### KOBELCO

CORPORATE PROFILE

KOBELCO ECO-SOLUTIONS CO., LTD.

# What kind of future do we want to create?

(BERKEY

Global warming, extreme weather, water and air pollution, a lack of water resources, a loss of biodiversity... A variety of environmental issues are emerging. How do we solve those challenges? What can we leave for our future children? In quest of solid solutions, we have been striving day by day, and have developed our advanced technologies. For a future society that lives in harmony with the earth. For a healthy environment and a sustainable future. Kobelco Eco-Solutions will contribute to crafting a sustainable society by our products and environmental technologies.



## Strive for sustainable future with advanced technologies.

or our bet

US

Kobelco Eco-Solutions offers its technologies that support safety and security of the s With our innovative thinking and our solid technical basis combined, we can find clues to solve the various environmental problems that our society is facing. We have unique, one-of-a-kind technologies. We are committed to continuing to strive toward further evolvements.

With our technologies and innovative thinking, we will provide solutions We will create values that exceed our customers' expectat Our guest for better future will never end.

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### BUSINESS OVERVIEW



#### Water Treatment Business P N8\_

EPC works (Engineering, Procurement, Construction)/ Equipment Production & Repair/ Operation and maintenance

We are a plant engineering company, and our activites include the construction and operation & maintenance for a wide range of water teatment facilities, from municipal use to industrial use. We are committed to creating a sustainable water environment.

#### Water treatment

·Treatment facilities for industrial water, city water and sewage ·Treatment facilities for ultrapure water, pure water, industrial water and wastewater Biomass

•Recycling system for organic waste such as sewage sludge and food

#### **Cooling Tower**

 Industrial/air conditioning cooling towers



In October 2021, we received an order for reconstruction of the sludge treatment facility project in Hyogo prefecture, Japan.

#### Waste Treatment Business P.12-

Design, manufacturing, procurement, construction, O&M services and sales Core equipment repair work

We can provide a series of services and solutions to meet various needs throughout the plant life. Our Waste-to-Energy plants and Recycling plants contribute to creating an eco-friendly society. Through our PCB detoxification treatment, we strive to eliminate negative environmental legacies for future generations.

#### Waste treatment

•Grate Type Incineration Fluidized-Bed Gasification & Combustion ·Fluidized-Bed Gasification and Melting Furnace ·Drum can crushing systems Recycling centers

#### **Detoxification of** PCB and Dioxin

•PCB detoxification treatment facilities



In March 2023, the Saitama Seibu Clean Center was completed

#### Pharmaceutical and Fine Chemical Equipment Business P.14-

Engineering Manufacturing Sales and maintenance

Our Harima Plant produces glass-lined equipment, powder treatment equipment, thin film evaporator etc., which are core components in the manufacturing process for chemical industries. Our equipment is highly valued in various industrial fields, such as pharmaceutical, fine chemical, electronic related materials and petrochemical, where sensitive or delicate material-processing is required for product guality control.

#### **Process Equipment**

·Glass-lined equipment ·Polymerizer, reactor, filter/dryer, mixed type freeze dryer, thin film evaporator

#### New Product HYX-E95™ now on sale!

HYX-E95™ is the hybrid glass-lining which combines the electro conductive glass ECOGL<sup>™</sup> II and low elution glass 9500. Its excellent antistatic performance as well as its electrostatic discharge resistance can enhance safety in the manufacturing process, and its excellent low metal ion elution performance can significantly reduce the metal ion contamination. These advantages will contribute to improving your product quality.

Anti-Static Low Elution HYX-E95

#### **New Business** P.16-

We contribute to solving various kinds of environmental issues by identifying new market needs and proposing business models, utilizing the unique technologies and know-how we have cultivated.

High-purity Hydrogen Oxygen Generator (HHOG™) Algae

#### Wood biomass power generation

#### HHOG<sup>™</sup> delivered to hydrogen power generation demonstration model facility!

Through Yamato H2Energy Japan, we delivered HHOG<sup>™</sup> to a hydrogen power generation demonstration model facility at Nihon Kensetsu Kogyo's Kanto General Center. The HHOG™ generates green hydrogen by using electricity from on-site solar energy generators. The hydrogen produced is supplied to hydrogen stations (for fuel cell forklifts and fuel cell vehicles) and fuel cells on the premises and in the event of a disaster, the facilities can contribute to the local community by supplying electricity to nearby residents.













## Water Treatment Segment

Contributing to the building of social infrastructure. Pursuing energy conservation and energy generation.

We steadily support the sound formation of social infrastructure through our water-related engineering. We will continue to explore technologies to realize a carbon-neutral society.







Sludae



04

Treatment



N

000

05

Freatment









We will contribute to a carbon free society by minimizing the energy required for sludge treatment and converting the energy contained in sewage sludge into electricity and coal-alternative fuels.



Concentration

#### **Gravity Belt Thickener**

Stable thickening performance is obtained for all kinds of sludge generated in the water treatment The belt (filter cloth) is made of light and inexpensive resin which maintenance work is easier than metal helt







## 03. Biomass

In addition to sewage sludge, various organic wastes discharged from food and livestock are gasified and converted into fuel. This business is conducive to making effective use of them as energy sources that have been unutilized so far.



Methane fermentation residue recycling

This technology involves carbonizing sludge at low

temperatures and in a wet state (reacting in a

liquid medium), greatly reducing the energy

required for solid fuelization. The main feature is

that the necessary heat source can be provided

solely by the waste heat from generators or similar

devices. \*Currently undergoing demonstration

experiments at the Seibu Wastewater Treatment

**Conversion of fermentation** 

(hydrothermal carbonization)

residue to fuel

Plant in Fuji City

Hydrothermal carbonization facilities

#### Effective use of biomass

#### **Methane fermentation** process

We promote methane fermentation business to treat the local biomass discharged from industries such as food and livestock. Biogas generated in the treatment process is effectively used as renewable energy

#### Effective use of biogas **Biogas refining**,

#### **Biogas power generation** Biogas generated through methane

fermentation is refined into high-purity methane, which is effectively used as a raw material for hydrogen production and as a fuel for natural gas vehicles. We are also developing a power generation business that utilizes biogas



Methane Fermentation Process Facility



Biogas Upgrading System

### 04. Water Treatment

We provide systems and products that help water suppliers solve the challenges that they are facing, such as renovation and renewal of aging facilities, odor and flavor issues, and a shortage of engineers.



#### Pretreatment

#### Harnessing the cleansing action of nature **Biological Contact Filter/ BCF**<sup>™</sup>

BCF™ can remove odor, ammonia nitrogen, surfactants, manganese, and other substances efficiently by utilizing reactions of microorganisms This process features excellent energy efficiency compared to physicochemica processing



#### Sedimentation tank

#### Excellent performance of sedimentation and separation **Wave-Form Tilted Pipe** (V-Wave<sup>™</sup>)

The unique corrugated crosssectional shape provides a high rectification effect and has excellent performance of sedimentation and separation. The V-shaped tube bottom helps smooth discharge of the sludge



### using siphons

A highly reliable gravity type filter with a unique siphon mechanism. Since no large size automatic valves is installed, it is easy to maintain



#### operation (ASF™)





Industrial water treatment facility, pure water production facility

We provide industrial water treatment facility that remove turbidity, iron, and manganese from raw water at high speed, as well as pure water production facility that uses ion exchange membrane separation, etc.





membrane separation

Wastewater treatment

sludge treatment facility

We have a wide range of treatment

technologies for handling industrial

wastewater from various industries

including the organic wastewater

treatment facility PABIO

MOVEB™, which is capable of

high-load treatments

facility,

PABIO MOVEB™ (i.e. carrier)

## 06. Cooling Tower

We are the top cooling tower manufacturer boasting more than 5,000 track records in Japan and overseas delivered across a wide range of industries, including steel, chemicals, and electric power. We meet the needs of customers not only with regard to new construction, but also for upgrading to higher performance cooling towers or repairing aging cooling towers.

#### Industrial Cooling Tower

We can select the optimal cooling tower based on specific requirements such as water volume water quality, temperature conditions, and installation space, from our lineup. We also focus on reducing environmental impact by improving the efficiency of fillers and fans



#### **Cooling Tower for Community** Heating and Cooling

Since cooling towers are often installed on rooftop floors in commercial areas, we offer cooling towers that meet a variety of constraints, such as with regard to anti-white smoke, noise, vibration, space saving, and maintenance



### Filtration Safe and secure filtration

#### **Open Siphon Filter** (OSF™)

#### Filtration Powerless and full automatic **Automatic Siphon Filter**







compliance with each customer's discharge standard

#### Water recycling facility, energy recovery facility

We propose organic wastewater treatment equipment (PANBIC-EC<sup>™</sup>) that can recover biogas and systems that effectively utilize unused wastewater and excess steam



PANBIC-EC

#### Chemicals

Based on our accumulated know-how and experience over the years, we offer an extensive lineup of chemicals, such as high-molecular coagulants, inorganic chemicals, cooling tower agents, and boiler water treatment agents, to satisfy our customers demand









#### **After-sales services**

We provide consultation for regular inspections, repairs and renovations on-site overhauls, specification changes, and updates, regardless of whether the equipment is manufactured by us or other suppliers. We can also help you with planning, including life cycle cost (LCC) evaluations.





## Waste Treatment Business

Turning waste into valuables for the earth.

Offering EPC and O&M solutions of Waste to Energy and recycling plant, we contribute to forming a sustainable society, with reducing negative environmental impacts.



Waste Treatment



Detoxification

## 01. Waste Treatment

Developing environment-friendly waste treatment technology. Our incinerators are advanced in functionality, with being able to reduce environmental impacts.



#### Responding to a wide range of waste **Grate Type Incineration**

The rotary combustor facilitates efficient mixing and agitation of waste. This allows for treating with a wide variety of waste. Heat is efficiently recovered through boiler water pipes constituting the furnace walls. This helps realize highly efficient waste-to-energy system. It is a robust system with less moving parts.



#### Melting

#### Creating Vitrified Material (VM) through high temperature melting Fluidized-Bed Gasification and Melting Furnace

Melting is achieved using the without using fossil fuels. By gasifying waste and reacting it with air. the ash is converted to Vitrified Material (VM) using high temperature melting. This also achieves a high resource recovery rate through the collection of highly recyclable iron, aluminum, VM, etc.

#### Pretreatment equipment

High safety and processing performance

#### Drum can crushing systems

Crush waste sealed in drums After kneading with a mixer, it is pressure-fed to an incinerator using a piston pump. The waste can be processed safely without touching it, and automation of crushing, kneading, and pumping allows for efficient processing speed

### 02. Detoxification of PCB and Dioxin

Polychlorinated biphenyl: a colorless transparent chemical, chemical substance in an oily liquid form. They were used in a variety of applications, such as insulating oil for electrical equipment, but their production is now prohibited due to their adverse effects on the human body. For a long time, there were no effective methods for processing PCBs, but we developed a technology for detoxifying them. We will also continue to work toward eliminating negative legacies for future generations through the design, construction, and maintenance of facilities.

#### Decomposing liquid PCBs Liquid PCB **Decomposition Technology** SP Process

A chemical reaction between sodium and the PCB removes chlorine from the PCB. Liquid PCBs extracted from transformers and capacitors are decomposed and detoxified.

#### equipment surfaces **PCB Wastes Decontamination Technology**

SED process

A technology for removing PCBs adhering to the surfaces of electrical equipment after removing the PCBs. PCBs are removed using solvent washes, vacuum heating and drving process.



#### Incinerator

#### High efficiency power generation is possible Fluidized-Bed Gasification & Combustion

Gasifying waste using fluidized sand. A vertical, compact furnace that burns waste efficiently. High-efficiency power generation with high-temperature, high-pressure boilers, and recovery of metals with high resource values from fluidized bed furnaces, such as high-quality iron and alu nossihla



#### Recycling facility

#### Sorting waste for recycling **Recycling centers**

Systems for crushing, sorting, and recycling bulky waste, non-combustible waste, PET bottles, bottles, cans, etc. In particular, our automatic bottle color sorter can automatically sort glass bottles into colorless. brown, and other colors helping to reduce labor costs

#### **After-sales services**

Leveraging our experience cultivated through the operation and maintenance of numerous facilities, we provide services that minimize life cycle costs and ensure the stable operation, steady performance, and long useful lives of facilities. From inspections to repairs, improvements, and renovations, we provide highly specialized services through our nationwide network in order to meet customer needs





Plant for Toyota PCB Waste Treatment Facility Japan Environmental Storage & Safety Corporation (JESCO)

#### Removing PCBs from electrical

#### Responding to a wide range of pollutants Responding to a wide range of pollutants Plasma melting technology

A wide variety of contaminants with different shapes and properties, such as fluorescent lamp ballasts, other waste with complex shapes, sludge containing PCBs, etc., are decomposed and rendered harmless in high temperature plasma and molten baths.



Our leading edge technology supports high-quality manufacturing.

Engineering and manufacturing of various equipment in broad range of industries, pharmaceutical, fine chemical, petrochemistry, foods etc.. As the top manufacturer of the glass-lining, offering the leading edge technology and products including reactor, agitator, filter/dryer, thin film evaporator etc. Also providing extensive customer service like equipment maintenance.

field



Manufacturing facility for naterial for electronics field, resist material, emitting naterial etc

Pharmaceutical Petrochemical field

Manufacturing facility for aceutical interm and API, agrichemical etc.

Manufacturing facility for commodity and synthetic resins, plastic etc.

Food and Scan and Beveridge field Read More Manufacturing facility for sake, wine, soy source etc

#### **Glass lining technology**

Glass lining is composite material with steel surface coated by special glass. Glass lining has its advantageous characteristics with the function of glass as well as the strength of steel. As the top manufacturer, we always offer the leading edge technology and products



"HybridGL™" is the brand name of our hybrid glass lining. The hybrid glass lining has been developed in 2017 as the world's first one.

#### Agitation technology

Our agitation technology is able to fulfil various customers' needs based on our R&Ds over the years and abundant manufacturing records. We can offer various type of agitators in response to various needs, including mixing, dispersion, heat transfer, etc., depending on the purpose of agitation and the requirements in manufacturing process.



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TWINSTIR™

### Filter/Dryer

Various types of filter/dryers are available, including conical dryer blender, nutsche filter dryer, vertical conical mixer dryer etc.





Conical dryer CDB™ (rotary dryer/mixed type freeze dryer)



Vertical conical mixer SV™ (vertical type mixer dryer)

## New Business

Under the keywords of "decarbonization,""sustainability," and "healthy and comfortable lives," we develop new businesses based on our research achievements and extensive experience. We continue to take on challenges toward realizing an eco-friendly future. We are currently focusing on hydrogen, algae, and wood biomass power generation. We will offer new technologies.

### HHOG <sup>™</sup>

High-purity Hydrogen Oxygen Generator

### Generate CO<sub>2</sub>-free hydrogen using renewable energy

The High-purity Hydrogen Oxygen Generator(HHOG™) directly electrolyzes deionized water and generates high-purity hydrogen gas on-site without using any toxic chemicals. We have a supply track record of more than 230 HHOG™ units as utility generation equipment used in various factories, gaining the top share in Japan.



Developing proprietary functional ingredients for healthy and comfortable lives

Our original strain has been patented in more than 10 countries around the world. Consumption of Golden Euglena™ (paramylon EOD-1) is expected to have a positive effect on the immune, nervous, and endocrine systems via the intestines and help maintain and improve homeostasis, which is the foundation of health



#### Contributing to preserving the global environment through renewable energy

Wood biomass power generation is carbon neutral, contributing to CO<sub>2</sub> reductions and curbing global warming. By using thinned wood as fuel, we contribute to the development and maintenance of forests as a whole.







#### Golden Euglena<sup>™</sup> (EOD-1 strain)

Paramylon-rich Euglena EOD-1 supports healthy lives as a health food. Our track record of blending it in foods and supplements continues to expand.



#### litate Mirai Power Plant

Currently under construction in the Warabidaira ward of litate Village, Soma, Fukushima Prefecture. Operations are expected to begin around August 2024.

## Technology Development

People live comfortably and the rich natural environment is protected.

Aiming for such future, we are developing unique new products and services using our cutting-edge technologies. Furthermore, to meet more complex needs, we carry out joint research programs with customers, experiments in full-scale plants and pilot plants, etc. We enjoy many fruitful results through these activities.

#### TOPICS 01

The Japanese first demonstration project for waste plastics gasification to methanol is currently underway.

Residual waste plastics containing diverse impurities and materials are difficult to recycle so that they have been generally incinerated with or without thermal recovery, or placed in landfills. To achieve a sustainable circular and carbon neutral economy, chemical recycling of residual plastics is one of the solutions. The demonstration project for residual waste plastics gasification using a fluidized bed gasifier, which is one of our core technologies, is underway. One of the objectives of this project is to demonstrate the generation of syngas suitable for methanol synthesis.



combustibles (metals and debris)



#### TOPICS 02

Launched "ACT(Accerelated Carbonation Technology)" that makes APCr(Air Pollution Control residue) react with and immobilize CO<sub>2</sub> in exhaust gas.

The carbonation technology for APCr has been adopted in the Fukui City Waste Treatment Facility Development and O&M Project.

Technology for reducing CO<sub>2</sub> emissions through carbon capture and utilization/storage (CCUS) is attracting attention aiming at carbon neutrality by 2050. We are focused on the carbonation reaction, which involves the absorption and immobilization of CO<sub>2</sub> by fly ashes, and more specifically the property wherein heavy metals are adsorbed into the fly ashes and become insoluble. Through this, we have developed the accelerated carbonation technology (hereinafter abbreviated as ACT) that allows the fly ashes generated in municipal waste incineration facilities to react with and immobilize CO2 generated in those same facilities. The ACT has been adopted in a commercial project in favor of full-scale demonstration tests which proved (1) to accelerate CO<sub>2</sub> utilization and (2) to reduce the consumption of chemicals for heavy metal stabilization, and construction of a plant is underway. We are working on deploying this technology to diverse waste feedstocks which can be carbonized by utilizing the demonstration plant.



The demonstration plant enables full scale trials using diverse samples provided from clients. (\*)O.C.O Technology Ltd.

### PHILOSOPHY

**Corporate Philosophy** 

### **Keep the Earth Sky-blue** Slogan



### Core Values of KOBELCO

- 1 We provide technologies, products and services that win the trust and confidence of our customers we serve and the society in which we live.
- on an individual basis, while creating a cooperative and harmonious environment.
- 3 Through continuous and innovative changes, we create new values for the society of which we are a member.

Details of Core Values of **KOBELCO & Six Pledges** of KOBELCO



### Six Pledges of KOBELCO

1 Uphold the Highest Sense of Ethics and Professionalism

- 2 Contribute to the Society by Providing Superior
- Products and Services Quality Charter
- 2 We value, and support the growth of, each employee 3 Establish a Comfortable but Challenging Work Environment
  - 4 Live in Harmony with the Local Community
  - 5 Contribute to a Sustainable Environment
  - 6 Respect Each Stakeholder



The KOBELCO Group will comply with all laws, public standards, and customer specifications, and make continuous efforts to improve quality with the goal of providing Trusted Quality in our products and services.

#### **Corporate Profile**

Company Name Head Office Capital Licenses and certificates	Kobelco Eco-Solutions Co., Ltd. 4-78, 1-chome, Wakinohama-cho, Chuo-ku, Kobe 651-0072 Japan ¥6,020 million Minister's construction business license by the Ministry of Land, Infrastructure and Transport (Civil work business, building work business, electric work business, piping work business, machinery installation business, telecommunications business, water service engineering business, cleaning facility installation business, demolition business), first-class architect office registration, environmental measurement proof office registration	Office information
	<ul> <li>●ASME code "U stamp" ●ISO 9001 certification ●ISO 14001 Approved ●ISO55001-certified</li> <li>(For the organization name and scope of registration, please refer to the certificate of registration and</li> </ul>	
Affiliated Companies	annex to certificate on the Our Company website.) Kobelco Eco-Maintenance Co., Ltd. / E.R.C. Takajo Co., Ltd. / Toyota Environment Services Co., Ltd. Fukui Green Power Co., Ltd. / MICAREA Co., Ltd.	

GREETING

Message from President

#### We will contribute to creating a livable environment and a healthy life through our innovative thinking.

The COP28 (Conference of Parties) was held at the end of 2023 against the backdrop of climate change and global warming over the past years, and the Member States agreed on a "transition away from fossil fuels," and this trend toward decarbonization will accelerate from this time forward. Needs for further energy saving and energy creation as well as carbon neutrality have been growing significantly in our business fields including not only the water/wastewater and waste treatment businesses, but also the supply of cooling towers for local comminities' heating and cooling, and the pharmaceutical and fine chemical equipment business for fine chemicals and semiconductor manufacturing. We consider the trend of the times as our huge business opportunities.

Under these circumstances, we, Kobelco Eco-Solutions Group, set our goal for future business to become a company leading the way in carbon neutrality in the three-year FY2024-2026 medium-term business plan and will make every endeavor to achieve the goal. To this end, we will enhance the competitiveness of our existing businesses and acquire carbon neutral technologies to establish a solid business ground in the coming three years.

As for the existing businesses, we will further strengthen competitiveness by such activities as: establishing and systematizing the core technologies including decarbonization, honing our craftspersonship for manufacturing capability ("monozukuri"), and labor-force saving through digital transformation. To achieve a hydrogen energy-based society, we will broaden the product lineup of high-purity hydrogen oxygen generators (HHOG<sup>™</sup>). We will also definitely develop and launch further sophisticated products contributing to carbon neutrality and provide new products and services that meet customer and social needs by developing and acquiring new technology.

Our corporate vision is "To Support a future society that lives in harmony with the earth." In order to achieve this vision, we will contribute to achieving the SDGs through our businesses and to creating a healthy environment and lifestyles through our innovative thinking.

April, 2024

President. Representative Director, Mikio Sato



### HISTORY



#### Company History

Nov. 1946	Our company started out as Glass-lined Product Department of
	Kobe Steel, Ltd. when a Glass-lined Plant was constructed on
	the premises of the Kobe Steel Yamanote Plant. Manufacturing
	of glass-lined product and sales for export were commenced
	from the following year.
Jun. 1954	Kobe Steel, Ltd. made a technical tie-up with a US company
	Praudier, and spun off the Glass-lined Product Department and
	Incorporated it as an independent company named "Sninko
	Kebe Steel and Dfoudler
D 1057	Kobe Steel and Plaudier. Shinke Dfeudler broke into water treatment equipment
Dec.1957	
Mor. 1060	Shinka Pfaudler broke into cooling tower business
Mar. 1962	Shinko Plaudler broke into cooling tower business.
NOV. 1962	treatment equipment business
Jul 1076	Harima Factory was completed and commenced its operation
Aug 1079	(Kohe Steel)
Aug. 1976	First sewage sludge incineration plant was delivered
Mar 1082	(Kohe Steel)
Mai. 1302	First municipal waste incineration plant was delivered
Oct 1989	Shinko Pfaudler Co. I to was renamed to Shinko Pantec
001. 1909	Co Ltd
Apr 1992	All manufacturing functions were put together into the Harima
Apr. 1002	Factory which then changed its name to Harima Manufacturing
	Plant Technology Laboratory was set up in the Kobe Hightech
	Park (Nishi Ward Kobe City)
Aug. 1004	Shinko Panter was listed in the Second Section on the Osaka
Aug. 1994	Securities Exchange (Current Tokyo Stock Exchange)
lon 1000	Shinko Pantec broke into PCB treatment husiness
Jan. 1999	Environment Analysis Center was set up, and started analytical
Арг. 1999	services for specified chemical substances and microchemical
	substances
E-6 0001	Now boodquarters was completed
Feb. 2001	The opvironmontal business unit of Kobo Stool 1 to was
Uci. 2003	consolidated into Shinko Pontoo Co. Ltd. which was renamed
	to Koholoo Eco Solutione Co., Ltd
D 0005	Weste Monogement Finel Dispagel Site started its husiness
Dec. 2005	Waste Management Final Disposal Site staned its business.
NOV. 2006	"his assification facilities" for refining bioges from sources
	bio-gasilication facilities for relining biogas from sewage
	Sludge with a high methane concentration.
Apr. 2008	for supplying bigges storted its operation
	Vietnem Office was enabled its operation.
Apr. 2009	vietnam Onice was opened. (Ho Chi winn city)
Oct. 2010	injection of blogas from sewage into utility gas pipelines started
	at the Higashi-Nada Plant in Kobe City. (first case in Japan)
Nov. 2010	Overseas amiliate, KOBELCO ECO-SOLUTIONS VIETNAM
	CO., LID. was established in Ho Chi Minn City, vietnam.
Jul. 2013	Kobelco Eco-Solutions was listed on the second section of
	Tokyo Stock Exchange.
Jul. 2013	Vietnam overseas affiliate opened a Hanoi branch office.
Oct. 2013	Vietnam overseas affiliate set up a factory for manufacturing
	glass-lined process equipment.
Oct. 2014	Maintenance business was acquired from Kobelco Eco-Mainte-
	nance Co.,Ltd.
Oct. 2015	Opened an office in Cambodia. (Phnom Penh city)
Nov. 2015	"Notification of Commencement of Business" was filed in regard
	to production and sale of Euglena. (food ingredient)
Apr. 2016	Wood biomass power generation plant started its operation at
	Ono City, Fukui Prefecture.
Jan. 2017	Sales of Kobe Euglena started.
Jul. 2018	MICAREA Co., Ltd. was established. (at Kobelco Eco-Solutions
	Head Office)
Jun. 2019	The waste treatment facility business unit of IHI Enviro
	Corporation was merged into Kobelco Eco-Solutions Co., Ltd.
Sep. 2019	Opened an office in the UK. (London)
Oct. 2021	Kobelco Eco-Solutions Co., Ltd. was delisted from the second
	section of Tokyo Stock Exchange through the share exchange
	with Kobe Steel, Ltd.
Nov. 2021	Kobelco Eco-Solutions Co., Ltd. became a wholly owned
	subsidiary of Kobe Steel, Ltd.



### Keep the Earth Sky-blue KOBELCO ECO-SOLUTIONS CO., LTD.

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