810-8114, www.kintex.com

HallyuWorld

TJ 82-31-850-3334, www.e-hallyu.com

CENTER OF HIGH-TECH R&D

Forty percent of the nation's knowledge-situated industries are based in Gyeonggi Province, making it a true IT powerhouse. Gyeonggi's wealth of dedicated and experienced R&D personnel ensures success in the global market for value-added industries. A state-of-the-art technology R&D complex can also be found in Suwon's Gwanggyo Techno Valley, which specializes in joint industry-academic-administrative collaboration.

1 ADVANCE INSTITUTE OF CONVERGENCE TECHNOLOGY

Operated by the prestigious Seoul National University, it provides a focal point for technological convergence, one of the key next-generation growth drivers, and cultivates competitive human resources in support of the development of high-tech industries.

2 GYEONGGI BIO CENTER

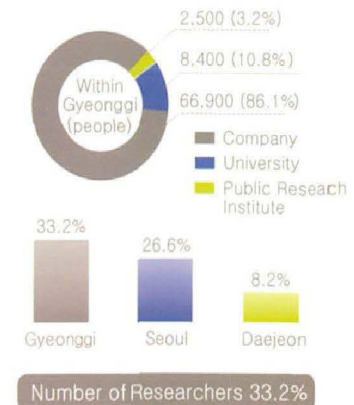
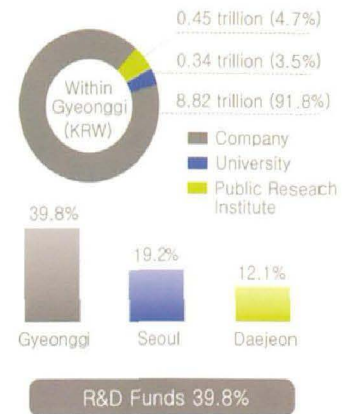
The center is a cluster of bio technology R&D institutions that offers networking services for business, academic and research organizations in the biotech industry. It is emerging as a mecca of biotech industry in Korea as well as the hub of regional innovation through collaborations built on the best R&D infrastructure Of its kind.

3 GYEONGGI BUSINESS CENTER & GYEONGGI R&DB CENTER

The prime mission of the centers is to enable businesses in Gyeonggi to build global competitiveness and make inroads into the world markets. Their services include comprehensive support for business startup, global marketing consulting, technical support and management capability development.

4 KOREA ADVANCED NANO FAB CENTER

It specializes in providing support for initiatives in non-silicone nano devices and compound-base semiconductor sectors. Companies can take advantage of its clean room and other top nano facilities.



CONTACT

Advanced Institute of Convergence Technology
T) 82-31-888-9114, aict.snu.ac.kr

Gyeonggi Bio Center
T) 82-31-888-6000, www.ggbc.or.kr

Gyeonggi Business Center
T) 82-31-259-6110, www.gsbc.or.kr

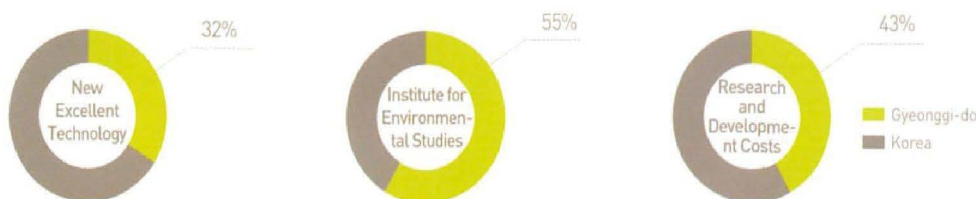
Korea Advanced Nano Fab Center
T) 82-31-546-6000, www.kanc.re.kr

THE TRUE HEART OF KOREA ENVIRONMENTAL TECHNOLOGY & INDUSTRY

GyeongGi-Do has the largest number of environment-related companies in the country, consisting of 25.8% of domestic sales in environmental business which is growing at a rapid rate and functions as Korea's environmental industry hub.



With the development of environmental industry including excellent infrastructure and capability for R&D, information, human resources, transportation etc., and outstanding facilities and capability for technology innovation, GyeongGi-Do is actively leading Korea to become one of the global top 10 in environmental technology by 2012.

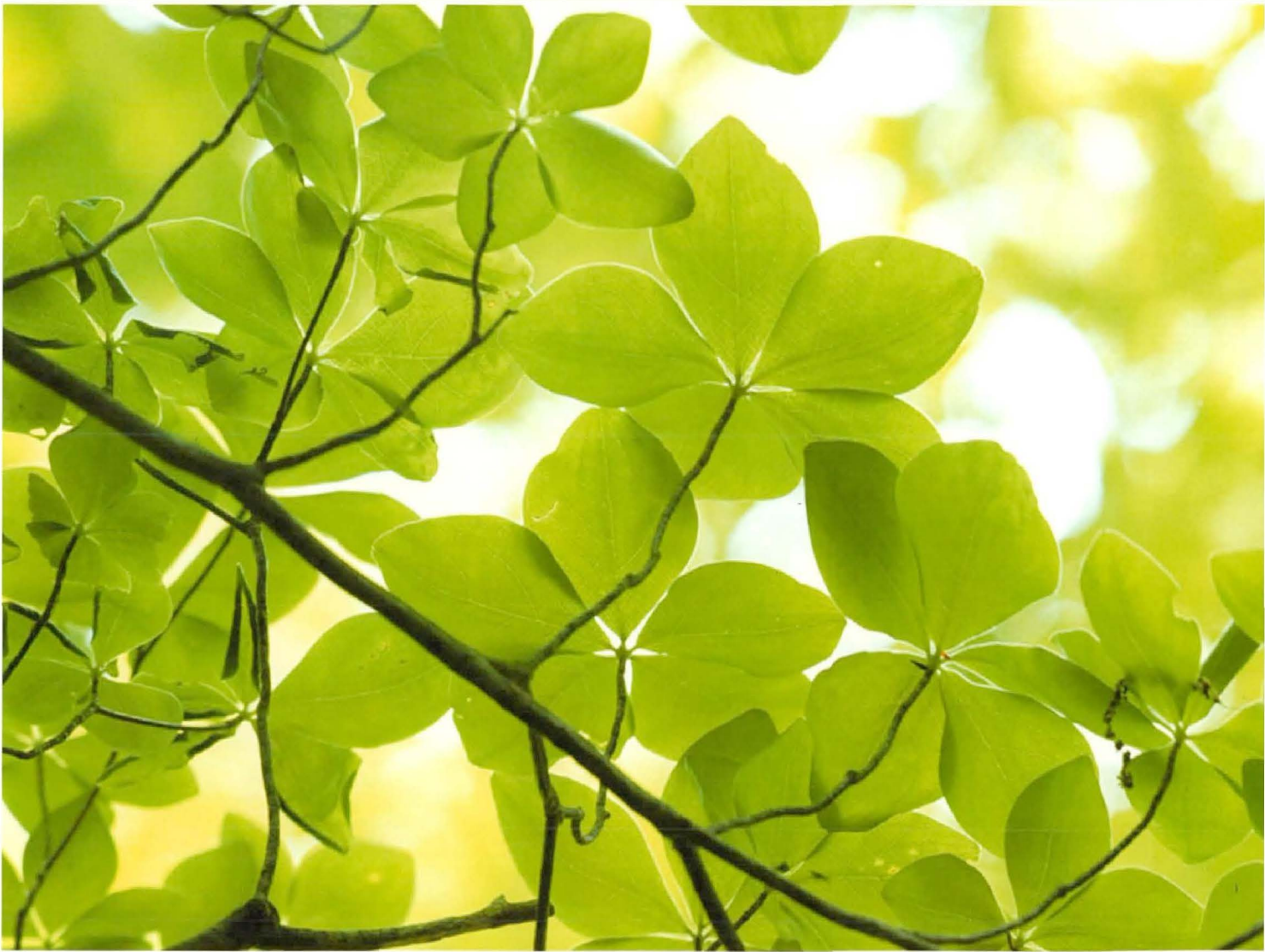


Environment regulations on suburban location, atmosphere and water quality will serve as an opportunity for environmental industry and technology development, and has potential for green growth with the help of the suburb's abundant market demand

- Paldang Dam, which is located in GyeongGi-Do, is the country's biggest water supplier, providing drinking water to 23 million local habitants
- Will invest 1.6 trillion won for an upgrade to an area of 35.5km², storage capacity of 2.4million tons, water quality reaching the second grade, which is closer to the quality of the highest grade.

With excellent environmental enterprises and ample infrastructure, GyeongGi-Do is reaching the environmental technology standard of developed countries such as the U.S., Germany and Japan. As opposed to cost-excessive environmental technology and equipments of developed countries, GyeongGi-Do could comply with the environmental standards at low costs.

Company Introduction





Gyeonggi
Province
Environmental
Technology
& **I**ndustry



BAEK DOO ENVIRONMENT INDUSTRY

50 Galsan-ri, Wolgot-myeon,
Gimpo-si, Gyeonggi-do, Korea

Telephone

+82-31-989-7886,7887

Facsimile +82-31-982-7886

E-mail baekdooenv@hanmail.net

URL www.bdenv.co.kr

BAEKDOO Co., Ltd.

Introduction

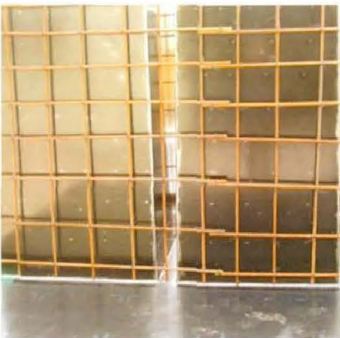
Established in 1994, the company is registered as an individual sewage management system design & construction, individual sewage management system manufacturing and water quality preventive facilities business. It has two patents, 11 utility models, 4 design registrations and INNO-BIZ certification as well as venture business certification, and ISO9001 certification. As a leader of environmental industry, we will continue further research and development with maximum investment and effort to keep the environment clean.



Korea's first patent registration for solid-type concrete wastewater treatment system development (Patent No. 10-0582931)

Taking economical and workability factors into consideration, fiber-reinforced plastic (FRP) is usually used nowadays for septic tanks to be laid under the ground. Legislation is formulated and applied to the FRP septic tank for its structural stability: That is, it should be reinforced at upper and bottom parts with concrete, or with a box-type concrete structure in which the FRP septic tank should be installed, because an FRP septic tank is likely to be damaged or cracked due to soil and water pressure. This entails extra cost which may burden our customers, and the need for substitute technology development and product development in the industry is pressing. In this context, the company has developed a solid-type concrete septic tank that prevents secondary environmental pollutants, and which has a more stable structure than the previous FRP septic tank. This product dramatically decreases the execution time and costs needed for installing forms, then casting, waterproofing and curing concrete, and removing the forms.

Concrete Product Photos



| Adding reinforcement to concrete form



| Factory Product (1)



| Factory Product (2)

Construction Examples



| Excavation



| Safe placement of the main body



| After the attachment of the upper plate



Cheonghae ENV Co., Ltd.

769-4, Keumchondong, Pajusi,
Gyeonggi-do, Korea
Telephone +82-31-946-3695
Facsimile +82-31-946-3694
URL www.chenv.net

Introduction

At this time when the earth in 21C is being spoilt owing to increase of the population with the high jump of the industry, this company is the one standing in the presence with the idea of 'Make the beautiful world', which the human and the nature coexist, with the mind succeeding the earth itself to the descendents, and especially with the technology and ardor being equipped with the comprehensive system in the field of water.

This company, which was established in 1997, has executed the design/work of execution excretions septic tank facility, design/work of waste water septic tank, water supply/sewage facility work, agency of water supply/sewage work, environmental pollution preventive facility work and etc.



This company was confirmed by Director of Small and Medium Business Administration, Gyeonggi District, as the small and medium company of the management innovative type, and has equipped with the environment management system for design, production and installation of the water supply/sewage, environmental pollution preventive facility and treatment equipment of the live stock farming waste water through certification of KS Q ISO 14000 : 2004/ISO 14000 : 2004.

Also, we have been recognized as the research institute attached to the company of Korea Industrial Technology Association.

We have used the high treatment technology of the sewage by using the oxygen-free/anaerobic/expiration/deaeration tank and dipping-type membrane separation method: No. 31, designation of environmental new technology and No. 33, verification, and used the work method to acquire the stable water quality with the biological removal device and method of the nitrogen/phosphorus by using the submerged membrane (Registration No. 0422211), membrane unit facility for air line (Registration No. 0373515), which is the utility model, high efficiency membrane unit for treatment of waste/dirty water (Registration No. 0402163) and etc.

Microsoft Excel accretion



Daijin Precision Co., Ltd.

#701 Sihwa Industrial Complex
3-ma, 2097-1 Jeongwang-dong,
Siheung-si, Gyeonggi-do, Korea
Telephone +82-31-431-9933
Facsimile +82-31-433-1661
E-mail djpump@kornet.net
URL www.djpump.com

Introduction

Established in 1992 with its technology in water motor pumps, the company has been certified with ISO9001,14001 and KS mark permission, INNO-BIZ certification, and venture company certification.

With the approval certification of our manhole cutter pump (grinder), the technology and excellence of these products have been proven by 9 different certifications. Also, the company has been rewarded with an Industry Packaging Award from the Ministry of Public Administration and Security and the Ministry of Commerce, Industry and Energy. The company has been selected as export industrial company and is being approved from overseas counterparts.



Product Information

DVC-cutter vortex pump (Grinding)

Patented and performance certified product

- Applications : Waste Water
- Features : Moving wastes and sewage water, Transfer small wastes water, Moving dewatering and drainage road, Control the sludge



DSW-screw pump (DSC Type)

- Applications : Waste Water
- Features : Moving wastes and sewage water, Transfer small wastes water, Moving dewatering and drainage road, Control the sludge



DAF- Propeller Pump

Patented and performance certified product

- Applications : Protection from flood, heavy rain
- Features : Easy to handle, install with colse, compact desing, Various application to low head, large quantity



DMF- Mixed Flow Pump

Patented and performance certified product

- Applications : Middle head, large water supply
- Features : Maximizing of the credibility of goods by an early checkup





Digital Water Co., Ltd.

Chungang University Business
Incubator Center Room#4, 72
Naeri, Daeduck-myeon,
Ansung-si, Gyeonggi-do, Korea
(456-756)
Telephone +82-31-676-6663
Facsimile +82-31-676-0626
E-mail admin@aquamag.co.kr
URL www.aquamag.co.kr

Introduction

Since established in year 2001, we have been made every effort to develop and manufacturing scale and corrosion preventing systems and efficient water treatment systems. All of our staffs are trying our best to change and innovate for new take-off with base of 'Selected as Inno-Biz (2002~2008)', 'Special water company that international patent shines (Korea, China etc.)' and 'Selected as new environment technology and Excellent product supplied to government by the office of supply'.

Product Information

What is AQUAMAG

It is environment friendly pipe protecting system that removes scale from inner part of pipe and prevent corrosion using Galvanic Effects which is potential difference of magnesium (Mg^{2+}).



The theory of AQUAMAG

It is method of preventing and weakening rust (corrosion) and scale (mineral bonding: lime, citrate etc.), weakening and separating lime bonding and organic matter bonding through systematic supplying of magnesium ion

Merit and characteristics of AQUAMAG®

The filter is half-permanent with the ability to be used for small to large ultra precise filtering jobs (0.5μ) and can be placed in narrow spaces. Fully automatic remote operation is possible as well as the removal of SS, COD, impurities and bacteria. It is used for recycling sewage, waste water, heavy water and for tunnel digging water disposal.

Effects of AQUAMAG®

- Effect of scale removing and preventing in inner side of the pipe. : Magnesium ion removes the scale by weakening scale combining in old pipe then it creates thin film to prevent scales from reforming.
- Effects of savings on time and cost. : It reduces inconvenience of changing old pipe and inconvenience of expensive treatment and the cost. Also, it is easy to install.
- Effect of saving energy : It uses potential difference of magnesium so there is no need of supplying electric and when it is used as heating pipe, it prevents loss of thermal efficiency caused by scale.
- Effect of antivirus using nano-silver technique : It makes environment that hard for microorganism (virus and colon bacillus etc.) to live by removing scale, so you can get clean, pure and healthy tap water.
- Effect of protecting environment : It prevents 2nd contamination by removes scales and controls the use of chemical (to remove scale). New buildings never need to use chemicals.

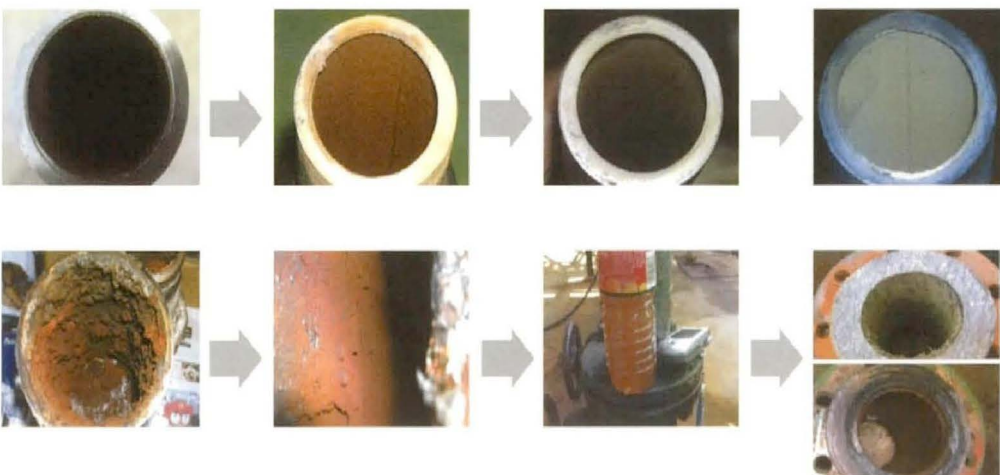
Applied field

- Water pipes, cooling water and hot water line for public places
- Water pipes, cold water and hot water line and heating line for apartments and inner buildings
- Water pipes, cold water and hot water line for general houses
- Hot water and heating line for subterranean water, spring water and bath houses
- Heat exchanger cleaning and cleaner inserting line
- Remove and control scales for inner side of tap water pipes



Verification of effect

Semiteq Co., Ltd. semiconductor factory cooling water line





D.M. Puretech Co.

38-16, Ojeon-dong, Uiwang-si,
Gyeonggi-do, Korea
Telephone +82-31-477-9611
Facsimile +82-31-477-9617
E-mail dmpuretech@dmpt.co.kr
URL www.dmpt.co.kr

Introduction

D.M. Puretech Co. is a leading environmental company for water and wastewater technology in the 21st century.

As a specialist of water and wastewater treatment technology performing turn-key base project from basic engineering, construction to commissioning and maintenance service, with its know how and experience, D.M. Puretech has launched into world wide market and exporting its technology and plant to China, Middle East Asia and South America as well.

In the future, D.M. Puretech continue to make every efforts to research and develop the new technology, and so lead the world environmental market and contribute clean environment.



1. Water Treatment Plant Project

- Industrial Water Treatment, Water Purification, Pure and Ultra Pure Water Treatment Project
- Pharmaceutical Water Treatment Project
- Desalination Project

2. Environment and Public Supply Project

- Wastewater, Municipal Water, Sewage water Treatment Project
- Environmental Consulting
- Environmental Facility Operation and Maintenance

3. Energy Project

- Solar Power Generation Project
- Renewable Energy Project
- Development of Renewable Project

4. Research and Development

- Development of Advanced Denitrification Process
- Production of Membrane for MBR(Flat Type, PES)
- Production of Membrane for Water Treatment(Hollow Fiber Type, PVDF)



| DEMI. WATER SYSTEM(1320m³/DAY)



| RAW WATER SYSTEM(1320m³/DAY)



| R/O UNIT (1320m³/DAY)



| WASTEWATER TREATMENT SYSTEM
(24000m³/DAY)



| ULTRA PURE WATER
SYSTEM(240m³/DAY)



| Solar Energy Power Plant
Construction (5080MWH)



Dong-Il Chemical Co.

931 Hajeo-ri, Paltan-myeon,
Hwaseong-si, Gyeonggi-do,
Korea

Telephone +82-31-355-2300

Facsimile +82-31-355-3420

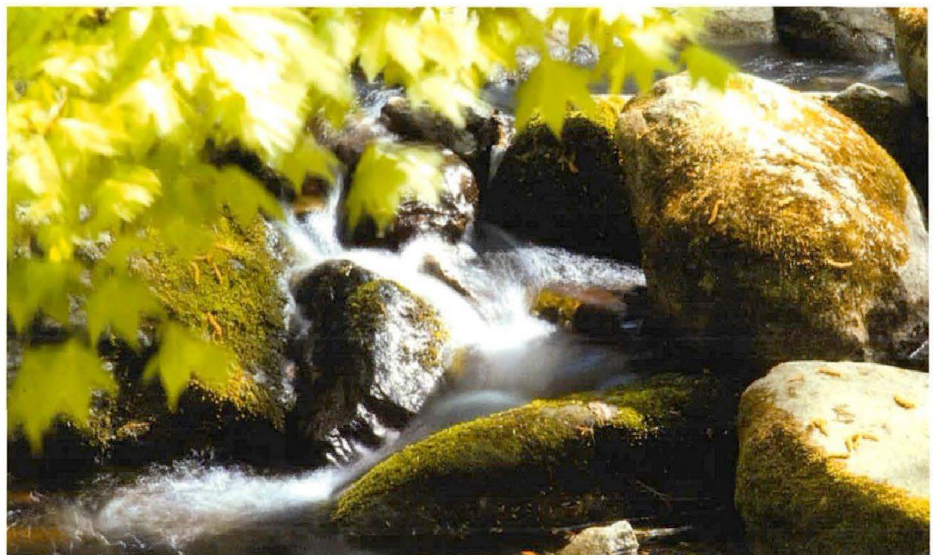
E-mail dongil3005@hanmail.net

URL www.dongilchem.com

Introduction

Dong-Il Chemical Co. strives to become the best through environment protection in water quality of industrial complex's waste water and the ecosystem. The company has had a satisfactory outcome in developing technology for food waste, leachate from solid waste landfills, and livestock waste water. It has manufactured precoat filter and has sold in Korea, China and other countries.

- It's the technology to maximize the amount of LFG, increasing the velocity of degradation of organic waste through the addition of liquid such as leachate by gravity flow and a supply facility able to control the infiltrated quantity.
- It's the system which can minimize of the construction area and maximize the effect of facilities.
- It's the technology adding liquid (leachate, etc) by a vertical well installed in each layer to maximize dispersion of liquid (leachate, etc) in each layer.



Product Information

BF-01(Non-biodegradable COD, N-Hexane, ABS, chromaticity removal)

BF-01 is Dong-Il Chemical's Korean certification product that is used for various purposes such as submerged water in waste sites, industrial waste water, livestock waste water etc.

Characteristics : BF-01 absorbs, oxidizes and condenses organic compounds which are difficult to dissolve by providing metallic positive ions and hydrogen ions. It is also effective in removing COD material when using N-Hexane and for removing chromaticity.

BF-06 (Strong Deodorant)

Made by the combination of deodorizing t plant extracts and chitosan, this strong deodorant removes the source of odors and does not produce secondary polluted particles.

Pressure Applied Precoat Filter System

The filter is half-permanent with the ability to be used for small to large ultra precise filtering jobs (0.5μ) and can be placed in narrow spaces. Fully automatic remote operation is possible as well as the removal of SS, COD, impurities and bacteria. It is used for recycling sewage, waste water, heavy water and for tunnel digging water disposal.



BF-01 Powdered Product



BF-01 Condition of Packing



BF-01 Treatment



Compared photos of waste dumping field underwater disposal



Pre-coated filter supplied at the tunnel excavated water disposal facility



Redox Filter System industrial complex establishment photo

296-3 Doha-ri Eunhyun-myun
Yangju-si GyeongGi-Do
Telephone +82-2-3461-5517
Facsimile +82-2-3461-5518
E-mail shko@ecophile.com
URL www.ecophile.com

Introduction

Korean Ocean & Research Development Institute

Ecophile Co. is a venture company created by Korean Ocean & Research Development Institute. In the Microorganism Research Center with the KORDI, the company strives to restore the environment and to purify pollutants by various methods.

Environment Restoration Specialty Company

Environment Restoration Specialty Company

Through environmentally friendly technology development, Ecophile Co. focuses on preserving the environment through biological development and purification of water.

Customized Products and Service Orientation

With customized technology development and product manufacturing, Ecophile Co. provides customized before and after service.

Business Sectors

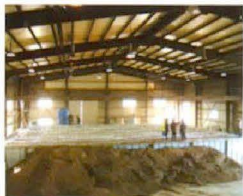
- Terrestrial Underground water pollution/marine pollution purification project
- Water quality purification project
- Manufacturing and sales of the prevention of microorganism
- Planning and construction of environment pollution prevention establishment
- Research, development and service of the environment sector
- Accomplishments of polluted soil management: nation's biggest and largest accomplishment

Status of certification

- Certification by environment venture company/company annexed research center
- Certification of ISO 9001/14001
- US Military Armed Forces 8th Army CCK Registration
- Certification of NEP Mark (Oil disintegration microorganism, KT-1662)
- Appointed as Excellent Environment Industry Organization (Korea Environmental Industry Association)
- Selected as GyeongGi-Do's Promising SME (GyeongGi-Do: no. 2005-086)
- Selected as Excellent Product of Government Procurement (Public Procurement Office: no. 2005106, oil disintegration microorganism), nation's single
- Selected as technology innovative SME (INNO-BIZ) (Small and Medium Business Administration: no. 6064-0557)
- Environment new technology no. 195 (Purification technology of heavy metal polluted soil by using pulse kinetic electricity, nation's first in the soil sector)
- Environment new technology no. 261 (Combination of microorganism searched through oil intake and dissolved microorganism using soil cultivation purification technology, nation's first in oil dissolved microorganism)



Sampling



Opp-site facility



Electrokinetic remediation



Analysis



Land-farming

Status of certification registration

Combination of cleansing technology and current electricity technology, purifying polluted soil (No. 0856909) and 14 others

Environment new technology

Oil type dissolution microorganism manufacture EcoGuard CDM (Environment new technology no. 261)

A new kind of combined form that maximizes oil dissolution and mutual relationship with microorganisms

- Effective removal of pollutants that are chronically absorbed in soil through increasing the number of dissolvent microorganisms
- Safe for the ecosystem with the use of wild type microorganisms

Electrokinetic technology (Environment new technology no. 195)

Technology that transfers and removes pollutants by inducing physical, chemical, and numerical changes in the soil through the input of electricity

- Easy extraction of pollutants in oil type and heavy metal, and chances for secondary pollution are eliminated
- Effective technology for small and detailed clay type soil pollution



EnBioTec Co., Ltd.

1496-3 Sa-dong, Sangnok-gu,
Ansan-City, Gyeonggi-do, Korea
Telephone +82-31-501-9811
Facsimile +82-31-501-9819
URL www.enbiotec.co.kr

Introduction

As a total environment corporation, we construct environment pollution prevention facilities and industrial plants. We also take care of managing environmental treatment facilities and carry out measurement projects. We are expanding our businesses in intermediate disposal of designated wastes and waste water treatment to pursue good quality environment services.

Company Profile

- Feb. 11, 1987 Establishment of EnBioTec Co., Ltd.
- Mar. 30, 1987 Registration of Pollution Preventive Facilities Business [The Air, Water Quality]
- July 18, 1994 Registration as Industrial Ventilation Facilities Specialist (Korea Industrial Safety Agency)
- Dec. 2, 1994 License Acquisition for Specialized Construction Business (Construction Business)
- Jan. 10, 1996 Selected as Promising SME (Korea Credit Guarantee Fund)
- June 5, 1996 Awarded Han River Environmental Office Director Distinguished Service Medal
- Mar. 10, 1997 Selected as Gyeonggi-do Promising SME
- June 29, 1998 Selected as Superior Technology Company (Technology Credit Guarantee Fund)
- June 28, 2000 Designated as Venture Company
- Aug. 1, 2000 Registered as water quality measurement agency (Gyung-In Regional Environmental Office)
- Oct. 19, 2001 Designated as water quality and toxic chemicals environment management agency
- June 5, 2002 Awarded Minister of Environment Distinguished Service Medal
- Nov. 15, 2002 License acquisition for intermediate waste disposal business
- May 19, 2003 Registration as waste water disposal service
- Jan. 16, 2004 ISO9001:2000/KS A 9001:2001 Certification
- Jan. 24, 2005 Designated as atmospheric environment management service institution
- June 27, 2005 Establishment of Coreco Co., Ltd.

Air Pollution Prevention Establishment

- Flue gas processing facilities
- BAG FILTER
- CYCLONE
- SCRUBBER
- A/C (Active Carbon) TOWER
- Hazardous gas treatment facilities
- Establishment for the removal of odors
- Industrial ventilation facilities



Water pollution prevention facilities

- Biological treatment system (activated sludge process)
- Physical and chemical treatment system
- Sewage treatment plant
- Water, pure water production system



Industrial machine and plant establishment

- Construction industry machine equipment
- Production of industrial machines, design & construction of plants
- Powder conveyer system and central vacuum dust collector
- Plating and painting facility
- Vacuum evaporator system



Measurement and commission agent service

- Measurement agent for air, water quality and noise vibration
- Commission agent for air, water quality environmental facility
- Management of toxic substances

Waste water treatment service

Intermediate waste disposal business



305 royalfirstvill, 1733-5
 Jeongwang-dong, Siheung-si,
 Gyeonggi-do
 Telephone +82-31-319-1921,2
 Facsimile +82-31-319-1924
 E-mail pmj0228@nate.com
 URL www.gana1.co.kr

Introduction

This company strives to overcome the severity of environment pollution and tries to give a clean environment to our children. Through priceless experience and technology of excellent workers, the company is continuously expanding its business area. We will listen to your voices and try to find the best solution for your company. Do not hesitate to send us your suggestions.

Water quality environment sector

Physical chemistry treatment facility

Polluted materials in domestic sewage and waste water are removed by inserting chemicals in organic and in-organic colloid forming solids in domestic sewage and waste water as well as heavy metal and other polluted particles in dissolved form.



Physical chemistry treatment facility

Biological treatment facility

This is the method of removing the organic substance and microbes existing in the waste water by using the bio-degradable chemical oxygen demand(BDCOD), and this is used in disposition of plant waste water, living sewage and livestock waste, and it is also used in removing the substance that is hard to dispose, such as, nitrogen or phosphorus.



Biological treatment facility

RO (Reverse Osmosis) SYSTEM

High density nitrogen.phosphorus process method



RO(Reverse Osmosis) SYSTEM

Atmospheric Environment Sector

WET SCRUBBER

Possible hot temperature gas disposition, Possible for various harmful gas removals, Possible to remove the stench substances



WET SCRUBBER

A/C Tower

Possible to remove odor and VOC materials, Possible to structure the recovery system for organic agents, Disposition system is simple and easy to manage



A/C Tower

Bag Filter

Fast filtering speed, High dust collection efficiency-dust removal of 99% or more, Schedule for pressure loss by the consecutive exhaustion method, With the broad filtering fabric selection, it is not influenced following the dust types.



Bag Filter

CYCLONE, Multiclone

Possible hot temperature gas disposition, Affordable maintenance cost with its simple structure, Ideal for pre-processing stage for filtering dust collection facilities



CYCLONE, Multiclone

#401, 101-1BL Sihwa
Gongdan3ga, Jeung wang-
Dong, Siheung-City, Gyeonggi-
do, Korea
Telephone +82-31-434-5454
Facsimile +82-31-434-5460
E-mail gcmkorea@naver.com
URL www.gcmkorea.com



Natural Water Purification
Reagent **GMANTOS**

Introduction

In order to treat and purify heavily polluted streams, ponds, lakes, rivers in nature and pre-treatment seawater desalination using eco-friendly methods, we have developed a natural water purification reagent based on natural minerals which minimize the impact on the environment and successfully treat heavily polluted water and other waste water without causing secondary contamination in comparison with chemical based reagents.

We are an eco-friendly venture corporation with highly defined and advanced technologies, simplifying the treatment processes with a highly integrated process, accompanies by economically excellent effects including reducing stench level, prevention and stabilization of algae blooms and sludge.

Core Technology

“Natural Composite Materials” which can remove organic materials, nitrogen(N), phosphorus(P), stench and green algae generating factors simultaneously.



Technical products

GMANTOS - nano natural composite material

- Powder type - average size of 10 micro fine particles
- Liquid type - ionized products with nano-sized particles

Business Area

Stream / River Purification Business

Low costs, high efficiency methods of construction which can be applied to various kinds of stream and river. Remove stench, reduce BOD, COD and prohibit secondary contamination.



| Stream / River Purification Business

Purification business for lake and artificial pond in golf course

Purify the lakes and artificial ponds in golf course through removing stench, green algae, nitrogen(N), phosphorus(P), suspended solids(SS) simultaneously.

Improve the turbidity and stabilize the sludge.



| Purification business for lake and artificial pond in golf course

Treatment for wastewater and discharged water

The 1st treatment of sewage and 3rd treatment of the outflow water (effluents) and discharged water. Remove stench, nitrogen, phosphorus simultaneously and reduce BOD, COD levels. Improve the sludge dehydration efficiency.



| Treatment for wastewater and discharged water

Pre-treatment of the desalination of seawater

Aim at seawater purification for the pre-treatment of desalination with high efficiency and low costs.

Control & pre-prevent a red-tide. Remove stench and treat for SS, COD, T-P, T-N and stable treatment efficiency as well as eco-friendly treatment. No secondary contamination.



| Pre-treatment of the desalination of seawater

Fish farm & Aquarium Business

Accelerate live-fish's growth, strengthen immunity due to the improvement of fish farm's water quality. Remove ammonia, sulfide, nitrous acid, mucic acid, uric acid and prevent fish disease. Decrease the death rate of fishes by cleaning bacterium and prevent green algae generating and moss.



| Fish farm & Aquarium Business



Green EnTech Co., Ltd.

B-1101, Woolim Lions, 371-28,
Gasan, Kumchun, Seoul, Korea
Telephone +82-2-2026-5400
Facsimile +82-2-2026-5410
URL www.getc.co.kr

Introduction

Green EnTech, an enterprise that leads the environmental industry in the 21st century.

Green EnTech is a company specializing in the design, engineering, manufacturing and installation of environmental pollution protection facilities as well as water and wastewater treatment systems. Ever since its establishment in 1991, it has experienced continuous growth through being operated by capable and passionate engineers with tremendous domestic and overseas experience.

Green EnTech is devoted to the future environmental industry through unremitting research and development of technologies as well as talented personnel centered management. By aggressively participating in globalization in this global age, it has entered into technical cooperation agreements with world leading environmental enterprises to acquire their outstanding technologies and accumulated expertise.

Green EnTech promises to make itself a specialized enterprise leading the environmental industry in the 21st century by striving endlessly for customer satisfaction and water quality improvement through the supply of first class products and services to all its customers.



Business Field

Wastewater Reuse System ,Sewage and Wastewater Treatment System
 Membrane Technology System, Advanced Sewage Treatment System, Drinking Water Treatment
 Ultra-pure & Pure Water Treatment ,Desalination System , Vacuum Sewer Collection
 Environmental Engineering , Environmental Facility Management & Operation

Our Products & Technologies

Zero-discharge (100% Reuse) Plant

Wastewater from industrial plant can be treated to fresh water by MF & RO system. The Concentrated is treated by Evaporator completely and there is not any wastewater discharging.

Sewage & Wastewater Reuse System

Effluent from sewage and wastewater treatment plant used as raw water can be treated to fresh water to be used in industrial plant.

Membrane BioReactor System

MBR system is a bioreactor using membrane instead of sedimentation tank. It a compact and economic hybrid bio-treatment system.

UV Disinfection System (MEGApulse)

Pulse UV disinfection system use powerful pulse UV lamp which has intensive UV radiation and can disinfect the pathogenic protozoa, E. Coli, virus, bacteria efficiently. This pulse UV lamp has the treatment capacity over twenty times of a conventional mercury lamp, so it can disinfect the water economically.

Airvac System

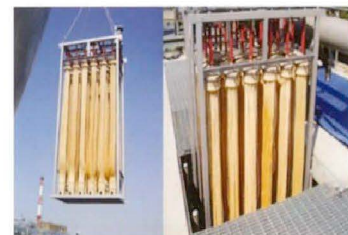
The AIRVAC system has the advantage that it can be easily installed at any place within the limit of allowable internal vacuum loss to a piping system. Therefore, it is the perfect watertight sewer collection system and prevented the leakage of sewage and odor.

Constant Level Sequencing Batch Reactor (CSBR)

The CSBR process is the advanced technology used for removing nitrogen and phosphate. It fully sticks to treatment fundamentals with simple system construction and low manitenance cost.



| Sewage & Wastewater Reuse System



| Membrane BioReactor System



| Airvac System



| UV Disinfection System



| CSBR System



Greenpe Co., Ltd.

603 Neighbor City Building,
1145-2 Jung-dong, Wonmi-gu,
Bucheon-si, Gyeonggi-do,
Korea
Telephone +82-32-328-9101
Facsimile +82-32-328-9104
E-mail
webmaster@greenpe.co.kr
URL www.greenpe.co.kr

Introduction

Our company composed of Professional Engineers that specializes on water quality and water pollution prevention business facilities.

- Have wide experience in various design/construction and have capable human resources
- Have research center and equipment/instruments
- Conducts Turn-key construction

Major information for our specialized technology

Industrial Wastewater

- Advanced treatment technology for high concentration microorganisms and for nitrogen and phosphorus containing wastewaters.
- Advanced treatment technology for high nitrogen and phosphorus wastewater containing heavy metals.
- Advanced treatment for wastewaters generated in glass surface treatment.



Food Waste

- Food waste treatment technology using anaerobic digestion.
- Advanced treatment technology for the removal of nitrogen and phosphorus in the food waste leachate

Livestock Waste

- Advanced treatment technology for pathogens/microorganisms, nitrogen and phosphorus.

Design/Supervision/construction

- Provides basic and detailed design, construction, commissioning, guarantee performance and so forth.

Research and Development

- Supports national research, academic research, collaborated industrial research and pilot test research.

Intellectual Properties

Registered patents

- Treatment methods and systems for ammonia containing wastewater
- Treatment methods and systems for industrial wastewater from treatment of metal surfaces which contains high concentration of nitrogen and phosphorus
- Pulse methane fermenter

Registered utility model

- Nitrogen removal system for plating wastewater without the need for sedimentation tank and chemical reactor.



PACIFIC GLASS (AMORE) -
Wastewater treatment construction



Banwol Plating Industry Cooperative -
Wastewater treatment construction



PASTEUR - Wastewater treatment
construction



GREENPLA Co., Ltd.

475-3 Gorim-dong, Yongin-si,
Gyeonggi-do, 449-921, Korea
Telephone +82-31-321-6600
Facsimile +82-31-335-5079
URL www.greenpla.com

Introduction

The development of scientific technology brought a material abundance but it also brought about an environmental pollution. Now a clean environment became the long-cherished desire of mankind. Greenpla Co., Ltd. hereby launched in 2002 with a calling to make the environment in harmony with nature and mankind.

Our company provides only the technology verified through continuous experiments and the data collection with the technology of research + jobsite center instead of research-centered techniques.

Greenpla Co., Ltd, will supply new environmental technology for the happiness of human race with incessant R&D in future and dash forward to become an Environmental General Company as it is.



M.B.R System Summary

Install the membrane in bio-treatment reactor to separate and concentrate active micro-organism.

Features of Submerged Block Membrane

Prevent the deterioration of the sludge bulking condition often occurring in the biological disposal process and the treated water-purity by means of pin-floc with a perfect solid-liquid separation, and secure a good quality of treated water-purity stably.

- Staying time in hydrography shortens and a final settlement tank is not necessary, the area of installation site reduces, so the initial investment is cheap in the construction.
- Can operate Solid Retention Time(SRT) for a long time, Sludge amount generated reduces, maintenance cost is low.
- Available in unmanned automatic operation and general control, easy in maintenance.
- Cassette structure prevents twist in lifting and improves durability.
- Possible to wash chemicals during the normal operation of the system and wash them separately, and keep the best disposal performance.



Hyundai Univ- Tianjin, China(MBR)

Applications

- Sewage Water Treatment
- Sewage/Wastewater Treatment of Village
- Water Recycle System
- Pool Treatment
- Leachate Treatment

Quality of Water

	Influent(mg/L)	Effluent(mg/L)	Removal Rate
BOD	211	< 5	> 95%
SS	204	< 1	> 99%



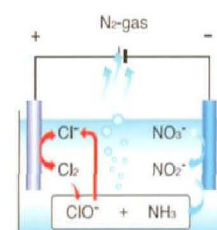
Dae Jin High-Tech electronics Guangxi, China(ECR)

Electrochemical Reactor

Electrochemical treatment system can conduct oxidation & reduction simultaneously in one reactor.

Main Effect	Electrochemical Oxidation & Reduction	Nitrogen, Cyanide, Color treatment, Non-degradable organics
Sub Effect	Electro-coagulation	Heavy metals
	Electro-flotation	SS, Turbidity, Oil
	Electro-sterilization	Sterilization

- Non-degradable wastewater
- Chemicals(medicines)
- Leathers
- Electronics
- Landfill leachate
- Plating wastewater
- Dyeing wastewater





Greenwell Co., Ltd.

102-209 Buchon Techno Park 3
Cha, 36-1 Samjeong-dong,
Ojeong-gu, Bucheon-si,
Gyeonggi-do, Korea
Telephone +82-32-624-1300~3
Facsimile +82-32-624-1304
E-mail greenwell@hanafos.com
URL www.greenwell.co.kr

Introduction

Solvent for Water Treatment Problems

- Manufacturer of devices for apartments, buildings, public buildings, drinking water in factories
- Low energy seawater desalinization system
- Seawater desalinization system for water supply to isles region
- Ultra pure production equipment for pharmacy and semi-conductors
- Desalting and concentrating system for precision chemical products
- Wastewater reclamation and reusing system (Dual water supply) for large sized buildings and public buildings



Greenwell's Concept

- Specialized company in water treatment facilities with 15 years of experience in filtering
- Government's certification of new technology in nano separation membrane applied technology for precision chemical products (No. 2000-28)
- Selected as a Promising SME, Promising Advanced Technology Company by the Small & Medium Business Administration
- Development of various water treatment new technologies through company-affiliated research institute
- Micro filtration, ultra filtration, nano filtration, reverse osmosis systems depending on the purpose of use
- Efficient design for source water quality and the purpose of treated water
- Technical consulting that solves water treatment-related problems

Characteristics of Greenwell's separation membrane water purification system

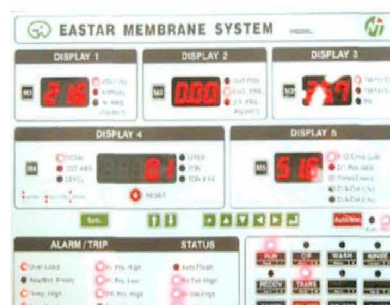
- Easy maintenance with low cost and low energy consumption
- Easy design using less manpower
- Low consumption design without filter media such as consumable cartridge, active carbon, etc.
- Protection of membrane and long term use through membrane cleaning method (Patent No. 275928)
- Digital control and various safety control function in case of malfunction by operator
- Prepared for membrane fouling through easy automatic membrane cleaning
- Compact design which allows operation in narrow spaces



Nano-membrane desalting, concentration system



Reverse osmosis system



Low energy seawater desalination plant -Hawaii Energy Saving R/O



Dye desalting and concentration system - KISCOZOL Dye Desalting



Ultra pure manufacturing system -SK Chemical Pure Water



Waste water treatment and water re-use system SEVERANCE HOSPITAL water re-use system (dual water supply)

1034-2 Gisan Building 5F Ingye-
dong Paldal-gu Suwon-si
GyeongGi-Do
Telephone +82-31-234-3234
Facsimile +82-31-234-3509
E-mail super7073@hanmail.net
URL www.haesungeng.com

Introduction

Disinfection Device(HI-OZONE)

Outline

- The strong sterilizing power of the ozone water destroys the cell membrane and DNA of coli, vibrio, salmonella, O-157, staphylococcus aureus and others within a few seconds to a few minutes. Sterilization is complete when the activity of the bacteria is neutralized.

Equipment

- Economy : 80W of electricity required, high-purity ozone-sterilized water is generated, high performance for low cost
- Durability : The optimized design means that continuous, 24-hour operation is possible, without an excessive load being placed on the product
- High efficiency : 90~99% sterilization
- Stability : Composed of stable devices
- Convenience : small size and simple operation through unification of components



HI OZONE1



HI OZONE2

Use

- Group Feeding Facilities - sterilizing kitchen utensils, management of food including vegetables (removing agricultural chemicals and maintaining freshness)
- Hospitals - sterilizing medical instrument and clothing, pathogenic - bacteria - removing devices
- Industrial Plants - food manufacturer (sterilizing workplace floor and sanitary fixtures), sterilization of industrial water, wastewater treatment devices
- Building - cooling tower (legionella) sterilizing devices
- Pool - wastewater treatment devices
- Hotels, Resting places - Wastewater Reclamation and Reusing System treatment devices

Wastewater Reclamation and Reusing System treatment devices



Wastewater Treatment Device

Wastewater Treatment Device

- reuse water as water deficiency is worsening
- eliminate displeasure for heavy water user
(ex) stench, chromaticity, bacteria
- waterworks rate reduction as reusing treated sewage for water of toilet

1. reuse water as water deficiency is worsening
2. eliminate displeasure for Reusing water user
ex) stench, degree of thickness, bacteria
3. reduce rate of reusing treated sewage for toilet



Disinfection Device



HANHIM TECHNOLOGY CO., LTD.

#415-871 465-2 geagok-ri
wolgot-myeon Gimpo-city
Gyeonggi-do Korea
Telephone +82-31-981-1113
Facsimile +82-31-981-8311
E-mail master@hanhim.co.kr
URL www.hanhim.co.kr

Introduction

Welcome to HANHIM TECHNOLOGY !!!

Our company, Hanhim Technology, is proud of being a leader in the water processing facility sector of in the 21st century.

We will do our best to continue the development of more advanced technology and offer our clients consistently better services.

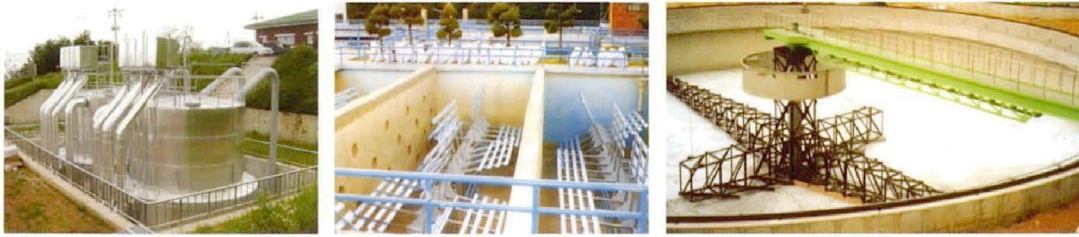
We promise our customers that we will provide them with a good deal of information to meet their needs successfully.

and we will give the profile we have made back to our society to make it better place to live and have shared our profit for our employess promoting their welfare.

We stand as a first class company to reward our customers for their guidance and encouragement.

Thank you so much





Business

Drinking & Sewage water treatment system, Pressure Vessel,
Disinfection dosing system, Chemical feeding system,
Automatic control & Plant system, Sea water desalination system

Explanation

Based on a specialized and independent environmental technology through 20 years of accumulated technology and experience in the environmental sector.

We are holding several environmental new technology such as the water purification treatment technology using reverse osmosis membrane and many patent and utility models.



Clean water processing facility



Sewage processing facility



Waste water processing facility



Sea water desalination facility



Cylinder for specialty gas



H2L Co., Ltd.

213-26 Anyang 7-dong, Manan-
gu, Anyang-si, Gyeonggi-do,
Korea

Telephone +82-31-445-8990~4

Facsimile

+82-31-445-8997.8998

E-mail mhkwon@h21.co.kr

URL www.h2l.co.kr

Introduction

H2L Co. started off as Hwarang Environment Co., Ltd. in 1989, and for 20 years, the company has grown remarkably through technology upgrades and endless development of new technology. It has been rewarded with various environmental technology prizes including the Presidential Award for successful management of new technology by the Ministry of Construction and Transportation and the Ministry of Environment. The company has also participated as the organizing company in the Ministry of Environment's ECO-STAR project, [Development of PVDF hollow fiber membrane and its module for the drinking water treatment], and has succeeded in mass production of PVDF microfiltration membrane for drinking water treatment. It has maintained its reputation as a membrane manufacturer as an environmental construction company. As a part of the Korea-China International Cooperative Project, the company is undergoing Research on the Technology Development for the Removal and Reuse of Nitrogen and Phosphorous by using Cilium Media and MBR.



The company is mainly investing in the module development of separation membrane for water treatment purpose, and has completed the development of PVDF membrane for water treatment. The PVDF membrane is being test-driven at the Guui Water Purification Plant and has set up pilots at Daegu Duryu, Gwangju Gakhwa, and Incheon Bupyeong Water Purification Plant. It will be applied to Yeongdeok Jipum Purification Plant (400m³/d) and will be run by June 2009. Separation membrane module for water reuse (dual water supply) was developed and dual water membrane filtration system was established at the COEX Intercontinental Hotel with a treatment capability of 400m³/d. The water purification (treatment) type PVDF membrane module HIFIM-75 has obtained the NSF certification (Sept. 17, 2008), and will search for overseas opportunities through firm domestic water treatment applications. The CNR process was selected as the Ministry of Construction and Transportation's hi-technology and the Ministry of Environment's new technology. The company has also successfully completed the Ministry of Environment's G-7 Project. The establishment shows excellent efficiency in Sihwa Industrial Complex (279,000 tons/day), Guri complex (160,000 tons/day), Dalseo Watershed (115,000 tons/day). The company will continue to maintain its reputation as a membrane module production company and will concentrate on research and development of sewage and waste water treatment.



| Dual water membrane filtration system in Intercontinental Hotel, COEX



| Commercial plant which will be established at the Yeongdeok Jipum Purification Plant



| Water treatment purpose PVDF Membrane Module HIFIM-75 with NSF Certification [Sept. 17, 2008]



| MBR Plant for waste water treatment



Hanwha E&C

Hanwha Building, 1 Janggyo-
dong, Jung-gu, Seoul, Korea
Telephone +82-2-729-2255
Facsimile +82-2-729-4522
E-mail seo1tak@hanwha.co.kr
URL www.hwenc.co.kr

Hanwha Engineering & Construction

Introduction

Hanwha Engineering & Construction has reached the line-up of large-sized construction companies with an average of 20% annual growth in the last five years. As of 2008, Hanwha Engineering & Construction reached 3,600 billion won in total asset value and 2,000 billion won in sales. The company hopes to earn 4,500 billion won by 2011. Hanwha Engineering & Construction successfully completed large projects such as Daedeok Techno Valley, Seoul Station, Daegu Combined Heat and Power Plant, and is looking to supply to overseas markets such as Saudi Arabia, Algeria, Vietnam, etc. Additionally, the company has become a strong player in the housing industry with its high-quality naturalistic apartment "Dream & Green". The Hanwha Dream & Green World Incheon Eco Metro is currently attracting many investors as Korea's first and biggest city development project, a seacoast town with 12 thousand households will be built on a 2.38 million square-meter site.



| Hanwha Dream & Green World EcoMetro

Hanwha Engineering & Construction was designated as the first private company specializing in water treatment. It continuously develops new technology such as the advanced sewage treatment system HS-aMBR mechanism. The company is also focusing on enhancing its strong points through various SOC private investment projects including roads, railroads and bridges. The company's plant sector has a competitive edge through specializing in the EPC (Engineering, Procurement, and Construction supply) plant project of coal-fired combined heat and power plant.

Based on this competitiveness, Hanwha Engineering & Construction has received the large-scale ethyleneamine plant project, power generation and fresh water plant project from Saudi Arabia, and an oil refinery plant project for Algeria in 2008. The company will continue to target overseas markets such as Southeast Asia, North Africa, CIS, etc., and strive to become the "Global Top Player." Starting with its Chicago Condominium Project, the company will also expand its overseas realty development market.



Taeon Thermal Power Plant (7, 8 units)



Chicago Lancaster Condominium



Incheon Grand Bridge



Guma Expressway

Kolon Engineering & Construction Co., Ltd.

Kolon Tower, 1-23 Byeolyang-
dong, Gwacheon-si, Gyeonggi-
do, Korea

Telephone +82-2-3677-3114

Facsimile +82-2-3677-5601

E-mail mj0118@kolon.com

URL www.kolonconstruction.co.kr

Introduction

A continuous changing enterprise towards tomorrow, Kolon Engineering & Construction has performed numerous projects in the fields of civil engineering, SOC, housing, environment, and plant construction in Korea and overseas, based on its distinguished technology. Kolon E&C is what it is today by constructing various infrastructures which become the basis of our society and continues its steady growth with know-how that has been accumulated for half a century and the development of new technology- always going a step ahead in a systematic system. Kolon E&C is making our brighter tomorrow.



Kolon E&C has been striving to develop environmental technology and expand its capacity. It is now equipped with an advanced system and is always a step ahead in all areas related to the environment, including wastewater/sewage treatment, DI (De-ionized) water/pure water treatment, incineration/dust collection, waste recycling and landfill reclamation facilities. Moreover, Kolon E&C leads the domestic and overseas environment projects as an expert in the environmental field in the manner of providing integrated professional abilities, from developing and planning projects, project financing, design and construction, to management and operation.

The NPR method developed by Kolon E&C holds Korea's highest percentage of the advanced sewage treatment market with 17%, while the KIMAS method is verified as a new environmental technology by the Ministry of Environment. Its technology in the field of sewage treatment is already widely recognized as the biggest advanced treatment process improvement company in Korea, and in the waste treatment field, Kolon E&C treats waste most stably with the latest high-tech facilities, controlling noise, vibration, foul odor of waste thoroughly.

Kolon E&C successfully executes not only domestic environmental projects such as Daejeon City and Masan City's Sewage Treatment Plants, Deoksan Water Treatment Plant, Seongnam and Andong Sewage Treatment Plants, Yongin City and Paju City's Environment Centers, but also overseas projects such as Hanoi and Tian Tan water supply construction works in Vietnam, Ratchaburi water treatment facilities and Chiang Mai water supply facilities in Thailand.



| Daejeon Sewage Treatment Plant



| Chiang Mai water supply facilities,
Thailand



| Ratchaburi water treatment facilities,
Thailand



| Paju Environment Management Center



Korea Engineering Consultants Corp.

4845 kum kwang dong , jung
won gu, sung nam si, Gyeonggi-
do, Korea

Telephone +82-31-888-9881

Facsimile +82-31-888-9899

E-mail jhangkun@unitel.co.kr

URL www.kecc.co.kr

Introduction

This technology is a bioreactor that the liquid such as leachate is infiltrated into the landfill in order to enhance the generation velocity of LFG and shorten stabilization term. Consequently, the practical land use after landfill closed can be available through early stabilization.

- It's the technology to maximize the amount of LFG, increasing the velocity of degradation of organic waste through the addition of liquid such as leachate by gravity flow and a supply facility able to control the infiltrated quantity.
- It's the system which can minimize of the construction area and maximize the effect of facilities.
- It's the technology adding liquid (leachate, etc) by a vertical well installed in each layer to maximize dispersion of liquid (leachate, etc)

Listed on

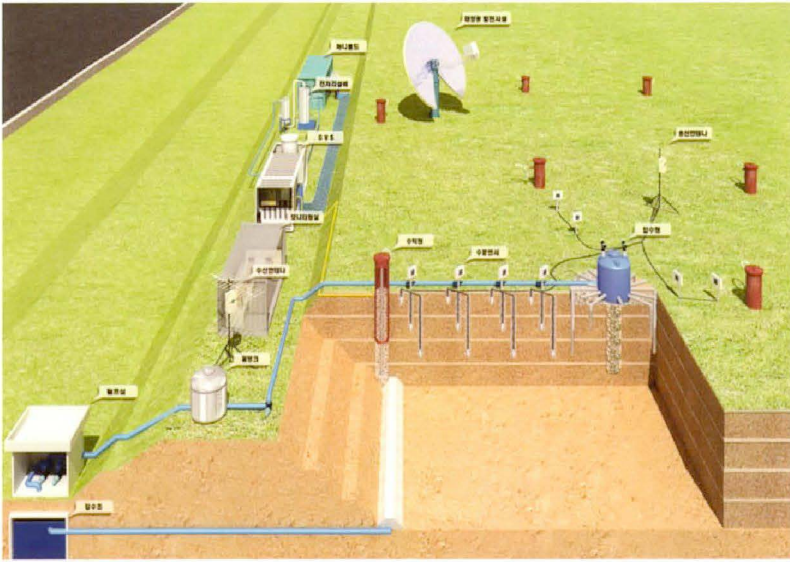
Environmental new technology (No. 245) titled by Bio-reactor technology at the sanitary landfill using gravity flow infiltration system

- Technology to infiltrate leachate and moisture into mid soil cover layer and to minimize odor & construction area
- Technology to distribute moisture evenly and maximize diffusion effect

Patent (No. 10-077433)

- gravity flow leachate infiltration system
- Infiltrating leachate to each layer of the landfill with mid-soil cover layer
- Infiltrating leachate system distributing evenly up and down stage

The Bioreactor using by gravity flow in the sanitary landfill.



Leachate Monitoring system



Boring vertical infiltration well by Auger



Moisture sensor



Wireless transmission



Landfill gas collecting pipe



GBS gas analysis and control panel



Manifold station



Connection to moisture sensor pipe



Infiltration layer



Waste sampling



GBS installation & connection to gas collection pipe

1228-1 Bunji, Singil-Dong,
Ansan -Si, Danwon-Gu,
Gyeonggi-Do
Telephone +82-31-495-0574
Facsimile +82-31-495-0574
E-mail jinho925@naver.com
URL www.pure-envitech.co.kr

- Membrane & System
- Manufacture/Engineering
 - Submerged Flat Sheet Membrane
 - Submerged Block Membrane
 - Hollow Fiber Membrane
 - Reinforced Hollow Fiber Membrane
 - Home Use Fiber Membrane
 - Membrane System

Introduction

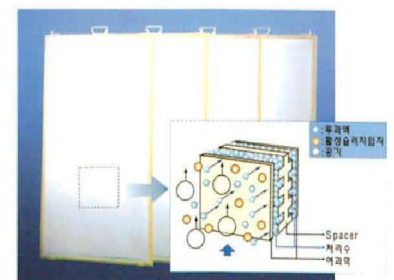
Underwater and waste water type submerged block membrane system by MBR (membrane bioreactor) -ENVIS-

Characteristic

ENVIS[®]SYSTEM is a flat sheet-type MF (microfiltration) membrane submerged into the bioreactor instead of the solid-liquid separation process in the final settling basin. The system completely separates the active sludge and clean water, and uses a porous membrane with nominal diameter under 0.4 μ m for obtaining stability of treated water. A perpendicular waterway was avoided to minimize the inlet resistance for the treated water, and instead the supporting screen in horizontal waterway design was used. To increase the stability of the ENVIS frame, the emission standardizing the ENVIS guide and water pipe were used for compact structure.

Specifications

Category		Specifications
Flat sheet Membrane	Membrane	Material c-PVC
	Size of pore	0.4 μ m
Block Membrane Module	Material	ABS
	Effective area	1.0m ²
	Dimension	W560×H1000×T8(mm)
	Inlet	ID4.5×OD8×2(mm)
	Standard flow velocity at filter	0.3~0.5m ³ /day
	Temperature range	2~38℃
	Pressure range	0~-60cmHg
	Applied pH range	2~10
	Adhesion method	Heat Sealing



Patent No.0500488

Frame structure



ENVIS Frame
Patent No.0441752



Frame Specifications

Model	Size of frame	Size of guide	Capacity of Treatment (ton/day)	Weight	
	(W×D×H)mm	(W×D[width of right and left thread]×H)mm		Dry	Wet
ENVIS-P10	295×685×1010	330×870×2000 height	1~4	65	85
ENVIS-P20	445×685×1010	480×870×2000 height	4~8	95	135
ENVIS-P30	590×685×1010	625×870×2000 height	8~12	130	190
ENVIS-P40	735×685×1010	770×870×2000 height	12~16	165	245
ENVIS-P50	885×685×1010	915×870×2000 height	16~20	185	285
ENVIS-P60	1030×685×1010	1065×870×2000 height	20~24	230	350
ENVIS-P70	1175×685×1010	1210×870×2000 height	24~28	270	410
ENVIS-P80	1320×685×1010	1355×870×2000 height	28~32	305	465
ENVIS-P90	1470×685×1010	1505×870×2000 height	32~36	335	515
ENVIS-P100	1615×685×1010	1655×870×2000 height	36~40	370	580

- The shape, dimensions, and external appearance that this document states are subject to change without notice.
- Tolerance on frame size is ± 10 mm.
- The shape, dimensions, and external appearance that this document states are subject to change without notice.
- The capacity of treatment is the standard for sewage treatment.



Shingang Hi-Tech Co., Ltd

SHINGANG HI-TECH Co., Ltd.

508 Yugong Plaza, 1123-4
Sanbon-Dong, Gunpo-Si
Gyeonggi-Do, Korea
Telephone +82-31-391-3171
Facsimile +82-31-391-3271
E-mail
sinkang@sinkanghitech.co.kr
URL www.sinkanghitech.co.kr

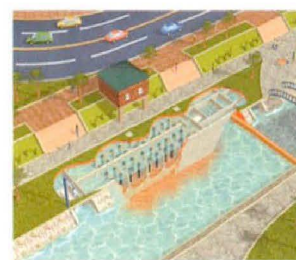
Introduction

The company is known for its technology and for pioneering the market with its technology experience. It is continuously developing new technology for sustainable growth and development and for supplementing existing technology. It has a range of technological experience such as direct cleansing of polluted water and restoration of the ecosystem of lakes, etc. With such technology, the company contributes to environment-related projects such as environmental consulting and supply of environment-friendly construction devices.



ASCO (Aerated String Contacted Oxidation)

This is an environment-friendly biological process that oxidizes and decomposes pollutants by flowing polluted stream water into a purification system which is loaded with biological contactors. Active reaction is possible depending on changes in the amount and quality of inflowing stream water, and the system also allows both low density and high density (over BOD 100mg/L) disposal.



ASCO(Aerated String Contacted Oxidation)

MVFI (Multifunctional Vegetated Floating Island)

This is a multifunctional bio-engineered installation that improves the water quality of a lake and produces beautiful scenery by setting emergent plants on an artificial floating island and attaching biological string media underneath, thus providing a habitat and spawning bed for fish. The installation removes nutrient salt and creates water-friendly scenery with plants and cleans the water through biological contactors.



MVFI(Multifunctional Vegetated Floating Island)

SAB (Shingang Advanced Biological Reactor)

This is an advanced aerobic biological reactor with high-efficiency treatment for high density organic wastewater such as livestock excretions and food waste leachate. With a high load rate (5~20kg BOD/m³.day), this technology decreases the amount of staying time and yields a high treatment efficiency, coping with various loads, pH changes and stress from obstacles.



SAB(Shingang Advanced Biological Reactor)

Artificial wetland

This installation is a man-made wetland that purifies water through the imitation and reform of natural purification capacity. The artificial wetland method is applied to treating various pollutants such as nonpoint pollution, domestic waste water, farm waste water, mine waste water, etc.



Artificial wetland

#206 Sihwa Industrial Complex
4-Da, 659-6 Seonggok-dong,
Danwon-gu, Ansan-si,
Gyeonggi-do, Korea
Telephone +82-31-499-4421
Facsimile +82-31-499-4420
E-mail niceguy@taset.com
URL www.taset.com

Introduction

Quality Management Policy
Customer Satisfaction

Date of Establishment
November 1, 1985 (Incorporated on August 23, 1992)

Main Products
Sewage Treatment Equipment, Water Purification Equipment,
Environmental Equipment, Incineration Equipment

Strong Points

- Nation's No. 1 manufacturer in water purification, sewage, waste water treatment construction
- 24 years of experience in water purification/waste water treatment sector



Introduction of Products/Sewage Treatment Facilities

Grit removal and screening equipment

- Double chain-operated bar screen
- Rotary typed automatic dust remover
- Spiral flow grit remover
- Pretreatment package with spiral flow grit remover
- Jet flow grit remover
- Grit cleaning separator
- Principal-axisless /principal axis screw conveyor



| Surface Aerator

Sedimentation Basin Equipment

- Non-metal Sludge Collector (rectangle/circular)
- Metal Sludge Collector (rectangle/circular)
- Step Sludge Collector



| Non-metal sludge collector & Hopper

Bioreactor/Advanced treatment equipment

- Submersible aerator (reducer type)
- Submersible aerator (direct linkage type)
- Surface aerator

Water supply equipment

- Up-flow sand filter
- Pressure flotation equipment
- Automatic backwashable sand filter machine



| Circular sludge collector

Digestion/Thickening/Dehydration equipment

- Gas storage tank
- Gas compressor

Silo equipment

- Silo equipment
- Hopper, tank equipment

Intake screening system

- Traveling screen
- Rotary bar screen
- Stop gate



| Spiral flow grit remover



| Screen



| Impeller



Biothys Asia Co., Ltd.

616-4 na, Janghang-Dong,
Ilsandong-Gu, Goyang-Si,
GyeongGi-Do, 410-834, KOREA
Telephone +82-31-703-7123
Facsimile +82-31-703-7124
URL www.biothys.co.kr

Introduction

Biothys Asia is specialised in developing technical solutions to treat olfactory pollution using chemical, physical-chemical and biological ways. Biothys Asia designs, perfects and develops innovative procedures based on active agents that are individually suited to each type of application. Our sphere of activity ranges from industry in general, including the chemical, petrochemicals, foodstuffs, iron and steel and surface treatment industries, to the hygiene sector, including the hotel industry and public sector, as well as waste and sewage treatment equipment. Due to its experience gained over a number of years Biothys Asia has been made able to meet the requirements of the largest industrial groups. Our Research and Development laboratory carries out applied research programmes for the specific requirements of our customers.



| Products of Biothys

Strong point of product

- A high-strength sterilizing power
(Surface-H Air : Deodorization and sterilization of colon bacillus and staphylococcus 99.9%)
- Removing the mold smell perfectly by removing the roots of mold
- The confidence of Biothys France which is studying only a removal a bad smell
- A harmless product to people containing natural plant extracts
- A product is developed for removing a bad industrial smell and has a deodorization effect
- Various products for many causes of the awful smell
- Possible to apply the blending products for field-specific
- A treatment olfactory pollution with a small outlay(Economical Efficiency)
- An addition to the fresh fragrance
- It doesn't affect to workers or facilities because it removes the awful smell by sublimation of molecule activities.

Equipment of deodorization

AirForce™,3

Treatment of Exhaust-Air : The Gelactiv™, stops working at temperatures higher than 60°C or when there are too many small particles in the air-stream. The AirForce™,3 "sucks" with a ventilator the Biothys™.-Molecules from the Gelactiv™.-plates and blows these into the air-stream.



| AirForce (Equipment of deodorization)

Clean Turn House

It is an equipment of deodorization which has a function to sterilization, deodorization, extermination of vermin and surveillance cameras of household waste and food garbage collection sites. It is also a useful system to change a door to door collection of waste into major waste collection and is more environmental and more economical.



| Clean Turn House (Equipment of deodorization)



| For industrial



| SuDoKwon Land fill



| Clean Turn House(before)



| Clean Turn House(after)



Chemsfield Co., Ltd.

3rd FL., Daewoo City Plaza 115
Juyop 2 West Ilsan, Goyang-Si,
GyeongGi-do, Korea
Telephone +82-31-918-0652
Facsimile +82-31-918-7767
URL www.chemsfield.com

Introduction

Chemsfield Korea Co., Ltd. was founded in 1993 as an environmental protection speciality company manufacturing eco-friendly heavy metal precipitation, high-efficient oxygen releasing agent and soil recovery agent.

Chemsfield environment products are all patented and well known in worldwide markets since past decade because of its eco-friendly, high efficient and cost saving characteristics



Na3T-15

Environmental friendly & Most effective Heavy metal precipitator

- Na3T-15 is a ready to use solution for the precipitation, stabilization of heavy metal in waste water streams and contaminated soil
- Na3T-15 is significantly less toxic and safer to use than comparable heavy metal remediation agents such as dithiocarbamate and sodium trithiocarbonate (LC0:12,000mg/l)
- Odorless - no unpleasant smell
- Simple & easy to apply
- Economical & cost saving

SOREM

Oil contaminated soil remediation & recovery compound

- High Economical Efficiency: Approx. 30% High efficiency compare to Fenton oxidation
- Do not generate VOC
- No unplesant smell Furthermore, SOREM removes other Odors occurred by organic materials in contaminated soil and oil



| Na3T-15 Environmental friendly & Most effective Heavy metal Precipitator



| Na3T Powder



| SOREM Oil Contaminated soil remediation & recovery compound

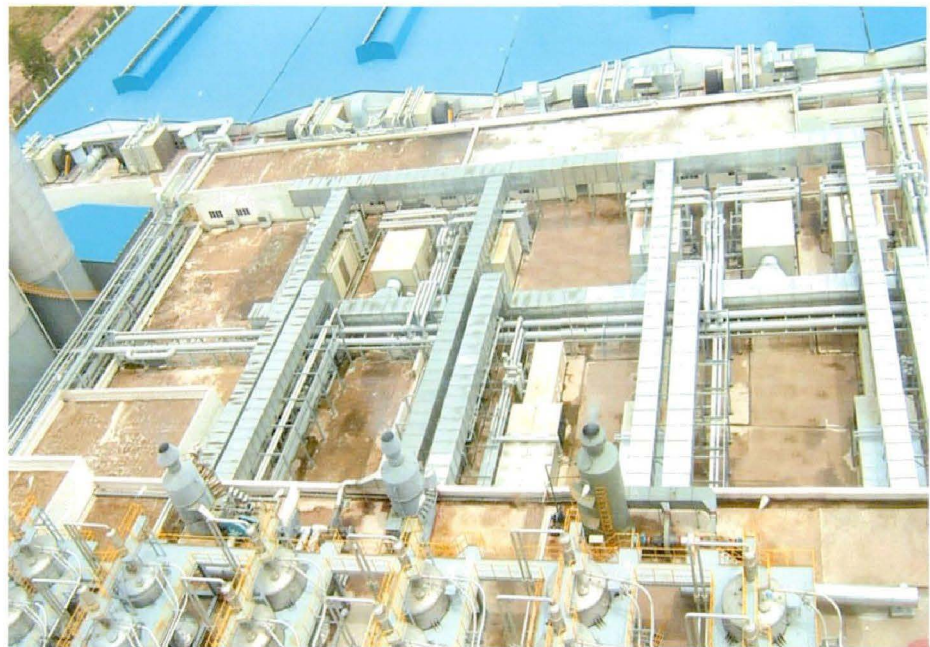


DUKSAN Air Conditioning Machinery Co., Ltd.

437-1 Wonsan-ri Hasung-
myun Gimpo-si GyeongGi-Do
Telephone +82-31-997-5770
Facsimile +82-31-997-5771
E-mail DS9807@hiteL.net
URL www.duksan21.co.kr

Introduction

Duksan Co. is a leader in the cooperative facilities environment sector, providing equipment to various production sites and ventilation equipment as well as air cleaners and air/heat conditioning to offices. It specializes in removing odors and bacteria which cause air pollution. The company has experience in construction and production not only locally but also in the U.S., China,, Vietnam, India, Egypt, Russia and other countries.



Introduction to technology

EG Clean Air Conditioner uses high pressurized water which reduces cooling energy power, and does not use filters. This results in highly effective energy reduction. The technology is used in the paper, wood, and tobacco industry sector as well as semi-conductors, clean rooms, electric power rooms and underground storage.

Business Sector

- Construction of cooperative facilities
- Production of cooperative facilities
- Execution of cooperative facilities
- Diagnosis of cooperative facilities
- Management of maintenance

Products

- Air Conditioner (EG Clean Type)
 - EG Clean Type Air Conditioner
 - Horizontal Type Air Conditioner
 - Combination Type Air Conditioner
 - Built-up Type Air Conditioner
- Fan & Blower
 - SIROCO FAN
 - AIR FOIL FAN
 - AXIAL FLOW FAN
 - TURBO FAN & BLOWER
 - IN LINE FAN
 - VENTILATOR



| Transformer Plant



| Clean Room



| Conference



| Pipng work around A.W.U

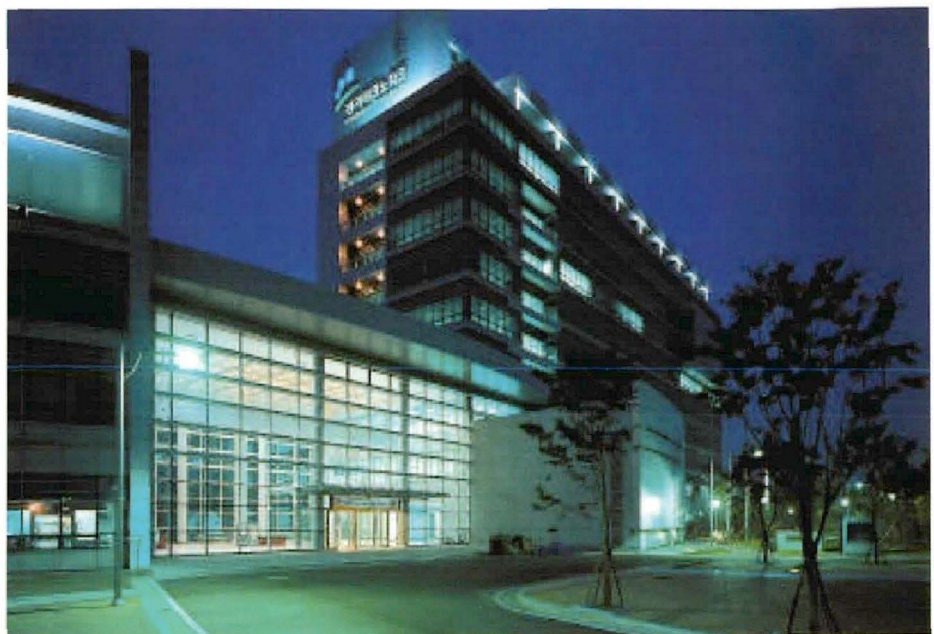


| EG Clean Air conditioner

403 Gyeonggi Techno Park
Technology Advancement
Center, 1271-11 Sangnok 4-
dong, Ansan-si, Gyeonggi-do,
Korea
Telephone +82-31-500-4010
Facsimile +82-31-500-4013
E-mail j-tech@j-etech.co.kr
URL www.j-etech.co.kr

Introduction

J-ETECH CO., LTD. is a company with a bright future in manufacturing industrial air pollution control facilities, supplying environmental equipment that disposes of fine particles, dust, VOCs, odors etc. It has technology which has been approved by the government (Ministry of Environment). HI-FILTER, a technology for reducing fine particles, is evaluated as an international technology that corresponds to the international environment standard (WTO). The SLOT HOOD SYSTEM, which removes hazardous waste that occurs in the process of zinc dipping plating (hot dip galvanizing), is praised not only in Korea but also in China, Taiwan, Japan and other countries. The company strives to supply low-cost high-efficiency air pollution reduction devices for customer satisfaction.



Removal Technology of Fine Particles- Hybrid Electrostatic Bag Filter (HI-FILTER)

- Hybrid of bag filter dust collection technology and electric dust collection technology
- Corresponding to the WTO dust emission density - removal of submicron (less than $1\mu\text{m}$) particles
- More than 99.99% effectiveness for removing dust particles
- Decreasing establishment area by having a compact establishment space
- Decrease in establishment expenditure by more than 30% and maintenance costs by more than 50%
- Applied in thermal power plant, coal, cement, crude oil products, metal melting furnace, heavy oil combustion work sites



Hybrid Electrostatic Bag Filter System(HI-FILTER)

Hazardous substance removal technology from hot dip galvanizing tank -SLOT HOOD SYSTEM

- Exterior air isolation screen (BAFFLE), land type HOOD, DUCT
- Perfect collection of polluting substance (fume) - prevention of scattering into air
- More than 99% effective in dust collecting
- Improvement of working conditions
- Applicable to hot dip galvanizing,,plating process line



SLOT HOOD SYSTEM(BEFORE)



SLOT HOOD SYSTEM(AFTER)

Removal technology for volatile organic compounds (VOCs) - H.T.O. (Hybrid Thermal Oxidation)

- Combination of RTO (Regenerative Thermal Oxidizer) and RIO
- Multi bed waste heat recycling more than 98% thermal efficiency
- Catalytic oxidation system, High efficiency VOCs removal system - more than 97% removal efficiency
- Applicable to petrochemistry, automobile paints, printing, food processing work sites



H.T.O



KOREA POWER ENGINEERING COMPANY, INC.

257 Youggudaero, Giheung-gu,
Yougin-si, Gyeonggi-do,
South Korea 446-713
Telephone +82-31-289-3114
Facsimile +82-31-283-6215
URL www.kopec.co.kr

Introduction

KOPEC, a Global Leading Eco-friendly Engineering Company!

Since its establishment in 1975, KOPEC has attained remarkable achievements in very short span. The achievements include successful eco-friendly design of numerous power plants, both fossil and nuclear within Korea and abroad. The excellence of the KOPEC designs has been proven in various plant performance indices, such as safety, usage factor, and operation and construction cost competitiveness.

Utilizing the technical know-how and extensive experience gained through power plant projects, KOPEC has been involved in a great number of environmental projects such as CO₂ reduction project, CDM(Clean Development Mechanism) project, which is one of Kyoto mechanism of UNFCCC, ESCO(Energy Service Company) project, new&renewable energy project.

The technology and engineering expertise of KOPEC has been internationally recognized in recent years. KOPEC is now exporting its engineering and design skills abroad. KOPEC is actively pursuing to realize its vision of becoming a global leader in the green engineering field.

Service Provided

Flue Gas De-NOx Project

- KOPEC De-NOx system(KoNOx[®]) turnkey projects and catalyst supply for nitrogen oxides and dioxins removal in exhaust gas
- Power plant performance assessment and analysis projects

Flue Gas Desulfurization Project

- KEPAR(Korea Electric Power Absorption Reactor) system EPC turnkey projects
- FGD system feasibility study

New & Renewable Energy Project

- ESCO(Energy Service Company) projects
- Solar Photovoltaic/Solar Thermal Power, Ocean & Geothermal Power, Wind Power
- Coal Gasification & Liquefaction
- Bio & Waste Energy
- CDM(Clean Development Mechanism) Consulting

Others

- Water pollution control projects
- Waste management projects
- Environment impact assessment project

Licenses & Patents

Licenses : Licensed as a specialized enterprise
for all areas of new & renewable energy projects

Patents

Items	Domestic	International	Total
Registration	15	8	23
Application	2	11	13
Total	17	19	36

Certifications & Awards

Certifications

Certifications	Items	Remarks
Ministry of commerce, industry and energy, Korea world-class product award 2007	Low temperature catalyst	Ministry of knowledge and economy
Ministry of environment, environmental technology verification,[No.64]]	Nitrogen oxides in LNG combined cycle power plant removal technology using catalyst coated with Mn metallic oxides	Ministry of environment
Ministry of commerce, industry and energy certification of new technology	Low temperature TiO ₂ /Mn catalyst for removal of nitrogen oxides in LNG boiler exhaust gas	Ministry of knowledge and economy
Korea environmental industry association	Certification of Korea excellent environmental business	Korea environmental industry association

Awards

- Global green management award from Korea management association
- Nano Korea 2004 award from ministry of commerce, industry and energy
- Eco-friendly management award from ministry of commerce, industry and energy

Flue Gas Desulfurization System
KoNOx Pilot Facility
Wastewater Treatment Facility
Landfill Gas Recycling Facility
Environmental Impact Assessment





KS Engineering Co., Ltd.

#505, Byeoksan-Technopia,
196-5 Ojeon-Dong, Uiwang-Si,
GyeongGi-Do, 437-821, Korea
Telephone +82-31-458-7421
Facsimile +82-31-458-7425
URL www.callksec.co.kr

Introduction

Message From the CEO

Our beautiful earth has been being threatened by the destruction for environment because of the outstanding industrial development and environmental regulation is getting severer and severer because of the strong demanding for well-being life.

KS Engineering Co., Ltd.(KSEC) as a Korean Leading Company for Environmental Business has many professional engineers having over than 10 years experiences and had developed our own technology for waste incinerator, VOCs abatement system, Anti Air Pollution Device such as DE-Sox, DE-NOx & DE-Dioxin which was imported from foreign country. Now KSEC is exporting those equipment to China, Taiwan, Indonesia and the other countries and is getting good reputation for our systems from many customers.

Also KSEC has been invested a lot for research and development for low-cost, energy saving model through cooperation with research center of university for the time being and is preparing the coming next century through the concentrated full power of all employees.

KSEC will do our best to solve a difficult environmental problem with our all fulfill experiences, own technology, research and development and will be a leading company in the world within short time.



- Dec. 2007 Resignation of Kim Jeong-Shin, representative director
- Dec. 2006 Discontinuing the sales branch with the main office transferring to #907, Daehyeon Techno World, 174, Ojeon-dong, Uiwang-si, Gyeonggi-do, Korea
- Oct. 2006 Patent pending with a rotary valve for RTO and a nitrogen-utilizing sewage disposal process
- May. 2006 Obtaining of the ISO 14000 Certification
- Jan. 2006 Acquisition of Daekyung Technos Co., Ltd
- Dec. 2005 Inauguration of Choe Guk-Gyun as an Individual representative director
- Sep. 2005 Certified as a Promising SME in Gyeonggi Province
- Apr. 2005 Certified as a Venture Company with New Technology (certification no. 051624032-3-00411)
- Mar. 2005 Patent pending with a rotary valve for RTO and a nitrogen-utilizing sewage disposal process
- May. 2004 Obtaining of the ISO 9001 Certification
- Dec. 2003 Transferring the Gyeonggi Provincial sales branch to #907, Daehyeon Techno World, 174, Ojeon-dong, Uiwang-si, Gyeonggi-do, Korea
- Oct. 2003 Inauguration of Kim Jeong-Shin as the representative director
- Aug. 2003 Changing the company name to KS Engineering Co., Ltd. with the main office transferring to 144, Deogu-ri, Bongdam-eup, Hwaseong-si, Gyeonggi-do, Korea Establishment of the Gyeonggi Provincial sales branch at 200-1, Dangjeong-dong, Gunpo-si, Gyeonggi-do, Korea
- Jun. 2003 Completion of the Hwaseong Plant
- Mar. 2003 Certified as a Venture Company with New Technology (certification no. 031635032-2-285)
- Jun. 2001 Designated as a Promising Exporting SME by SMBA of Korea
- Jun. 2001 Receiving an order from Kuan Yeh for the third line of an APCD
- Dec. 2000 Establishment of Environmental and Technological Institute of Kumsung Engineering, the R&D center
- Dec. 2000 Receiving an USD 150,000-worth order from Kuan Yeh for the second line of an APCD
- Mar. 2000 Purchase of factory site in Deogu-ri, Bongdam-eup, Hwaseong-gun, Gyeonggi-do, Korea
- Nov. 1999 Receiving an USD 1,880,000-worth order from Kuan Yeh, a Taiwanese company, for a device controlling air pollution at the rear part of an incinerator (APCD)
- Feb. 1999 Establishment of Kumsung Engineering Co., Ltd. Inauguration of Lee Tae-Shik as the representative director



ITEM

VOC & ODOR REMOVAL PLANT

THERMAL OXIDIZER(TO), CATALYTIC THERMAL OXIDIZER(CTO)
 REGENERATIVE THERMAL OXIDIZER(RTO), REGENERATIVE CATALYTIC OXIDIZER(RCO)
 ADSORBER, CONDENSER, SCRUBBER, ETC.

WASTES INCINERATION PLANT

STOKER TYPE INCINERATOR
 FLUDIZED BED INCINERATOR
 AGITATOR TYPE INCINERATOR
 WASTE LIQUID INCINERATOR
 ROTARY KILN INCINERATOR

NO_x , SO_x , CO GAS REMOVAL PLANT

N₂O ABATEMENT SYSTEM(RCS)
 SELECTIVE CATALYTIC REDUCTION SYSTEM(SCR)



Seah Green Tech Co., Ltd.

603, Dong Yeoung Venturestel 5
cha, 199-32, Anyang 7-Dong,
Manan-Gu, Anyang-Si,
Gyeonggi-Do, Korea
Telephone +82-31-443-2230
Facsimile +82-31-443-2246
E-mail webmasterf@iseah.co.kr
URL www.iseah.co.kr

Introduction

Seah Green Tech Co., Ltd. was established on December 12, 2001, as a corporation made up of 20 years of experience and talented workers whose mission was to make "Hi-tech Environment Industry that Leads the 21st Century." The workers built the company with an ownership mindset, and the company continues to this day to grow with its up-to-date concepts.

In this 21st century, yesterday's dream is today's reality. From the 21st century FRP industry sector to the development of advanced materials in the environment sector, the company will continue to create the flow based on its know-how, and research and development in new fields. With environment being a key issue which cannot be avoided in today's world, Seah Green Tech Corporation Ltd. will give its utmost to save our environment.

Patent and current technology retentions



- Dec. 20, 2001 Establishment of FILAMENT WINDING MACHINE
- May 22, 2002 Acquisition of special construction business license
- Oct. 9, 2002 Acquisition of air pollution prevention facilities license Construction of Research Center and Specialized Constructions Unit
- Apr. 6, 2005 Registration of utility model for damper gas flow controller
- Jan. 9, 2006 Application of utility model for impeller safety cover using FRP and steel
- Apr. 27, 2006 Application of utility model for mass flow controller
- Sept. 15, 2006 Application of utility model using fan with cap for maintaining impeller balancing
- Feb. 9, 2007 Impeller safety cover using FRP and steel, and its production method
- June 10, 2008 Registration of Patent for Multi Scrubber

Introduction to the product

1) WET HORIZONTAL SCRUBBER

- Characteristic
 - The wet scrubber produces large amounts of liquid drops and a liquid sheet to ease contact with the gas being treated so that the noxious gas and dust in the exhaust gas can be removed
- Key features
 - Excellent treatment efficiency / Easy repair of content filling
 - Little chance of operation pressure loss



2) WET VERTICAL SCRUBBER

- The energy in the treated gas is designed to maximize the collision area needed to create energy for dust. The direction of the sprinkling is opposite the direction of the insertion of treated gas, so the gas distributes circulatory cleaning liquid inside the scrubber. Thus, the amount of dust is increased because it is inserted into turbulent flowing conditions.



3) ACTIVATED CARBON FILTER

- Characteristics and key features
 - Maintenance of high efficiency through large adsorption area
 - Simple structure and small area for the gas amount
 - Little pressure damage due to special inner structure
 - Easy repair and replacing of active carbon, and circular or rectangular design & manufacture depending on the installation area



4) FAN & BLOWER

- Characteristic
 - No rusting and small chances of disorders, as the FRP impeller and FRP casing that is in contact with gas is ultra · corrosion-resistant resin
 - Smooth flow of impeller and FRP casing allows a large amount of wind and wind pressure to produce operations efficiency to 70-85%, resulting in economical operation
 - Little operation losses and minute noise production
- Key features
 - High efficiency, strong corrosion resistance and trendy outer design
 - Simple examination process / Easy to attach/detach the bushing type of pulley and impeller
 - Rust prevention through corrosion-resistant resin / Easy to disassemble the whole fan
 - Easy management of belt, motor, bearing due to safety covers for each



203-304 Bucheon Technopark,
192 Yakdae-dong, Wonmi-gu,
Bucheon-si, Gyeonggi-do,
Korea
Telephone +82-32-621-0900
Facsimile +82-32-621-1009
E-mail
w3master@trionkorea.co.kr
URL www.trionkorea.co.kr

Introduction

Company Profile

- July 1990 Establishment of Eugene Continental Co., Ltd.
- Mar. 1992 Contract with U.S. TRION INC. on technology cooperation
- Feb. 24, 2000 Establishment of independent corporation Trion Korea Co., Ltd.
- Feb. 2001 Establishment of Research Institute (No. 20022261)
- Nov. 15, 2001 Moving of Head Office to Technopark (Venture Fostering Complex) in Bucheon
- Dec. 29, 2001 Registration of Utility Model (No. 0260568) and patent pending/ dust collector insulator
- Dec. 18, 2002 Patent application (Patent No. 0366913) / plasma arc cutter dust collector
- Oct. 10, 2003 Utility Model registration (No. 0301936) / cartridge filter cleaning device of dry dust collector
- Dec. 2, 2003 Technology innovation INNO-BIZ Certification (No. 3064-0390)
- May 14, 2004 ISO 9001 Quality Management System Certification (Q0876/01)
- Apr. 1, 2005 Small & Medium Business Corporation-support technology innovative development project commencement (Collection and recycling development of waste DOP GAS)
- Apr. 25, 2005 Venture Business Certificate (No. 20070400246)
- July 5, 2005 Export of dust collector equipment to KIA MOTORS SLOVAKIA Europe factory
- Nov. 10, 2005 CE MARK Certification (Electric dust collector E.P / O.M.C SYSTEM)
- Aug. 4, 2006 ISO 14001 : 2004
- Aug. 6, 2006 Selected as 2006 Promising Small & Medium Business by Gyeonggi-do
- Dec. 20, 2006 Air Pollution Preventive Facilities Business Registration (Registration No. 130)
- Mar. 15, 2007 Export of Dust Collector to Donghee Industrial Co., Ltd. SLOVAKIA Europe Factory
- Nov. 20, 2007 Increase of capital to two hundred million KRW
- Dec. 2007 KIA MOTORS GEORGIA design, car body dust collector export
- July 10, 2008 Dust collector export to Dymos (India, Czechoslovakia)
- Apr. 20, 2009 Export to HYUNDAI MOTORS RUSSIA

Product Information

Electrostatic Precipitator (E.P)

Advantages of E.P. System

- It prevents energy loss by using a system capable of indoor air purification.
- It prevents difficulties such as maintaining the optimum temperature.
- When difficult for DUCT operation, the system is able to purify the area.
- It is easy to install because of the compact design and there is less noise and less need for power.



Design/Construction

Trion Korea is a specialized company in the atmospheric environment industry.

Design/Construction

The company uses various search methods to graft theoretical and experimental technology sources to the work site.

Manufacture

From manufacturing of basic materials in environment industry and E.P such as IONIZER (discharge cell), COLLECTOR CELLS (dust collection part) to the production of next generation air purifier SYSTEM BAG FILTERS, SCRUBBERS

Research and Development

Research and development for the maximum outcome of system development in air pollution prevention technology using filters, centrifugal power, adsorption, absorption, etc.

Installation Photos

Automobile Engine Factory of the Europe Office - Oil and water soluble OIL MIST dust collector



Automobile Body Factory of the Europe Office - WELDING FUME/GRINDING dust collector



Domestic vinyl wallpaper manufacturing factory - D.O.P/OIL MIST



China Heavy Industry Factory - WELDING FUME



Light alloy cast factory- RANGE GAS/ORGANIC SOLVENT/CELL MOLD dust



Tool factory - OIL MIST



Electricity, electronics factory - Soldering FUME



Bolt, nut factory - OIL MIST





WOORYANG ENG. CO., LTD.

3 Ba-729 Shihwa Industrial
Complex, 2187-17 Jeongwang-
dong, Siheung-si, Gyeonggi-do,
Korea

Telephone +82-31-434-2204

Facsimile +82-31-434-2919

E-mail

wooyang@wooyangeng.co.kr

URL www.wooyangeng.co.kr

Introduction

A futuristic mind that looks after the environment. This is the customer service that Wooyang pursues. Wooyang values the improvement of working conditions, the embodiment of a healthy society, a human-based business, social responsibility, betterment of welfare, and creative will. With continuous research developments and endless trials, Wooyang has become a leader in the environmental industry. Wooyang strives to enforce global competitiveness through exporting up-to-date technology and excellent quality products to China and other Southeast Asian countries.



Wooyang Eng. Co., Ltd. is a registered air pollution preventive facilities business enterprise that strives to deal with various pollution substances that occur in the industry site. From small sized dust collectors to large size equipment as well as manufacturing industrial filters and distributing them to nationwide cooperative companies and agencies, Wooyang sees to it that the workers are placed in favorable working conditions.

Wooyang was established in 1995 with a mission for responsibility and has become a core foundation for Korea's environment sector. With its valuable experience and technology in the dust collector business, the company has recorded a 25~30% profit each year, and has become a pivotal company in the environmental field.



Standard Dust Collector for Heavy Industries' Work Site



AC-TOWER



Scrubber



2000CMM Dust Collector
(Long-round type cartridge filter)



Heat Switchboard
(For Organic Solvents)



Photo of inner views of wet dust collector (MODEL: OILCOL-50000)



WONIL CHEMICAL & ENVIRONMENT CO., LTD.

Sihwa Industrial Complex 2Ba
215, Jeongwang-dong,
Siheung-Si Gyeonggi-do, 429-
926, Korea
Telephone +82-31-498-3390~3
Facsimile +82-31-498-3394
E-mail wonilce@wonilce.com
URL www.wonilce.com

Introduction

Environment is the keyword for the future of our industry. Advanced countries, such as the U.S., Japan and the EU, have appointed environmental technology as the 21st century's strategic industry. Korea is also promoting the next generation core environmental technology development. Wonil Chemical & Environment Co. researches and develops hybrid products that are related to the environment based on fusion management.

Main Business

(1) Production of chemicals

- Combined wastewater treatment agent / Functional acid in-organic coagulant
- Heavy metal solidifying agent / Heavy metal removal agent
- Removal agent for non-biodegradable substances / Milk fat removal agent
- Nitrogen and phosphorous removal agent / Other standard chemicals
- Singking agents, microbial agents, deodorants

(2) Environmental Pollution Prevention Facilities Business

- Water pollution prevention facilities design and construction
- Air pollution prevention facilities design and construction
- Odor pollution prevention facilities design and construction
- Design and construction of industrial water and construction water plants?
- Prevention facilities related permission and technological support

(3) Measuring of environment pollution

- Specialized institution for waste analysis / Specialized institution for marine waste analysis
- Measurement of water pollution / Measurement of air pollution
- Measurement of odor pollution

(4) Company-affiliated technology research institute

- R&D in new technology and new products in pharmaceuticals
- R&D in polluted material decreasing devices / Pilot design and testing
- Technological support and analysis in the environmental sector

Environment Pollution Prevention Facilities

1. The Air Sector

- Bag filter : As a piece of equipment for gathering dust, the dust filter is well known for its bag filter. Spray air type and machine vibration type are methods for eliminating dust which have been gathered on the filter surface.
- Scrubber : Generally known as the wet type dust collector, the scrubber cleans dirty gas, and dust particles are collected separately.
- Activated Carbon Tower : As a piece of equipment for removing toxic pollutants and odors through absorption in active carbon, the establishment removes the pollutants through effective absorption capabilities.
- Solvent Recovery System : By using the differences in solvent characteristics, the system evaporates and freezes the solvent in a vacuum condition and reclaims the substance.



2. Water Quality Sector

- Physico-chemical Treatment System : By inserting chemicals necessary for waste treatment, the system goes through neutralization, reaction, coagulation, sedimentation and filtering.
- Biological Treatment System : This is a system that treats of wastewater through consumption and degrading pollutants using microorganisms.
- Water Sterilization System : This is a system that sterilizes bacteria through electrolysis or the use of UV light put on water in the production line. This can be simultaneously built with water purification system.
- Food Waste Leachate Treatment System : This system uses solid-liquid separation (dehydration) by using a decanter for leachate in the process of food waste recycling.



3. Environment related permission agency and consulting

- Checking of working sites and treatment systems / Design and construction of the ideal system through testing and analysis
- Improvement and repair of existing prevention facilities
- Permission service and consulting related to equipment establishment and changes

4. Participation in Korea Occupational Safety & Health Agency's Clean Business Site Formation Project

5. Technology Patents

- Patent No. 0458317(Dairing purification system of volatile gas in sewage and waste water)
- Patent No. 0489631(Purification System for sewage and waste water)



6. Chinese technology cooperation company

Weihai Chonji Environment Equipment Construction Ltd.
Weihai City Economic-Technological Development District
Namgokbu Town Tel. +86-631-599-3586 / Fax. +86-631-592-8226



MADE IN HUMANTECH



DAWOOTECH.CO.,LTD.

DAWTECH.CO., LTD.

RM908 Daeyoung Golden valley,
Gocheon-dong, Uiwang-Si,
Gyeonggi-do, S-Korea
Telephone +82-31-450-6770~3
Facsimile +82-31-450-6774
URL www.dawtech.co.kr

Introduction

Dawtech has been established as a company for water-pollution preventing, livestock night soil resources facility and renewable energy since December-1999 and we are carrying out as a leader of this field in Korea.

We can confirm that Dawtech is one of the company which has a professional technique and experiences.

Our target is to make a environment in which all of the consumers are satisfied with our.

We are trying to achieve an order of the times despite a difficult condition.

Our lab will not sleep until not only people in the world but also in Korea make use of our technic with satisfied.

We'll work hard to make you satisfied and delighted through our company.

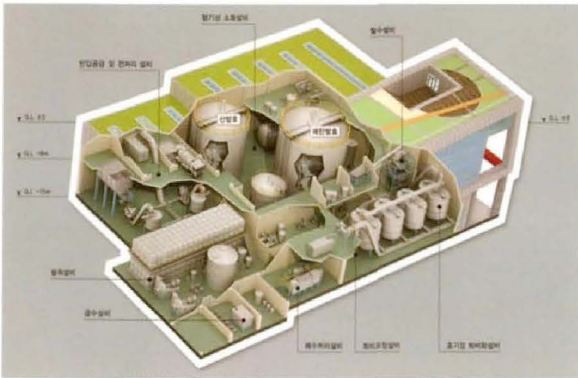




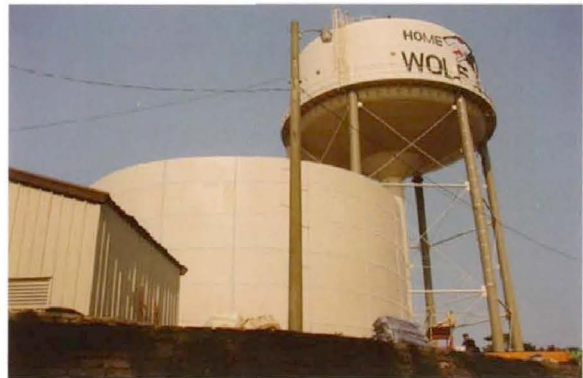
Site : Yeo-Ju County
 Material : Porcelain Enamel
 Capacity : 2,000 m³ X 5 units(80 m³/day)
 Date : 2006. 12



Site : Ul-San City
 Use : High Solid & Chemical Storage Facility
 Capacity : 160 m³ X 3 units
 Dimension : \varnothing 6.8m X 4.6mH Date : 2003. 05



Site : Pa-Ju City
 Use : Methane Fermenter (Livestock Night Soil+Food)
 Capacity : 80m³/day
 Electrical Generation : 500kw Date : 2004. 12



Site : USA Army In Korea
 Material : Epoxy Coating
 Capacity : 1,961m³
 Dimension : \varnothing 16.6mX9.2mH Date : 2004. 05.



Site : Gae-Seong City, N-Korea
 Material : Epoxy Coating
 Use : Waste-Water Treatment System
 Capacity : 600 m³/day Date : 2005. 06



Site : Uijeongbu Environment Affairs Agency
 Use : DBS Sewage Treatment
 Capacity : 89~112m³/day
 HRT : 10.5hr



DEOKWOO ECO SYSTEM CO., LTD.

Deokwoo Eco System Co., Ltd.

427, Geomuldae-ri, Daegot-
myeon, Gimpo-Si Gyeonggi-do
Telephone +82-31-987-6901~6
Facsimile +82-31-987-6907
E-mail engdw77@chol.com
URL www.deokwoo.co.kr

Introduction

Development of Large-sized Shredder

Deokwoo Eco System's key sources of growth are long history, know-how of technology development, systemized equipments by factory automation and direct comments on the products performance from customers. With endless technology development, Deokwoo Eco System has recently developed a double shaft shredder, targeting the overseas export market.

Continued efforts for new technological development

Deokwoo Eco System has specialized in manufacturing crushers and shredders (CEO JANG Moo-Ho). Deokwoo Eco System was established in 1981 and is known for localizing the development of special crushers and shredders.



Korea had been relying on foreign products for 29 years. The company became known for its development of crushers and with technological cooperation with Japan's NISSUI KAKO in 1993, and developed the internationally patented Scatter as a new type and distributed to the Korean market. The company began its shredder business in 1999. President JANG Moo-Ho of Deokwoo Eco System said, "Up to this day, we have focused on doing what is best for our company and focusing on maintaining the company's history rather than making its outward appearance grow. We will continue to do active investment in developing new products that have excellent quality." The company has supplied small and medium-sized shredders to the Yeongjong Island International Airport and has received orders for waste vinyl selectors from the Korea Environment Resources Corporation to participate in the Metropolitan area and the Chungcheong and Gyeongbuk region construction. With these business accomplishments, the company has developed a large hydraulic double shaft shredder, leading the technology in the shredder sector.

The company will exhibit its crushers and shredders at the upcoming KOPLAS 2009 exhibition, showing that Deokwoo Eco System is leading the industry. The company is also close to finalizing joint collaboration with China's machinery specialized company SAM CHIN for its high-speed crusher with 5-30 horsepower and low-speed crusher with 2-7.5 horsepower single type by OEM production. President JANG who has led the company for 29 years says, "Our mission is to be remembered as a quality proven company which has been approved by our customers. We will continue to achieve best results through best performance."



LOW SPEED
CRUSHER



MIDDEL SPEED
CRUSHER



HIGH SPEED
CRUSHER



HAMMAR
CRUSHER



DOUBLE
SCUTTER



HORIGONTAL
CRUSHER



ECO SERVICES KOREA CO., LTD.

1235-7, Jungwang-dong,
Sihung-si, Gyeonggi-do, 429-
450, Korea
Telephone +82-31-499-2525
Facsimile +82-31-499-1470
E-mail shkim@eco-services.co.kr
URL www.eco-services.co.kr

Introduction

Eco Services Korea, a subsidiary of Veolia Environmental Services and TERIS, world leading waste management companies, offers all kinds of services for the wastes.

Basic information

Establishment - October, 1999

Employees - 109 Persons (Feb. 2009)



Financial information

Capital - USD 9.3 Million

Sales - USD 30Million(2008)

(※ Exchange rate:USD 1 = KRW 1,300)



ISO 14001-may 17,2008-ENG

OHSAS-ENG-070620

History

1999 Establishment of Eco Services Korea

2000 Acquisition of Joyang Chemistry (Established 1976)

2001 Selected as Environmentally Friendly Company (Awarded by the Minister of Environment)

2003 Selected as Excellent Manager of Chimney TMS (Awarded by the Minister of Environment)

2007 Renewal of Certification of International Environment Management System (ISO14001)
[Certification Attached]

Acquisition of Certification of Safety Preservation Management System (OHSAS 18001)
[Certification Attached]

CuO(CUPRIC OXIDE)

Recycling

ESK manufactures from "waste alkali-etchant & waste acidic-etchant" the "high quality cupric oxide (for high tech copper plating for PCB)" as well as general cupric oxide for ferrite, wood preservative and plating. ESK contributes to the export, development in high-tech technology and saving of resources.



| ESK bird's - eye-view



| ESK powdery CuO product



ERAE CO., LTD.

ERAE CO., LTD.

592-2 Janggok-ri, Jori-eup
Paju-Si, Gyeonggi-do, 413-825
Korea
Telephone +82-31-943-3841
Facsimile +82-31-943-3840
E-mail web@erae.biz
URL www.erae.biz

Introduction

Erae Co., Ltd. was established in 1998. The company has produced livestock equipments and has participated in the livestock related environment projects since 2006. We produce Solid Fuel Processor with Cattle Manure and Deodorizer.

Business Items

Solid Fuel Processor with Cattle Manure, Deodorizer, Animal Carcass Processor, livestock equipment & machinery (water supply system, etc.)



(Horizontal)



(Vertical)

| Solid Fuel Processor with Cattle Manure



| Animal Carcass Processor



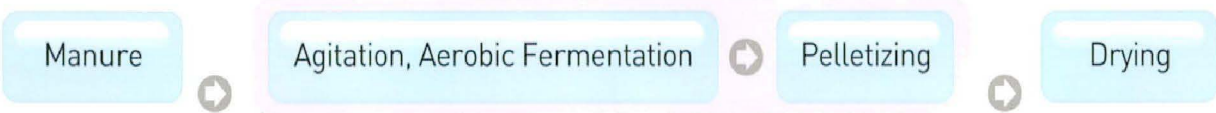
| Deodorizer

Solid Fuel Processor with Cattle Manure (Korean Patent No. 10-0853865)

As a facility which converts manures to fuel through an environment-friendly process, it will produce environmental and economical profit through the recycling of resources in this age of high oil prices.

Daily disposal depending on use designed in 2m³, 8m³, 20m³, 40m³ capacity

Process



Process Diagram



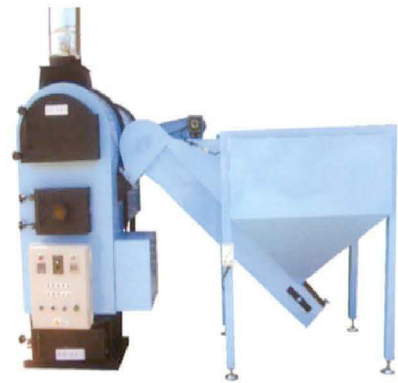
Solid Fuel Boiler

Boiler developed to use heat energy produced from Solid Fuel Processor with Cattle Manure

Manufacturing according to usage

15,000 kcal/h · 30,000 kcal/h · 50,000 kcal/h · 100,000 kcal/h

※ Place in use - facility buildings such as house heating, barn, green house etc.





FORCEBEL Co., Ltd.

34 Geumdang-ri, Mado-myeon,
Hwaseong-si, Gyeonggi-do,
Korea

Telephone +82-31-355-0006

Facsimile +82-31-355-0183

E-mail forcebel@hanmail.net

URL www.forcebel.co.kr

Introduction

FORCEBEL is a comprehensive environmental plant maker that performs both technology development and commercialization, based on the know-how obtained through numerous home and abroad construction for landfill reclamation and the disposal of illegal landfill waste at construction sites. FORCEBEL was selected as the main institution for next generation R&D projects by the Ministry of Environment in 2002 and developed the world's best "Sustainable Landfill Reclamation Technology." The company is currently concentrating its efforts on the development of technologies in the fields of waste recycling and waste to energy for Low-Carbon Green-Growth by conducting the "MBT System Development by Type according to Municipal Solid Waste Composition by Area" from the Ministry of Environment. With its own technologies, FORCEBEL provides the best solution for waste treatment and makes every effort to hand down clean earth environment to the next generation so as to be a global company being loved by mankind.



1. FORCEBEL-MBT & MRF System

A. What is FORCEBEL-MBT System?

The MBT (Mechanical Biological Treatment) System refers to a system to sort and separate municipal solid wastes to reclaim energy and resources, minimizing the quantity of landfill and incineration.

B. What is FORCEBEL-MRF System?

The MRF (Materials Recycling Facility) System refers to a system to sort and separate Recyclable wastes to be recycled or reused by kind, improving the recycling rate.

C. Core Technology

D. Applied Results and Technology Verification

Domestic MRF (such as devices for cracking bag and sorting vinyl) application and domestic & foreign patents: approx. 8 cases

2. FORCEBEL-SR System

A. Technology Principle

The SR System Sustainable Landfill Reclaiming refers to recycling results sorted and separated from landfill sites closed or being in use and to converting them into energy so that may use landfill sites sustainedly.

B. Features of Technology

C. Applied Results and Technology Verification

Domestic and foreign exports and applied results: 100 cases or more; Domestic and foreign patents: 18 cases; New technology: 3 cases; Rewards: 2 cases

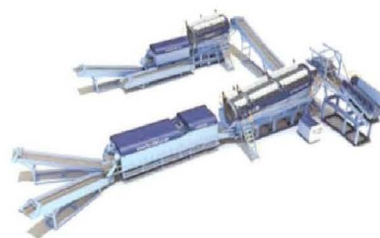
Core Technology



Core technology of pre-treatment in the fields of municipal waste recycling and waste to energy



Features of FORCEBEL-SR System



FORCEBEL-SR System



FORCEBEL-MBT System



An overall view of FORCEBEL-MBT System in the company

GGPG

Gyeonggi Power Generation Co., Ltd.

196-1 Okgil-ri
Cheongbuk-myeon
Pyeongtaek-si Gyeonggi-do
451-832 Korea
Telephone +82-31-682-3331
Facsimile +82-31-682-3622
URL www.gpgg.biz

Introduction

Gyeonggi Power Generation Co. Ltd(GPGC)is an environmenral solution company headquartered in Gyeonggi-do Korea with a three-words-precept: Recycle, Reduce and Reuse.

GPGC is committed to solving waste disposal problems in an economically meaningful and environmentally responsible manner in to principal areas, scrap tires and plastics wastes.

As a privately held company,GPGC takes pride in designing and delivering high quality, Long lasting and Eco friendly PLANTS worldwide



RUBBER RECYCLING PLANT SYSTEM, which can decompose waste tires or wasted resins in non polluting process, allows you to recycle wasted resin/tire pieces with size of 70~120mm(size of 2~3 cigarett packs) that are auto-matically inserted into complicated sublimation chamver at temperature of 300, into original materials, are then it allows you to select producing compound gas or oil primarily according to decomposition principle inside sudlimation chamber.

moreover, it abstracts original materials of iron cores, carbon black and Grit, which is coagulant rubber mold Heat source required for plant operations is supplied from its own heat source provided by methane/other remaining gases generated as by products this mechanical facility, KKP-50 model, has capacity of handling 50t of tire wastes(average of 5,000tires) at maximum based on 24-hours operation a day .

for an example, you may expect



Wasted Tires(1ton)



KKP-15 Plant



Carbon Black (280Kg)



Oil (400L)



Steel (98Kg)

Gas

Gas (222Kg)



HALLA

Energy & the Environment

174-14 Garak-dong, Songpa-gu,

Seoul 138-811, Korea

Telephone +82-2-2047-5372

Facsimile +82-2-2047-5395

E-mail

sunkim@hallasanup.com

URL www.hallasanup.com

Introduction

A Landmark Company for Energy & the Environment

For more than 30 years since established, we have successfully completed a large number of environmental projects and developed and accumulated high technology in the fields of waste treatment, waste water treatment, and air pollution control. We have built and been maintaining a reputation as a leading industry group in these fields.

Based on the experience of 30 years in the energy and environment industry, Halla is now focusing on new and renewable energy sources such as wind power, solar energy and hydro power to replace fossil fuels in an effort to reduce CO2 generation, a cause of global warming. Halla is determined to extend its business sphere into clean energy & environment industries.



Waste Treatment Facilities

Halla waste incinerators are built by applying up-to-date technology with higher heat recovery rate thanks to higher combustion efficiency, while keeping the production of harmful substances including dioxin to minimum. Halla's incineration technology has been proven for its durability and safety through many plants that Halla has built and been operating as well.

Halla's waste incinerator contributes to renewable power generating, too. Steam generated utilizing the waste heat from the incinerator is being sold for district heating and/or utilized to generate electric power by operating the steam turbine generator.



| Pangyo Clean Tower Incinerator
(45 tons per day x 2)



| Samchenpo small hydropower generation facility(1,000 KW x 6)

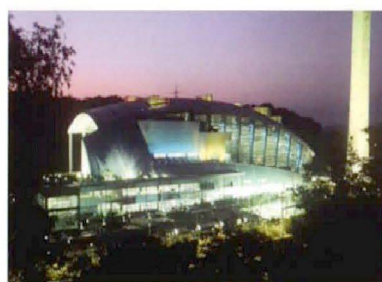
Air Pollution Control Facilities

As environmental standards and regulations for dust emission continue to get stricter, Halla developed high efficient fabric collectors by improving the large scale electrostatic precipitators which were mainly used in cement kilns. The new collectors proved to show better performance.

The electrostatic precipitator removes dust from emission sources utilizing the principle of corona discharge. Halla's EP technology is strictly in compliance with the global dust emission standards, as proven by the Halla-made efficient electrostatic precipitators for Yeongheung thermal power plant units 1~4 in Korea and the Mundra thermal power plant in India.



| Ilsan sewage treatment plant
(135,000 tons per day)



| Mapo municipal solid waste incineration plant (250 tons per day x 3)

Water Treatment Facilities

Halla has developed an advanced wastewater treatment process that can remove nitrogen and phosphorous while curbing eutrophication. We have built wastewater treatment plants near new urban areas and also environment friendly underground wastewater treatment plants for the reuse of recycled water.

Halla has extensive references for designing, constructing and operating wastewater treatment plants in such fields as pulp materials for paper, livestock manure, waste water from incineration, leachate from landfills and industrial waste water.



| Yeongheung thermal power plant #1,2 electrostatic precipitators (800MW x 2)

7th Fl. First Tower, 266-1
Seohyeon-dong, Bundang-gu,
Seongnam-Si, Gyeonggi-do
463-824, Korea
Telephone +82-31-778-5569
Facsimile +82-31-778-5596
E-mail bioyiy@hanmail.net
URL www.hansoleme.com

Introduction

Hansol EME, which started off as a Hansol Group environment /engineering specialized company in 2001, has excellent technology and provides total engineering service for advanced environmental services, specialized maintenance service and plant engineering. The group's vision to "Corporate Realization for Top Value Creation" serves as the foundation for environment-friendly solution business. The company strives to achieve its goal to be the "The Leader in Environment & Energy Industries."



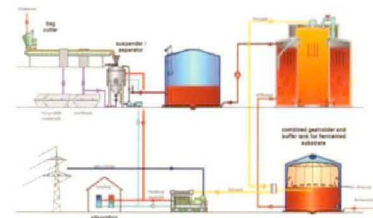
Environment & Energy Center / Sokcho, Korea

In the environment and energy industry sectors, which are the main businesses of Hansol EME, the company holds the leading technology and experience, and is actively processing environmental business and service including anaerobic waste water treatment, food waste-to-resources, waste and water treatment facilities, waste recycling plants, and soil remediation. Its strongest point is its continuous expansion on the “Waste-to-Energy” project, promoting and based on its proven technology and know-how of renewable energy generation and recycling of waste resources. Hansol EME continuously challenges and renovates its human resources and technology and strives to become a global company through establishing bases in Asia, Europe, the Middle East, Africa and South America. Hansol EME will do its best to supply environment-friendly and highly efficient energy technology development for a prosperous and bright future and will be a representative company opening the “New Chapter for the 21st Century Engineering Culture.”

Business Field

Environment

Waste Incineration, Waste Drying , Waste-to-Energy, MBT
 Food-to-resources, ARCS(ARCS(Automatic Refuse Collection System), Waste to Resources
 Sewage/Wastewater Treatment, Clean/(ultra) Pure Water Treatment, Organic Wastewater to Energy, Environmental Remediation , Landfill



| Anaerobic Digestion System

Engineering

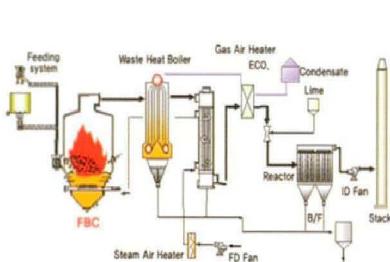
Paper Mill, Stock Preparation, Bio-Ethanol , Fine Chemistry
 Food/Beverage Automation , Pharmaceutical Plant



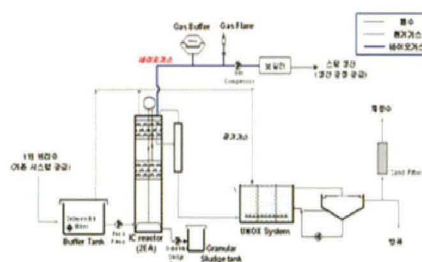
| Waste MBT

Maintenance

Facilities Management, Diagnostic Business, Specialized Products



| Fluidized Bed Incineration / Hebei Stone Bridge Project, China



| Anaerobic Wastewater Treatment / Daejeon, Korea



171-5 Oeryong-ri, Buknae-
myeon, Yeosu-gun, Gyeonggi-
do, Korea

Telephone +82-2-578-5058

Facsimile +82-2-577-4255

E-mail

master@pulseenergy.co.kr

URL www.pulseenergy.co.kr

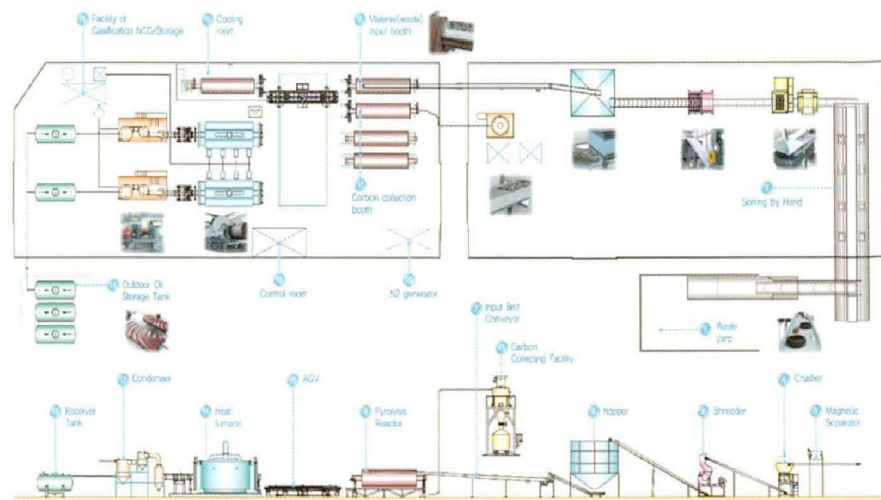
Introduction

MORE ENERGY, MORE NATURE!

The main global issues of the 21st century are the environment and energy. Currently promoted policies and all the main project entities are converting their paradigm into one, expanding the dynamic for new growth and improving the quality and environment of life so that it may contribute to a global society for Low-Carbon Green-Growth, as well as observing the London Dumping Convention and Kyoto Protocol.

Pulse Energy developed true technology with a creative idea for the pleasant life of human beings and then developed a state-of-the-art emulsion technology in harmony with science and the environment.

To solve the problem that synthetic resin and synthetic rubber, so called products of modern civilization, are troublesome to man and degrade the environment, Pulse Energy becomes to produce a new technological plant NODIX-8000 through various research and numerous experiments during the past 10 years. Pulse Energy also will fulfill its duty to achieve a green wealthy country by developing efficient energy use technology and clean energy for Low-Carbon Green-Growth to enter into the environment and energy market, and will focus its capability on suggesting a permanent solution for humanity's environmental and energy problems.



Process of NODIX System

NODIX-8000

'NODIX SYSTEM' stands for "NO DIOXIN." NODIX-8000 is a environment-friendly plant and does not produce dioxin during thermal decomposition of waste resin.

This refers to an environment-friendly "Recycling System" that decomposes all sorts of wastes including waste plastic, waste vinyl and polystyrene foam to be reduced to coal oil with no environmental toxic chemicals (secondary environmental contamination source) such as dioxin by special treatment method and then reuse them as an energy source.

Capacity of NODIX-8000

- Treatment Capacity/Day: 30 tons
- Treatment Capacity/Year: approx. 10,000tons
- Treatable Wastes: Waste resin, waste tire, waste rubber are treatable. Single and mixed wastes are both treatable.

Advantages of NODIX-8000

- Semi-batch type. Easy maintenance. Gives optimal economic and environmental conditions because synthetic polymer wastes can be treated by the batch.
- There is no secondary pollutant; Can secure the alternative energy market by generating end products, such as oil, gas, and carbon.
- Vacuum by pollution-free environmentally-friendly treatment technology, thermal decomposition by indirect heat secure the stability of the plant and eliminate the possibility of fire and explosion.
- By reusing the recycled non-condensable gas as the heat source for thermal decomposition, the thermal decomposition cost can be reduced through the retrenchment of production costs and the maximization of energy efficiency.



| Pulse Energy

| NODIX-8000



SEOHUNG EN-TECH LTD.

74-26bunji Nonhyeon-dong,
Gangnam-gu, Seoul, Rep of
KOREA

Telephone +82-2-512-1933

Facsimile +82-2-512-1920

E-mail shentech@kornet.net

URL www.shentech.kr

Introduction

- MRF/MBT Sorting facility specialty construction [ep]
- RDF Equipment plan production space-time
- Gwangmyeong, Ansan, Ch'onan, Ansong and Kimhae, Kimp'o etc. public corporation result
- Domestic maximum compressor direct productive delivery enterprise
- Up-to-date environmental mechanical production and overseas import technological know-how
- Japan, Germany and the United States, Chinese etc. import and export
- PIONEER of environmental technical research and development
- The industry and education national policy research subject participation and the accomplishment which it opens
- The Ministry of Environment ECO-STAR preprocessing engineering research subjective agency





Waste recycling sorting system-various waste sorting and recycling field and localization

- Typical MRF System and the rich experience and technology
- 3R (Recycle, Reuse and Reduce) sorting system configurations
- Automation sorting equipment (Labor-Saving Automation)
- The preprocessing equipment core technical retention which it follows in waste characteristic as a matter of and dosage and control



Automatic sorting systems for mixed plastic wastes



Ballistic separator - waste sorting and recycling field and localization



Multi-function air separator-waste sorting and recycling field and localization



Side eject horizontal baler - Aspects of the compression process and induce a variety of waste discharge



Wet-type gravity separator - Material recycling, pyrolysis oil, fuel (solid fuel) and localization



DASAN RND Co., Ltd.

#805 C-dong Bundang Techno
Park, 145 Yhatap-dong,
Bundang-gu, Sungnam,
Gyeonggi-do 463-760 Korea
Telephone +82-70-7017-7639
Facsimile +82-31-705-8535
E-mail admin@dasanrnd.co.kr
URL www.dasanrnd.com



Introduction

NDIR Analyzer

DASAN RND is the new world leader in the manufacture and development of emission measurement. We have total solution for the measurement of the stack emission gas and the vehicle emission gas.

- NO_x, CO, CO₂, SO₂, HC, etc.
- DUST.
- Oxygen.

Application.

- Continuous Emission Monitoring System (CEMS).
- Monitoring efficiency of the combustion & flue gas.
- Control of de-nitrification and de-sulfurization equipment.
- Research & Development institutes.
- Trace monitoring for the purity of the gas.
- Process Control.

NDIR ANALYZER.

Offered multi-component gas analyzer (NO_x, CO, CO₂, SO₂, HC, etc) is using Non-Dispersive InfraRed (NDIR) technology.

This analyzer is designed for the specified to measure all kinds of gas type.

It is designed to prevent from electrical shock.

The reliability of detector is better than the other competitor's one because it is using high sensitive Photo Acoustic Spectroscopy what is developed by DASAN RND Co. Ltd.

- Digital Display & Controller what is possible digital signal in & out.
- Automatic temperature control sensor.
- Self diagnostic system : Detecting timer & alarm function are included.
- High sensitiveness and stability.
- Prevent from temperature, vibration, moisture & gas interference by using of Auto compensation function.
- Each component analyzer could be equipped in the 19-inch rack panel.

NDIR ANALYZER.

Offered multi-component gas analyzer (NO_x, CO, CO₂, SO₂, HC, etc) is using Non-Dispersive InfraRed (NDIR) technology.

This analyzer is designed for the specified to measure all kinds of gas type.

It is designed to prevent from electrical shock.

The reliability of detector is better than the other competitor's one because it is using high sensitive Photo Acoustic Spectroscopy what is developed by DASAN RND Co. Ltd.

- Digital Display & Controller what is possible digital signal in & out.
- Automatic temperature control sensor.
- Self diagnostic system : Detecting timer & alarm function are included.
- High sensitiveness and stability.
- Prevent from temperature, vibration, moisture & gas interference by using of Auto compensation function.
- Each component analyzer could be equipped in the 19-inch rack panel.

OXYGEN ANALYZER.

Offered oxygen analyzer is designed to measure the condensate of the Oxygen using wide band zirconium oxide sensor technology.

The partial pressure will be occurred by the difference between Cell & measuring part.

Due to difference of partial pressure(Concentration) for both sides, Zirconium oxide sensor occur Electromotive force.

This analyzer measure the differences between Electromotive force and calculate the density of the Oxygen.

- Microprocessor-based digital display and Controller.
- It is possible to perform the calibration Automatic, Remote controlling or manual methods.
- Possible to set the limit value & alarm function.
- User Friendly Interface.
- Automatic Temperature control sensor.
- Self diagnostic system : Detecting timer & alarm function are included.
- Built-in Sensor & Controller easy to perform the maintenance activity. (if required).





GREENTECH INC.

Rm912 Daerung Post Ⅱ ± 182-
13 Guro3-Dong Guro-Gu, Seoul,
Korea
Telephone +82-2-2082-0190~4
Facsimile +82-2-2082-0195
URL www.greentechinc.co.kr

Introduction

GREENTECH INC. is integrated solution provider in the area of water environment, established in 2002. GREENTECH INC. has been dedicated to providing high quality environmental instrument like ultrasonic flow meter and Multi-parameter system, etc. GREENTECH INC. is specialized in process optimization in drinking water & waste treatment and advanced process analysis with block monitoring system. Greentech INC offers a practical technology in the drinking water management system based on the District Metered Area concept and also have integrated solution of environmental technology, civil engineering and information technology.



Manufacturing & Distributing Water Measuring System



Flometer series such as Ultrasonic & Doppler Type

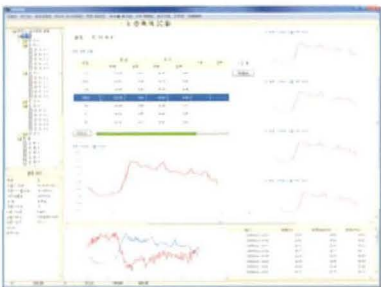
- Measuring Inflow and Outflow
- Measuring Supply water and Drainages
- Monitoring of Sewer in a short or long Time
- Monitoring of Rain Water
- Connecting with Billing Network, etc.



Water Particle Counter with Multiplexer System

- Measuring 8 Filter Bed simultaneously
- 3~15 Minutes of Measurement Cycle
- Automatic Washing Function
- Saving Data in a built-in Memory
- Supporting of graphic S/W & Data Sheet

System Integrated based on Block Management System(DMA)



Block Monitoring System with DMA Concept

- Communication with Monitoring system and Measuring instruments
- Gathering Block Monitoring Measurements
- Analysis of Revenue in Water Supply
- Estimation of Drinking Water Demand



Network Analysis & Simulation System

- Live Monitoring in each separated Block
- Pattern Management in each Block
- Water Supply network Management
- Attached Facility Management
- Construction & Customer Management



Home Care Co., Ltd.

#902, 303Dong, 36-1 Ssangyong
Technopark3 Samjungdong O-
junggu, Bucheon-Si, South
Korea
Telephone +82-32-624-1118
Facsimile +82-32-624-1121
URL www.homecare.me

Introduction

HomeCare is based in Bucheon city, South Korea is a manufacturer of eco-friendly products good and useful for human and nature. Since the year of 2006, we have developed babies / living supplies made from biodegradable plastic and launched the market. We have eco-friendly brands such as Vegetable BABY, Vegetable KID, Vegetable HOME, Vegetable PET, and are still continuously making every effort to develop more products. As truly eco friendly brands, any of endocrine disruptors or toxic ingredients such as phthalate, dioxin, cadmium, Pb, and PVC that have currently become a social issue was not detected in those vegetable series. Also they are good for the nature and humans as they are dissolved in the ground naturally to reduce carbon dioxide emissions. Our mission is to carry out researches and development of eco-friendly products to supply them for your lively and abundant life. The materials of most products by Home Care are natural CORN, RICE, HINOKI(Pinetree), COCONUT, LECITHIN, NANO-SULFUR and etc. Home Care will keep supplying you with various kinds of eco-friendly products. We, all the staff of HomeCare, give you the promise to do our best to hand down and conserve the beautiful nature to posterity by carrying out researches and development of eco-friendly products good for the nature and human and by supply in natural resources for the nature preservation.



Vegetable BABY- biodegradable & compostable Baby toys : rattles & teethers

Raw material "ECOLGREEN Bio-polymer" made from botanic materials such as corn has no toxic substances such as environmental hormones (Dioxins, Bisphenol A), or lead and cadmium. If buried in the soils after use, at the composting condition (humidity 90%, temperature 60° or higher, microorganism in soils) it is naturally composting. If burnt, it can be a biggest solution to global warming, because it contains less Co2 than other chemical plastic products to a larger degree. As an environmentally friendly material, it can endure up to the range of -20°~60°, which makes it unsuitable to use in microwave or dishwasher.

Since this safe Vegetable BABY for babies with eco-friendly certifications and CE does not need sterilization at a high temperature, when you wash with an eco-friendly detergent (a sister product, Vegetable Rice Dish Detergent), it prevents growth of germs and fights against bacteria successfully.

No synthetic materials. BPA free. Non toxins. Made from corn starch. compostable.



rattle trumpet



rattle drum



rattle heart



rattle star



teether candy



teether hand



Vegetable BABY 6pc set

826 Doosan Venture Digm, 126-1 Pyeongchon-dong, Dongan-gu, Anyang-si, Gyeonggi-do, Korea

Telephone +82-31-478-3420

Facsimile +82-31-478-3429

E-mail info@korbi.com

URL www.korbi.com

Introduction

KORBI was established in October 1999 with the Water Environment and Remediation Research Center, KIST as its mother company. Korea KORBI a company with water environment R&D as its specialty and developed the world's first mediator-less microbial fuel cell technology. It also has the world's largest market share in water quality monitoring sector. Also, it is the only company in Korea that covers various sectors related to the water quality environment, including TMS (Telemetry System) for water quality, ecological toxicity assessment, environmental impact assessment, design, and system integration. KORBI has succeeded in localizing its products through excellent technology in water quality measuring instruments. As subsidiaries, Korea Bio System has the KORBI ENC and China Office's CHINA KORBI Co., Ltd. KORBI possesses a product line consisting of biological early warning system, heavy metal measuring instruments and other equipment for water quality TMS construction.



1. Biomonitoring system: HATOX-2000

- New type of toxic material detection device for microbial fuel cell
- Real time measurement through excellent response sensitivity for toxic substances and reappearance
- Simple management and low cost management price



Biomonitoring system HATOX-2000



Online BOD Analyzer using Microbial Fuel Cell HABS-2000

2. Online BOD Analyzer using Microbial Fuel Cell : HABS-2000

- Use of microbial fuel cell type sensor
- Simple maintenance and low cost management price (regular washing and replacement of electrode unnecessary)

3. Online COD Analyzer using KMnO_4 : HACA-3000

- Accurate measurement through stable management with simple structure



Online COD Analyzer using KMnO_4 HACA-3000



Online Electrochemical COD Analyzer HACA-2000

4. Online Electrochemical COD Analyzer: HACA-2000

- Fast and accurate electrochemical method
- Small amount of electrolytes use, distillation unit unnecessary

5. Online TN Analyzer: HATN-2000

- Maintenance and management improvement through UV Spectrophotometry and multiple channel valve system application



Online TN Analyzer HATN-2000



Online TP Analyzer HATP-2000

6. Online TP Analyzer: HATP-2000

- Maintenance and management improvement through UV Spectrophotometry and multiple channel valve system application





QROTECH Co., Ltd.

201-702 Technopark, Yakdae-dong, Wonmi-gu, Bucheon-si, Gyeonggi-do, Korea

Telephone +82-32-621-2451

Facsimile +82-32-621-2450

E-mail qrotech@qrotech.com

URL www.qrotech.com

Introduction

21st Century 'Environmental Instrument Specialized Company'

Best Successful Business Partner QROTECH

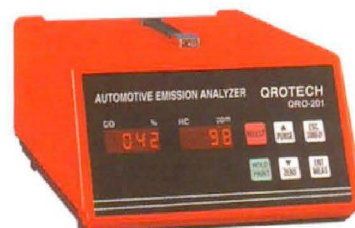
QROTECH Co. develops and manufactures environmental instruments and its brands and OEM sales have been approved by local and international companies. QROTECH researches and develops environmental pollution prevention products such as automobile emission gas analyzer. We will continue to develop new products for improved health and a cleaner environment.



QRO-201

Specifications

1. Measurement category: CO, HC
2. Measurement principle: Non-dispersive Infrared type (NDIR)
3. Measurement range: CO 0.00~9.99% HC 0~9999ppm
4. Preheating time: Approx. 2~8 minutes
5. Energy consumption: Approx. 50W
6. Size: 285(W) x 410(D) x 155(H)
7. Weight: Approx. 4.5 kg



QRO-401

Specifications

1. Measurement category: CO, HC, CO₂, O₂, λ, AFR, NO_x (choice explanation)
2. Measurement principle: CO, HC, CO₂ Non-dispersive Infrared type (NDIR) O₂, NO_x Electrochemical type
3. Preheating time: Approx. 2~8 minutes
4. Energy consumption: Approx. 50W
5. Size: 285(W) x 410(D) x 155(H)
6. Weight: Approx. 4.5 kg



Characteristics

1. Excellence in accuracy, safety, and durability
2. Possible conversion of 5 GAS (including NO_x)
3. Automatic adjustment of preheating time / Measured value PAUSE function
4. Built-in printer / RS232 PC program

OPA-102

Specifications

1. Measurement category: Smoke opacity (Diesel)
2. Light source: Green LED (565nm)
3. Detection part: Photodiode
4. Accuracy: Less than $\pm 1\%$
5. Response Time: 0.5seconds (90%)
6. Type of filter: 0.5 seconds Besel low pass digital filter
7. Data transmission: RS232 type, 4 times/sec
8. Preheating time: Approx. 6 minutes
9. Remote controller, built-in printer, PC program
10. rpm/ measurement of oil temperature (optional)

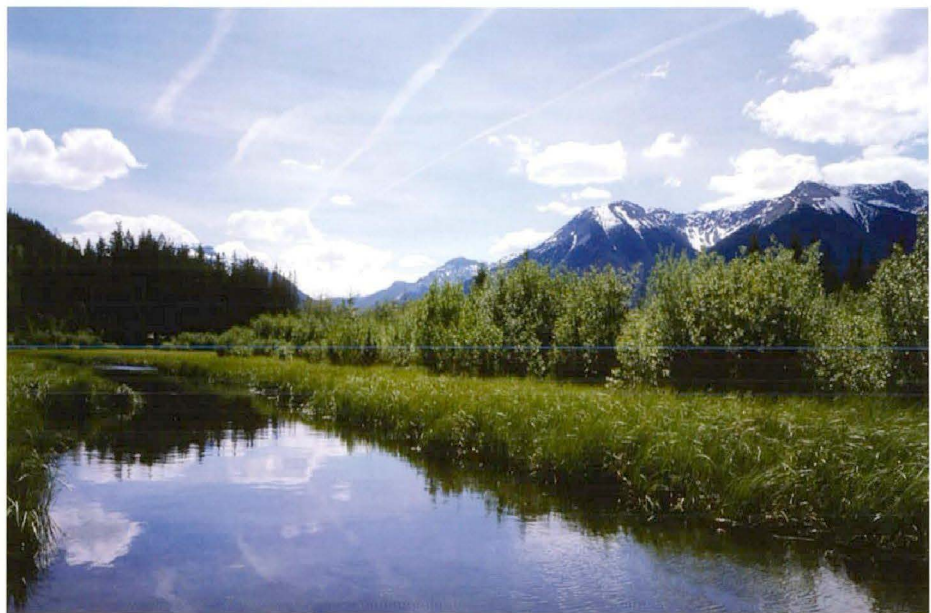


#842, 4ba, shihwa Industrial
complex, Seonggok-dong,
Danwon-gu, Ansan-Si,
Gyeonggi-do, KOREA 425-110
Telephone +82-31-497-7154
Facsimile +82-31-497-7152
E-mail shinah@kg21.net
URL www.airion.co.kr

Introduction

Shin-Ah Electronics has focused on the development and production of air purifiers and implemented artificial intelligent air purifier development production systems through its consistent investments. With these efforts, the company now produces and sells various types of air purifier products and medical oxygen generators.

As it launched the company-developed anion air purifier under close cooperation with its strategic business alliance partners, Shin-Ah Electronics' air purifier business has stabilized. The company now plans to expand its business areas by developing various applied products anchored on its base technologies.



Little woods on the desk! Medical oxygen generator!
 Compact design! High-efficiency oxygen generator!
 Low noise product! Good design!

High-efficiency oxygen generator

- Generation of clean oxygen : The unit supplies clean 30% oxygen
- Oxygen is the nutrient for the brain, The brain of an adult accounts for 2to3 percent of the whole body in terms of weight but consumes 20% of oxygen absorbed into the body.
- Brain cells need 200liters of oxygen a day for proper operation.
- Oxygen is an element of vitality for the body, oxygen supplied to the body reduces fatigue, asthenia, chronic headache and lethargy, increases concentration, thinking power, memory, intellectual development, alcohol detoxification and skin care, and strengthens immune system against virus and influenza.
- Low noise product
- Compact design
- Good mark



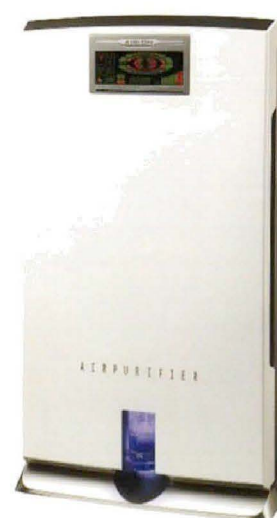
SA-2500



SA-11000R



SA-13000R



SA-13001

SPTC

SPTC CO., LTD.

203-703 Buchen Techno-park
2 BL#192 Yakdae-dong Wonmi
District Buchen City Gyeonggi
Province Korea
Telephone +82-32-234-4444
Facsimile +82-32-234-3344
E-mail sales@sptckorea.korea
URL www.sptckorea.com

Introduction

SPTC was established on May 7th, 1999 under a mission to “protect people and the earth”, and is fully committed to its mission by researching and developing environmental protection systems: factory chimney auto-examination systems to measure gas disposal and environment pollutants, auto air pollution meters, weather equipment, auto water quality examination systems, environment pollution auto detectors, and automobile gas discharge gauges.

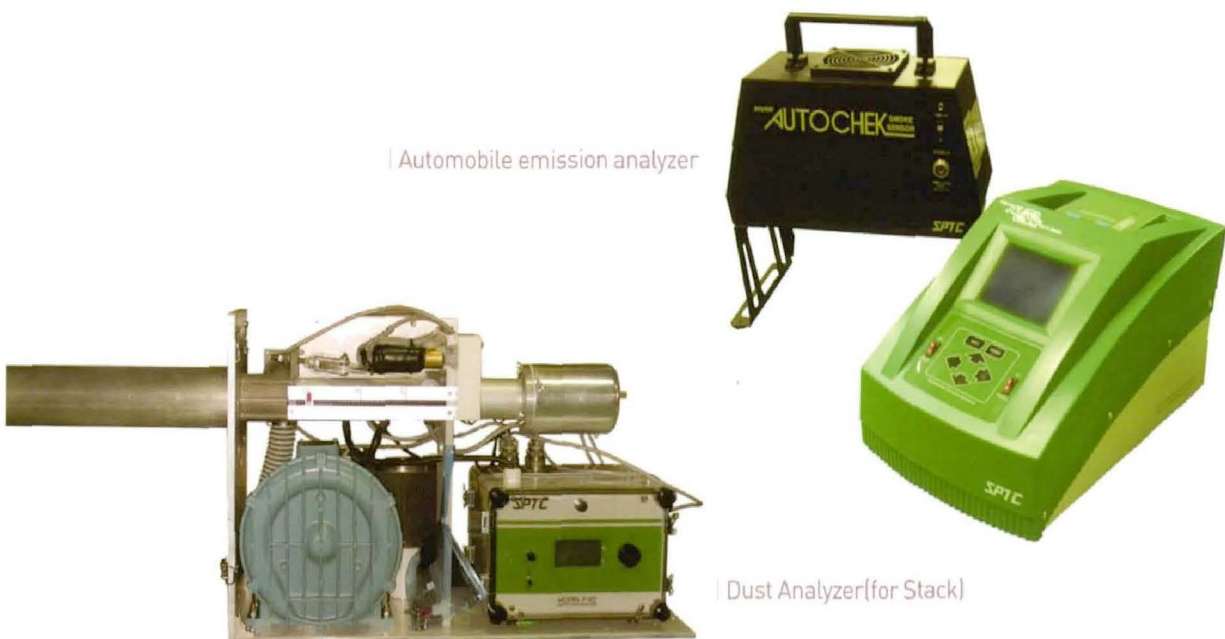


History

- 1999. may. Founded SPTC LTD.
- 2000. Feb. Developed Autocheck 974/5, and attained product approval.
- Dec. Acquired CE approval
- 2001. Jan. Acquired ISO 9001 certificate
- Mar. Appointed as Venture Corp.
- Jun. Certified as an Export-oriented Small and Medium-sized Corp.
- 2003. Jul. Developed Autocheck Gas & Smoke, and attained product approval.
- 2005. Oct. Authorized as a Research Cluster member.
- 2006. Jan. Attained Dust Analyzer P-5C product approval.
- Oct. Acquired ISO 14001 certificate
- 2007. Jun. Reselected as Venture Corp.

Business

P-5C Dust analyzer(for Stack) Data logger, Gas cooler, Sample probe, Hose pump
Automobile emission analyzer





WORLD BRIDGE INDUSTRIAL CO., LTD.

WORLD BRIDGE INDUSTRIAL CO., LTD.

8F KOAMI (Korea Association of
Machinery Industry) Building,
13-31 Yeouido-dong,
Yeongdeungpo-gu, Seoul (150-
729)

Telephone +82-2-784-5321

Facsimile +82-2-784-5322

URL www.worldbridge.co.kr

Introduction

Under the title 'We Make Domes Like a Green Dream,' World Bridge Industrial Co. was established in 1991 as a manufacturer of special products used in the petrochemical industry, oil refineries and storage facilities, and oil terminals, aiming for the global market with continuous development of technology. The company has localized products for oil storage tanks that had previously relied on imports, and with independent model development and competitive price, the related products have been sold to about 35 countries including Japan, Iran, Saudi Arabia, Singapore, Turkey, and Algeria.



| Universal Terminal, Singapore (70Tanks and 36Domes)

In 1999, petrochemical tank domes were sold to Formosa, Taiwan in the amount of approximately \$5 million, and dome and tank seal products were sold for \$7.5 million to Universal Terminal, Singapore. The company continues to export to over 15 countries and regions including Southeast Asia, Japan, the Middle East and Europe. In 2007, foreign orders reached \$10 million and thus the company received the ' \$5 Million Export Tower ' Award on Trade Day in November 2007. The company head was honored by the prime minister and by the president, and the staff were honored by the Minister of Commerce, Industry and Energy. In April 2008, the company's typical products Tank Seal System (Floating Roof Seal, Internal Floating Cover), Roof Seal System and Aluminum Dome Cover obtained the Quality Management System Certification (KS A 9001:2001/ISO 9001:2000) in design, development, production, build and supplementary service sectors and the Environment Management System Certification (KS A 14001:2004/ISO 14001:2003), placing the company as a leader in the oil-related areas including aluminum domes. The Flexible Drain Joint, one of oil storage tanks, adds horizontal movement to already existing vertical movement, making the drain system more flexible. The Aluminum Dome Cover is well received by customers with its economical design and localization of parts. In this way, World Bridge Industrial continues developing for technology development of all kinds of oil-related devices and tank products as well as aluminum domes, its typical product, as well as for continued customer satisfaction, keeping pace with the global market.



ODFJELL Terminal in Korea installed all WBIFR on tank farms



Oiltanking Terminal, Singapore (Aluminum Dome, Seal and Drain systems)



WB Twin Access Type Joints



Aluminum Dome Cover, Uijeongbu, Korea (133 Sets)



Aluminum Dome Roof for Oil Storage Tank, Algeria (Dia52m x 2Sets)

Young Lin Instrument Co., Ltd.

899-6 Hogye-dong, Dongan-gu,
Anyang-si, Gyeonggi-do, Korea
Telephone +82-31-428-8700
Facsimile +82-31-428-8787
E-mail kckim@younglin.com
URL www.younglin.com

Introduction

Young Lin develops and manufactures scientific analysis instruments in Korea, such as HPLC, GC, pure water and ultra-pure water systems. Established in 1988, Young Lin has sold GC and HPLC systems exceeding 5,000 units domestically and 1,000 units overseas. The APC (Advanced Pneumatic Control) developed from GC received the NT certification in 2002, and Compressibility Compensation Method, a patented technique for HPLC pump, has contributed to the accuracy of solvent delivery. With the development of new HPLC in 2008, the instrument has exceeded 200 units sold in one year (June 2009). The company was rewarded with the “\$1 million Export Tower” in 2006, and the “\$3 million Export Tower” in 2008.



Young Lin is a subsidiary of the Young In Group, and develops and manufactures analysis instruments in Korea. The Young In Group began with Young In Science which had been importing analysis instruments and selling them in Korea since 1976. Now there are seven affiliated companies within the Group.

Young Lin developed and manufactured Korea's first HPLC and pure water system, and its GC has an APC function. HPLC shows accuracy in solvent transport on the basis of its patented pump technology, and the newly released YL9100 HPLC uses software that has been approved by the U.S. part II CFR 21.

Since 2002, HPLC and GC have controlled with software, making it easier for customers to use. Also, taking into consideration customers' difficulty in using the device, the HPLC and GC have been upgraded to meet customer demands. Through provision of detailed information on the equipment, customers are provided with an opportunity for learning and even total analysis solutions.



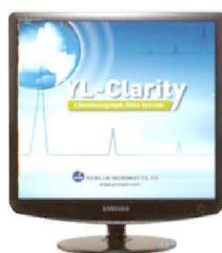
Head Office



Product WPS370 : Ultrapure Water System



Product YL9100 : HPLC System New Product, 2008



Product YL6100 : GC System

Suwon Hwasong Fortress, a UNESCO World

SUWON HWASEONG FORTRESS



Homepage. <http://hs.suwon.ne.kr> Location. Suwon-si, Gyeonggi-do

Cultural Heritage was built in 18th century. The fortress surrounds downtown Suwon running a total of 5.52 km. It is designed to serve political and commercial as well as military functions and is a fine example of oriental fortresses. It was built to show the King's filial piety toward his father Jangheonseja, and also to build a new city with its own economic power.

A place where the South River and the North River meet creating the Han River!

DUMULMEORI CONFLUENCE



Homepage. www.tour.ye21.net Location. Yangpyeong-Gun, Gyeonggi-Do

The Dumulmeori Confluence is where two rivers meet making the width of the river wider as if it were a large lake. Sunshine glitters on the water and the refreshing waves beneath your feet allow you to enjoy the nature. A big zelkova tree stands at the center of the riverside, and the long line of weeping willow trees creates a tunnel of nature. The site is a well known filming site for soap operas and movies, and wedding photos are often taken here. The 400-year old zelkova tree and the morning dew form splendid scenery. Two imperial robe ships were restored on April 1999, adding elegance to the place.

DMZ



Homepage. www.dmz.ne.kr Location. Paju-si, Gyeonggi-do

The DMZ symbolizes the national division between North and South Korea. For 50 years, civilians have been restricted from entering the border area, thus preserving the natural ecosystem within the zone and the environmental resources confined in it. Today, the border area is also emerging as a promising base for national reunification.

EVERLAND



Homepage. www.everland.com Location. Youngin-si, Gyeonggi-do

Everland ranked 5th as the best theme park in the world, and the biggest theme park in Korea. Everland is a large theme park boasting a zoo, snow sled, and botanical garden. The park also contains three distinct themes which are Festival World, Caribbean Bay, and Speedway. Festival World includes Global Fair, American Adventure, Magic Land, European Adventure, and Equatorial Adventure, each created with its own unique style. Caribbean Bay is the very first water park in Korea.

"A place to experience natural global ecosystem"

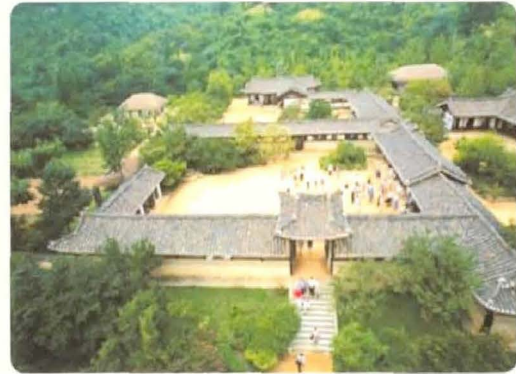
THE SHIHWA REED WETLAND



Homepage. sihwa.kwater.or.kr Location. Ansan-si, Gyeonggi-do

At the Shihwa Reed Wetland, you will have the chance to enjoy the artificial swamp made to improve the water quality as well as the Ecosystem Corner, Ecosystem Observation Facility and Wildflower Road. Additionally, the place is popular for family trips and site for photo clubs and wedding studios for its various types of aquatic plants and migrating birds which can be photographed at a close range all throughout the 1.7km-long glade within the wetlands.

KOREAN FOLK VILLAGE



Homepage. www.koreanfolk.co.kr Location. Yongin-si, Gyeonggi-do

Set in a natural environment occupying approximately 243 acres, visitors can experience the natural atmosphere with over 260 traditional houses reminiscent of the late Joseon Dynasty, including various household goods from different regions. All these features have been relocated and restored to provide visitors with a broad understanding of Korean food, clothing, and housing style of the past. In the Korean Folk Village, where the customs and lifestyles of the past generations have been carefully preserved, various lifestyles prevalent during the Joseon Dynasty can be seen.

"Sewage and waste water transforming to clean water,
a reclamation plant into a tourist site!"

NAMYANGJU HWADO WATER RECLAMATION PLANT



Homepage. www.hwadostp.go.kr Location. Namyangju-si, Gyeonggi-do

The Namyangju Hwado Water Reclamation Plant purifies the sewage and waste water that are produced in Hwado-eup, Joan-myeon, and Sudong-myeong of Ilwon. It also has the world's first 92-meter man-made waterfall using underwater discharge, environmental experiment exhibition hall, S-form water playground, ecosystem garden, piano-shaped restrooms, eco-systematic pond etc. The plant is used as an educational site and a tourist attraction with its flower garden, wildflower section and tree garden.

NAMI ISLAND



Homepage. www.namisum.com Location. Chuncheon-si, Gangwon-do

Namiseom Island is 63 km away from Seoul in the direction of Chuncheon, and is famous for its beautiful tree lined roads. The island is 30 minutes away from Chuncheon and an hour away from suburbs of Seoul. A special feature of Namiseom Island is that there are no telephone poles. This is because all electric wires were built underground to keep the natural feeling of the landscape. The complex is 553,560 square yards with chestnut trees and poplar trees around the isle.

HEYRI ART VALLEY



Homepage. www.heyri.net Location. Paju-si, Gyeonggi-do

Korean artists of various specialties such as writers, painters, actors, architects and musicians constructed the cultural town of Heyri. Within this community there are residences, workrooms, art galleries and museums. Artists make a living by opening exhibitions, trading or selling their art. Currently, there are about 40 museums, exhibitions, concert halls and bookstores, and around 30-40 more are expected to be added. Currently about 10 cafes and food courts are included in these buildings for the convenience of its visitors.

“Guri-si Resource Retrieving Facility, A Landmark of the Eco-friendly Guri-si!”

RESOURCE RETRIEVING FACILITY OF GURI-SI



Homepage. guritower.guri.go.kr Location. Guri-si, Gyeonggi-do

The Resource Retrieving Facility of Guri-si is a hi-tech stocker type disposal establishment built to safely dispose general wastes that occur in Guri-si and Namyangju-si. It was built to create a non-polluted living environment, to save the environment, and for effective use of energy through a complete disposal establishment for emitted gas. The facility also has a recycling machine and a multipurpose establishment for the benefit of the near-by residents.

The Guri Tower making use of the 100m chimney helped revise the mindsets of people who often think that disposal facilities are abominable, and became an eco-friendly symbol of the facility. It serves as a representative landmark for Guri-si, and provides a relaxing place to the residents.

“Kachiwool Filtration Plant as a tourist site with environment-friendly management and clean water !”

BUCHEON-SI FILTRATION PLANT



Homepage. www.bucheon.go.kr/water Location. Bucheon-si, Gyeonggi-do

The plant condenses, submerges, filters and sterilizes the water from the nearby Paldang Dam to supply water to the residents of Wonmi-gu of Bucheon-si and Ilwon of Ojeong-gu. The Water Museum within the Kachiwool Filtration Plant lets you experience the process of the creation and destruction of water, the history and importance of water through various video materials and exhibitions.

Food Wastes Turned Into Fertilizers

SUWON FOOD WASTE DEVELOPMENT & COMPOST FACILITIES



Location. Suwon-si, Gyeonggi-do

The Suwon Food Waste Development & Compost Facilities collects all the food wastes that come from the Suwon collaborative housing region and crushing process. The, it is places in the fermentation room for 15 days, and for another 21 days, it is in the after-ripening storage. Here, it is reproduced as a fertilizer. The unwanted smell is primarily removed through the cleansing scrubber, and goes through a secondary removal process at the bio-filter.

'Hynix creating the water source of the suburb, a clean Paldang.'

HYNIX SEMICONDUCTOR WASTE WATER PLANT



Homepage. www.hynix.com Location. Icheon-si, Gyeonggi-do

The Hynix Semiconductor Waste Water Plant situated in the Ami-ri Bubal-eub Icheon-si has the capacity to dispose 63,000 tons of waste daily. Through this establishment, various types of semiconductor related waste is disposed such as fluorine, alkali acid, nitrogen, and organic waste. It has a stricter self management standard than the legal disposal standards, and all wastes are managed 30% below the legal standard.

ICHEON CERAMIC VILLAGE



Homepage. www.ceramic.invil.org Location. Icheon-si, Gyeonggi-do

Icheon Ceramics Village produces traditional Korean ceramics, which are of high quality. The village became the center of traditional pottery during the Joseon Dynasty for about 500 years due to the easily obtainable materials in the areas. Icheon Ceramics Village was also the center of Joseon Baekja ceramics. Presently, about 80 pottery factories are congregated at the village, and about 300 pottery kilns are in use.

'A fun and educational environmental learning center for children'

CANNY VILLAGE



Homepage. www.can.or.kr Location. Seongnam-si, Gyeonggi-do

The Canny Village in the Seogun-dong, Bundang-gu of Seongnam-si is the Korea's first children's environmental education center where they can experience it themselves. The Canny Village is run by Korea Metal Can Resources Association for the purpose of saving the environment and learning how to recycle our natural resources in our everyday lives. By visiting in the following order, first floor (Canny Square) third floor (Canny's Informatin) second floor (Canny's Life), you will be able to watch videos, and see the Magic Vision, Canny Square, Recycling Game Room, Canny Theater, Canny House, Canny Mart, Canny Park etc. You will discover how easy it is to recycle cans.

'The World's Only Toilet House'

TOILET HOUSE - HAEWOOJAE



Homepage. www.withwta.org Location. Suwon-si, Gyeonggi-do

'Haewoojae' which means 'a place where you release tension' was built by Chairman Shim Jaedeok (former Suwon Mayor) to celebrate the establishment of the World Toilet Association. Haewoojae is on the Guinness Book of Records for having the statue of history's first and biggest toilet seat built to commemorate the importance of restrooms in our lives. All restrooms have water-saving toilet seats that reduce 70% of water used in restrooms. It also uses solar power system and rainwater storage tank to make effective use of natural energy.

**Gyeonggi Provincial Government
Environment Bureau**

63 Docheongappil, Paldal-gu, Suwon City, Gyeonggi Province, Republic of Korea 442-781

Tel +82-31-249-4222 **Facsimile** +82-31-249-3539 **URL** www.gg.go.kr

D
5
호