ECORBIT PROFILE

www.ecorbit.com

WHOLESOME SOLUTION FOR OUR EARTH

ECORBIT

CHALLENGE FOR THE BEST

ECORBIT, making the jump to the top

Korea's largest comprehensive environmental company ECORBIT is actively advancing new environmental businesses and expanding value chains to secure our position as the leading Korean comprehensive environmental company. We have developed eco-friendly technologies and created a sustainable management system to emphasize our management in terms of not only ESG (Environmental, Social, and Governance) management operations but in full commitment to our social responsibilities as well.

We strictly follow domestic and international regulations, and we pursue sustainable management for the synergistic coexistence of the local society and partner companies for a future where everyone grows together.
We hope that you will continue to follow ECORBIT, where we tirelessly devote ourselves to developing and investing in new technologies and businesses and to providing smart environmental technology solutions.

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CEO MESSAGE

ECORBIT is South Korea’s largest and best-performing comprehensive environmental company.

As environmental pollution and climate change worsen with each passing day, there has been increasing attention on the environmental industry. ECORBIT leads South Korea’s ESG industry as South Korea’s top comprehensive environmental company.

ECORBIT began as a part of TAEYOUNG E&C Co., Ltd. specializing in public water treatment in 2004, then acquired various environmental companies, including industrial water treatment and waste treatment companies. And in 2021, ECO Solution Group joined the company, ECORBIT became South Korea’s largest comprehensive environmental company with 20 subsidiary companies and 690 business locations.

In addition, based on the accumulated technologies, know-how and networks, ECORBIT developed and applied smart environmental technologies, the intensive water management and the resource-circulating waste managements are outstanding environmental solutions.

Now ECORBIT achieved major value chains in the environmental industry: water treatment, waste interim treatment (incineration), waste final treatment (landfill), energy generation and recycling (urban mining). And we thrive the highest level in other environmental fields.

ECORBIT’s staff work together to provide a safe environment and an abundant quality of life, not only for this generation but for future generations as well. We promise to continue to innovate for all of humanity to enjoy a clean and hopeful tomorrow.

Please show your interest and support for ECORBIT, the company that pioneers the future of the Korean environmental industry and fulfills its social role as a company.

Thank you.

CEO | In Ho Choi

MISSION & VISION

ABOUT CI

ECORBIT

ECO + ORBIT

“ECORBIT” is a combination of “Eco” and “Orbit”.
The name embodies our vision and aspiration to create a clean and healthy virtual structure to form the future environment, just as the earth follows its orbit. The motif of the new CI is a leaf that represents the circulation of nature and the circular structure of the future environment that we will form.

We believe that understanding the future is the wisest way to understand the environment. Since the establishment of the company, ECORBIT has realized the value of recycling and practiced ESG management to achieve synergy with the local society. We started as Korea's first environmental company, and grew into a comprehensive environmental company with the best technology and infrastructure in Korea.

We will grow to become the top environmental company by establishing a healthy and safe industrial ecosystem, and will propose a new perspective and value for the environment based on our years of experience in the environmental field and specialized technologies.

Mission

Creating and leading a healthy, bountiful environmental value for future society by providing sustainable technological innovations and top solutions.

Vision

#1 Most preferred environmental company in South Korea

South Korea’s Best Comprehensive Environment Company, ECORBIT

CORE VALUE

Mission / Decision making principles to achieve our Vision / Value

SuFE

- **Su**stainability — Start from recognizing the finite nature of natural resources and the limits of purification
- **F**airness — Overcome the environmental imbalance between current and future generations and between city and rural areas
- **E**fficiency — Break from the simple supply-centric conventions and provide innovative, balanced solutions

Management Policy

Staff / Company Management / Principles regarding the society

HEART

- **H**ealth&Safety — Autonomous safety and health systems in respect of society and nurture the safety and health culture
- **E**thics — Attitudes that are honest, honorable, good conduct and adheres to principles
- **A**ccountability — Willingness to fulfill roles and responsibilities and focus on one’s job
- **R**eliability — Mutual respect in a harmonious manner among members to deliver the trust to all stakeholders
- **T**ransformation — Break from conservative and inflexible ways and pursue continuous change and improvement

HISTORY

2004

Beginning of ECORBIT

2004.11 Taeyoung Environment Corporation established

2008

2008.04 Registered as water and sewage treatment facility construction business (Goyang-si, Gyeonggi-do)
2008.05 Registered as electrical construction business(Gyeonggi-do Provincial Government)
2008.06 Registered as industrial environment facility construction business (Gyeonggi-do Provincial Government)

2009

2009.04 Company specializing in new & renewable energy (Ministry of Knowledge Economy)
2009.05 ISO 14001, ISO 9001 certified
2009.08 Received award from Ministry of Environment during 2008 public sewer management facility assessment

2011

Growth as an environment-specialized company

2011.03 Changed corporate name to TSK Water [Current ECORBIT]
2011.04 Established company research center

2012

Entered landfill business

2012.07 Acquired TSK Greenviro Co., Ltd. [Current ECORBIT Green Pohang Branch] (Terminal waste disposal business)
2012.08 Certification OHSAS 18001

2013

Became comprehensive environmental company

2013.02 First public sewage treatment management agency of the Ministry of Environment
2013.10 Acquired TSK Greenviro Co., Ltd. [Current ECORBIT Green Pohang Branch] (Terminal waste disposal business)

2014

Expansion of Terminal waste disposal Business

2014.03 Acquired Ecosystem Co., Ltd. [Current ECORBIT Green Changwon Branch] (Terminal waste disposal business)
2014.06 Received Presidential Award for Excellent Job-Creating Company

2016

Expansion of industrial waste incineration business

2016.03 ESG Chungwon [Current ECORBIT Energy Chungwon], ESG Sejong [Current ECORBIT Energy Sejong] Acquisition (Industrial waste incineration) Acquisition of ESG Cheongju [Current ECORBIT Green Cheongju] (Terminal waste disposal business)

2017

Expansion of medical waste incineration and waste collection and transportation business

2017.01 Acquisition of ESG Gyeongju [Current ECORBIT Energy Gyeongju] (Medical waste incineration), ESG Logis [Current ECORBIT Logics] (waste collection and transportation)
2017.11 Acquisition of ESG [Current ECORBIT Energy], ESG Gyeongsan [Current ECORBIT Energy Gyeongsan], ESG Gwangju [Current ECORBIT Energy Gwangju] (Medical waste incineration)

2018

Business structure efficiency improvement (corporate spin-off)

2018.07 TSK M&S [Current ECORBIT M&S] Physical division (sales of chemicals and materials)
2018.10 TSK Water [Current ECORBIT Water] Physical division (public O&M, EPC)
2018.10 Launch of TSK Corporation [Current ECORBIT]

2019

Prepared a bridgehead for international and future business expansions

2019.11 M&A of DS Pretech Co., Ltd. [Current ECORBIT Pretech] (Urban mining business)

2020

2020.01 Landfill facility of ECORBIT Green Chungju became operational
2020.02 Acquisition of Jeongse Environmental Technology [Current ECORBIT Energy Jeongse] (Industrial waste incineration)

2021

The birth of South Korea's best and biggest Comeprehensive environmental company

2021.05 In-Ho Choi inaugurated as CEO
2021.10 ECORBIT announced the new era of the comprehensive environmental company Converted ECORBIT to a holding company Acquisition of Myeongseong Environment [Current ECORBIT Energy Myeongseong)] (Industrial waste incineration)

2022

A leap forward as No.1 comprehensive environmental company

2022.02 Acquisition of Yeongcheon Eco (Terminal waste disposal business)
2022.05 Acquisition of Dongmyung Tech (Industrial waste incineration)
2022.10 Established ECORBIT Logics (Waste collection and transportation)

2023

Expansion of waste collection and transportation business

2023.01 Acquisition of Boksan Transportation Company (Waste collection and transportation)

INNOVATE FOR THE FUTURE

Korea's top comprehensive environmental company, ECORBIT

ECORBIT manages businesses in all fields in the environmental industry for a healthy and sustainable environmental ecosystem. We will continue to innovate to ensure a safe and prosperous tomorrow for the future generations of humanity who will have to live their lives amidst the climate change crisis.

ECORBIT BUSINESSES

GREEN
Landfills (general · designated waste)

ENERGY
Medical Waste Incineration
Industrial Waste Incineration
SRF(Solid Refuse fuel)
Waste Collection and Transport
Sterilization

WATER
Sewage and Wastewater Treatment
- Operation & Management (O&M)
- Private Investment
- EPC

Environmental Materials

FUTURE BUSINESS
Urban Mining & Battery Recycling
Soil Remediation

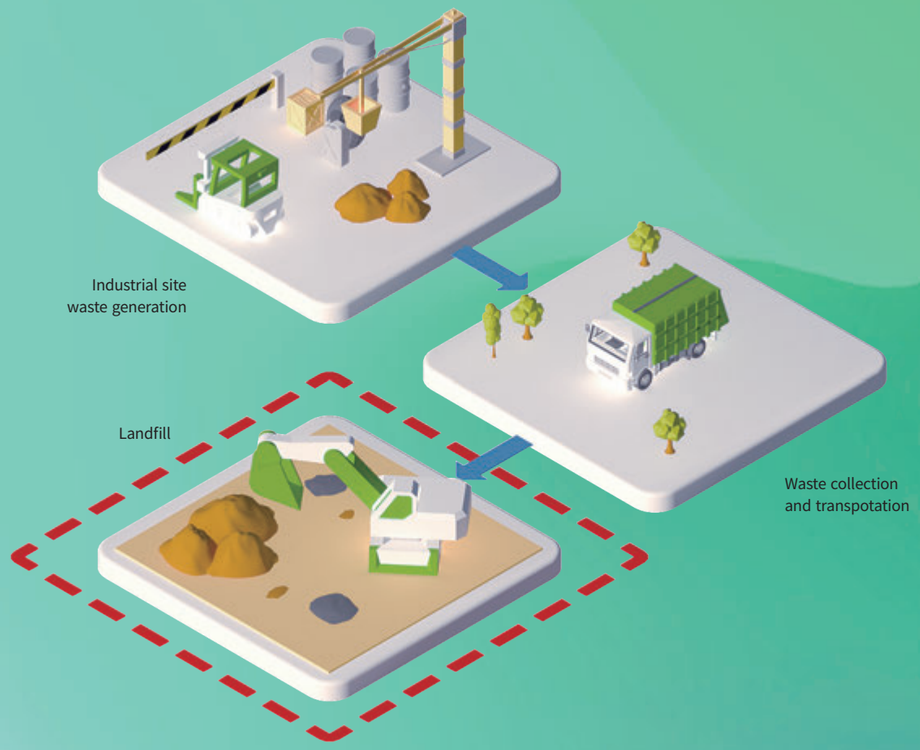
Landfills

Waste Landfill Business

ECORBIT GREEN possesses the largest landfill capacity in Korea, with 8 landfills that provide a safe and sanitary landfill service for industrial, general, and designated waste that cannot be recycled or incinerated.

We strive to operate the most optimized landfill facilities and prevent environmental pollution by installing air domes and developing landfill technology to minimize effects on the local environment.

- **ECORBIT GREEN**
- **ECORBIT GREEN Cheongju**
- **ECORBIT GREEN Chungju**
- **Yeongcheon ECO**



Open-type Final Waste Treatment Center

Changwon Final Waste Treatment Center

Landfill Capacity 184,764 m^2
Permitted Capacity 3,674,478 m^3

Pohang Final Waste Treatment Center

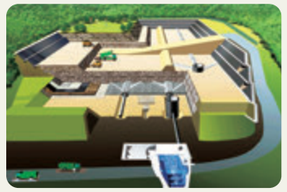
Landfill Capacity 105,508 m^2
Permitted Capacity 3,190,500 m^3

Gumi Final Waste Treatment Center

Landfill Capacity 122,698 m^2
Permitted Capacity 3,217,700 m^3

Yeongcheon Final Waste Treatment Center

(to open in 2025)



Landfill Capacity 33,418 m^2
Permitted Capacity 943,000 m^3

Gwangyang Final Waste Treatment Center

(to open in 2025)

Landfill Capacity 39,249 m^2
Permitted Capacity 1,183,520 m^3

Closed-type(Air Dome) Final Waste Treatment Center

Chungju Final Waste Treatment Center

Landfill Capacity 37,499 m^2
Permitted Capacity 1,141,700 m^3

Cheongju Final Waste Treatment Center

Landfill Capacity 37,248 m^2
Permitted Capacity 1,300,000 m^3

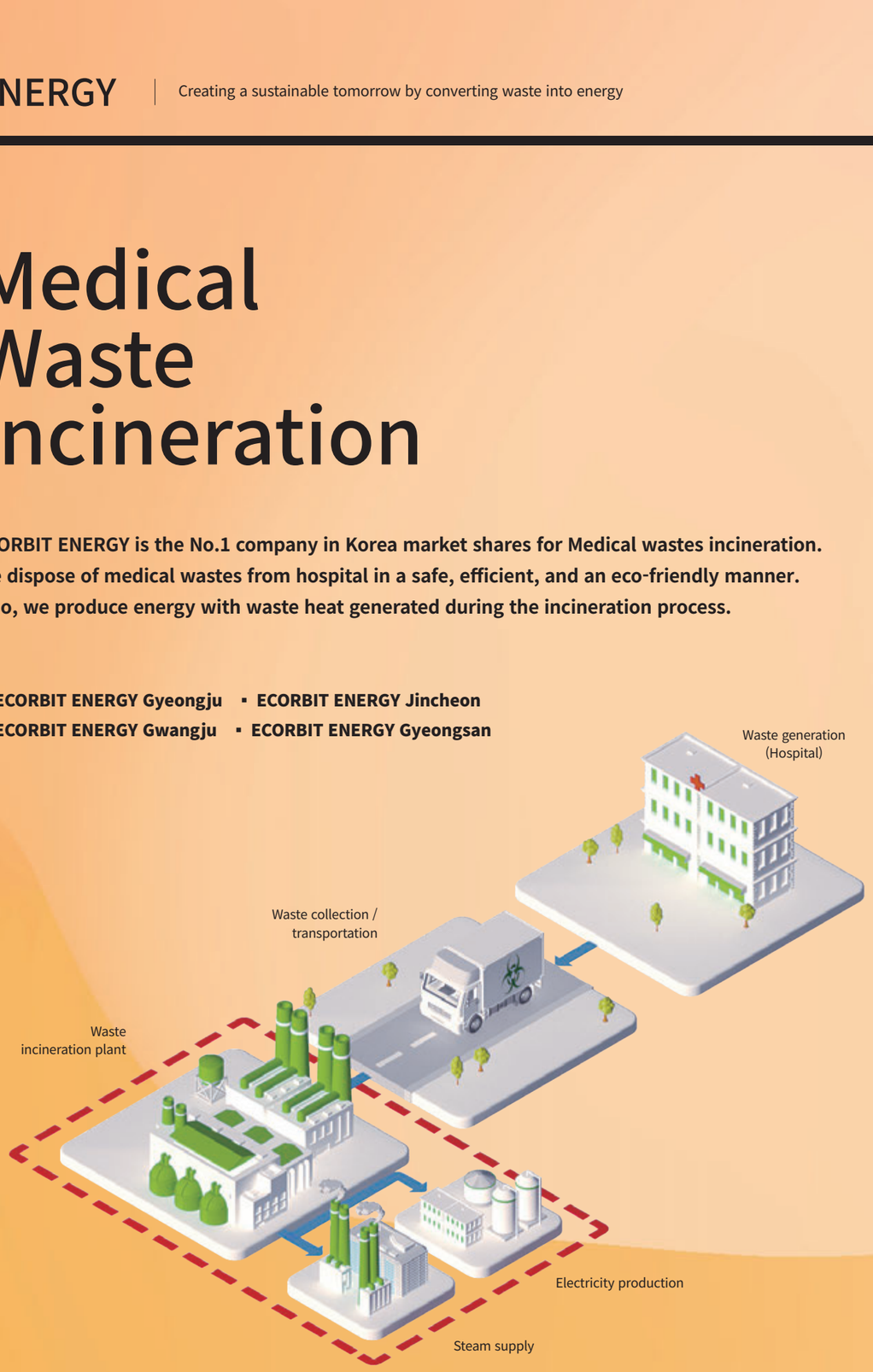
Eumseong Final Waste Treatment Center

Landfill Capacity 40,177 m^2
Permitted Capacity 998,200 m^3

Medical Waste Incineration

ECORBIT ENERGY is the No.1 company in Korea market shares for Medical wastes incineration.
We dispose of medical wastes from hospital in a safe, efficient, and an eco-friendly manner.
Also, we produce energy with waste heat generated during the incineration process.

- **ECORBIT ENERGY Gyeongju**
- **ECORBIT ENERGY Jincheon**
- **ECORBIT ENERGY Gwangju**
- **ECORBIT ENERGY Gyeongsan**



ECORBIT ENERGY Gyeongju

Establishment Date 2001. 4. 13
Main Business Waste disposal intermediate treatment business (Medical waste incineration)
Medical waste collection and transport business

Category	Treatment Capacity	Units	Target Waste
Waste treatment business (Medical waste incineration)			
Waste incinerator (Plant 1)	60 tons/day	1 Unit	Quarantine medical waste, general medical waste, hazardous medical waste(tissues, pathological, sharps, biochemical, blood)
Waste incinerator (Plant 2)	60 tons/day	1 Unit	
Total	120 tons/ day		
Power plant business(Renewal energy)			
Steam turbine	2,800 kwh	1 Unit	

ECORBIT ENERGY Jincheon

Establishment Date 1994. 9. 1
Main Business Waste disposal intermediate treatment business (Medical waste incineration)

Category	Treatment Capacity	Units	Target Waste
Waste treatment business (Medical waste incineration)			
Waste incinerator	76.8 tons/day	1 Unit	Quarantine medical waste, general medical waste, hazardous medical waste(tissues, pathological, sharps, biochemical, blood)
Steam supply business (Renewal energy)	18 tons/hour		

ECORBIT ENERGY Gwangju

Establishment Date 2011. 3. 4
Main Business Waste disposal intermediate treatment business (Medical waste incineration)

Category	Treatment Capacity	Units	Target Waste
Waste treatment business (Medical waste incineration)			
Waste incinerator	24 tons/day	1 Unit	Quarantine medical waste, general medical waste, hazardous medical waste(tissues, pathological, sharps, biochemical, blood)
Steam supply business (Renewal energy)	8 tons/hour		

ECORBIT ENERGY Gyeongsan

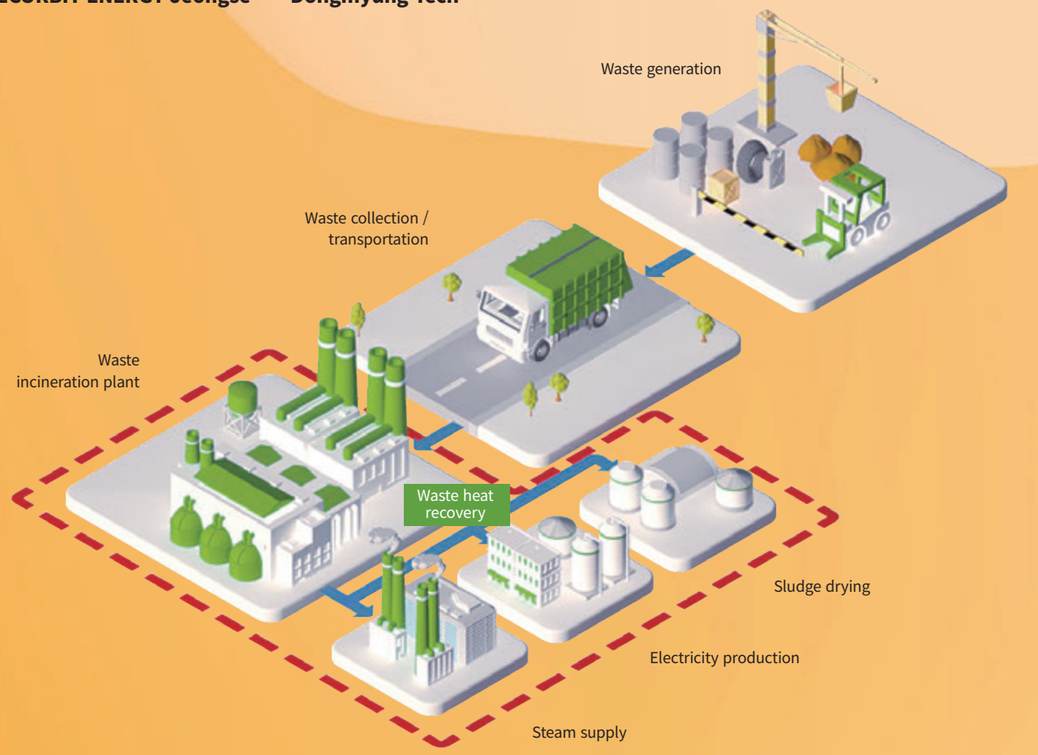
Establishment Date 1996. 8. 24
Main Business Waste disposal intermediate treatment business (Medical waste incineration)

Category	Treatment Capacity	Units	Target Waste
Waste treatment business (Medical waste treatment incineration)			
Waste incinerator	44.4 tons/day	1 unit	Quarantine medical waste, general medical waste, hazardous medical waste(tissues, pathological, sharps, biochemical, blood)
Steam supply business (Renewal energy)	20 tons/hour		

Industrial Waste Incineration

ECORBIT ENERGY dispose of Industrial wastes from business sites in a safe, efficient, and an eco-friendly manner.
Also, we make use of waste heat generated during the incineration process to produce energy and recycling wastes.

- **ECORBIT ENERGY Sejong**
- **ECORBIT ENERGY Myungsung**
- **ECORBIT ENERGY Jeongse**
- **Dongmyung Tech**



ECORBIT ENERGY Sejong

Establishment Date 2012. 4. 1
Main Business Waste disposal intermediate treatment business (Industrial waste incineration)

Category	Treatment Capacity	Units	Target Waste
Waste treatment business (Industrial waste incineration)			
Waste incinerator	78 tons/day	1 Unit	Plastic waste, paper waste, wood waste, fiber waste, synthesized rubber waste, animal and plant growth waste, industrial sludge, etc.
General waste recycling business			
Sludge Dryer	83.3 tons/day	3 Units	Organic sludge (Sewage, wastewater)
Wood waste crushing and grinding facility	33.3 tons/day	1 Unit	Wood waste
Crushing and grinding sorting facility	120 tons/day	2 Units	Plastic waste
Construction waste treatment business (crushing and grinding)			
Aggregate recycling facility	2,000 tons/day	1 Unit	Construction waste
Power plant business(Renewal energy)			
Steam turbine	160 kwh	5 Units	
Waste collection and transport business (Drainage facility / non-drainage facility / construction waste)			

ECORBIT ENERGY Jeongse

Establishment Date 2015. 5. 15
Main Business Waste disposal intermediate treatment business (Industrial waste incineration)

Category	Treatment Capacity	Units	Target Waste
Waste treatment business (Industrial waste incineration)			
Waste incinerator	91.2 tons/day	1 Unit	Plastic waste (consumer / construction), fiber waste, organic sludge (after drying) other synthetized polymerized waste, other waste, waste oil (solid), other solvent waste (solid)
Dryer facility (ordinary)	60 tons/day	1 Unit	Organic sludge (before dryer)
General waste recycling business	210 tons/day		
Sludge Dryer	70 tons/day	3 Units	Organic sludge (Sewage, wastewater)
Power plant business(Renewal energy)			
Steam turbine	2,600 kwh	1 Unit	

ECORBIT ENERGY Myungsung

Establishment Date 2021. 8. 19
Main Business Waste disposal intermediate treatment business (Industrial waste incineration)

Category	Treatment Capacity	Units	Target Waste
Waste treatment business (Industrial waste incineration)			
Waste incinerator(Plant 1)	72 tons/day	1 Unit	Plastic waste (business site, construction, consumer) Fiber waste (business site, construction, consumer), wood waste (business site, construction, consumer), rubber waste, other waste
Power plant business(Renewal energy)			
Steam turbine	2,700 kwh	1 Unit	
Waste collection and transport business (Drainage facility)			

Dongmyung Tech

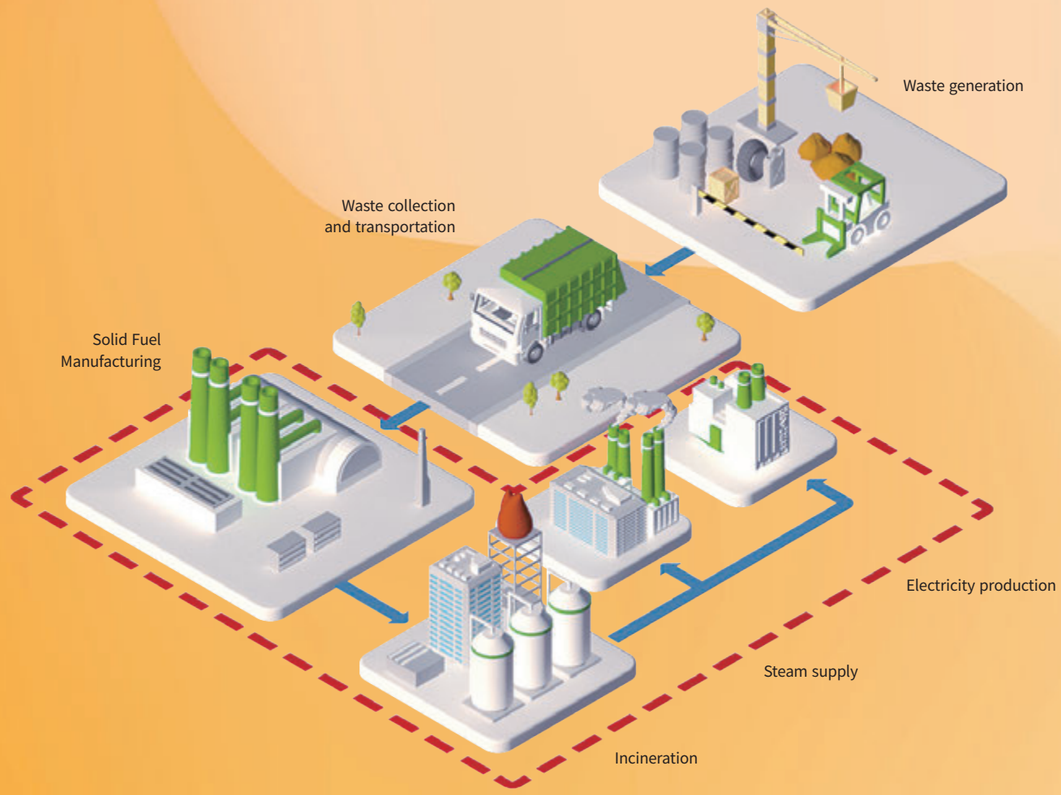
Establishment Date 2021. 6. 14
Main Business Waste disposal intermediate treatment business (Industrial waste incineration)

Category	Treatment Capacity	Units	Target Waste
Waste treatment business (Industrial waste incineration)			
Waste incinerator	96 tons/day	1 Unit	polymerized chemical waste, other waste, fiber waste, animal and plant growth waste, wood waste, paper waste, organic sludge waste, mineral waste, other organic waste
Steam supply business	20 tons/hour		

SRF
(Solid Refuse Fuel)

ECORBIT ENERGY manufactures high quality SRF (solid refuse fuel) by recycling combustible solid waste.
We provide high-quality, low-cost energy to our customers by incinerating the high calorific value SRF.

- **ECORBIT ENERGY Ulsan**
- **ECORBIT ENERGY Jeonju**



SRF(Solid Refuse Fuel)

Solid Refuse Fuel (SRF) - Generic term for solid fuel converted into fuel by sorting combustible waste and processed by crushing, grinding, and molding to minimize waste production and maximize recycling of soluble materials.

Automotive Shredder Residue (ASR) - Refers to the ferrous metals, nonferrous metals, and miscellaneous residues remaining after crushing automotive wastes that become the raw material for solid fuel.

ECORBIT ENERGY Ulsan SRF

Waste Solid Fuel Production
Production Capacity 180 tons/day
Product Sold Solid Fuel (Pellet SRF, fluff SRF)

ECORBIT ENERGY Asan SRF

Waste Solid Fuel Production
Production Capacity 150 tons/day
Product Sold Solid Fuel (Pellet SRF)

Steam Supply / Power Generation

Using ASR as fuel generates heat, which is recovered to create steam that is used to operate the steam turbine, which generates electricity and steam.

ECORBIT ENERGY Ulsan

SRF Combustion and Steam/Electricity Production
Facility Capacity 75 tons/hour(Steam)
2 MWh(Power generation)

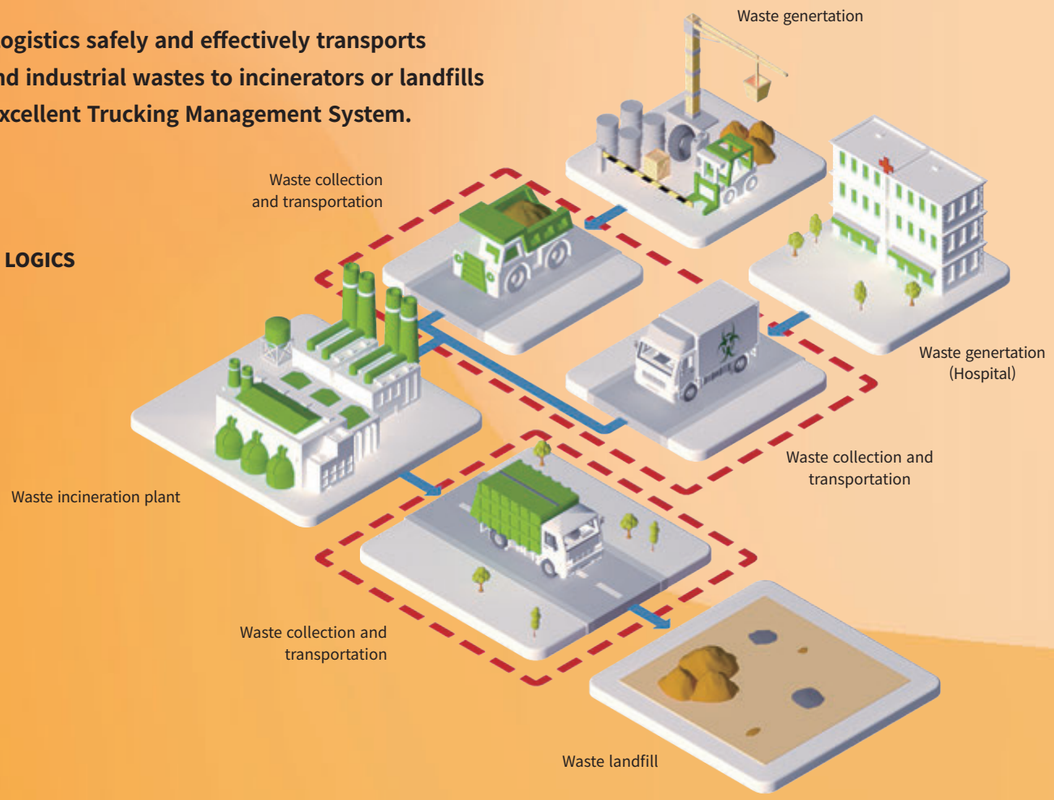
ECORBIT ENERGY Jeonju

ASR Combustion and Steam Supply
Facility Capacity 25 tons/hour(Steam)

Waste Collection and Transport

ECORBIT Logistics safely and effectively transports medical and industrial wastes to incinerators or landfills with our excellent Trucking Management System.

- **ECORBIT LOGICS**



ECORBIT LOGICS

Establishment date 2022.09.26

Main Business Medical/Industrial Waste collection and transport business, Freight forwarding business

Medical waste collection and transport business

Freight forwarding business

Industrial waste collection and transport business

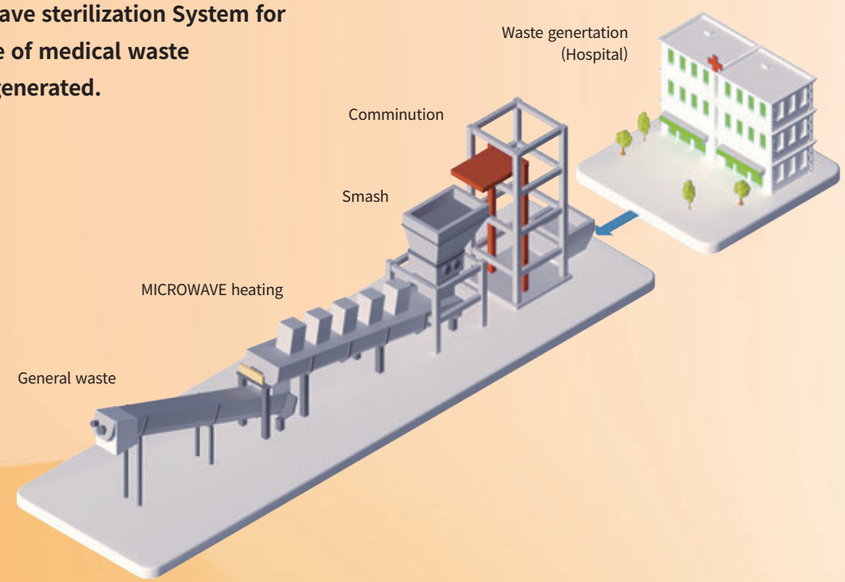
Category	Target Waste
Medical waste collection and transport business	Quarantine medical waste, hazardous medical waste, general medical waste
Industrial waste collection and transport business	Ordinary industrial wastes
freight forwarding busin	Intermediate processed waste, SRF

Medical waste Sterilization

Production and Operation Management of Microwave sterilization system

ECORBIT ENVSOL provides an eco-friendly medical waste treatment method by eliminating risk of infection by supporting production and operation management of Microwave sterilization System for hospitals to self-dispose of medical waste immediately after it is generated.

- **ECORBIT ENVSOL**



ECORBIT ENVSOL

Establishment date 2003.09.17

Main Business Production and Operation Management of Microwave sterilization system

Medical Waste Microwave sterilization System Achievements

(Possesses the largest number of Microwave sterilization System installation and licensing experience in Korea)

Yongin Severance Hospital

Active since June 2020

- Completed 400 kg/hr-level IMS-400 production and installation
- In operation after signing operation management service contract

Gachon University Gil Medical Center

Active since July 2020

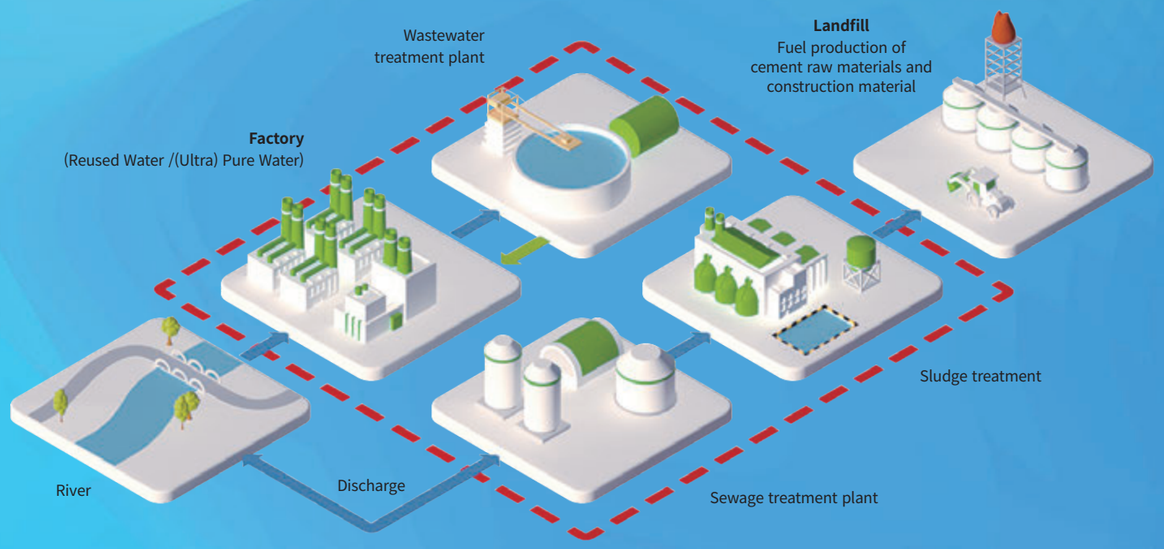
- Completed 500 kg/hr-level IMS-500 production and installation
- In operation after signing operation management service contract

Sewage and Wastewater Treatment

ECORBIT WATER has the highest operating performance of environmental infrastructure including wastewater treatment facilities in the Korea.

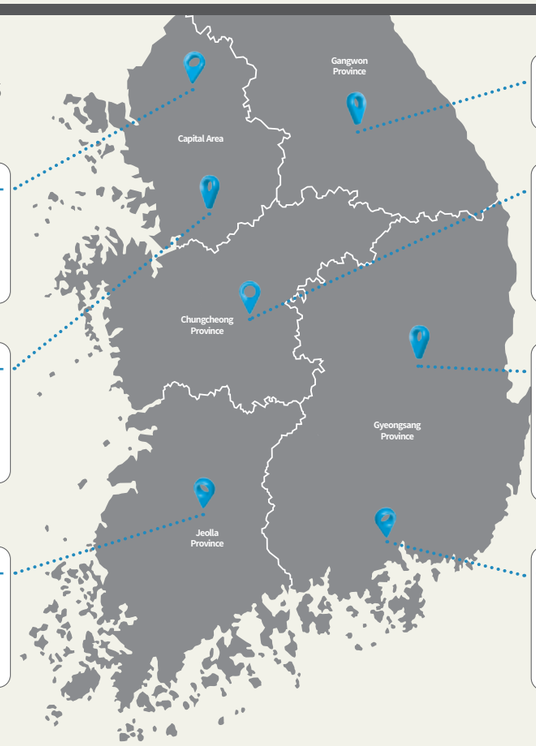
Foundation on the best operating know-how and advanced technology, ECORBIT is conducting operation, private investment, and EPC projects.

▪ **ECORBIT WATER**



Nationwide facilities status

(Unit : Sites)



Northern Capital Area

- Sewage treatment plant : 44
- Wastewater treatment plant : 2
- Waste incineration plant : 1
- Sewage sludge treatment plant : 1
- Environmental infrastructure : 7

Southern Capital Area

- Sewage treatment plant : 45
- Waste incineration plant : 1
- Sewage sludge treatment plant : 2
- Food waste treatment plant : 3
- Environmental infrastructure : 6

Jeolla Province

- Sewage treatment plant : 157
- Sewage sludge treatment plant : 5
- Food waste treatment plant : 2
- Environmental infrastructure : 4
- Sewer pipe maintenance : 2

Gangwon Province

- Sewage treatment plant : 46

Chungcheong Province

- Sewage treatment plant : 150
- Wastewater treatment plant : 13
- Sewage sludge treatment plant : 3
- Environmental infrastructure : 5
- Sewer pipe maintenance : 2

North Gyeongsang Province

- Sewage treatment plant : 167
- Wastewater treatment plant : 7
- Waste incineration plant : 3
- Sewage sludge treatment plant : 3
- Environmental infrastructure : 5
- Sewer pipe maintenance : 7

South Gyeongsang Province

- Sewage treatment plant : 6
- Wastewater treatment plant : 1
- Sewage sludge treatment plant : 4
- Environmental infrastructure : 4
- Sewer pipe maintenance : 6

Sewage and Wastewater treatment facilities

Jeonju Public Sewage Treatment Facility

Capacity 403,000 m^3/day
Process CSBR, CNR

Ilsan Water Quality Restoration Center

Capacity 270,000 m^3/day
Process MLE + URC Process

Gimcheon Public Sewage Treatment Facility

Sewage treatment plant 80,000 m^3/day
Livestock excretion 120 kℓ/day
Drying facility 50 ton/day
Solar energy generation 2.4 MW
Process TEC-BNR

National Industrial Complex(Gyeongsan Public Wastewater Treatment Facility)

Capacity 100,000 m^3/day
Process Anaerobic/aerobic treatments

Yongam Wastewater Treatment Facility

Capacity 85,000 m^3/day
Process DeNiPho + HRSCC

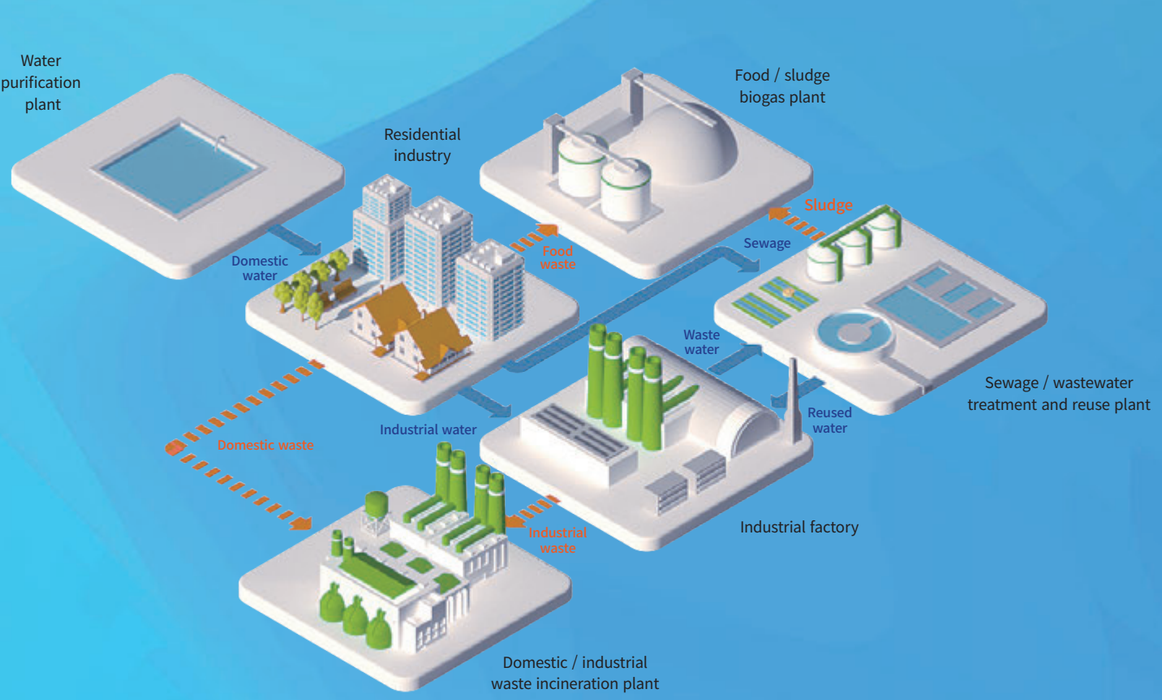
STATS ChipPAC Korea

Capacity 2,500 m^3/day
Process MBR etc.

Environmental Materials

ECORBIT M&S conducts intensive professional management at each stage of water flow, so as to waste not even a drop of water during this time of precious water shortage.

- **ECORBIT M&S**



Main Businesses

1. Cooling water treatment

- Control of scale & corrosion
- Control of microbiological fouling
- Real-time monitoring

2. Boiler water treatment

- Control of scale & corrosion
- Anti-Micro organism

3. Environmental materials

- Wastewater treatment
- Reduction of waste
- Water quality improvement

4. Environmental equipment

- Air pollutant prevention facilities
- Odor prevention facilities
- Water treatment facilities

Product Brands & Applications

Brand	Application	Supply status
SKY TOP	Chemicals of cooling water	SK energy, SKC
SKY POWER	Chemicals of boiler water	POSCO, SH corporation
COOL SHOT	Chemicals of mid-small cooling water	Mid-size building & plant
COAR	Environmental facilities	Environmental facilities of local governments
UTILITY CHEMICALS	Commodity & process chemicals	SK chemicals, SK hynix, SK Specialty
etc.	Biocide, Microorganism product	Paint, Lubricant, Sewage

Technical Services

Provide technology and cooperate for the entire water treatment process through continuous interaction with the customer

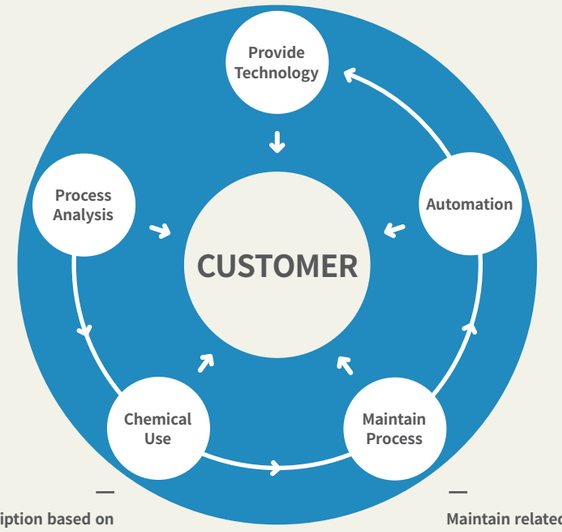
> Provide related technological data within Korea and abroad

—

Inspect related processes and operation conditions for optimized process operation

> Share process analysis data and cooperate on direction for optimization

—



—

Automate chemical injections

> Paid or free lending of automated dissolving equipment and automated chemical injection equipment

—

Manage chemical prescription based on water quality and where water is applied

> Select most suitable chemical and manage amount of chemicals used

—

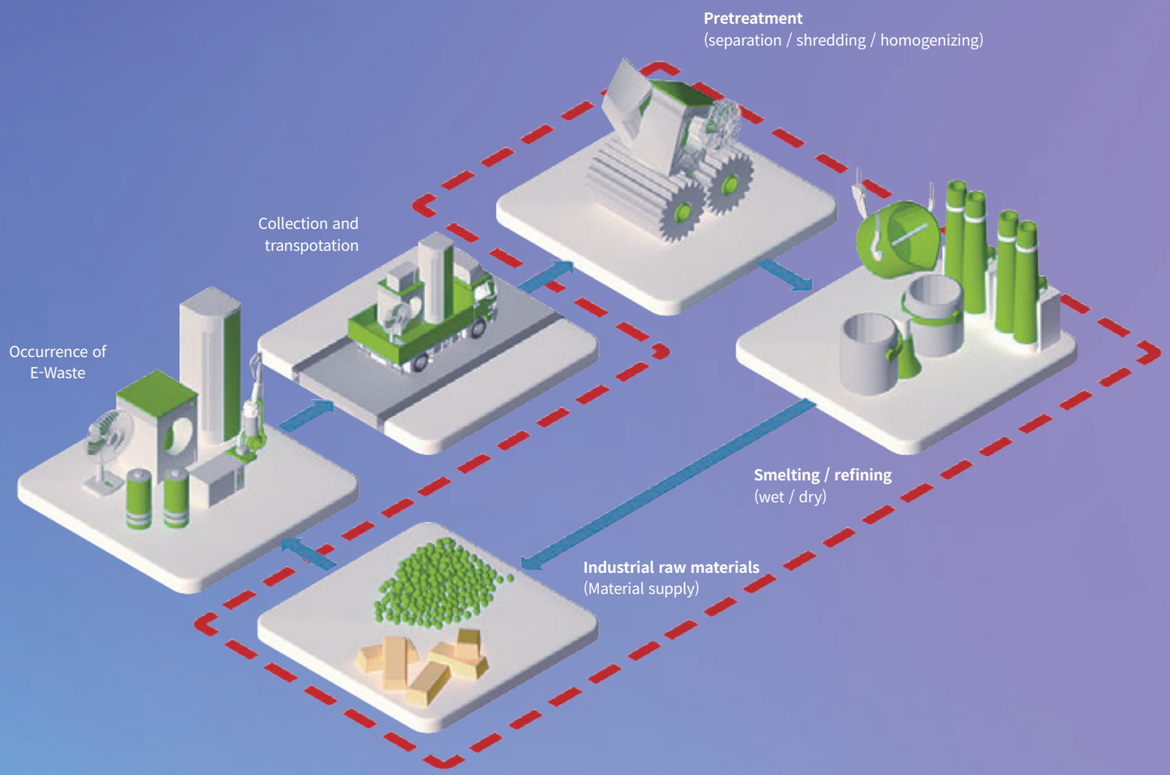
Maintain related processes and process conditions for stable process operation

> Provide technological consultation for solution when troubles arise

Urban Mining & Battery Recycling

ECORBIT PRETECH provides optimal services for customers by collecting metal resources from industrial activities and applying eco-friendly secondary battery recycling technology.

▪ **ECORBIT PRETECH**



Main Businesses

Lithium secondary battery

- Battery manufacturing process scrap
- After use battery
- Energy Storage System(ESS)

Solar Panels

- Solar panel module production process scrap
- Waste modules

Scrap

- Semiconductor scrap, PCB, lead frame, miscellaneous e-scrap
- Waste electric wires and communication cables
- Miscellaneous nonferrous metal scrap

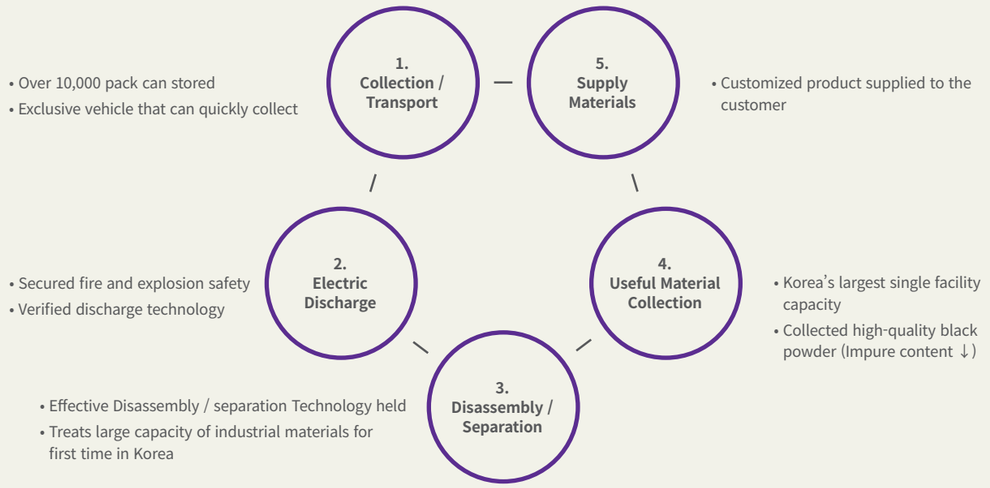
Catalysts

- Waste petrochemical catalyst
- Waste miscellaneous chemical(bio) catalyst
- Waste vehicle three-way catalyst

Sludge

- Inorganic sludge from precious metal and nonferrous metal refining and smelting processes
- Fly ash from production processes and collected dust

Battery Recycling



Soil Remediation

ECORBIT (Soil business division) contributes to the earth by restoring the ecosystem and maintaining the clean land through remediation of contaminated soil and groundwater.

ECORBIT (Soil business division) has the largest capacity of off-site remediation facilities in Korea.

- **ECORBIT(Soil Business Division)**

Remediation Facilities

Yeoju Remediation Facility

Method Land Farming, Electrokinetic, Chemical Oxidation
Treatable Compounds BTEX, TPH, Heavy metals

Chungju Remediation Facility 1

Method Land Farming, Electrokinetic, Chemical Oxidation
Treatable Compounds BTEX, TPH, Heavy metals

Chungju Remediation Facility 2

Method Land Farming, Electrokinetic Separation, Chemical Oxidation, Thermal Desorption, Soil Washing
Treatable Compounds BTEX, TPH, POPs, PAHs, PCBs, Heavy metals

Gyeongju Remediation Facility 1

Method Land Farming, Electrokinetic, Chemical Oxidation, Soil Washing
Treatable Compounds BTEX, TPH, POPs, PAHsm PCBs, Heavy metals

Gyeongju Remediation Facility 2

Method Land Farming, Electrokinetic, Chemical Oxidation, Soil Washing
Treatable Compounds BTEX, TPH, Heavy metals

Yeongcheon Remediation Facility

Method Land Farming, Electrokinetic, Chemical Oxidation, Soil Washing
Treatable Compounds BTEX, TPH, Heavy metals

Off-Site Remediation

Iksan Peace Housing Environment Improvement Project Polluted Soil Purification Service

Project Owner LH(Korea Land and Housing Corp.)
Contaminated Volume 108,141 m^3
(F, TPH, Heavy metals)
Tech. Soil washing

Hannam-dong Foreigners Apartment Development Business Polluted Soil Treatment

Project Owner LOTTE E&C Co., Ltd.
Contaminated Volume 120,000 m^3
(F, TPH, Heavy metals)
Tech. Soil washing

The site of the United Nations Command

Project Owner LH (Korea Land and Housing Corp.)
Contaminated Volume 48,000 m^3
(F, TPH)
Tech. Soil washing

On-Site Remediation

39th Division Site Development Business Polluted Soil Purification

Project Owner Unicity Co.
Contaminated Volume 157,383 m^3
(TPH, Heavy metals)
Tech. soil washing

Janghang Refinery Purchase Area Soil Purification Business (Area 3)

Project Owner KECO (Korea Environment Corp.)
Contaminated Volume 130,072 m^3
(As, Cd, Pb, Ni)
Tech. soil washing

Janghang Pine Forest

Project Owner KECO (Korea Environment Corp.)
Contaminated Volume 341,597 m^3
(As, Cd, Pb, Ni)
Tech. Phytoremediation, S/S etc

PIONEER FOR THE HAPPINESS

ECORBIT creates a tomorrow where the individual and the group, the local society and the company coexist for mutual growth

We strive to fulfill our social responsibilities as a company and to create a healthy and happy tomorrow for all stakeholders.
We have developed eco-friendly technologies and set up a sustainable management system to emphasize our management in terms of not only ESG (Environmental, Social, and Governance) management operations but in full commitment to our social responsibilities as well.

ECORBIT SUSTAINABILITY

ESG
Compliance Management
Safety Management
Environmental Management

TECHNOLOGY
Specialty Business
R&D

SUBSIDARIES

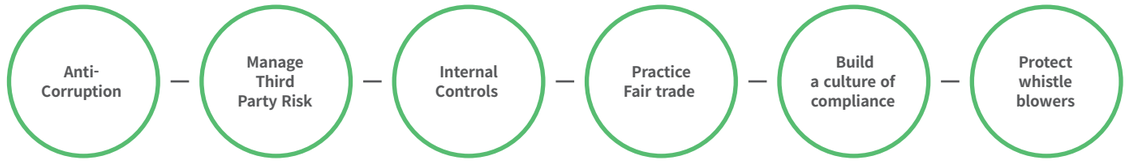
PATENT RIGHT

ESG MANAGEMENT

Corporate Governance

Compliance Management

ECORBIT's legal compliance for sustainable growth



Anti - Corruption
ECORBIT conducts its activities in full compliance with all applicable laws relating to bribery or corruption.

Manage Third Party Risk
ECORBIT requests that all third parties having transactions with ECORBIT comply with ECORBIT's compliance policies.

Internal Controls
All ECORBIT's expenditures are appropriately approved and accurately recorded in the financial ledger

Practice Fair trade
ECORBIT prohibits unfair trade practicies, such as bid-rigging.

Build a culture of compliance
To build a culture of compliance, ECORIT provides compliance training and messages, and ECORBIT personnel pledges to abide by ECORBIT's compliance policies.

Protect whistleblowers
ECORBIT protects whistleblowers' identities, and strictly prohibits any retaliation against whistleblowers.

Safety and Health Management

ECORBIT's safety and health culture to fulfill its social responsibilities

Establishing guidelines
Establish global health and safety guidelines (systems) such as personnel and budgets for disaster prevention and improve safety and health levels through regular reviews and improvements.

Education and Communication
By strengthening the capabilities through professional education and communication of safety and health workers, prevent safety and health accidents by creating a safe workplace for all workplace and partner workers.

Compliance with legal
By establishing strict in-house management standards based on international agreements and safety and health laws, all executives and employees fulfill their social and ethical responsibilities as a trusted company.

Establishing an Autonomous Safety Culture
Establish an autonomous safety culture by creating a culture of self-imposed safety and health through voluntary participation in safety and health management activities and continuous campaigns.

Elimination of Hazardous
It contributes to improving the health and quality of life of executives and employees by pre-discovering and eliminating risk factors in the workplace through financial and technical support.

Environmental Management

ECORBIT's efforts to create environmental value

Technical Support
Increase basic environmental facility management technology, review design, review technology section of proposals, and improve efficacy of operation management

Technological support by business type
Technological support for basic environmental facilities, proposing technological improvements for operation management

Review technology
Review of facilities, operation, and design technologies

Advance operation management systems
Enhance efficacy of operation management (inspect facility operation status)

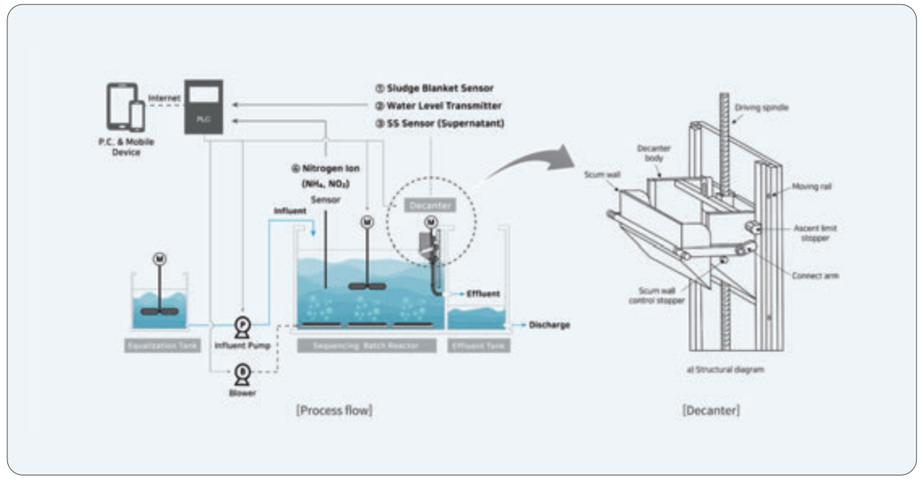
Lab management and Lab Quality Controls Lab Q.C(Laboratory Quality Control)
Evaluates the QC and various matters of the institution that carries out lab tests in the environmental domain, to secure the reliability of test results as a test analyzing institution

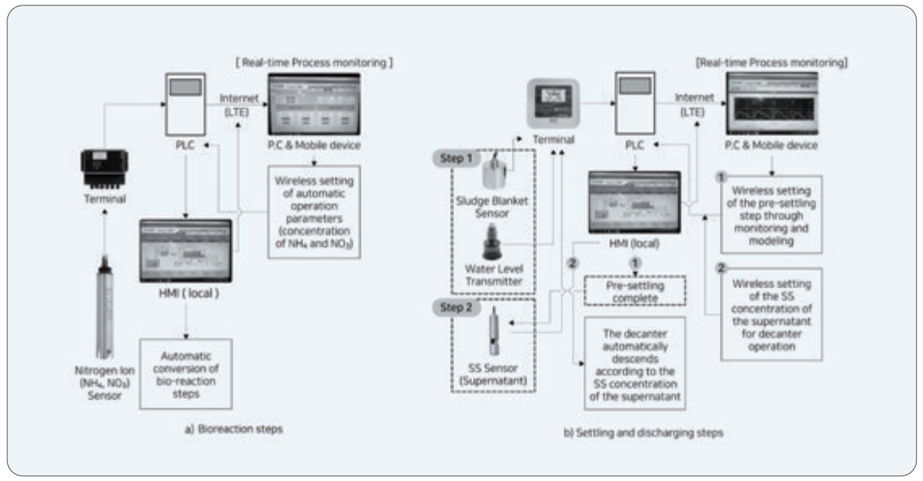
Internal proficiency assessment
Secure test analysis data accuracy

Evaluates the internal quality controls
Improve test analysis capability

Obtain qualification statement
Obtain Lab management and Lab Quality Controls qualification (verify from National Institute of Environmental Research)

Advanced wastewater treatment technology





[Configuration diagram of IoT system for automatic operation]

SMART-SBR 4.0

Intelligent automatic control Technology of wastewater treatment plant

Optimization of a sequencing batch reactor with the application of the Internet of Things

Introduction

- An SBR equipped with a newly developed automatic decanter together with the on-line monitoring sensors was evaluated

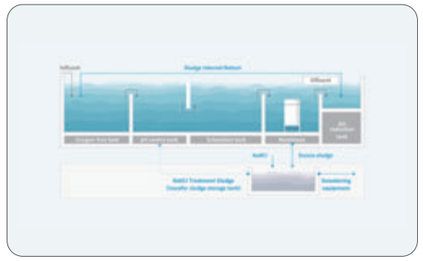
- The allocation of the bio reaction cycles was optimized with on-line sensors to manage fluctuations in inflow loading

Process Overview

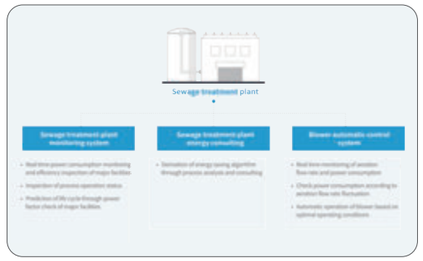
1. Real-time process modeling based on influent water quality monitoring (AHRT optimal control)

2. Automatic control of the anoxic-aerobic steps according to the behavior of nitrogen ions in the bioreactor

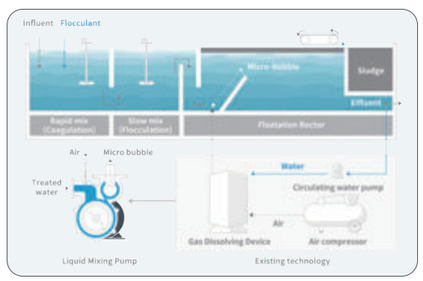
3. Automatic control of the decanter according to the settling characteristics of the activated sludge reduces the time required for the settling discharge step by 50%



ECORBIT-MBR



ECORBIT-ESS



ECORBIT-DAF

ECORBIT-MBR Nitrogen, Phosphorus Optimal Treatment Technology

Nitrogen and phosphorus treatment technology using sludge treated with sodium hypochlorite (NaOCl) and submerged membrane

- Sludge treated by NaOCl Characteristics : Facilitate elution of substrate by aeration due to dead condition and surface pore formation

Process summary

1. Manufacture NaOCl treated sludge using excess sludge and inject it into a bioreactor
2 Increasing microbial activity by supplying carbon source and alkalinity.
3. Optimization of nitrogen and phosphorus removal efficiency

ECORBIT-ESS Reduce power usage by approximately 4%

Sewage treatment plant energy saving technology and control program

Technology Summary

1. An IT-based intelligent control system that reduces the power of blowers, which account for 40% of the sewage treatment plant.

2. Possible to reduce blower power used in sewage treatment plant by more than 10% → Reduce overall sewage treatment plant power by 4%

Process Overview

1. Sewage treatment plant monitoring system
   Power consumption measurement / Operating factor analysis
2. Analysis and consulting for sewage treatment plant energy use
   Analyzing operating data and predicting aeration reduction
3. Build a blower automatic control system
   Algorithm through 1 and 2 steps / Applying blower energy saving control system

ECORBIT-DAF 30 ~ 40% power saving technology

Energy saving dissolved air flotation process using a gas liquid mixing pump

Process Technology

1. 2 way spray nozzle
- Semi permanent material, no need to replace
- On-site custom fine adjustment is possible
- Increased contact area by spraying in two places

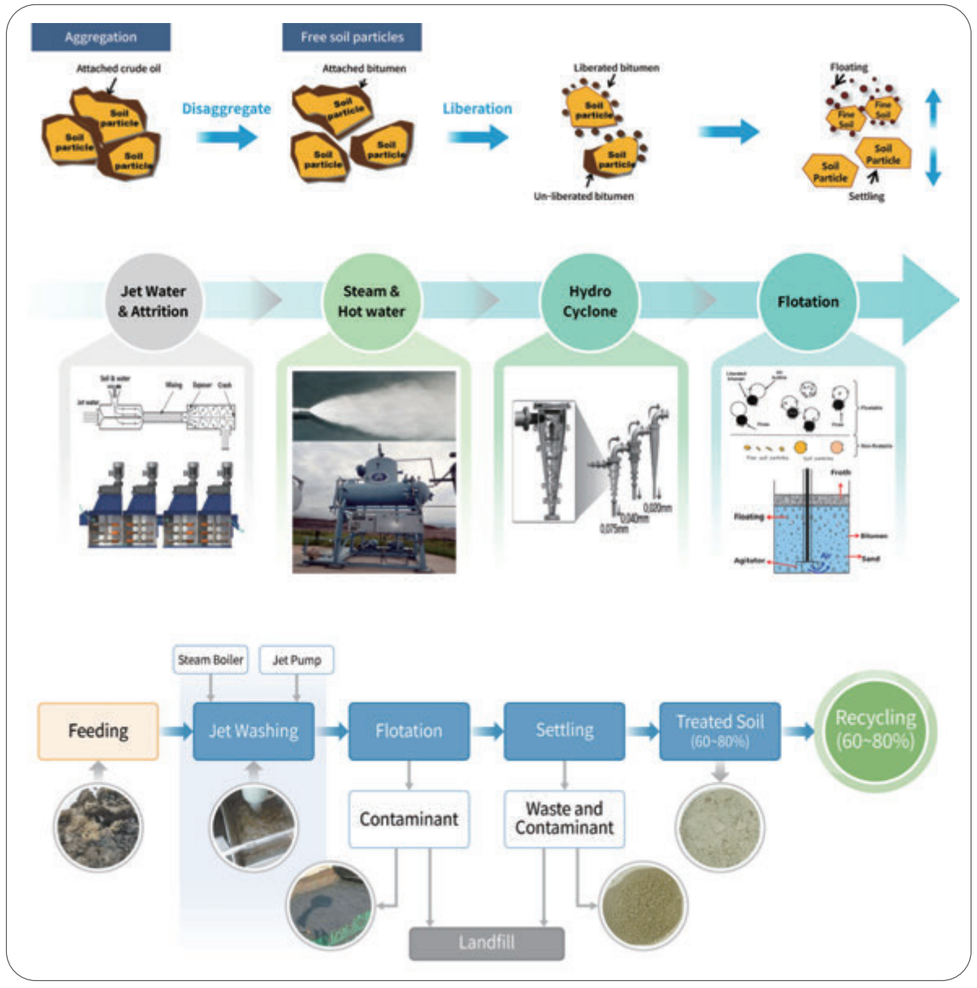
2. Gas and liquid mixing pump
- 30~40% reduction in power consumption compared to existing technologies
- Excellent maintainability by minimizing facilities
- Foot print reduced by at least 50% compared to existing technology

Soil Washing : Jet & Nanobubble Washing Method

Soil Washing

Jet Water

Water Jet Washing Process is used the shock energy generated in the process of crushing the cavitation bubbles and high pressure water jet through the customs tube to liveration and remove pollutants pressent on the soil surface. It can be a technology that can reduce the amount of medicine used. After liberation process, fine treated soil and contaminated soil with oil should separated in next process to protect the increasing of landfill operation volume by filter cake. So in this process should operate multi hydro cyclone for recovery fine treated soil and other waste material, contaminant with oil/metals should folate to tank surface to skimming.



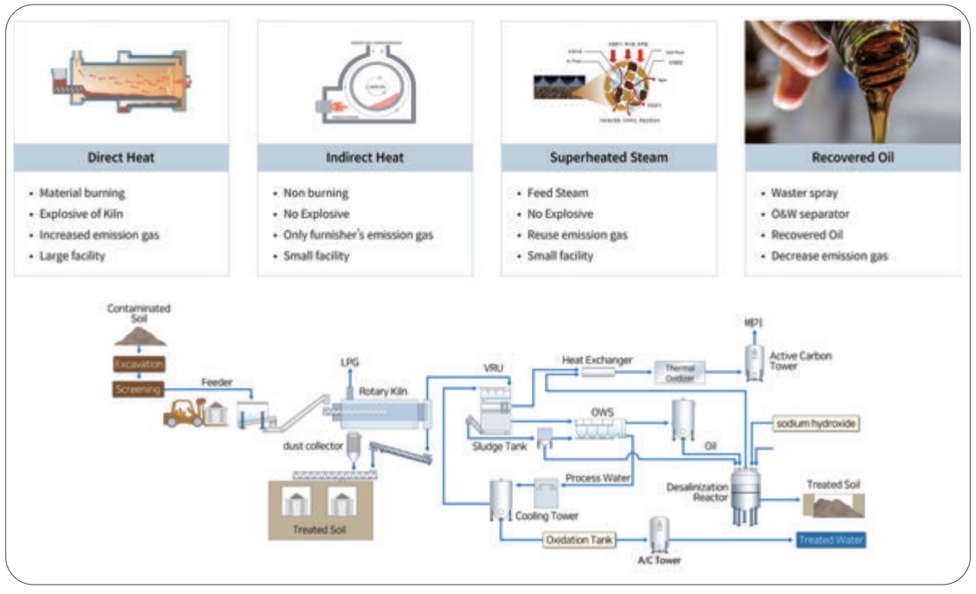
Low Temperature thermal Desorption

LTD, Indirect and Superheated steam

Low Temperature thermal desorption

LTD, Indirect and Superheated steam

We have technology to purify high concentration contaminated soil contaminated with crude oil. The direct thermal desorption method applies indirect thermal desorption to VOC evaporation and prevents self ignition by controlling the O2 content in order to solve the problem of controlling internal combustion by self combustion when high concentration contaminated soil is injected. In addition, it can increase the thermal efficiency of the kiln through a multi burner and has a technology of superheated steam method to evaporate pollutants through heat transfer (convection, conduction, radiation) in direct contact with pollutants.

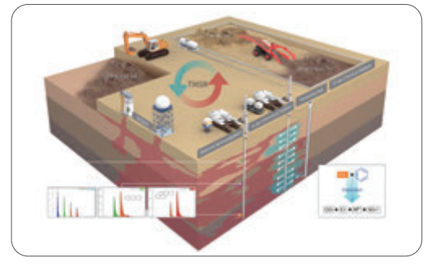


Total Management System of Soil Remediation

TMSR

Total Management System of Soil Remediation

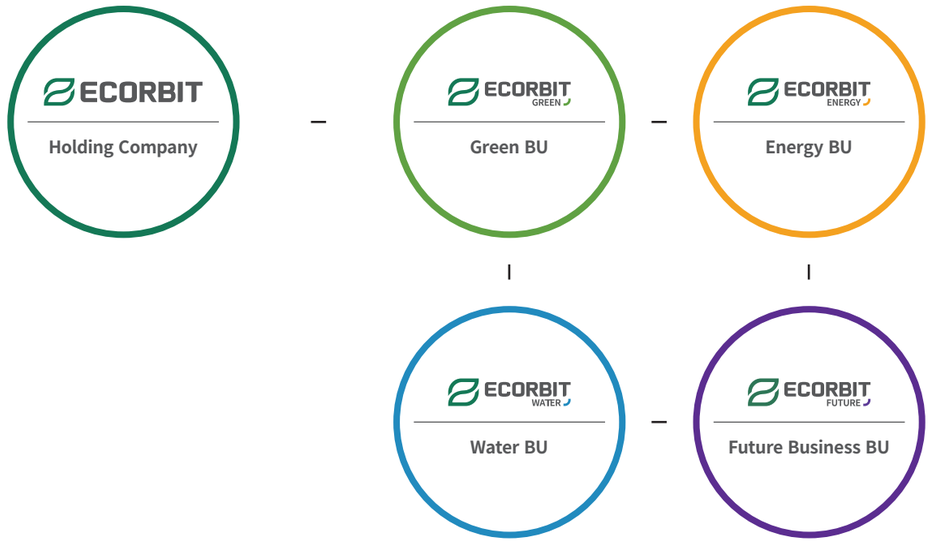
TMSR is new technology that it use the real time site investigation and remediation technology for applying the In situ Chemical Remediation. TMSR technology of ECORBIT can do a real time monitoring, decrease uncertainty of site survey, correct contaminated map of underground, efficiency decision making and increase remediation efficiency.



TMSR

SUBSIDIARIES

As Korea's top comprehensive environmental company, ECROBIT is managing businesses in all environmental fields and fulfilling its social and environmental responsibilities. ECORBIT will go beyond Korea and develop into the world's best comprehensive environmental company.



ECORBIT

(International Dialing Code +82)

Name of BU	Name of Company	Name of Branch	Address	Office No.	Fax No.	Details
Holding Company	ECORBIT	Seoul Office	8·10F, 155, Songpa-daero, Songpa-gu, Seoul, Republic of Korea	02-6901-8200	02-6901-8290	
	ECORBIT	Head Office	The Zone Medical Tower, 559-4 Changgok-dong, Sujeong-gu, Seongnam-si, Gyeonggi-do	031-778-6792	031-778-6793	

ECORBIT Green BU

(International Dialing Code +82)

Name of BU	Name of Company	Name of Branch	Address	Office No.	Fax No.	Details
Green BU	ECORBIT GREEN	changwon Head Office	Jeokhyeon-ro 279beon-gil, Seongsan-gu, Changwon-si, Gyeongsangnam-do	055-210-3900	055-264-4901	terminal waste disposal business (ordinary and designated)
		Pohang Branch	188, Songdeok-ro, Daesong-myeon, Nam-gu, Pohang-si, Gyeongsangbuk-do, Republic of Korea	054-277-8288	054-277-8226	
		Gumi Branch	56, 4gongdan-ro 10-gil, Gumi-si, Gyeongsangbuk-do, Republic of Korea	054-476-5540	054-476-5560	
	ECORBIT GREEN Cheongju		483, Hugi-gil, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do	043-216-0806	043-216-0807	terminal waste disposal business(ordinary)
	ECORBIT GREEN Chungju		95, Megapoliseu 3-ro, Daesowon-myeon, Chungju-si, Chungcheongbuk-do	070-4112-9000	043-842-7772	terminal waste disposal business(ordinary and designated)
	Yeongcheon ECO		811, Hoguk-ro, Gogyeong-myeon, Yeongcheon-si, Gyeongsangbuk-do, Republic of Korea	054-706-7011	0505-300-0015	terminal waste disposal business(ordinary)

ECORBIT Water BU

(International Dialing Code +82)

Name of BU	Name of Company	Name of Branch	Address	Office No.	Fax No.	Details
Water BU	ECORBIT WATER	Seoul Office	8F, 155, Songpa-daero, Songpa-gu, Seoul, Republic of Korea	02-6901-8200	02-6901-8390	Environmental Foundation Facility (Sewage, Wastewater, Incineration, Etc.)
		Seongnam Head Office	The Zone Medical Tower, 559-4 Changgok-dong 2F Sujeong-gu, Seongnam-si, Gyeonggi-do	031-778-8378	031-778-8387	
	ECORBIT M&S	Head Office	9F, 155, Songpa-daero, Songpa-gu, Seoul, Republic of Korea	02-6901-8299	02-6901-8292	Materials business (selling water treatment products and related services) and the construction of mechanical equipment Exportation and importation of basic drugs Environmental technology research and development Environmental Consulting and Engineering Service
		Yeongnam Office	3rd fl., 27, Sinduwang-ro, Nam-gu, Ulsan	070-4648-3055	052-710-5707	

ECORBIT Energy BU

(International Dialing Code +82)

Name of BU	Name of Company	Name of Branch	Address	Office No.	Fax No.	Details
Energy BU	ECORBIT ENERGY		7 Geumsa-ro, Jincheon-eup, Jincheon-gun, Chungcheongbuk-do	043-533-5764	043-533-5767	Waste disposal treatment business (Medical waste incineration)
	ECORBIT ENERGY Gyeongsan		355-26 Daegudae-ro, Jillyang-eup, Gyeongsan-si, Gyeongsanbuk-do	053-857-0360	053-851-8222	Waste disposal treatment business (Medical waste incineration)
	ECORBIT ENERGY Gyeongju		178-1, Duryu-gil, Angang-eup, Gyeongju	054-763-0340	054-763-0343	Waste disposal treatment business (Medical waste incineration) Steam Power Generation Business
	ECORBIT ENERGY Gwangju		690-14, Sannam-ro, nam-gu, Gwangju	062-674-5767	062-674-5769	Waste disposal treatment business (Medical waste incineration)
	ECORBIT ENERGY Myungsung	Head Office	63-3, Daetong 2-gil, Yeosu-si, Jeollanam-do	062-675-4200	062-675-4266	Waste disposal treatment business (Industrial waste incineration) Waste collection and transport business
		Gwangju Branch	50-4, Maewol 1-ro, Seo-gu, Gwangju			
	Dongmyung Tech		20-3, Jindallae-gil, Yeosu-si, Jeollanam-do, Republic of Korea	070-4676-9053	02-786-3689	Waste disposal treatment business(Industrial waste incineration), Steam turbine
	ECORBIT ENERGY Sejong		341 Solti-ro, Jeonjeon-myeon, Sejong Special Self-Governing City	044-862-5123	044-862-5356	Waste disposal treatment business (Industrial waste incineration) / Construction waste disposal treatment business / Recycling treatment business (dryer) / Comprehensive recycling business (comminution) / Steam Power Generation Business / Waste collection and transport business
	ECORBIT ENERGY Ulsan	Head Office	Yeocheon-ro, Nam-gu, Ulsan, Republic of Korea	052-257-6904	052-257-6901	Waste to Energy Business Solid Refuse Fuel(SRF) Production / Steam Production / Steam Power Generation Business
		Ulsan1 SRF	Yeocheon-ro, Nam-gu, Ulsan, Republic of Korea	052-257-6904	052-257-6901	
		Ulsan2 SRF	80, Sanan-ro, Nam-gu, Ulsan	052-265-8299	052-265-8699	
		Asan SRF	209-43, Sinjeongni-gil, Yeongin-myeon, Asan-si, Chungcheongnam-do, Republic of Korea	041-546-2394	041-546-2393	
	ECORBIT ENERGY Jeonju		(Palbok-dong 4-ga) 10-54, Gamsu-gil, Deokjin-gu, Jeonju-si, Jeollabuk-do, Republic of Korea	063-213-7310	063-213-7410	Waste to Energy Business Automotive Shredder Residue Treatment / Steam Production
	ECORBIT ENERGY Jeongse		218-116, Duryu-gil, Angang-eup, Gyeongsangbuk-do	054-761-6767	054-761-6868	Waste disposal treatment business (regular industrial waste, designated incineration) Recycling intermediate treatment business (dryer) Steam Power Generation Business
	ECORBIT ENERGY Cheongwon		155, Gwahaksaneop 1-ro Oksan-myeon, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do	043-216-0806	043-216-0363	Terminal waste disposal business (landfill) Waste disposal treatment business (industrial waste incineration) Comprehensive recycling business (shredding, dryer) Comprehensive waste recycling business (shredding)
	ECORBIT LOGICS	Head Office	10th fl., 155, Songpa-daero, Songpa-gu, Seoul	02-472-1866	02-473-1866	Medical waste collection and transport business Industrial waste collection and transport business freight forwarding business
		Yong-in Branch	72, Baekja-ro, Idong-eup, Cheoin-gu, Yongin-si, Gyeonggi-do			
	ECORBIT LOGICS Jungbu	Geumsan	20, Suyeong-gil, Boksu-myeon, Geumsan-gun, Chungcheongnam-do	041-751-5542	041-753-5546	Medical and Industrial Waste collection and transport business
		Cheonan	485, Michuk-ro, Mokcheon-eup, Dongnam-gu, Cheonan-si, Chungcheongnam-do	041-556-2020	041-551-5840	
	ECORBIT ENVSOL		10th fl., 155, Songpa-daero, Songpa-gu, Seoul	02-6901-8308	02-6902-9489	Planning and production of medical waste sterilized shredding and operation management

ECORBIT Future Business BU

(International Dialing Code +82)

Name of BU	Name of Company	Name of Branch	Address	Office No.	Fax No.	Details
Future Business BU	ECORBIT PRETECH	Jincheon Head Office	34-29, Dojang-gil, Chopyeong-myeon, Jincheon-gun, Chungcheongbuk-do, Republic of Korea	043-532-8191~3	043-532-8194	Secondary Battery Recycling Urban Mining & Battery Recycling Business (Comprehensive waste recycling business) Precious Metal Sludge / Scrap Recycling Solar Panel Recycling Catalyst Recycling
		Jincheon Branch	160, Chogeum-ro, Chopyeong-myeon, Jincheon-gun, Chungcheongbuk-do, Republic of Korea	043-753-7000	043-753-7040	
		Miryang Branch	23, Insan 1-gil, Cheongdo-myeon, Miryang-si, Gyeongsangnam-do, Republic of Korea	055-353-7970	055-353-7972	
		Yeongcheon Branch	122, Osu 5-gil, Yeongcheon-si, 122, Osu 5-gil, Yeongcheon-si,	043-532-8191~3	043-532-8194	
	ECORBIT (Soil Business Division)	Seoul Office	155, Songpa-daero, Songpa-gu, Seoul, Republic of Korea	02-6902-9415	02-6902-9489	Consulting, Site investigation, Remedial design, Construction & Operation for site remediation
		Gyeongju Remediation Facility	218-64, Duryu-gil, Angang-eup, Gyeongju-si, Gyeongsangbuk-do, Republic of Korea	054-763-8287	054-763-8287	
		Yeoju Remediation Facility	65-2, Eunbong-gil, Ganam-eup, Yeoju-si, Gyeonggi-do, Republic of Korea	031-885-1488		
		Chungju Remediation Facility	95, Megapolis 3-ro, Daesowon-myeon, Chungju-si, Chungcheongbuk-do, Republic of Korea	043-724-3159	043-724-3160	

Wholesome Solution
For Our Earth

ECORBIT

PATENT RIGHT

ECORBIT actively invests in technological innovation.
We create environmental technologies of the future through diverse methods and innovative thinking.

NO	Classification	Title	Issued by	Issue number
88	Soil	A contaminated soil washing device including a multi-stage vibration screen and a contaminated soil washing method using the same	KIPO(Korean Intellectual Property Office)	10-2467427
87	Resource Recycling	Separation Device for Upper Glass	KIPO(Korean Intellectual Property Office)	10-2430031
86	Resource Recycling	Dry discharge device capable of suppressing the explosion of waste Lithium cell	KIPO(Korean Intellectual Property Office)	10-2459353
85	Resource Recycling	Sampler having screw	KIPO(Korean Intellectual Property Office)	10-2402865
84	Sewage and Wastewater	Drum screen devices for wastewater processing equipped with rotating brush	KIPO(Korean Intellectual Property Office)	10-2470849
83	Sewage and Wastewater	Drum screen devices for wastewater processing equipped with brush and comb	KIPO(Korean Intellectual Property Office)	10-2470846
82	Sterilized Grinder	Medical waste sterilization crusher applying a modular crusher	KIPO(Korean Intellectual Property Office)	10-1973458
81	Soil	Method for extracting arsenic from soils contaminated with arsenic using oxalic acid and dithionite	KIPO(Korean Intellectual Property Office)	10-2271629
80	Water Treatment	Wastewater treatment method and system using sequencing batch	KIPO(Korean Intellectual Property Office)	10-2267624
79	Soil	Monitoring system for contaminated soil remediation equipment including direct-drilling spray injection pipe	KIPO(Korean Intellectual Property Office)	10-2257218
78	Soil	Contaminated soil remediation system including direct-drilling spray injection pipe	KIPO(Korean Intellectual Property Office)	10-2247863
77	Soil	Soil remediation method using an excavation unit	KIPO(Korean Intellectual Property Office)	10-2247861
76	Soil	Oil separation equipment for remediation system of complex contaminated soils	KIPO(Korean Intellectual Property Office)	10-1982969
75	Resource Circulation	Vehicles for transporting waste lithium batteries	KIPO(Korean Intellectual Property Office)	10-2397617
74	Resource Recycling	Briquet Manufacturing equipment for recycling copper slag	KIPO(Korean Intellectual Property Office)	10-2174781
73	Resource Recycling	Recycling Facilities and Methods of Waste Lithium-Ion Batteries	KIPO(Korean Intellectual Property Office)	10-2134719
72	Resource Recycling	Silicon Wafer and Metal Recovery Method for PV Cells	KIPO(Korean Intellectual Property Office)	10-1844380
71	Resource Recycling	Method and single system for recycling crystalline silicon PV module	KIPO(Korean Intellectual Property Office)	10-1747912
70	Water Treatment	Method for analyzing water quality in an open recirculation cooling water system	KIPO(Korean Intellectual Property Office)	10-0540894
69	Water Treatment	Bioreactor for cultivating bacteria in a wastewater treatment system	KIPO(Korean Intellectual Property Office)	10-0930330
68	Water Treatment	Composition for preventing corrosion and scales of a boiler, and the treatment method of water for the boiler	KIPO(Korean Intellectual Property Office)	10-0896518
67	Water Treatment	Multifunctional cooling water treatment composition not including divalent metal salt, and the water treatment method using the same	KIPO(Korean Intellectual Property Office)	10-1003064
66	Water Treatment	Method of water treatment suitable for water of high conductivity	KIPO(Korean Intellectual Property Office)	10-0949354
65	Water Treatment	Water treatment composition with biocide effect and the water treatment method using the same	KIPO(Korean Intellectual Property Office)	10-1205470
64	Water Treatment	Water treating composition and method for open recirculating cooling system	KIPO(Korean Intellectual Property Office)	10-1190519
63	Water Treatment	Method of water treatment for preventing corrosion and scale formation of metal	KIPO(Korean Intellectual Property Office)	10-1137459
62	Water Treatment	Treatment method for prevention of scale formation for a cooling system	KIPO(Korean Intellectual Property Office)	10-1127157
61	Water Treatment	Water treatment composition and water treatment method using the same	KIPO(Korean Intellectual Property Office)	10-1284809
60	Water Treatment	Water treatment composition with the function of microorganism sterilization and the water treatment method using the same	KIPO(Korean Intellectual Property Office)	10-1284801
59	Water Treatment	Water treating method for open recirculating cooling system	KIPO(Korean Intellectual Property Office)	10-1273371
58	Water Treatment	Equipment-protective compound of a closed heat-system	KIPO(Korean Intellectual Property Office)	10-1430043
57	Incineration	Waste incinerating method using stoker-type incinerator equipped with indirect-type waste pre-dryer including a spiral coil type heat exchanger for screw feeder	KIPO(Korean Intellectual Property Office)	10-2180425
56	Incineration	Stoker-type incinerator equipped with waste pre-dryer and bicone-type waste compressing and crushing apparatus	KIPO(Korean Intellectual Property Office)	10-2169127
55	Incineration	Waste incineration method using stoker-type incinerator equipped with direct-type waste pre-dryer	KIPO(Korean Intellectual Property Office)	10-2169126
54	Incineration	Waste incinerating method using stoker-type incinerator equipped with indirect-type waste pre-dryer)	KIPO(Korean Intellectual Property Office)	10-2166298
53	Incineration	Stoker-type incinerator equipped with waste pre-dryer and waste incinerating method using the same	KIPO(Korean Intellectual Property Office)	10-2166297
52	Sewage and Wastewater	Dissolved air flotation-type wastewater processing apparatus equipped with microbubble distributing nozzle	KIPO(Korean Intellectual Property Office)	10-2026325
51	Sewage and Wastewater	Flotation-type wastewater treatment device with a floor with concave grooves and a microbubble water supply pipe with an adjusted position	KIPO(Korean Intellectual Property Office)	10-2019903
50	Sewage and Wastewater	Floating beak-type wastewater processing device with microbubble contact part equipped with a horizontal distribution cone with a microbubble water baffle plate	KIPO(Korean Intellectual Property Office)	10-2016049

NO	Classification	Title	Issued by	Issue number
49	Sewage and Wastewater	Dissolved air flotation-type wastewater processing apparatus with microbubble contact part equipped with longitudinal distribution cone and varied width of wastewater inlet	KIPO(Korean Intellectual Property Office)	10-2009959
48	Sewage and Wastewater	Dissolved air flotation-type wastewater processing apparatus equipped with microbubble water compound pump with separated waterway	KIPO(Korean Intellectual Property Office)	10-1997705
47	Sewage and Wastewater	Dissolved air flotation-type wastewater processing apparatus equipped with microbubble contact part with concave groove wall and varied width of wastewater inlet	KIPO(Korean Intellectual Property Office)	10-1997704
46	Sewage and Wastewater	Flotation-type wastewater processing apparatus with microbubble contact part equipped with a cell distribution cone and a microbubble water complex pump	KIPO(Korean Intellectual Property Office)	10-1997703
45	Sewage and Wastewater	Dissolved air flotation-type wastewater processing apparatus equipped with microbubble contact part with concave groove bottom	KIPO(Korean Intellectual Property Office)	10-1990770
44	Sewage and Wastewater	Dissolved air flotation-type wastewater processing apparatus equipped with microbubble contact part with concave groove wall	KIPO(Korean Intellectual Property Office)	10-1990769
43	Sewage and Wastewater	Dissolved air flotation-type wastewater processing apparatus with microbubble contact part equipped with latitudinal distribution cone formed with hole and microbubble water compound pump	KIPO(Korean Intellectual Property Office)	10-1990774
42	Sewage and Wastewater	Dissolved air flotation-type wastewater processing apparatus equipped with microbubble water compound pump	KIPO(Korean Intellectual Property Office)	10-1990768
41	Sewage and Wastewater	Dissolved air flotation-type wastewater processing apparatus with microbubble contact part equipped with latitudinal distribution cone formed with guide panel for water containing microbubble	KIPO(Korean Intellectual Property Office)	10-1990776
40	Sewage and Wastewater	Dissolved air flotation-type wastewater processing apparatus with microbubble contact part equipped with inclined elliptical cone for latitudinal distribution	KIPO(Korean Intellectual Property Office)	10-1990775
39	Sewage and Wastewater	Dissolved air flotation-type wastewater processing apparatus with microbubble contact part equipped with latitudinal distribution cone formed with hole	KIPO(Korean Intellectual Property Office)	10-1990772
38	Sewage and Wastewater	Flotation separation wastewater treatment device with vertical distribution cone in contact with microbubbles	KIPO(Korean Intellectual Property Office)	10-1990771
37	Sewage and Wastewater	Control system for saving air blower energy	KIPO(Korean Intellectual Property Office)	10-1370595
36	Sewage and Wastewater	Reduction method for sewage sludge for enhancement of anaerobic digester	KIPO(Korean Intellectual Property Office)	10-1305458
35	Sewage and Wastewater	Alkaline sludge for phosphorus reduction, manufacturing method for alkaline sludge, method for phosphorus reduction of sewage and wastewater using alkaline sludge, and apparatus for performance thereof	KIPO(Korean Intellectual Property Office)	10-1142860
34	Sewage and Wastewater	Apparatus and method for high-flux membrane wastewater treatment using early stage control of membrane fouling	KIPO(Korean Intellectual Property Office)	10-1005422
33	Sewage and Wastewater	Microbubble flotation device using the saturated water generator	KIPO(Korean Intellectual Property Office)	10-0989779
32	Soil	Contaminated soil remediation equipment with twin screw drilling units	KIPO(Korean Intellectual Property Office)	10-2222683
31	Soil	Monitoring system for contaminated soil remediation equipment with twin screw drilling units	KIPO(Korean Intellectual Property Office)	10-2222681
30	Soil	Risk reduction method for soil contaminated with arsenic using perennial herb plants	KIPO(Korean Intellectual Property Office)	10-2206654
29	Sewage and Wastewater	Decanter device to discharge supernatant water	KIPO(Korean Intellectual Property Office)	10-2141378
28	Soil	Sediment crusher for the compound contaminated soil remediation system	KIPO(Korean Intellectual Property Office)	10-1929269
27	Soil	Compound contaminated soil remediation system	KIPO(Korean Intellectual Property Office)	10-1929272
26	Soil	Wastewater storage pool for the compound contaminated soil remediation system	KIPO(Korean Intellectual Property Office)	10-1929271
25	Soil	Contaminated soil remediation method using the pseudomonas aeruginosa TSKW-S5 strain able to decompose oil, and a method of using this to select strains	KIPO(Korean Intellectual Property Office)	10-1896428
24	Sewage and Wastewater	Wastewater treatment method and system from food treatment facilities	KIPO(Korean Intellectual Property Office)	10-1880619
23	Sewage and Wastewater	Highly concentrated organic wastewater purification system	KIPO(Korean Intellectual Property Office)	10-1836561
22	Soil	Portable contaminated soil remediation device	KIPO(Korean Intellectual Property Office)	10-1820268
21	Soil	Oil decomposition method using the pseudomonas aeruginosa TSKW-U6 strain with the ability to break down oil, and a method of using this to select strains	KIPO(Korean Intellectual Property Office)	10-1816087
20	Portable Water	Water treatment device and method using a membrane unit	KIPO(Korean Intellectual Property Office)	10-1692789
19	Waste	Sludge drying method and device	KIPO(Korean Intellectual Property Office)	10-0539413
18	Sewage and Wastewater	Aerobic dechlorination system and method	KIPO(Korean Intellectual Property Office)	10-1341822
17	Sewage and Wastewater	Excess sludge reduction method	KIPO(Korean Intellectual Property Office)	10-1340059
16	Soil	Oil decomposition method using the NR1 strain from pseudomonas with the ability to break down oil, and the method of using this to select strains	KIPO(Korean Intellectual Property Office)	10-1332347
15	Soil	High-pressure air and liquid injection apparatus for remediation of contaminated soil and groundwater	KIPO(Korean Intellectual Property Office)	10-1086248
14	Soil	Microorganism growth substrates, liquefied microorganism, and gaseous mixture spray injection device and method to purify contaminated underground water	KIPO(Korean Intellectual Property Office)	10-1433257
13	Sewage and Wastewater	Control method to reduce airflow and energy of a sewage treatment plant by analyzing the respiration rate of microorganisms	KIPO(Korean Intellectual Property Office)	10-1293581
12	Sewage and Wastewater	Desorption device for underwater pump	KIPO(Korean Intellectual Property Office)	10-0969846
11	Waste	Sludge solidification treatment device	KIPO(Korean Intellectual Property Office)	10-1034569
10	Waste	Sludge electric drying and rapid drying device	KIPO(Korean Intellectual Property Office)	10-1033678
9	Waste	Sludge mold drying device	KIPO(Korean Intellectual Property Office)	10-1033680
8	Waste	Sludge drying system	KIPO(Korean Intellectual Property Office)	10-1033682
7	Sewage and Wastewater	Advanced sewage and wastewater treatment method and device to perform the treatment	KIPO(Korean Intellectual Property Office)	10-1135011
6	Waste	Cleansing device for plastic bag waste used to store food waste and the solid fuel pretreatment method for plastic bag waste using the device	KIPO(Korean Intellectual Property Office)	10-1497911
5	Soil	High-capacity soil washing device	KIPO(Korean Intellectual Property Office)	10-0475431
4	Sewage and Wastewater	Nitrogen and phosphorus reduction method for wastewater using a wastewater treatment device equipped with a multi-stage pH control tank	KIPO(Korean Intellectual Property Office)	10-1369351
3	Sewage and Wastewater	Sewage and wastewater treatment device with a retained activated sludge and the nitrogen reduction method for sewage and wastewater using the sludge	KIPO(Korean Intellectual Property Office)	10-1237408
2	Sewage and Wastewater	Rainwater treatment system	KIPO(Korean Intellectual Property Office)	10-1230333
1	New Technology Certificate	Nitrogen and phosphorus treatment technology using sludge treated by sodium hypochlorite (NaOCl) and submerged separation membrane	KEITI(Korea Environmental Industry and Technology Institute)	NET Certificate No. 509 / ETV No. 203

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