

E-world
energy & water 2026

TOKYO Pavilion

Messe Essen HALL 5 5H108



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Feb.10(Tue)-12(Thu)
9:00am to 6:00pm*

*Closes at 5:00 pm on final day

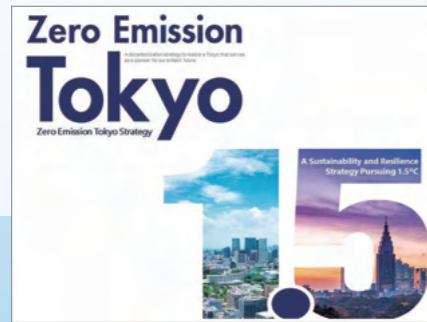
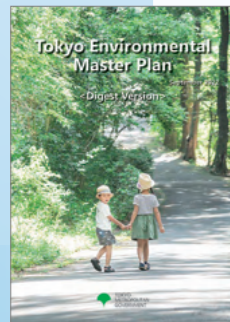
TOKYO Pavilion

Messe Essen **HALL 5 5H108**

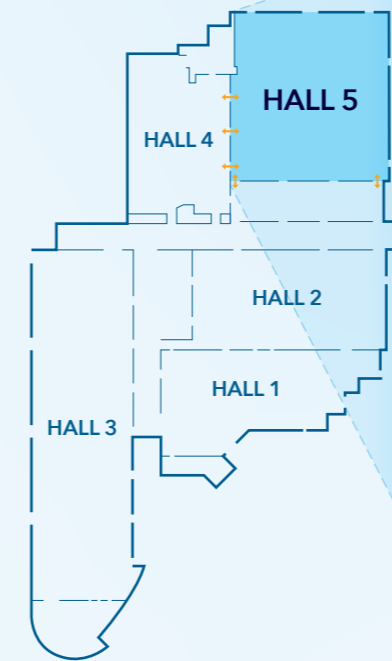
Tokyo, the capital of Japan, sets a goal to become a green and resilient global city creating a sustainable future that is safe, secure, and welcoming.

As such, Tokyo is host to many outstanding products and advanced technologies in the environment and energy sectors. This exhibit is presented by 10 Tokyo-based SMEs who are industry leaders in these sectors in Japan.

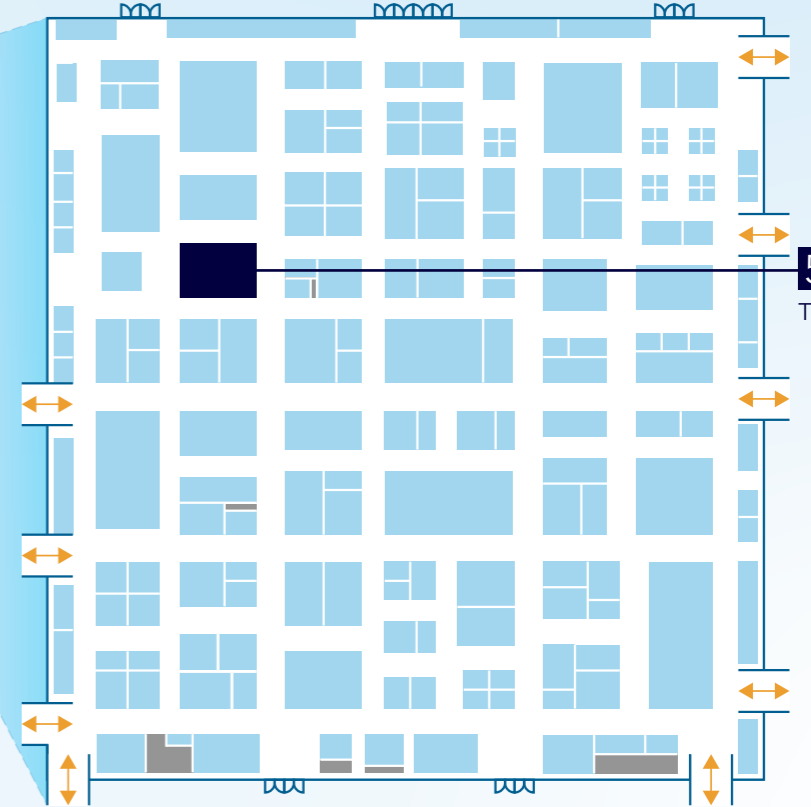
Explore the technologies and products displayed in the Tokyo Pavilion to experience their true capabilities, and take this opportunity to consider collaborating with the Tokyo SMEs.



E-world 2026 Floor Map



HALL 5



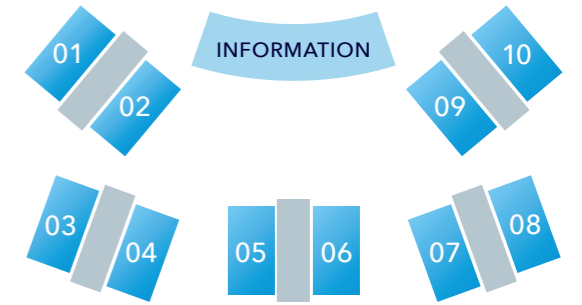
5H108
Tokyo Pavilion

↔ CROSSOVER *Maps shown are intended as a rough guide only.



TOKYO Pavilion Exhibitors

TOKYO Pavillion BOOTH MAP



01

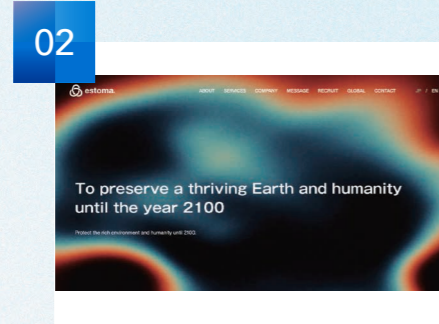
AGAT CO., LTD.

Products on show

T-SENSOR TK-2000J
Temperature, images, and thickness inside the duct can be measured remotely.

Specialist sectors

Sales Development
In-Duct Remote Monitoring System



02

estoma Co., Ltd.

Products on show

We have four functions to promote corporate ESG activities:
1. Rating agency support
2. Questionnaire support
3. Environmental database
4. Supplier survey

Specialist sectors

Environmental Systems/
Environmental Solutions



03

Fuji Graphite Works Co., Ltd.

Products on show

Snow Melting and Freeze Protecting Pavement with Synthetic Graphite

Specialist sectors

Import/ Export/ Manufacturing/ Sales/ R&D of Graphite and Carbon Products



04

Helvetia INC.

Products on show

- Nessum Adaptor VPLC-4000
- Nessum Control Module VPLC-CORE400

Specialist sectors

Nessum is capable of long-distance wired and short-distance wireless communications over a variety of wired and wireless communication media.



05

Liberaware. Co., LTD.

Products on show

IBIS2 is a compact indoor inspection drone that improves safety and efficiency in confined spaces, powered by digital-twin insights.

Specialist sectors

Indoor drone inspection, measurement, and digital twin solutions for infrastructure and plant maintenance DX



06

PicoCELA Inc.

Products on show

Enterprise-grade stable and high-performance wireless mesh Wi-Fi Access Points

Specialist sectors

Enterprise/Wi-Fi Access Points/IoT/Video Surveillance/ Robotics/Temporary Communication Systems for Turnarounds



07

TSUZUKI CO., LTD.

Products on show

JAPAN MADE Non-Firing Interior Wall Panel is made with Wakkanai diatomaceous shale.

Specialist sectors

Interior material, and interior accessory



08

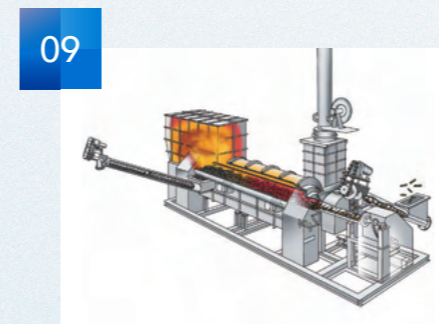
SYSTEM BRAIN CORPORATION

Products on show

NANO-MAINTENANCE

Specialist sectors

Glass coating for buildings, PV arrays



09

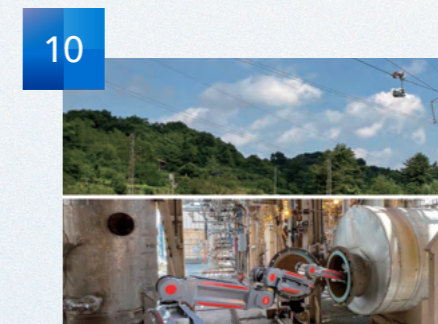
ZE ENERGY INC.

Products on show

"Carbonization Equipment" that turns waste into resources. Equipment that converts organic waste into charcoal through indirect heating. The produced charcoal serves as a coal substitute fuel, for soil improvement, water quality enhancement, and as biochar to generate carbon credits.

Specialist sectors

GX, Renewable Energy, Waste Recycling
Carbonization technology for converting waste into resources, medium-scale biomass gasification power generation technology



10

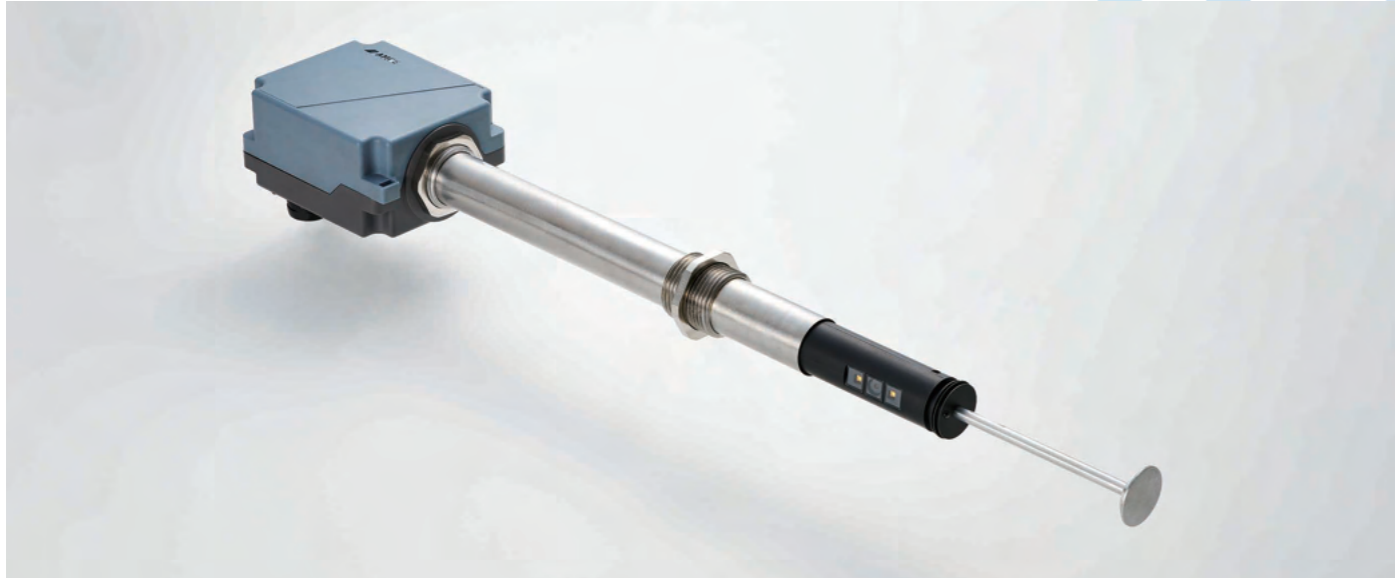
hibot corporation

Products on show

Float Arm is lightweight, fast, and portable for field integration or stand-alone checks. Expliner-T works on live high-voltage lines to install fittings without shutdown.

Specialist sectors

Robotics X AI / Infrastructure
Inspection and Maintenance



World's First In-Duct Remote Monitoring System T-SENSOR

Discover the Future of Duct Inspection
– Simple, Smart, and Accessible for Everyone

Our company, based in Tokyo, Japan, has developed a next-generation duct monitoring system that makes inspection safer, faster, and easy for anyone. Traditionally, duct inspection requires hiring contractors or performing risky self-checks at high locations—methods that involve high costs and safety concerns.

With our system, you can inspect ducts easily on your own, without relying on professional contractors. Installation is simple: create an opening, attach the adapter, and mount the sensor. No technical skills are required, and anyone can start immediately.

The device continuously monitors the inside of your ducts and sends real-time data and alerts to a dedicated smartphone app. Abnormal heat and temperature changes are detected early, helping prevent potential fire hazards.

As a one-time purchase with no recurring running costs, the system is highly cost-efficient and easy to implement, making it an ideal choice for any facility looking to improve safety and maintenance efficiency.



Company profile



Representative
Toshiyuki TAGA



Website

<https://www.amos-corp.co.jp/en>

A manufacturer that developed the world's first in-duct remote monitoring system. Our technology enables continuous monitoring and improved ventilation efficiency. Developed by Agata Co., Ltd. / Distributed by ARMOS.

Target companies

- Construction and equipment company
- HVAC design and construction company
- Building Management Company
- Public institutions
- Government agencies

Target end users

- Construction and equipment company
- HVAC design and construction company
- Building Management Company
- Public institutions
- Government agencies



ESG Information Integrated Management Cloud

At Estoma, we specialize in ESG integrated management, helping businesses embed environmental, social, and governance principles into their core operations. Our mission is to accelerate the transition toward a more sustainable and resilient global economy.

The Reality We Face

Today, we live in an era of unmatched prosperity—surrounded by more goods and services than at any point in history. Our lives are improving day by day. Yet, this progress comes with a hidden cost: climate change, water scarcity, and other mounting ecological crises.

Since the pre-industrial era, global temperatures have risen by 1.45°C, leaving just 0.05°C before surpassing the 1.5°C limit crucial to preventing further environmental catastrophe. If left unchecked, this trend risks pushing humanity and countless other species to the brink of extinction.

Our Commitment to the Future

Estoma exists to empower businesses worldwide to integrate sustainability and responsible practices into their strategies. By aligning corporate activity with planetary boundaries, we strive to halt environmental degradation and contribute to a livable future.

Through ESG-driven action and innovation, we are building not just a sustainable future—but a survival strategy for humanity and the ecosystems we depend on.



Company profile



Representative
Yotaro SAWAKI



Website

<https://estoma.co.jp/en/home>

Development and operation of the ESG information integrated management cloud "estoma®".

Providing sustainability human resource development programs.

Target companies

- Manufacturing industry
- Resource
- Chemistry
- Electric machine
- Environmental consulting

Target end users

- Large company
- A company that is sensitive to the environment
- A company that carries out environmental work with a small number of staff
- A company with a strong sense of secularism



Fuji Graphite Works Co., Ltd.

03



Snow Melting and Freeze Protecting Pavement Concrete

Fuji Graphite Works' synthetic graphite, which has high electrical conductivity, excellent lubricity and heat resistance, and is used for sliding parts such as carbon brushes, electrodes for electric furnaces for steel, conductive materials for batteries, and friction materials such as brake pads helps concrete to improve thermal conductivity over 40%. You can expect not only melt snow, but also prevent from accumulating snow and freezing. By utilizing this technology on homes and public facilities, it makes possible to melt snow before it accumulates, reducing the risk of freezing and the labor required for snow removal during snowfall. This product is economical friendly since synthetic graphite is made of recycled material by lot-out products of electrode, processed powder and used electrodes.



Company profile



Representative
Izumi ARUGA



Website

<https://www.fujikokuen.co.jp/en>

We are only one graphite manufacturer in East Japan with over 70 years (ISO 9001 Certificated). We always welcome to help you with anything related to carbon / graphite materials.

Target companies

- Public works contractor
- Paving contractor
- Government agencies

Target end users

- Construction manufacturer
- Concrete contractor
- House/ Construction material manufacturer
- Electronic material manufacturer
- Road reforming company



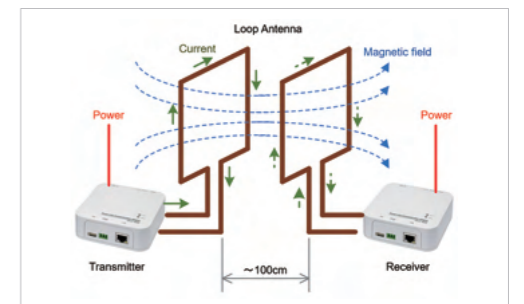
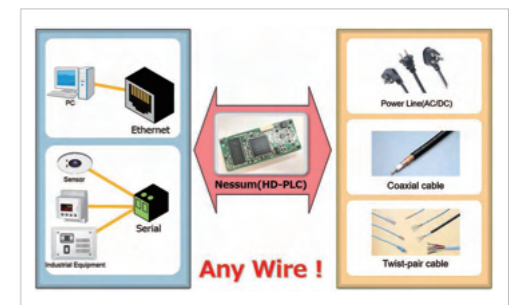
Helvetia INC.

04



Nessum WIRE Nessum AIR

We offer a wide range of solutions based on our extensive experience in the development and design of embedded systems for electronic devices. Using that experience, we provide total support for various Nessum products in the BPL market, from consultation to product development, customization, and verification.



Company profile



Representative
Katsushi MORI



Website

<https://helvetia.co.jp/en/>

We are an OEM/ODM developer of IoT systems. We also develop, sell, consult, and customize power line carrier communication devices (Nessum).

Target companies

- Smartmeter maker
- Electric power company
- Solar power generation control solution development maker
- Smart home product developer
- IoT system development designer

Target end users

- Smartmeter maker
- Companies that do business with power manufacturers
- Solar power generation control solution development maker
- IoT system development designer
- Network equipment distributor

05



Industrial Indoor Micro Drone “IBIS2”

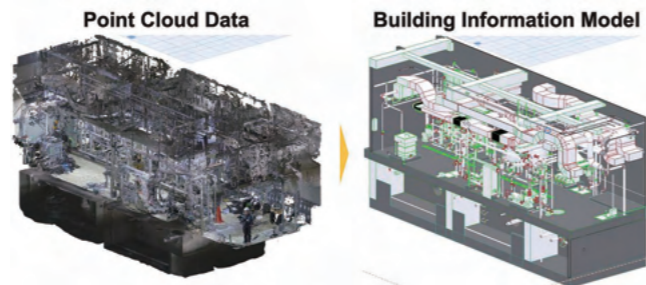
IBIS2 and LAPIS: Transforming Industrial Safety through Innovation

IBIS2 is an ultra-compact indoor inspection drone developed by Liberaware, designed to operate safely and precisely in confined, GPS-denied, and hazardous environments where human access is extremely difficult. It became the world’s first drone to successfully enter inside the Fukushima Daiichi Nuclear Power Plant, capturing vital visual data from areas unreachable by humans or conventional robots. In addition, IBIS2 was also the first drone ever deployed to document the scene of a road cave-in accident in Japan, contributing to rapid situation assessment and ensuring the safety of on-site workers. With a flight time optimized for stability in narrow spaces and high-resolution imaging capabilities, IBIS2 has been widely used in steel plants, power facilities, sewers, and tunnels across Japan.

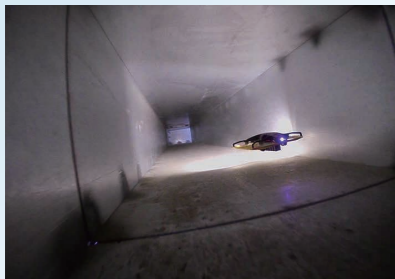
Complementing this hardware, Liberaware’s LAPIS platform transforms collected data into high-precision digital twins, enabling remote monitoring, condition-based maintenance, and predictive analytics.

LAPIS empowers asset owners to visualize inaccessible environments, quantify degradation, and make data-driven maintenance decisions with unprecedented accuracy.

Together, IBIS2 and LAPIS redefine industrial inspection, combining Japanese engineering excellence with cutting-edge digital transformation technology to create safer, smarter, and more sustainable infrastructure management worldwide.



Company profile



Representative
Yurika ISHIKAWA



Website
<https://liberaware.co.jp/>

Driving digital transformation in hazardous and confined-space maintenance with Japan’s indoor inspection drones and digital twin technology—redefining safety and operational excellence in industrial sites.

Target companies

- Water and Sewer Utility Owners
- Power Companies
- Steel Manufacturers
- Plant and Factory Owners
- Railway Companies

Target end users

- Professionals seeking to safely digitalize maintenance in hazardous or confined spaces
- Executives and DX leaders aiming to enhance asset management through digital twin adoption

06



PCWL-0500 Series Enterprise-Grade Multi-hop Mesh Wi-Fi Access Points

PicoCELA PCWL-0500 and PCWL-0510 are best-in-class products for establishing extensive Wi-Fi coverage across both indoor and outdoor wide-area environments. These solutions are utilized across diverse industrial sectors, including power plants, factories, mines, construction sites, warehouses, and disaster recovery sites. This capability is realized through PicoCELA’s patented mesh technology, which enables Wi-Fi area construction with minimal physical cabling. Traditionally, covering wide areas with Wi-Fi is cost-prohibitive due to the extensive length of necessary LAN wiring. PicoCELA effectively eliminates this hurdle, capable of reducing LAN cabling by over 90% compared to competitor products. This advantage has allowed us to successfully deploy Wi-Fi in vast outdoor spaces such as steel mills and ski resorts. The PCWL-0510 model is built for durability in extreme conditions, being certified IP67-compliant and capable of operating reliably in temperatures ranging from -30°C to 60°C, which ensures superior dust and water resistance and rugged operation. Due to its stable operation in harsh environments where standard access points cannot function, the PCWL-0510 is highly valued across all industrial fields.



Company profile



Representative
Atsushi KONDO



Website
<https://picocela.com/en/>

PicoCELA Inc. provides enterprise wireless mesh products and solutions utilizing its patented technology, the PicoCELA Backhaul Engine (PBE). We also provide PicoManager®, a cloud management system capable of managing, monitoring, and diagnosing the network.

Target companies

- Power Plant, Chemical Plant,
- Miner, Steel Mill
- Construction and Civil engineering
- Local Government
- Smart City

Target end users

- Digitalization by IoT, cameras, and robotics
- Temporary Communication Systems for Turnarounds
- Satellite Communication Integration for Disaster Recovery
- System Integrator related to above fields
- IT Distributor related to above fields



Wakkanai Diatomite Panel "圭 KEI" / Art Panel "A-rto K"

The Non-Firing Interior Wall Panel is made with Wakkanai diatomaceous shale. "圭 KEI," expresses the strength and blessings of the earth by layering two layers of Japanese Kanji character "SOIL(土)". All materials are natural and from Japan.

KEI is retaining the natural beauty of materials while providing numerous functions such as humidity control and deodorization. It also reduces CO2 emissions during the manufacturing process and is reusable.

If it is not acceptable to install the wall, you have another choice: the Art Panel "A-rto K". "A-rto K" is sublimated form KEI, and it is Functional ART not only artistic piece. It uses the same materials as "KEI" and environmentally friendly materials for coloring.



Company profile



Representative
Fumiharu TAKAMOTO



Website
<https://www.tuzuki.co.jp/kei>

Since 1970, We have created wellness and comfortable lives by leveraging our know-how in aluminum building materials and exterior insulation system in Japan, as well as Wakkanai diatomaceous shale panels made from natural materials.

Target companies

- Buliding material company
- Buliding construction company (Especially interior)
- Company owner
- Architecture/Design company (Especially interior)
- Interior goods sales company

Target end users

- Buliding material company
- Buliding construction company (Especially interior)
- Company owner
- Architecture/Design company (Especially interior)
- Interior goods sales company

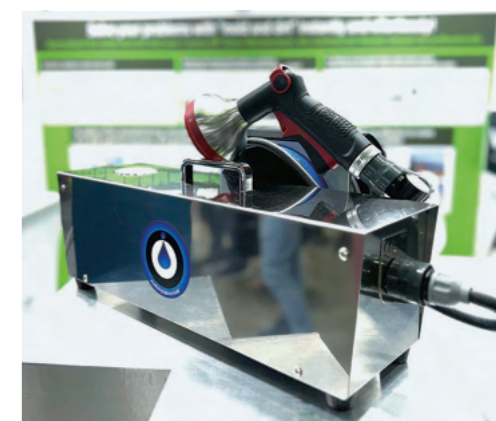


NANO-MAINTENANCE

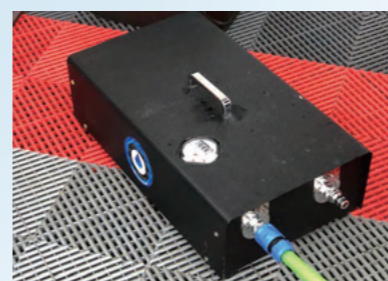
In the glass coating generator, the new-generation ceramics come into contact with water, and molecules of a substance called SiO₂ (silicon dioxide) begin to dissolve into the water through an electrochemical reaction from the surface. The dissolved SiO₂ adheres to the construction object and forms three layers (nanoglass layers). Unlike conventional glass coatings that use chemicals, our glass coating uses only water and inorganic natural minerals, so the wastewater can be washed away after application.

<Nano Maintenance> We have developed a cleaning solution that mainly contains mold, such as buildings, buildings, solar panels, etc., and has the characteristic of eradicating the cause of mold by killing the sclerotia of mold. In March 2016, we received an order from the Ministry of the Environment for this method of glass coating and protection after cleaning as the nano-maintenance SB method.

<Nanoshine> Our technology for coating moving objects such as cars, trains, buses, and taxis enables quick and easy construction that is unparalleled in the construction methods of other companies.



Company profile



Representative
Tomokazu KANDA



Website
<https://systembrain.cc/english/>

A unique coating technology that does not use any chemicals and simply uses only water and composite ceramics to form a vitreous shielding film on the object!

Target companies

- Vonovia SE
- Deutsche Bahn AG
- Siemens AG
- Robert Bosch GmbH
- Hanwha Q CELLS Co., Ltd
- Mercedes-Benz AG / Bayerische Motoren Werke AG / Volkswagen / Audi AG / Dr. Ing. h.c. F. Porsche AG

Target end users

- Real estate related
- Building management company
- Transportation infrastructure related
- Internal/external contractor
- Car dealer relationship



Carbonization Technology for Converting Waste into Resources

- Expanding “Carbonization Centers” in the EU to produce biomass coke and biomass carbon as coal substitute fuels
- Generating carbon credits through biochar utilization

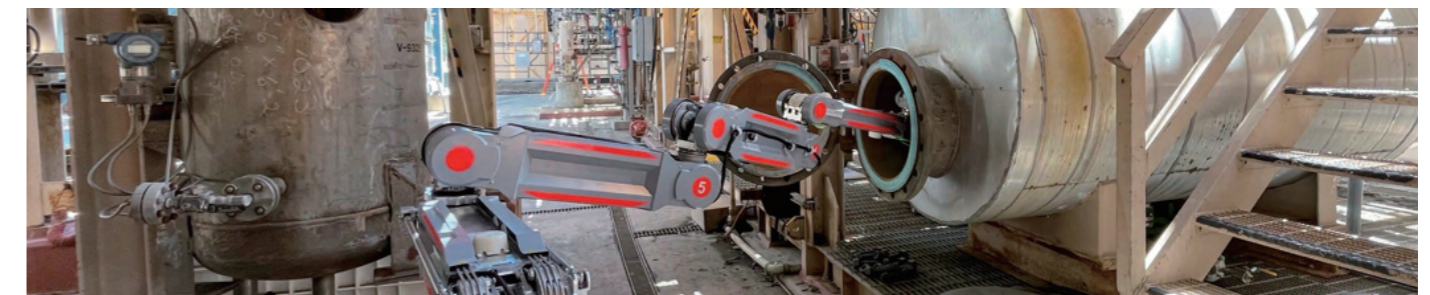
ZE Energy is a pioneer in Japan's carbonization equipment industry and the only Japanese manufacturer of carbonization equipment with CE Mark certification.

We carbonize thinned timber, unused wood, construction waste, and agricultural residues from mountainous and hilly areas to produce biomass coke and biomass carbon as alternative fuels to coal. We possess the technology to manufacture biomass carbon and biomass coke with carbon content rates of 80% to 90% or higher. Applications include co-firing with coal in blast furnaces, replacing coke in blast furnaces and cupolas, and fuel use in electric arc furnaces.

For biochar, we possess safe, low-cost dedicated equipment. In Asia, we carbonize large volumes of biomass waste, returning it to farmland as biochar to sequester carbon and generate carbon credits.

For biomass gasification power generation, we specialize in the optimal 500kW generation size for local energy development in mountainous and rural areas, making us the only manufacturer of gasification power generation units ranging from 180kW to 2,000kW. We generate power using woody biomass like construction waste and thinned timber, as well as waste such as food scraps and food processing residues.

We also provide optimal implementation proposals tailored to the industry and facility environment of product companies and various organizations. With numerous overseas delivery records, the ZEBIO-C1200Type is transported in 13 40-foot containers and features a flange-coupling design for easy on-site assembly.



Robotics x AI for safer, cleaner, and more efficient critical infrastructure management

The Float Arm enables inspections and maintenance in elevated or confined industrial areas without scaffolding, reducing downtime and human exposure.

Expliner-T operates directly on energized high-voltage lines, allowing the installation of fittings such as warning spheres and armour rods without stopping power, greatly improving safety and continuity of service.

Integrated with our HiBox digital platform, all operational data is captured and analyzed to optimize planning, extend asset life, and minimize environmental impact.

Together, these technologies accelerate a more sustainable and safer world.



Company profile



Representative
Kohei MATSUSHITA



Website
<https://ze-energy.net/en/>

Manufacture and sale of carbonization equipment and semi-carbonization equipment that thermally decomposes biomass waste while simultaneously reducing carbon dioxide emissions and producing charcoal, as well as biomass power generation equipment. CE Mark certified.

Target companies

- Companies selling coal coke and fuel trading companies
- Carbon credit sales companies
- Battery manufacturers (using carbon materials in batteries)
- Apparel manufacturers and textile trading companies (where EU bans on used clothing disposal exist, providing textile carbon materials as battery components)
- Local governments and companies interested in operating carbonization center

Target end users

- Cast iron foundries currently using coal coke
- Carbon credit purchasers
- Battery storage users
- Apparel manufacturers
- Local governments and regional businesses (forestry, demolition, waste management operators)

Company profile



Representative
Miki CHIBA



Website
<https://hibot.co.jp/>

Hibot, a venture from the Tokyo Institute of Technology, has as its mission to create a safer and sustainable world with robotics.

Target companies

- Transmission Service Operators and related
- Chemical, Oil and Gas
- Energy transition related companies
- Public infrastructure maintenance groups
- Service providers for Testing Inspection and Certification

Target end users

- Companies managing infrastructures such as plant for their production (not only limited to oil/gas/chemical but anything in energy but also food, cosmetics)
- Companies offering services for inspection and maintenance
- Companies producing and transmitting energy