



# 第14回 川崎国際 環境技術展

## Guidebook

### Guide Book

※画面イメージは開発中のものを含みます

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# 1. Overview

## Introduction

Thank you for registering for the [The 14th Kawasaki International Eco-Tech Fair ~Online~]. This exhibition is entirely online and this guide will show you how to enter and view each program. Please access the official page of this exhibition (<https://www.kawasaki-eco-tech.jp/english/>) and enter the online venue. To enter, you will need the ID and password that was sent to you when you registered as a visitor. To participate in the exhibition, you must have agreed to the "Handling of Personal Information". Please note that recording or copying of the program you are watching is strictly prohibited.

## Event Overview

Title: **The 14<sup>th</sup> Kawasaki International Eco-Tech Fair ~Online~**

Theme: **The New Face of Kawasaki Designed by Carbon Neutrality**

Kawasaki International Eco-Tech Fair is an international exhibition that showcases a wide range of cutting-edge solve global environmental problems. The exhibition will also provide a venue for business matching between exhibiting companies and organizations and domestic and overseas companies.

Schedule: November 16<sup>th</sup> (Tue.) ~ 26<sup>th</sup> (Fri.), 2021 (Archive streaming: until December 31<sup>st</sup>)

\*Archived data will only be viewable for streaming for those who are registered as business registrants.

Venue Size: 127 booths (as of November 16<sup>th</sup>)

Organizer: Committee Members

Kawasaki City, Ministry of Economy, Trade, and Industry (METI)

New Energy and Industrial Technology Development Organization (NEDO), Japan External Trade Organization (JETRO), National

Institute of Advanced Industrial Science and Technology (AIST), Japan International Cooperation Agency (JICA), Organization for Small

& Medium Enterprises and Regional Innovation, JAPAN (SME Support, Japan), Environmental Restoration and Conservation Agency

(ERCA), Keio University, Meiji University, Senshu University, United Nations Industrial Development Organization (UNIDO), Kanagawa

Institute of Industrial Science and Technology (KISTEC), Liaison Center for Creation of Industry & Environment (LCIE), Japan

Environmental Sanitation Center (JESC), Kawasaki Center for Climate Change Actions (KWCCCA), The Kawasaki Chamber of Commerce

and Industry, Kawasaki Industrial Organization Union Meeting, Kawasaki Industrial Promotion Club, Institute of Industrial Promotion

Kawasaki

## 2. Recommended Environment

	Device/Browser	Recommended Environment/ Remarks
Device	Desktop PC, Laptop (Windows)	Window 10
	Desktop PC, Laptop (iOS)	iOS14 or later Depending on the settings there is a chance that the business meeting function may not run smoothly.
	iPad, iPhone *Please use an iPhone 8 or later	iOS14 or later Depending on the settings there is a chance that the business meeting function may not run smoothly.
	Smartphone (Android Version10) Tablet (Android Version10)	If you do not have enough memory storage space, there is a chance that the business meeting function may not run smoothly.
Browser	Google Chrome MicrosoftEdge FireFox  *If you don't know your browser version, please update it to the newest version before use.	Version 80 and above
	Internet Explorer	Not Supported
	Safari	Version14 or later If you do not have enough memory storage space, there is a chance that the business meeting function may not run smoothly.

# 3. How to Enter the Online Exhibition

## Accessing Flow

### Kasawaki International Eco-Tech Fair Home page

Access the technology exhibition top page from the URL below

Click the button on the online venue

URL: <https://www.kawasaki-eco-tech.jp/english/>



### For those who have an ID and Password

Enter your ID and password, agree to the privacy policy to continue\_



### For those WITHOUT an ID and password

Please register first to get your own login ID and PW



# 4. Entrance to the Online Exhibition



Today's recommendations will periodically display the exhibitor's logo. Click to go to the corresponding page.

## ① Exhibition Hall

You can view Exhibition booths.



## ② Presentation Hall

Presentations and Seminars can be viewed.

*\*Japanese page only*



## ③ Business Meeting Room

*\*Only for business registrants*

Business meetings are held online on Zoom.

*\*Japanese page only*



## ④ Organizer Page

You can see greetings from related parties and introduction of related measures.

*\*Japanese page only*



## ⑤ Sponsor Logos

Click the logo of the sponsoring company to see an overview of the company.

## ⑥ Exhibitor List

To check the exhibitor list.

## ⑦ Presenter List

To check the presenter list.

*\*Japanese page only*

## ⑧ Visitor's MyPage

You can check the history of your viewed videos and liked exhibition booths.

*\*Only for business registrants*

*\*Japanese page only*

## ⑨ Concierge

If you wish to have a business talk with the exhibitor, the concierge will arrange the business talk with the exhibitor.

*\*Japanese page only*

## ⑩ Guidebook

You can view the Guidebook for the exhibition.

## ⑪ Logout

Logout from here.

# 5. Information on the Exhibition Hall

## How to access the exhibition booths

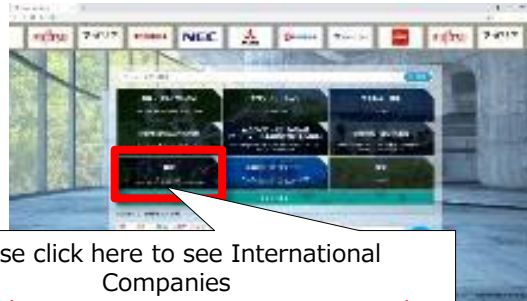
### ① Top Page

Click "Exhibition Hall" on the top page to move to the Exhibition Category Page.



### ② Exhibition Categories

The categories are displayed on the exhibition hall page. Click a category to move to the exhibitor list.

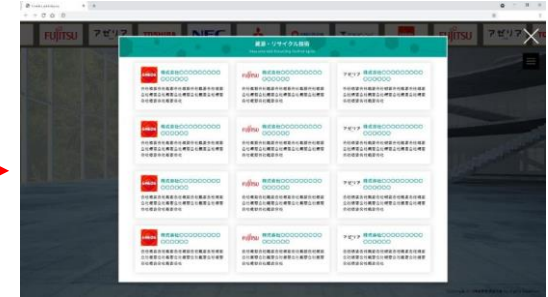


Please click here to see International Companies

※The other categories are in Japanese only

### ③ Exhibition List

The list of Exhibitors in International category and summaries of their profile and product etc. are displayed on this page. Click a company name for more information.

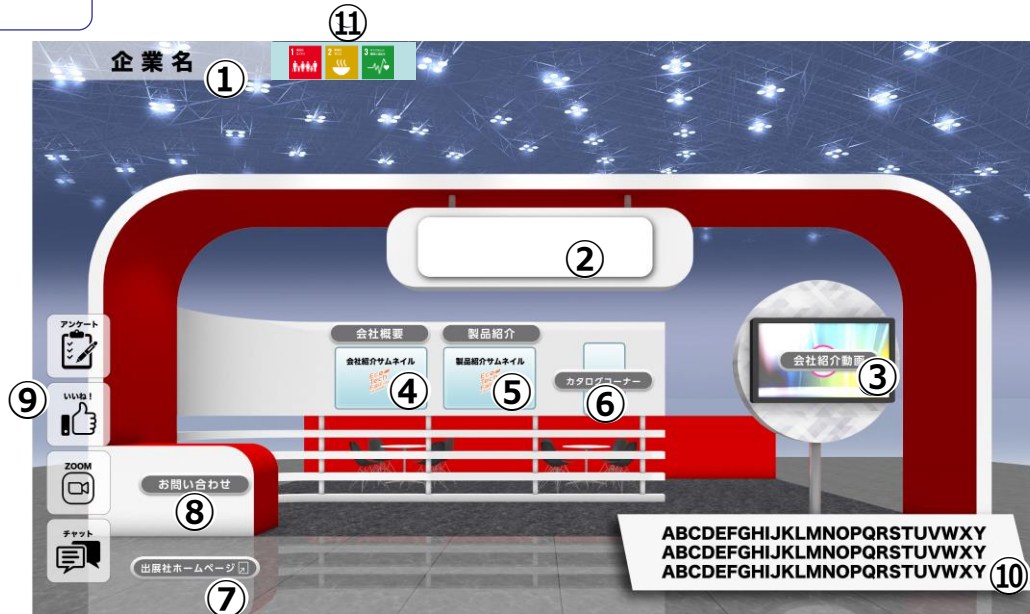


## Exhibition Category List

Categories	Exhibitors
Resource and Recycling Technologies	The names of exhibitors will be displayed in the category selected by the exhibitor at the time of application. Exhibitors will be listed in alphabetical order.
Eco Solutions	
Energy	
Contributing to Sustainable Societies	
Technologies for the New Normal Manufacturing, AI and IoT Technologies	
Supporting Organizations and Industrial/ Academic/ Government Collaboration	
From Kawasaki! Manufacturing and Cutting-Edge ICT Models	Companies and organizations related to Kawasaki City's authorized and supported projects will be displayed.
<b>International Companies</b>	<b>Only Exhibitors who created an English page will be displayed here.</b>
Sponsors	Move to the sponsor list page.
Back to the Top	Back to the top page.

# 5. Information on the Exhibition Hall

## Exhibition Booth Overview



### ① Display of company names

The company name registered in management page will be displayed.

### ② Company logo

The received company logo will be posted here.

### ③ Company introduction video

The video will play in a pop-up screen once the screen is clicked. The video covers company introductions and also product introductions.

### ④ Company Overview

The exhibitor's company profile is displayed. Display contents: Company name, company profile, photo, and company URL

### ⑤ Introduction of Products

3 products and initiatives can be introduced per booth. Click to display the product list page on the pop-up screen.

### ⑥ Catalogue corner

The catalog related to the product will be displayed.

### ⑦ Link to Exhibitor homepage

Visit the exhibitor's homepage.

### ⑧ Inquiry form

You can make inquiries to exhibitors, such as applying for business negotiations and asking questions about products.

### ⑨ Like Button

The visitor participant can click the "like" button, which will then be sent to the exhibitor's management page. The exhibitor can then keep track of the number of "likes" received.

### ⑩ Message Board

A message can be displayed on the exhibition booth and can be created and edited on the management page.

### ⑪ SDGs

Goals for in-house SDGs can be displayed here. The selected goals will be reflected in the search results on the exhibition category selection page.



# 6. Points of Caution

## **Personal Information Protection Policy**

The Kawasaki International ECO-Tech Fair Organizing Committee will protect the personal information provided by visitors to the exhibition, the personal information entrusted to us by our contractors, and the personal information of our employees in accordance with the following policy.

### **1. Collection of personal information**

The following information will be collected when you register to visit the 14th Kawasaki International Eco-Tech Fair. Information entered in the visitor registration form (name, place of work, location, department, title, telephone number, e-mail address)

### **2. Purpose of use of personal information**

The committee has established a system for the protection and management of personal information, with the Secretary General as the General Manager, and will use the personal information described in 1 above obtained through the committee for the following purposes.

- Management of visitors
- Disclosure of personal information to exhibitors, speakers and seminar organizers
- Responses and contact in response to requests
- Other, use for the operation of this meeting

### **3. Provision of personal information to third parties**

The committee will not provide personal information collected by the Association to third parties, except in the following cases: When the person concerned has given prior consent. When it is judged to be necessary according to the law. When it is necessary to protect the life, body or property of a person and it is difficult to obtain the consent of the person. When it is particularly necessary for the improvement of public health or the promotion of the sound growth of children, and it is difficult to obtain the consent of the person. When it is necessary to cooperate with a national agency, a local public body, or a person or organization entrusted by either of the foregoing in executing affairs prescribed by laws and regulations, and obtaining the consent of the individual concerned is likely to affect the execution of such affairs. In the case of providing personal information to third parties in accordance with the above, we require them to manage the personal information appropriately in the same way as the Association. In addition, we will limit the purpose of use of such information and take other necessary measures as necessary.

### **4. Management of Personal Information**

The committee will strictly manage the acquired personal information within the scope of the above purposes of use, and will take security measures to prevent unauthorized access, loss, destruction, falsification, leakage, etc., and will strive to ensure the safety of the management of personal information. In the event that we outsource the handling of personal information, we will manage and supervise the outsourcer to ensure that the personal information is handled appropriately.

### **5. Handling of personal information at linked sites**

This website may contain links to websites operated by individual exhibitors, speakers and seminar organizers. The handling of personal information on linked sites is the responsibility of the linked site, and the Association cannot be held responsible. The linked websites may collect your personal information on their own, so we recommend that you exercise caution when handling your personal information and check the privacy policy of each website.

# 6. Points of Caution

## 6. Compliance with laws and regulations regarding personal information

The Company will comply with all laws and regulations regarding personal information.

## 7. Provision of personal information to exhibitors

The registered information of visitors to the exhibition booth will be provided to exhibitors.

Exhibitors will be provided with the registration information of visitors to their exhibition booths. [Registration information to be provided to exhibitors] [Business registrants] - Name, visitor category, affiliation, department, (affiliation's) address, e-mail address, telephone number

All exhibitors will be treated in accordance with the terms and conditions and items 1. to 7. above.

## Recording or illegal downloading is strictly prohibited

Photography (including screen shots and captures) of the contents of the exhibition is prohibited.

Redistribution, resale, illegal uploading or illegal downloading of the contents is prohibited.

The Secretariat reserves the right to request the deletion of any content found to be illegal. It is also prohibited to upload the contents to social networking sites.

The content of the seminars and exhibitions, as well as the personal information of the visitors, must be kept strictly within the confines of the exhibition and must not be divulged.

The exhibitors and lecturers are allowed to publish the DL materials in the exhibition booths and lecture halls.

The copyright of all DL materials and lectures belongs to the authors and speakers, unless otherwise stated.

DL materials may not be used for internal or external purposes without the author's consent.

Unauthorized use is subject to damages and penalties under the Copyright Act.

# 7. Contact Information

## Contact for inquiries

Kawasaki International ECO-Tech Fair  
Management Office

(Convention Linkage)

TEL : +81-(0)3-3263-8698

FAX : +81-(0)3-3263-8693

e-mail : info@kawasaki-eco-tech.jp

Business contact: Okubo, Tanno

(Business contact: International Economy  
Promotion Office, Kawasaki City Bureau of  
Economy, Trade and Industry)

Kawasaki International Eco-Tech Fair  
Management Secretariat

(Convention Linkage, Inc.)

Tel. +81-(0)3-3263-8698

Fax. +81-(0)3-3263-8693

E-mail. info@kawasaki-eco-tech.jp

## Correspondence in times of Emergency

In the event of an emergency such as the website being down for this exhibition, exhibitors will be notified as soon as possible as follows.

### ①Email sent to Exhibitors

In the event of an emergency, we will send a notice to the e-mail address of the person in charge of the exhibition that has been registered.

If your e-mail address is set to spam, you may not be able to receive e-mails sent by the secretariat. Please change your settings so that you can receive e-mails from the "@kawasaki-eco-tech.jp" domain.

### ②Announcement on the Technology Expo Website

When the exhibition is canceled, suspended or rescheduled, a notice will be posted on the top page of the website.

Technology Expo HP

かわさきエコテック

検索

<http://www.kawasaki-eco-tech.jp>

# 8. List of Exhibitors

## Resource and Recycling Technologies

I.B.S. Corporation	IBS is a company that makes people smile by creating clean environment and providing value. To make the most of carpet tiles featuring "possibility of removal and relay", we provide a revolutionary reset cleaning technology in which tiles are peeled off one by one, loaded into machine, and washed. Due to the radical change of conventional cleaning, carpet tiles, that previously must be disposed of, are now recovered to look as smooth as new items. Extension of carpet life not only leads to significant cost saving, but also makes possible considerable reduction of CO <sub>2</sub> emissions produced so far by disposal and manufacture. Do not hesitate to consult with IBS if you are thinking of relaying of carpet tiles, or looking for environment-aware services. We also offer a variety of other services like mold control and air conditioner cleaning, and look forward to hearing from you about any help we can provide!
ELCOM Co., Ltd	ELCOM presents <i>e-PEP System</i> that regenerates clean energy from plastic refuse instead of disposing it. This system addresses the most pressing environmental issues – marine plastic and decarbonization. We developed this product as a result of long history in craftsmanship toward future harmonious coexistence with the global environment. With craftsmanship based on the "Simple is Best" concept, we decided not to have production facilities, we focused on understanding of market needs, and have created products boasting high operability, versatility, and safety using our own ideas and technologies. Our business operations are centered on manufacture and sales of environmental equipment with environmental load reduction being a core value as well as car parking products, snow-melting products, etc.
KASSUI PLANT Co.,Ltd	Our company deals with development of various equipment and systems for drainage and waste treatment, design and construction of vacuum dryers, decompression carbonization incinerators, medical waste incinerators, and other industrial plants, manufacture and sales of plastic parts used for filtering, etc. Through sustainable use of water, environment, and resources, we contribute to ecological society
Kawasaki Eco-Tech	In 1997, the City of Kawasaki launched Eco-Town Project to create a model town where the environment and industry would coexist in harmony; the project targeting the entire coastal area of Kawasaki (approx.. 2,800 hectares) was recognized by the government as the first eco-town area in Japan. Our booth introduces efforts of recycling facilities and businesses dealing with environmental technologies in Kawasaki Eco-Town.
GREENHEART INTERNATIONAL Co.,LTD.	"Water & Soil Purification System" = Technology that allows using toilets in the normal way even in times of disaster. No water is needed because human waste is 100% recycled. Water and sewerage fees for toilet become zero; a flush toilet is used in the normal way even in times of emergency, while saving water. Apart from emergency toilet applications, this technology has been adopted in about 80 locations nationwide including areas where sewerage is unavailable or effluent standards are stringent. The system is aimed at recycling and reuse of sewerage at its source and at development of resilient infrastructure. We develop medium-to-small size products that are lightweight, dismantlable, and extensible to respond to diverse markets. We invite other businesses to join these efforts and look forward to hearing from you!
Sun Earth Co.,Ltd.	Sun Earth provides shredders, separators, and material handling equipment as well as related technologies for resource recycling developed in Germany and other environmentally advanced European countries. Our clients are domestic businesses engaged in intermediate treatment of industrial waste. We offer our clients appropriate maintenance and prompt parts supply so that our equipment is safely operated at full capacity. Our paramount goal is to make our clients say: "To purchase this equipment from Sun Earth was a good decision", and we believe that such appreciation is a resource for business continuity.

# 8. List of Exhibitors

## Resource and Recycling Technologies

J&T Recycling Corporation	<p>In April 2019, J&amp;T Recycling Corporation started as a comprehensive environmental solution business co-managed by JFE Group and JERA Group, through merger of former JFE Kankyo Corporation and Tokyo Waterfront Recycle Power. Our company integrates advanced technologies of recycling and energy recovery from waste possessed by JFE Group with know-hows of high-level power plant management possessed by JERA Group to propose solutions that keep ahead of changing trends, and to provide services featuring the highest level of safety and security.</p> <p>Currently, SDGs have become important goals of business activities, while solving marine plastic pollution and improvement of food recycling rate are important topics in waste treatment and recycling; in this context, our company is actively involved in abroad operations based on knowledge and experience accumulated in Japan.</p> <p>Our executive officers and all employees will continue efforts toward contribution to building of a society oriented for regional recycling of resources and energy, and realization of sustainable and comfortable living environment; so we hope for your support and encouragement.</p>
JFE Engineering Corporation	<p>360° JFE Engineering Creating, supporting, and connecting the foundations of our lives- Just for the Earth</p> <p>The core of our business is the construction of infrastructure that is essential for people’s lives, such as waste power generation, water treatment plants, and bridges. With a focus on these areas of business that are essential worldwide in any era, we conduct business management from business planning, EPC (design, procurement, and construction) to O&amp;M (operation and maintenance management), and offer integrated, proposal-based services.</p> <p>Environmental Recycling Water Energy Power generation and electric power Social infrastructure</p>
Japan Portable Rechargeable Battery Recycling Center (JBRC)	<p>Small Rechargeable Battery Recycling: As prescribed by Act on the Promotion of Effective Utilization of Resources and Waste Management Act, JBRC brings together manufacturers of batteries and battery-powered devices as well as importers obligated to collect and recycle small rechargeable batteries. JBRC promotes collecting and recycling of small rechargeable batteries (nickel-cadmium, nickel-hydrogen, lithium-ion) manufactured by the members from registered stores and communities, businesses, and other emitters. Small rechargeable batteries used in a variety of everyday situations contain nickel, cadmium, cobalt, and other rare earth metal resources. Through recycling of small rechargeable batteries, JBRC saves valuable natural resources, contributes to creation of recycling-oriented society concerned about environmental protection, and propels recycling rooted in everyday life.</p>
SHOWA DENKO K.K. Kawasaki Plant	<p>Products of Shows Denko Kawasaki Plant are used in maintenance of electricity, water, and other lifelines necessary for everyday living, and production of semiconductors, LC panels, mobile terminals, and other devices required for IoT and other smart systems. Thus, we contribute to making society a more comfortable and prosperous place to live in.</p>

# 8. List of Exhibitors

## Resource and Recycling Technologies

Tsudanuma-Giken Co., Ltd	We at Tsudanuma-Giken consider and propose environment survey, measurement and analysis together with clients, and carry it out to meet their requirements. In addition, we are engaged in sales of cement-based fixing agents as well as R&D and sales of environmental purifiers. We would like you to join us in improvement of environmental pollution.
NARA MACHINERY CO.,LTD	Nara Machinery Co., Ltd. is a manufacturer of powder and granule processing machines established in 1924. We developed nation's first high-speed impact mill called <i>Jiyu Mill</i> , and now we propose and sell many various powder and granule processing equipment including mixers, granulators, dryers, and surface modification systems. In the worldwide context of environmental problems, our company endeavor to offer pulverizing and drying technologies cultivated in various industries for utilization of biomass resources. Aiming at efficient use of woody biomass and herbaceous resources, food processing byproducts (e.g., coffee grounds, soy sauce cake), methane fermentation residue, excess sludge, etc., we first conduct tests using experimental equipment so as to offer pulverizing, drying, and other processes with optimal energy efficiency. Please contact us if your company or institution is interested in effective utilization of biomass resources.
JEPLAN, INC.	JEPLAN, Inc. creates mechanisms for resources recycling to involve citizens, based on the vision of "putting everything back to circulation". We deal mainly with recycling of clothing, plastic produces, and PET bottles. In addition to conventional collecting and recycling of used-up things by businesses and communities, we encourage citizens to change their behavior patterns so that they feel excited about active cooperation in recycling; we aim at a recycling framework in which collected items are recycled using the latest chemical technologies to eventually return to storefronts as new products. In the City of Kawasaki, our group operates the world's only chemical recycling plant for PET bottles; with Bottle-to-Bottle recycling technology, new PET bottles are fabricated from used ones. Would you like to join us in creating recycling systems that strike a chord with ordinary citizens?
MIKUNIYA Corporation	Mishimax is a system that reduces the volume of food waste, excess sludge, and other organic refuse by more than 90% in 24 hours. This technology featuring high reduction rate due to high-temperature aerobic fermentation decomposition using microorganisms is an ideal cost-cutter for waste processing. Moreover, reduction of transportation, incineration, and other processes is helpful to decrease CO <sub>2</sub> emissions and to improve recycling efficiency. Mishimax was recognized as "Low CO <sub>2</sub> Kawasaki Brand" in 2017, and registered with UNIDO Sustainable Technology Promotion Platform (STePP) in 2018; we are to further promote this technology both home and abroad.
FUJITSU TOKKI SYSTEMS LIMITED	Welcome to the booth of Fujitsu Tokki Systems Limited! We are a Fujitsu Group company engaged primarily in development and maintenance of electronic devices and information and telecommunications systems related to the Ministry of Defense. Using high-sensitivity, fast-response infrared technologies cultivated in this field, we developed a flame monitoring and alarm system for civilian businesses. Fire accidents caused by lithium ion batteries thrown in garbage often occur at Clean Centers run by public bodies and local governments as well as at private facilities for industrial waste treatment, and traditional fire detection IR cameras and sensors prove more often than not helpless. Moreover, fire accidents are tweeted and posted to SNSs in no time at all, and businesses are becoming accountable for risk management dealing with early fire detection and extinguishing. Our flame monitoring and alarm system features functions that make possible response to such social situation. Please take time to look at this system displayed at our booth.

# 8. List of Exhibitors

## Resource and Recycling Technologies

Heisen Yoko Co., Ltd.	Heisen Yoko Co Ltd handles two products – SEABIN and JELLYFISHBOT – in the endeavor to solve the problem of marine pollution related to SDG 14. Marine pollution, being confirmed harmful to aquatic life, includes plastic garbage, microplastics, oil leaks, and other issues; we would like to contribute to solving the problem of marine pollution through purpose-specific use of SEABIN fixed on a floating pontoon, and marine drone JELLYFISHBOT operated remotely (or automatically). We also aim at recycling of collected marine plastics through building communities and partnerships for sustainability.
Miyamatsu SOC Co., Ltd.	Our company traces its history back to 1954 when Fuso Kogyo was founded and started production of building materials; then in 1968, the company name was changed to Miyamatsu Kogyo (our predecessor), and ready-mix concrete factory was launched. After that, Miyamatsu SOC Co., Ltd was established in 2002 with equity participation of Sumitomo Osaka Cement. While producing and selling ready-mix concrete, we are also engaged in environmental problems. Particularly, we handle high-fluidity backfilling material SURAMORU reusing ready-mix concrete washwater; in 2014 we developed, with a government subsidy, KONJARI-KUN, an aggregation machine to deal with excess concrete at construction sites. Ready-mix KONJARI-KON manufactured using this technology won Grand Prize as “Low CO <sub>2</sub> Kawasaki Brand’16”. The role of concrete changes with the times. While cities are called concrete jungle, concrete protects human lives from disasters like typhoons and floods. Adapting to new trends, we aim at a warm company that brings joy to local community despite of the cold and stiff image of concrete.
RIKADEN Co.Ltd	RIKADEN Co., Ltd. provides chemical recycling services to gasify plastic waste, and to refine hydrogen, ammonia, and other substance, thus dramatically reducing CO <sub>2</sub> emissions. We focus on providing chemical recycling to small- and medium-sized businesses and factories with chemical recycling that has been already adopted in large companies and plants. Use of chemically recyclable materials for packaging makes possible fabrication of custom packaging materials and packages, without concern over raw material control.
Ryuki Engineering Inc.	Under the slogan “Zero Sewerage Challenge”, Ryuki Engineering offers filter systems and other equipment and technologies for water treatment. A particularly noteworthy is a new filtering method called “ECO Clean LFP”, LFP standing for Liquid×Filter×Powder. Combination of membrane-filtering type water treatment system “ECO Clean” with activated carbon powder has brought about high removal ability and cost saving. The underlying technology of “ECO Clean” won 46th Invention Award last year.

# 8. List of Exhibitors

## Eco Solutions

AION Co., Ltd	<p>AION Co., Ltd. is a manufacturer of PVA sponges and other advanced continuous porous materials. In this exhibition, we introduce three following items as environment-friendly products.</p> <p>(1) PC Separator: High-performance compact continuous vacuum solid-liquid separation system employing AION's unique cylindrical porous filtration media.</p> <p>(2) Microbe Carriers: Microbe-immobilizing carriers used for biological deodorization and wastewater treatment. These porous solids made of the hydrophilic resin PVA sponge feature excellent microbial affinity.</p> <p>(3) Various Water-absorbing Rollers: Continuous porous rollers excelling in water absorption. Water can be continuously absorbed simply by pressing the rollers against a work piece and rotating them;</p>
ACT Co., Ltd	<p>Cohesion agent SUIMU by Act Co. Ltd. makes possible simple and inexpensive sewage treatment. Thus, treatment cost can be cut as compared to outsourcing treatment of all sewage to an industrial waste disposal company when in-house treatment is assumed difficult. As compared to conventional cohesion agents, SUIMU has a number of advantages, namely, dewaterability of sediments formed after treatment, reaction speed, and easiness of pH adjustment. Moreover, the composition including mainly natural minerals is safe, while both products themselves and treated sewage are eco-friendly. SUIMO has been adopted in large-scale construction works and decontamination works in Fukushima Prefecture. We take flexible approach toward selection and development of products tailored to client needs. Upon receiving a client's request about sewage treatment, we utilize our past experience in wastewater analysis to provide multiple samples; in addition, we conduct in-house testing of actual sewage, and choose a suitable product or propose a new cohesion agent and treatment method toward solving the problem.</p>
ASAHI KASEI TECHNOSYSTEM CORPORATION	<p>Asahi Kasei Technosystem Corporation offer products for protection of water environment using our unique sensing technology. Production of the oil leak detector Apolarm C began in 1976. Due to a simple configuration using insulation properties of oil and our unique know-hows, this device boasts the top share in Japan for 40 years, without any major modification. In 1997 we developed the non-contact laser reflection-type Apolarm M that can detect oil films at the micron level. While responding to the needs for thin oil film monitoring, we have received recognition for avoiding troubles caused by misinformation. We also offer Apolarm F that detects water-soluble oils.</p>
ECO TEST Corporation	<p>There are about 1,700 environmental analysis companies in Japan, but have you ever thought, "I don't know any environmental analysis companies" or "I don't know where to ask"? Having partnered with magnificent environmental analysis companies throughout Japan, Ecotest Online can quickly arrange the analysis you need. The basic need of customers is that they want to place orders with companies that are inexpensive, fast and reliable, right? Since each analysis company has its own special area, Ecotest Online is able to offer "inexpensive, fast and reliable" no matter the analysis. For your environmental analysis needs, please use Ecotest Online services!</p>



# 8. List of Exhibitors

## Eco Solutions

SNT Co., Ltd	<p>Do you know about biomimetics?            SNT specializes in repellent technologies and develops special nano films. We are working on the development of thin films that artificially reproduce the repellent phenomenon observed in nature, such as in lotus leaves and penguin feathers. Our coating products are full of ingenious ways to repel liquids.            Our R&amp;D topics are not limited to only smooth flowing liquids such as water and oil, but also include viscous substances like caramel syrup and yoghurt.            Three technologies and products will be showcased at this exhibition.            (1) Super water-repellent coating with reduced adhesiveness (lotus leaves, penguin feathers)            (2) Durable and transparent slide coating (nepenthes)            (3) Nano Film Maker – A development tool for new, thin functional films            We look forward to seeing you at the exhibition.</p>
CATARISE CORPORATION	<p>Catarise is a manufacturer of photocatalysis coating liquids. We offer high performance photocatalysis products and total photocatalytic solutions. Photocatalytic coating of the inside of a room not only provides antiviral, antibacterial and deodorizing benefits, but is also recognized as having the effect of inactivating pollen allergens. In particular, we have conducted antiviral testing on the new coronavirus, and have confirmed an inactivation effect against this virus (elimination of infectivity). Products include our Hikariactor series of coating liquids for professional use and our Super Hikarimist spray for general use (OEM service is available). We are a member of the Photocatalysis Industry Association of Japan (PIAJ), and maintain the quality and safety of our products in compliance with PIAJ certification standards. Please consider using our products as one measure against the new coronavirus.</p>
Kujyo Co., Ltd	<p>Kujyo was established in Kawasaki City, Kanagawa Prefecture, as the managing company of the Kawasaki Surplus Soil Transportation Association, and is engaged in earthwork and the transportation and disposal of surplus soil from construction in public works, such as redevelopment, and in private projects, such as building construction. Since 2010, we have also been developing the Lorentz-MG power-saving transformer in an attempt to address resource and energy-conservation issues. In 2019, we were certified with “Low CO<sub>2</sub> Kawasaki Brand ‘18.”</p>

# 8. List of Exhibitors

## Eco Solutions

SHOEI CO., LTD	<ul style="list-style-type: none"> <li>● Based on the catchphrase “water-friendly, people-friendly,” Shoei has been working to contribute to the resolution of environmental issues through its core products of <i>onsen</i> (hot spring) filtration systems and swimming pool filtration systems. Based on the philosophy that creating employment is one of the major goals and roles of companies, we have also been actively recruiting. Going forward, through our initiatives for SDGs, we aim to contribute further to the environment and to the prosperity of society, including our stakeholders and employees.</li> <li>● Our recommended filtration units and related products have been developed to corrosion-resistant specifications using carefully selected materials so that they can be used in bathing facilities, swimming pools and aquariums of all types of water quality. As a result, they have been highly regarded as the sure products of choice for use in highly corrosive water quality. Our fiber-reinforced plastic (FRP) tanks have excellent heat-retention properties, giving you energy savings of about 40% compared to metal tanks.</li> <li>● The SHOEI Bathing Eco System is an energy-saving, cost-reducing system for bathing facilities. It achieves significant reductions in running costs for water, heating and electricity. With this system, total cuts of more than 50% are possible. We can propose the optimal energy-saving solution for your facility such as through a combination of filtration circulation pump speed control, operation control based on bather detection, and a filter backwash reuse system.</li> </ul>
SOUSHOW	<p>The work Soushow does every day is directly connected to the protection of human life and household possessions. Whenever we hear news about window panes breaking because of a tornado or typhoon winds, we feel exasperated because injury could have been prevented if the proper film had been applied. We believe it is our mission to make more people aware of the fact that film can protect human life and household possessions. To continue our work offering optimal solutions to our customers, we will endeavor to improve our product knowledge and construction techniques and work on our business with a passion to create films that do not exist anywhere in this world.</p>
DIA AQUA SOLUTIONS CO., INC.	<p>The Mitsubishi Gas Chemical Group—the first company in the water treatment chemical industry to develop and sell a one-component comprehensive water treatment agent—provides solutions for water treatment issues for coolant used in air conditioning and various equipment. We also address various other environmental, wastewater and sanitation problems. Examples of solutions include: prevention of corrosion in pipes and heat exchangers; prevention of decreased heat exchange efficiency and increased energy consumption due to scale and slime adhesion; removal of offensive odors from wastewater and sludge; oxidative decomposition of dioxane in wastewater; and mold control and sanitation management in air conditioners.</p>

# 8. List of Exhibitors

## Eco Solutions

NAKASHO Inc.	With a history of more than 50 years, Nakasho owns and operates incineration, drying and crushing facilities handling various types of waste, mainly in Kawasaki City. Our aim is to grow together with Kawasaki City as a community-based company to realize a decarbonized society.
Japan Environment Association	The Japan Environment Association has been appointed as a Designated Support Corporation under the Soil Contamination Countermeasures Act in order to ensure the smooth implementation of measures to address soil contamination. A fund (Soil Contamination Countermeasures Fund) has been set up for support, and activities are being carried out including the provision of subsidies, inquiries/consultations/advice, and knowledge dissemination and awareness raising.
Japan Thread Co., Ltd.	Japan Thread is an environmental consulting company with a head office in Minato-ku, Tokyo. We are the sole distributor of thread filtration systems for local governments in Japan. We plan, design, and develop new environmental products, but we do not own our own manufacturing plant; we are a fables company that outsources manufacturing. In 2006, we received “water treatment equipment” certification from the Japan Water Research Center for our Israeli-made thread filtration system, and have since installed it at eight waterworks facilities across Japan.
MICRONET CORPORATION	<p>Micronet will solve your noise problems.</p> <ol style="list-style-type: none"> <li>1. SoundViewer is a measurement device that visualizes noise and unusual sounds in a wide range of products and environments. Sound is not something that can be verified with the naked eye. SoundViewer visualizes the sources of sound and can be used for reducing noise in a product or for monitoring unusual sounds. We also support sales, measuring services, rentals and customization.</li> <li>2. The ANC Noise Control Testing System is a system that reduces noise by offsetting it with a sound with the opposite phase. The ANC Noise Control Testing System can reduce low-frequency noises at or below 2 kHz, which are not able to be muffled by sound-absorbing materials.</li> </ol> <p>Periodic noise can be muffled down to -20dB (1/10) or less. Able to perform both feed-forward and feedback tests, the system can be used for various types of noise.</p>
MURAI CHEMICAL PACK CO.,LTD.	Founded in Kurume City, Fukuoka Prefecture in 1967, Murai Chemical Pack is engaged in the manufacture, sale and construction of special synthetic resin-based paints, as well as social and environmental measures such as treatment for the prevention of asbestos dust dispersion (containment and removal) and dioxin decontamination work. Many of the products and technologies we provide have received various certifications from the Ministry of Economy, Trade and Industry and the Kyushu Bureau of Economy, Trade and Industry. We were also the first company in Kyushu to obtain a construction technology review certificate for treatment for the prevention of asbestos dust dispersion. Going forward, we will continue working to develop highly functional paints and improve various technologies in order to please our customers with power-saving, energy-saving and environmental measures.

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## Energy

AURA Green Energy Co., Ltd	Broadening its outlook globally, Aura Green Energy will develop businesses that protect the global environment while pursuing affluence and profitability through the renewable energy business. We will also do our best to achieve our mission of creating a business model that will lead to improvements in society and the global environment.
Asuene Inc.	With a mission of “making a better world for next generations,” Asuene is expanding its GHG emissions management cloud service. (1) Automatic visualization of CO <sub>2</sub> simply by scanning We will reduce person-hours by automating the collection and calculation of GHG emissions data, not only for the company or municipality, but for your entire supply chain (Scope 1–3). With an easy-to-understand UI and an easy-to-use UX, even first-time users can use the service with a short onboarding period. (Patent application filed in July 2021 as a new, unique technology developed by Asuene) (2) Complete automation of analysis and reporting Leveraging technology, we analyze GHG emissions and report on CDP, SBT, Energy Conservation Act, etc. on your behalf. This also reduces the time spent on annual reporting procedures. In addition to automating reports, we will automatically support analysis results by utilizing AI for analysis work which used to be very time consuming. (3) Leave all your CO <sub>2</sub> reduction to us! We propose the optimal method according to the cause of GHG emissions, such as providing 100% renewable energy and energy savings. We support you in reducing GHG emissions by proposing the optimal method according to your needs, such as the “Asuene” locally produced and locally consumed clean power service with 100% renewable energy, zero CO <sub>2</sub> emissions and 10% cost reduction, corporate PPA for both on-site and off-site, credit offsets and energy-saving solutions.
Isuzu.co.ltd.	Isuzu was founded in Nakahara-ku, Kawasaki City about a half century ago. Since encountering solar power about 30 years ago, we have mainly been engaged in the construction of solar power facilities for residences and industries (mega solar, self-consumption), construction of detached housing, and remodeling and other residential businesses. As for our more recent projects, we are working with Kawasaki City to promote “off-grid trailer houses” (see image), which we planned together with the Kawasaki New Energy Promotion Association, and “off-grid houses” that aim to be self-sufficient and not rely on city power lines, as well as the “Regional Micro-grid Project” which will make it possible to supply electricity in times of disaster. As for the design, construction and sale of solar power generation systems, storage batteries and EV chargers, our services range from private homes to factories and other industrial use. If you’re interested in good quality at good prices, please contact us for a proposal.
ENEOS Corporation	In the “2040 ENEOS Group Long-Term Vision”, ENEOS aims to become a leading energy and materials company in Asia, create value through business structure reform, and contribute to the development of a low-carbon, recycling-oriented society. As a group, we aim to be carbon neutral for our own CO <sub>2</sub> emissions by fiscal 2040. We are also developing initiatives to provide a stable supply of energy, add high value to petroleum, further expand our renewable energy business and build a CO <sub>2</sub> -free hydrogen supply chain. We are also focusing on creating mobility services and life support services by utilizing our nationwide network of service stations.
Kawasaki New Energy Promotion Association	The Kawasaki New Energy Promotion Association is comprised mostly of local companies that sell and install solar power generation equipment and storage batteries, as well as those that construct eco-friendly homes. The association is engaged in promoting the spread of solar power generation in homes and offices in order to encourage the creation of new energy industries.

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## Energy

Kawasaki Natural Gas Power Generation Co. Ltd.,	The Kawasaki Natural Gas Power Plant has a power generation capacity of approximately 840,000 kW on a 60,000 m2 site, supplying power generated by firing clean natural gas as fuel to ENEOS and Tokyo Gas. The motor consists of a combined cycle system (maximum efficiency of 58%) that combines a 1400°C class gas turbine equipped with a low NOx combustor with a steam turbine, greatly reducing CO2 emissions per power generated. In addition, with a smoke denitration system to reduce NOx emissions, hybrid wet dry cooling towers to counter white smoke emissions, and about 20,000 trees planted on site, this is a power plant that is rich in greenery where we carry out operations, mindful of the living environment of the people in our local community.
KAWASAKI BIOMASS ELECTRIC POWER CO.,LTD.	This is an environmentally friendly power generation facility that supplies "CO2-free electricity" with biomass single-fuel-firing power generation equipment that uses woody biomass fuels and no fossil fuels such as petroleum or coal. The Kawasaki Biomass Power Plant generates electric energy equivalent to that consumed by about 38,000 typical households per year, reducing CO2 emissions by approximately 120,000 tons per year. In addition, this is an "urban biomass power plant" designed to meet the strict environmental standards of Kawasaki City and is equipped with environmental systems such as smoke desulfurization and smoke denitrification systems that are not found in biomass power plants located in rural areas.
National Institute for Environmental Studies/General incorporated association Resource Circulation Network	The National Institute for Environmental Studies is Japan's only research institute that engages in a wide range of interdisciplinary environmental research in a comprehensive manner, and since our founding in 1974, we have played a key role in solving various environmental problems. Going forward, we will continue to conduct a wide range of research that takes a bird's-eye view of the entire field of environmental science (bring together), promote comprehensive research that is fundamentally aimed at social implementation (connect), further develop and enhance research networks in Japan and internationally (create ties), conduct high-level research that contributes widely to the understanding and resolution of environmental problems (drive), and appropriately disseminate the scientific knowledge that we have accumulated. In addition to promoting environmental research based on the ideas of "connecting, bringing together, creating ties, and driving," we will maximize the results of research and development being carried out in Japan as a whole, strive to bridge these efforts with society, and contribute to the advancement of environmental policies in Japan and other countries and regions. In light of the need for appropriate information management in the area of recycling logistics in Japan and internationally, the Resource Circulation Network, a General Incorporated Association, was established as the world's first traceability certification body in the field of recycling with support from like-minded private businesses, government agencies, and experts. Since our establishment in 2009, we have provided solutions utilizing various consulting and information systems for public and private parties in the field of waste disposal and recycling businesses.
CSD Co., Ltd.	Based on our core competence—advanced system development skills that we have continued to cultivate in the field of power distribution since our founding—and backed by our experience and technological capabilities, CSD Co., Ltd. (CSD) has continued to conduct business operations also in areas of social infrastructure development that are not associated with electric energy, such as society, transportation and industry. And in recent years, we have been actively working in the areas of renewable energy and related energy management systems for realizing a low-carbon society.

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## Energy

Suishin Co. Ltd	<p>Since our founding in 1999, we have expanded our business as a pipework company into a group specializing in water treatment maintenance based on our philosophy of contributing to a recycling-oriented society and environmental conservation through "water" and "energy." We are headquartered in Gunma Prefecture and operate mainly in the Kanto-Koshinetsu area. Water treatment facilities come in a diverse range of types ranging from facilities for factory manufactured water including water used for manufacturing semiconductors and liquid crystal displays, medical grade pure water, pure water used in the production of drinking water, and softened water used in boilers, as well as a variety of facilities for treating wastewater including not only that from food products but also various factory effluents, sewage, feces, and effluents from garbage treatment plants. Furthermore, we have launched a new business in 2016 where we aim to develop and manufacture our own products based on our vision of becoming a development-oriented company. We focused on how we might recover heat from wastewater using our technologies and knowledge in water treatment and have developed an apparatus that contributes to energy conservation. We have acquired international patent rights for this product, and it is currently available for purchase. A characteristic of this apparatus is that it is capable of recovering heat from wastewater, a feat that was impossible on conventional heat exchangers. This heat recovery apparatus (product name: ReCalo+, or ReCalo) helps to realize significant reductions in fossil fuel use and CO2 emissions, and to date, we have sold about 150 units in Japan nationwide. Our customers include a diverse range of users including dishwasher and industrial food tray washer users, hot-spring operators, linen supply providers, and food and beverage manufacturers. In terms of the effects of reduction, many of these companies currently enjoy a 20-30% reduction in fuel costs for a saving of over 1 million yen per year.</p>
CHIYODA Corporation	<p>Since its founding in 1948, Chiyoda Corporation, a comprehensive engineering company, has contributed to the development of sustainable societies by enhancing its business based on its vision of harmonizing energy with the environment. We aim to become a new leading company in the field by leveraging the technological capabilities that we have cultivated over the years to play a part in creating the future of the global environment. Using our unique technologies, we have developed the SPERA hydrogen system for safely storing and transporting hydrogen obtained from various resources. Through Chiyoda's engineering capabilities, we will enable the construction of hydrogen supply chains that will form the foundation of decarbonized societies, which have become the demand of the times.</p>
TBM Co.,Ltd	<p>With support from NEDO, we have manufactured a proprietary biomass fuel "SMO" from wastewater oils and fats that have traditionally been disposed of as industrial waste sludge and developed our "Food Green Generation System" that uses this fuel as a heavy oil alternative for power generation. We are already collecting wastewater oils and fats in our kitchen wastewater management business at more than 500 major food and beverage chains mainly in the Tokyo metropolitan area, and our actual cumulative power generation performance tops 500,000 kWh. It is estimated that 1.1 million tons of wastewater oils and fats are discharged annually from restaurants and food factories nationwide. By using these regional resources in our Food Green Generation Systems, we can create clean energy, save energy in water treatment processes associated with water purification, reduce sludge disposal volumes, and achieve decarbonization of up to 3.7 million tons-CO2/year. Currently, with the support of the Ministry of Economy, Trade and Industry, we are also engaged in the development of a system for "digitally managing all processes from the collection of 'waste oil' as a regional resource up to the calculation of CO2 reduction amounts" (patent acquired). Going forward, with Scope 3 in mind, we will propose concrete measures useful for realizing a circular economy, decarbonization and SDGs to major restaurant chains, general food retail groups, major developers, related food factories, local municipalities and citizen groups.</p>

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## Energy

TOKYO GAS Co., Ltd.	Our aim is to become a corporate group that continues to create value while leading the way for the next generation of energy systems. The value we create is in discovering issues together with our customers, society and business partners, and providing energy and solutions flexibly and quickly. We expect that the pillar of our business, natural gas, with attributes such as its stability, environmental impact, and economy, will further expand its role and value in light of its compatibility with unstable renewable energy. At the same time, as a leading company that deals with natural gas, which is a fossil fuel, it is our responsibility to address the issue of climate change seriously. We will continue to provide solutions for people's lives, our cities and our planet by combining renewable energy and other new technologies with natural gas.
Tokico System Solutions, Ltd.	Since its founding in 1937, Tokico System Solutions has continued to refine its technology for measuring and controlling "fluids" such as fuel oils, chemicals, ultra-pure water and other liquids, as well as various gases. Furthermore, we have been engaged in the engineering of dangerous goods facilities for many years and have cultivated know-how in the field. Armed with our reliable technology and know-how, we currently operate in the "manufacturing," "sales," "upkeep and maintenance" related to the following two businesses: · Energy solutions business: Manufacture and sale/construction work/upkeep and maintenance for products associated with service stations and private vehicle filling stations. · Infrastructure engineering business: Manufacture and sale/construction work/upkeep and maintenance, facility engineering, and medical equipment development support for products associated with instrumentation and hydrogen stations for FCVs. As a leading player in providing comprehensive system solutions, we are committed to provide—through combinations of products, services, and solutions in a wide range of fields in industry and society—robust, agile, and safe industrial and energy infrastructures that will take us to the next-generation and also support BCP actions and reduced carbonization for fuel supplies.
NOVIS CO.,LTD	NOVIS takes on the entire development process, from design to construction of solar power generation facilities (for home use) on factory rooftops and idle land to help the world achieve carbon neutrality by 2050. We have also released "SOLUNA", a novis original housing system package, and are developing cost-effective products that maintain the credibility of each manufacturer's warrantee, not OEM.
VARIOSTOR Corporation	Variostor develops and sells methanol-converting, hydrogen fuel cell and power supply vehicles. We also sell large storage battery systems that are extremely safe and utilize the latest high-cycle, shielded lead-acid batteries. We can also help you build your own original storage battery systems by flexibly combining storage battery modules and inverters.
MIURA CO., LTD.	The MIURA Group focuses on the production, sales, and maintenance of boilers and associated equipment. We provide total solutions for factories around the globe, combining our mainstay once-through boilers with other products based on boiler technology such as water treatment equipment, food equipment, medical equipment, and exhaust gas boilers, as well as the one-stop maintenance service that only a manufacturer can provide. Our mission (corporate philosophy) is to contribute to the creation of an environmentally-friendly society and clean and comfortable lifestyles through our work in the fields of energy, water and the environment. We are promoting a wide-range of businesses through our active engagement in cutting-edge fields, such as commercial fuel cells and hydrogen-fired boilers, taking advantage of the technologies and experience we have developed over the years with boilers and with an eye on the state of energy around the world and the arrival of the hydrogen society.

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## Energy

Mitsubishi Kakoki Kaisha.Ltd	Mitsubishi Kakoki Kaisha’s corporate philosophy is to contribute to society by supplying high-quality products and facilities created with proven technology rooted in the ideals of manufacturing craftsmanship and with uncompromising quality control. As we strive to meet the needs of this new era, we are ready to take up the challenge of venturing into new fields of business and to provide products, technologies and services that meet the needs of our customers.
Meiji University Research Extension and Intellectual Property Headquarters	Opening its doors 140 years ago with a spirit of “harmonious cooperation” and the founding spirit of Rights and Liberty, Independence, and Self-Government, Meiji University is carrying out a variety of educational and research activities designed to contribute to the achievement of the SDGs with the aim of creating a peaceful society and world where people deserve the chance to live as human beings. At this exhibition, we will be introducing two research projects on environmental issues.
Robeam Co.,Ltd	Robeam is engaged in business that contributes to agriculture and culture in Japan under the banner of “robots, agriculture and area development”. Robeam President Ishihara Ryotaro is collaborating with the CHO Institute of Technology (headed by Akira Nagashima, inventor of solar sharing) in research and development, focusing on energy that powers robots. Solar power is a key technology in realizing the aim of a decarbonized society. However, ordinary solar panels that are installed in fields have some disadvantages, including the need for large spaces and the negative effects of water retention and herbicides from deforestation. Solar sharing technologies compensate for these shortcomings because they use existing farmland and other resources to generate electricity. At the end of last year, we installed a prototype of “Solar Sharing 3S” (patent pending) in Ichihara City. In September this year, we manufactured 10 systems. The “3S” in “Solar Sharing 3S” is short for the product’s strong, simple and slim features. The system is wind-resistant, vegetation-friendly, and easy to install. We will initially bind and sell educational programs specifically tailored for research at agricultural high schools and for environmental education at elementary and junior high schools. We have great expectations of the proposals on aluminum processing technologies, installation of mounts (including electrical installations), and sales at this exhibition.



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## Contributing to Sustainable Societies

Earth Net Works Co., Ltd.	Earth Net Works provides comprehensive support for your decarbonization management initiatives under the keywords of “decarbonization x subsidies”. We offer our customers the best solutions with a diverse lineup of services and a wealth of expertise combined in a highly-sophisticated way. Work with us to build your competitive advantage, reduce utility and fuel costs, increase your visibility and name-brand recognition, achieve inner effects (internal motivation, recruitment), and realize financing advantages through decarbonization management initiatives.
ELIY Power Co., Ltd.	As a dedicated manufacturer of stationary large lithium-ion batteries, ELIY Power develops, manufactures and sells large lithium-ion batteries and electricity storage systems. At ELIY Power, we carry out research and development focusing on the safety of individual battery cells characterized by world-class safety, a reliably long service life, and excellent temperature performance. Our energy storage systems with large built-in, lithium-ion batteries have been adopted by a number of companies, including Daiwa House, Secom, and NTT DoCoMo, because of their strong safety and performance levels.
OSMO Co.,Ltd.	At Osmo, we propose water production systems that our customers need in a wide range of fields, including for semiconductor and display manufacturing plants in the electronics industry, food production facilities, hospitals and research labs. We also provide simple water supply systems and mineral water production facilities and equipment to remote islands and African nations that face water issues.
Kaori International Japan	Kaori International Japan is a trading company with detailed knowledge of the Central Asian market. Since our founding, we have played a leading role in the life-saving business of water by providing our customers with optimal system solutions. In recent years, we have aimed to expand our business areas to include life-protecting infection control measures and products used for evacuation during disasters. We are a small, flexible and accommodating trading company that is leveraging our global experience and human networks to build strong supply chains and meet the needs of our customers. Our key business areas include: ■ Sales of medical products to counter infectious diseases: We leverage our connections with textile companies and medical supply manufacturers around the world to quickly procure masks, gloves, protective gear and other medical supplies that are essential for infection control from areas in both Japan and abroad. ■ Sales of disaster prevention-related products: Japan is forced to share the same space as earthquakes, typhoons, torrential rains and other natural disasters. Securing private spaces is especially important in evacuation centers in the event of a disaster, especially during the COVID-19 pandemic. A variety of products for emergency evacuations, including partition tents, can be used to solve these issues. ■ Manufacturing iron and steel products: We manufacture manholes, checkered plates, dumbbells and other iron and steel products. We are capable of handling small lots at low prices and arranging imports/exports. ■ Promoting medical tourism: In recent years, an increasing number of wealthy visitors from overseas have traveled to Japan to take advantage of the country’s advanced medical services and health checks. We are committed to ensuring the smooth implementation of medical tourism. ■ Introducing products from Central Asia to the Japanese market ■ Introducing Japanese products and services to overseas markets, with special focus on Central Asian markets and neighboring countries ■ Proposing water businesses that offer benefits for health.
City-to-City Collaboration Project between the Special Capital Region of Jakarta and Kawasaki City	Kawasaki City and Nippon Koei have been engaged in activities since fiscal 2009 to realize the creation of a decarbonized society in the Special Capital Region of Jakarta in Indonesia under the Ministry of the Environment’s program on “City-to-City Collaboration for Zero-Carbon Society”. Activities focus on the following five priority areas: green building, green industry, clean energy, waste management, and low-carbon urban transport. Since last fiscal year, we have also promoted collaboration in the area of “green recovery” from the COVID-19 pandemic. If you are interested in Jakarta or Indonesia, or you are a company with technology that can contribute to green recovery, please stop by our booth. We look forward to your participation in this project.

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## Contributing to Sustainable Societies

City-to-City Collaboration Project between Riau Province Region and Kawasaki City	Kawasaki City and Nippon Koei have been working with local governments in Riau Province on the island of Sumatra in Indonesia (Pekanbaru City and Rokan Hulu Regency) since fiscal 2019 under the Ministry of the Environment's program on "City-to-City Collaboration for Zero-Carbon Society". This program aims to form an economy and society that is in balance with the environment built upon the region's key palm oil industry and to create a zero-carbon city by 2050. We will introduce our city-to-city cooperation activities that have contributed to the formation of an economy and society that is in balance with the environment and a zero-carbon city, both themes at this exhibition, as well as our studies on the development of a JCM project. Please feel free to contact us if you are interested in business development in Riau Province.
The Kawasaki Youth Conference	The Kawasaki Youth Conference (Kawawaki!) is a network of young people 25 and under who are taking action throughout Kawasaki City under the slogan of "connecting, being connected, and creating the future and Kawasaki". The goal of this group is to create a better community by connecting young people in Kawasaki, as well as youth with their hometown. Since its launch in April 2021, the group has promoted and organized a variety of projects and events in collaboration with companies, civic groups and the local government in a wide variety of fields, including the environment, education, food, and city development. Bringing together a number of young people who are active in the city, Kawawaka! has about 80 members as of September 2021, ranging from first-year high school students to young people employed in local companies.
KITZ Corporation	Celebrating its 70th anniversary, KITZ is a total manufacturer of fluid control equipment, with a focus on valves. We are a global company with a diverse lineup of products, 18 offices around the world and 12 brands. We are committed to reducing our environmental impact through the development and sales of products to realize carbon neutrality. KITZ offers a variety of solutions to build hydrogen supply chains. We developed the world's first ultra-high pressure ball valve for hydrogen stations that went on the market in 2012. Since then, we have developed valves for all aspects of hydrogen energy production, transportation/storage, and use, in addition to the development and sales of hydrogen station package units. KITZ will continue to offer reliable solutions using the technology and knowledge we have developed over the years.
Graphtec Corporation	For many years since first opening our doors, Graphtec has provided products and services designed to meet the needs and expectations of a diverse set of customers through our two primary businesses: the measurement business, a niche market in the industry, and computer peripheral equipment for business use. With dramatic changes in the business environment around us, there has been strong demand for solution-oriented businesses, which focus on solving problems from the customer's perspective, rather than simply providing products and services, the business model followed by companies in the past. We have made the transformation from analog recordings in the measurement business to data loggers using wireless and analysis application linkages, and offer demand technologies from newly added group companies to reduce CO2 emissions to create a decarbonized society, and are taking action as a company to achieve the SDGs. In order to respond quickly and proactively to major changes in market needs, all of us share the AI Holdings Group's corporate philosophy that "everything starts from trust and sincerity as we create values that are recognized by people and society". We aim to grow as an even more trusted company by developing closer relationships with our customers and offering leading business models that provide satisfaction to our customers.
KUREHA ECOLOGY MANAGEMENT CO.,LTD.	Kureha Ecology Management contributes to global environmental conservation through the collection, transportation and intermediate treatment of industrial waste, as well as the provision of comprehensive engineering services for environmental facilities. <Introduction of Kureha Ecology Management> Decontamination and treatment of POPs (low-concentration PCBs, PFOS), support for the disposal of underground and disaster-related waste, power generation using waste heat generated from waste incineration. * Delivery of GASTAK (treatment facility for exhaust gas and recovery of VOC (Volatile Gas Compounds) contained in exhaust gas from production facilities. Recognized as a Low CO2 Kawasaki Brand in 2018. We play a role in the creation of a recycling-oriented society through the proper treatment of diversified waste and the effective use of limited resources, such as energy.

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## Contributing to Sustainable Societies

CTI Engineering International Co., Ltd	CTI Engineering International is a development consulting company providing technical consulting services mainly in developing countries. Founded in 1999 as a group company of CTI Engineering, Japan's first construction consultant, we have implemented a total of 800 projects in 100 countries around the world. We provide a full range of consulting services in project implementation from the upstream to the downstream, and spanning surveys, planning and design to construction supervision and post-evaluation related to infrastructure development. In addition to infrastructure-related development, we are also involved in implementing soft-based projects with the aim of building capacity and transferring technology.
JAPAN CONSERVATION ENGINEERS & CO.,LTD.	Established in 1966, Japan Conservation Engineers has earnestly dealt with the natural environment for the past 55 years, mainly in the fields of construction consulting to prevent disasters, such as surveying, design, and restoration work at slope failure sites on mountainsides. We offer services and products that look to the future of agriculture and forestry by making full use of our unique technologies, including environmentally-friendly materials and construction methods that contribute to disaster-resilient forestry.
BRAIN : The Bio-oriented Technology Research Advancement Institution	NARO (National Agriculture and Food Research Organization) provides support for research and development on agriculture, forestry, fisheries and food industries by private companies, universities and public research institutions with the provision of research funds through open recruitment. At this exhibition, NARO will present an overview of contract-based research funding provided by the center and the outcomes of research projects that have been conducted over the years.
Sojitz Corporation	Sojitz, a general trading company, is engaged in a wide range of businesses in various countries and regions around the world. We aim to create sustainable value in each of our business areas in light of megatrends and are working to establish recycling businesses with the aim of creating a resource-recycling society in the materials and circular economy fields, in particular. At this exhibition, we will introduce the following two points from our activities: (1) Recycled resource circulation platform (Business partner: Recotech): This platform connects companies that want to utilize recyclable resources in a stable manner with companies that discharge recyclable resources in order to achieve an advanced recycling system for recyclable resources, such as plastics, and to create a decarbonized society, and (2) IT equipment lifecycle management (Business partner: TES-AMM Japan): This initiative provides reuse and recycling services for IT equipment and lithium-ion batteries, which are expected to increase in the future, as well as proper disposal services for the information contained in this equipment.
Dai-1-Pipe Co.,Ltd.	Dai-1-Pipe's DaiPlastWood is a highly-functional, high-strength and durable recycled plastic that is weather and chemical resistant. Using our original technology, we are able to manufacture large recycled plastic products that, like steel products, are massive and heavy. We also use our advanced molding and forming techniques to create the shapes and designs that our customers need. DaiPlastWood has been used over the years as an alternative to concrete and wood because it does not chip or crack, and is lightweight. With the advancing shift to a recycling-oriented society, we are contributing to the reducing of industrial waste and CO2 emissions through the manufacturing of recycled plastic products.

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## Contributing to Sustainable Societies

Tierraponica Inc.	<p>Tierraponica is committed to promoting advanced agricultural technology with the aim of realizing a society that can continue to develop sustainably. The agricultural sector today is facing a number of problems in forming a sustainable society, such as production systems that are dependent on chemical fertilizers produced by the petrochemical industry, and a large amount of food waste at consumer sites.</p> <p>A member of the bio-venture Chitose Group, Tierraponica's mission is to contribute to the realization of a recycling-oriented society that will continue to develop in a sustainable manner. They aim to accomplish this through the production of liquid fertilizer from locally-available organic liquid waste and the production of vegetables with the reduced use of chemical fertilizers by maximizing the activity of microorganisms (The above organic hydroponics system was developed by NARO.)</p> <p>In comparison with conventional hydroponics, vegetables grown using organic hydroponics systems tend to be richer in flavor with a higher aromatic content, which makes it possible to improve the quality of produce and develop brand products by reducing the use of chemical fertilizers.</p> <p>We are currently conducting research with the Kawasaki Environment Research Institute as we believe that this technology can help reduce nitrous oxide, a global warming gas emitted during conventional wastewater treatment processes as a result of denitrification. Please feel free to contact us if you are interested in learning more about the effective utilization of waste liquid derived from organic materials or the production of high value-added vegetables.</p>
TOA CORPORATION	<p>Toa Corporation was founded in 1908 when it submitted a plan to reclaim nearly 5 million square meters of land at sea level in the Tsurumi and Kawasaki areas. Starting out as a marine civil engineering company, we later developed into a general construction company that also engaged in land civil engineering and building projects, expanding our playing field from Japan out into the wide world. We have contributed to the development of various infrastructure, such as ports and harbors around the world over the years. We will continue our efforts to help achieve the SDGs by providing solutions to local issues with our advanced technological capabilities developed over many years in Japan and throughout the world, and developing technologies to meet needs in diverse environmental fields.</p>
TOKYO KEIKI INC.	<p>Tokyo Keiki provides support for preventing river disasters and managing water resources by measuring flow rates and water levels. Our clamp-on ultrasonic flowmeter can measure flow rates through pipes with the installation of a sensor from outside the pipe. Flow rates can be measured without suspending water supply because there is no need to cut or reconfigure pipes. This flowmeter can be used for both small and large pipes, with adaptable diameters ranging from 13 to 6,000 mm. Some of our sensors are IP67/68 certified, which allows them to be used to measure flow rates even when immersed in water. Our non-contact radar level gauge can also measure water and liquid levels by transmitting radar pulses and capturing echoes from the liquid surface. This gauge can be actively used in measuring water levels in rivers and dams, as well as liquid levels in tanks at food and pharmaceutical plants. It has a maximum measurement range of 30 m with an accuracy of <math>\pm 2</math> mm. One of the best features of this gauge is its tracking rate of <math>\pm 2</math> m/sec, which enables it to capture and output fluctuations in liquid levels at 2 m per second.</p>
TEPCO Power Grid, Incorporated (TEPCO Power Grid) Kawasaki Branch Office	<p>&lt;TEPCO's Role in Society&gt;</p> <p>TEPCO is responsible for about one-third of Japan's electricity supply.</p> <p>Delivering electricity to the Tokyo metropolitan area, the center of Japan's economy, TEPCO supplies about one-third of Japan's electricity.</p> <p>TEPCO offers a world-class level of stability in terms of the number and duration of power outages per customer.</p> <p>We are able to maintain this world-class stability in terms of both the number of outages per year (0.07 times/year in 2014) and duration (4 minutes/year in 2014) because of our highly-reliable facilities and advanced technology.</p>

# 8. List of Exhibitors

## Contributing to Sustainable Societies

TOYOROZAI CO.,LTD.	Toyorozai was founded in 1961 as Toyorozai Kougyousyo. Our Industrial Furnace Business unit builds integrated systems for industrial furnaces that span design, construction and maintenance with reliable technology. The Incinerator Business unit aims to contribute to society by constructing incinerators that can detoxify toxic substances emitted when combustible waste is incinerated. With our motto of "eco- and human-friendly design", the Wood and Bricks Business unit aims to build cities as artistic spaces by effectively using resources and recyclable materials. We have a branch office in Laos with four overseas units for importing lumber and other products. We will introduce each of these units at this exhibition.
Nanatsubaki Inc.	At Nanatsubaki, we sell Z-CURE®, a UV-C deep ultraviolet germicidal lamp. This revolutionary indoor air circulation sterilization system uses UV-C lamps that are registered with UNIDO (United Nations Industrial Development Organization) with the world's highest class of germicidal power. These germicidal lamps use electrodeless, UV-C lamps that have longer service lives and stronger luminescence intensity than LED-type or straight tube-type UV lamps. The powerful indoor air circulation-type, UV-C germicidal system using the 120-W, UV-C 254 lamp has a long life of 50,000 hours and a three-year warranty. The Z-CURE® series also includes an extensive variety of models, such as the jet fan, stand, duct, air conditioner, and water sterilization types. Powerful electrodeless germicidal lamps are used in all models to quickly inactivate a variety of viruses, such as COVID-19 (including mutations) and the influenza virus, bacteria that cause food poisoning such as O-157 and staphylococcus, and black mold. Three types of output are available: 60W, 120W and 250W, which allows the lamps to be used in a variety of situations. Please visit the Nanatsubaki site at <a href="https://7tsubaki.com">https://7tsubaki.com</a> or contact Mizuno at <a href="mailto:m.mizuno@7tsubaki.com">m.mizuno@7tsubaki.com</a> for details. Thank you for your cooperation.
Japan Environmental Sanitation Center	Since its founding in 1954, the Japan Environmental Sanitation Center (JESC) has worked together with engineers in various fields to develop technology both in Japan and overseas, focusing on providing technical support for administrative policies related to sanitation and environmental issues, training human resources, and disseminating information to and raising awareness of governments and the public. The center aims to create a sustainable, livable society by improving the living environment.
NIHON GENRYO Co., Ltd.	Since its establishment in 1939, NIHON GENRYO has supported Japanese water supplies as a leading manufacturer of filter media. Utilizing the technological capabilities that we have been refining for many years, we have developed "SIPHON Washing technology" that eliminates the need for filter replacement. We have won numerous awards for providing products not only to water purification plants nationwide but also to the private sector for their contribution to cost and the environment. The role that NIHON GENRYO should work in the future is to deliver "water that can be drunk with peace of mind" to people in countries and regions that cannot be solved by wide-scale water supplies like centralization alone. As the first step, we have developed a device that can be moved by downsizing the water treatment device, which had been the common sense until then. With that mobility, we have built up a track record in de-centralized small-scale water supplies in Japan and overseas and in the field of disaster recovery support. This activity will be focused on together with the SDGs activities as the "Water Planet Project". Through the "manufacturing" that we have cultivated so far, we want to deliver shining water of life to children born in the future and to people living anywhere. That is the unchanging wish of us.
NIPPON CHUTETSUKAN K.K.	Nippon Chutetsukan is part of the JFE Group and supports lifelines. Our main products include ductile iron pipes for water supply, polyethylene pipes for gas, and iron covers for manholes. We also work with FRACTA to develop services for diagnostic technologies for closed pipelines using AI. We will introduce two of our products, "Auxerre: Thrust transfer band for sheath pipe jacking methods" and "AI pipe diagnosis systems", at this exhibition.

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## Contributing to Sustainable Societies

Nippon Basic Co., Ltd.	Nippon Basic develops portable, high-functioning water purification systems and seawater desalination systems. The high-performance water purification system is capable of producing potable water from rivers, ponds, lakes, pools, and water used to fight fires. The seawater desalination system produces potable water from seawater or water containing salt. A primary feature of our products is that we have condensed equipment that is on the same level as water purification or seawater desalination plants into a compact size, which makes it possible to move equipment to water sources. A second feature of our products is the use of manual power or gasoline-powered engines to operate the pumps that pump up water, which allows the system to be used during power outages or in areas that are off-grid. In Japan, our systems have been introduced in municipalities, medical institutions, schools, local communities, and apartment management associations, mainly as a provision against suspended water supply caused by natural disasters. Our products are being used in other countries as a means of securing clean and safe water in daily life in countries and regions where water conditions are poor, in cooperation with JICA and NPOs that work around the world. Our products are listed as technologies that aim to curb climate change; in 2021, the Ministry of Foreign Affairs of Japan adopted our proposal for the use of our technologies as an effective product package for a decarbonized society, and we were also included in the Ministry of Economy, Trade and Industry's Climate Change Adaptation Good Practices.
Fujiks Co., Ltd	<ol style="list-style-type: none"> <li>1. Pipe Cleaning Plus, general high-pressure cleaning, sterilization and deodorizing</li> <li>2. Sales of disinfecting and deodorizing water: Pets (deodorizing odors from excrement, removal of germs), exercise (deodorizing and sanitizing equipment that cannot be washed, sanitizing and cleaning shared equipment), smoking areas (removal of odor of cigarette smoke from smokers' clothing by spraying near entrances and exits)</li> <li>3. Analysis of feed ingredients: Analysis targets...Feed (including imported grains, fishmeal, other ingredients), pet food, eco-feed (feed produced from food residue)Analysis items...Five primary components (water content, crude protein, crude fat, crude fiber, ash), calcium, phosphorus, salt, etc. Total fiber (hemicellulose, cellulose, lignin, etc.)</li> </ol>
HORIUCHI Co.,Ltd	Unlike conventional harmful UV germicidal lamps, Horiuchi's CCFL antibacterial light has no effect on the human body! We use CCFL technology and our own original coating technology to sterilize and deodorize spaces while saving energy equivalent to LED lighting. The results of an evaluation by an international accrediting organization indicated that our lights can inactivate and suppress the COVID-19 virus that has yet to be contained, as well as the influenza and noroviruses that emerge each season. Our lights are being considered for use as a sanitary measure in kitchens and toilets in homes, as well as restaurants, hotels and other hospitality-related facilities, and food processing, schools, and medical, nursing and welfare facilities.
Yamaha Motor Co., Ltd.	Yamaha Motor was established in July 1955 when the motorcycle division was spun off from Nippon Gakki (now Yamaha Corporation). In the 1980s, when the families of expatriate employees working at a motorcycle manufacturing plant in Indonesia complained that the tap water was brown and smelled like iron, we developed our own home water purification system to purify tap water. In 2010, we began to sell and operate a prototype of the current system locally on a trial basis. Since then, we have developed the Yamaha Clean Water System, which has been introduced throughout Asia and Africa. This system is an improved water purification system for villages in developing countries based on the "slow sand filtration system" used in many parts of the world. It is mainly used in areas around the world where people have difficulty accessing safe water. By using surface water from rivers and lakes as raw water, the YCW-008A can supply 8,000 liters of purified water a day (water for approximately 2,000 people). We will be able to contribute to the achievement of SDG6, "Ensure availability and sustainable management of water and sanitation for all" through this initiative.
Union Co., Ltd.	Union is developing UNI-PELE, an eco-friendly resin (bio-plastic), in order to help protect the global environment. UNI-PELE is produced from natural organic waste materials, so it generates less toxic gas and CO2 when burned (40% reduction), and also has antibacterial properties. We are also engaged in manufacturing household products, such as tableware, using UNI-PELE as a raw material.

# 8. List of Exhibitors

## Technologies for the New Normal Manufacturing, AI and IoT Technologies for Carbon Neutral

AHT JAPAN JSC	<p>AHT Japan is an IT company established in April 2021 as a Japanese subsidiary after 14 years in Vietnam. We focus on using the latest technology and strengthening our language skills every day in order to provide our customers with accessible and stable systems. We are also focusing on enhancing our knowledge and environmental measures. We have solutions that can solve our customers problems, so please stop by and see us.</p>
ECO CORPORATION	<p>Eco Corporation provides sales support, disseminates and publicizes information, and develops plans specifically for the waste industry. The services we offer include website production and management, production of pamphlets and designs for various types of printed materials, video production, and the construction of a variety of systems.</p> <ul style="list-style-type: none"> <li>· Virtual factory tour: Visit a factory online without having to actually go there. This system offers users a 360° view of sites, almost as if you are actually there on location. Images such as factory flow diagrams and permit details can also be included, as well as videos of machines in operation. Factory tours require a great deal of preparation and effort, and today, also require infection control measures to be in place for COVID-19. Our virtual factory tour can be used to show factories to users without requiring them to actually visit the site and without disrupting operations. In addition to using this software for factory tours, it can also be used as a sales or educational tool or recruiting material. Virtual tours can be used for waste treatment facilities, as well as for a manufacturer’s production plants. Please feel free to contact us for more information.</li> </ul>
MTA ALLOY CO., LTD	<p>MTA alloys are new iron and copper alloys that have been successfully mass-produced for the very first time in history. MTA alloys may just be the strongest copper alloys in the history of humankind, as it uses the familiar elements of iron and copper to produce properties that are similar to those of copper alloys commonly found around the world. Copper prices continue to soar. Our alloys are simply produced from iron and copper and are extremely useful as substitutes for rare metals and high-grade copper alloys, as well as for solving the problem of the brittleness of copper alloys and reducing costs. We hope that you will be able to learn more about MTA alloys at this exhibition that will help you develop your own. First, copper and copper alloys are used in a variety of industries, but heat resistance and strength pose problems. MTA alloys can be produced by mixing any amount of copper with iron or iron with copper. For example, more iron or more copper will result in completely different physical properties, such as thermal conductivity or conductivity properties. The common factor is that the melting point is high at all ratios, so heat resistance will be higher. In addition, any ratio of iron to copper will have an effect on the strength of the iron, which will also increase strength. MTA alloys are also attracting a great deal of attention as a substitute material for beryllium copper, phosphor bronze, titanium copper and copper graphite due to its properties. For example, MTA4060 is a copper alloy with a ratio of 40% iron to 60% copper that is being examined as an alternative to copper tungsten, which is used as an electrode for diemilling electric discharge machining. In addition, MTA9100 and MTA7030 are in the spotlight as alternative materials to high/low beryllium copper for use in electrodes, molds and chill vents. The use of the copper alloy metal powder in MTA9100 for metal 3D modeling is also rare in the industry. Copper alloys that had until now been impossible to form have become a reality, and we have started to conduct studies on co-applications for complex electrodes, heat sinks, and precision molds, for example. There may be a time in the very near future when metal 3D printers will be used to mass produce products. There are now six metals that are said to be essential for electrification, which goes together as a set with decarbonization (rare metals, nickel, copper, tungsten and cobalt). However, these metals have seen supply chain risks due to risks in trading countries, so the development of alternative materials is being encouraged around the world to ensure stable supply. MTA alloys, safe and reliable alloys of iron and copper, can be used as alternative materials, and will play a significant role in achieving carbon neutrality and the SDGs. As copper prices soar to all-time highs, the prices of copper alloys are also rising. Capable of solving the issue of heat resistance with copper alloys, cutting costs and even contributing to achieving carbon neutrality, MTA alloys aim to become indispensable in the EV/5G age. Be sure to try it out.</p>

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## Technologies for the New Normal Manufacturing, AI and IoT Technologies for Carbon Neutral

LSI Technology CO., LTD.	LSI Technology proposes the best environments and costs to our customers by optimally separating hardware and software design. We can handle conventional circuit design as well as more complex developments using the newest technologies.
Otsuka Techno Corporation	Since Otsuka Techno was founded, we have produced and supplied plastic parts for the infusion of pharmaceuticals under our corporate philosophy of “creating new value to satisfy our customers and contribute to society from a global perspective”. Since then, we have moved into the field of molding and machining precision products using our experience and the technology we have developed in the pharmaceutical field, and are currently developing medical and precision products as the pillars of our business. In recent years, we have taken up the challenge of considering biomass raw materials, ease of disposal and recycling, and weight reduction by substituting metal materials as part of our efforts to reduce environmental impacts, and are continuing research and development to propose high value-added products for the market that maximize the potential of plastic. As globalization continues to move forward, we will strive to meet the needs of our customers through collaboration with affiliated subsidiaries in China and Vietnam, as well as Japan. We will continue to pursue that which only can be done by Otsuka Techno to contribute to society through manufacturing.
Claire Corporation	Claire is a manufacturing company in #Kawasaki City that mainly processes metals. We manufacture precision parts by processing materials in response to a wide range of requests from both inside and outside Kawasaki. We are able to quickly respond to orders for aluminum, copper, iron, SUS and resin materials, starting with orders for one prototype to the mass production of over 1,000 units. Feel free to stop by.
Keio university Faculty of Science and Technology Department of Applied Chemistry Nishi Laboratory	The West Lab is conducting research on information and communication infrastructure for smart cities and communities and on smart city operating systems. Hiroaki Nishi has served as a technical advisor, board member, and representative for smart city organizations in Japan and overseas, and is promoting the standardization of techniques developed in IEEE and other organizations. For example, we are building a mechanism to provide new services at edge nodes midway in networks that are not completely visible from the terminal, called network transparent add-ons, and are building a mechanism to add functions, expand security, change protocols, and add services, which is difficult to do with small terminals, such as IoT. With the addition of information anonymization technologies, we can also offer mechanisms to ensure the safety of information exchanged in communities by automatically anonymizing data when attempts are made to remove it from the community. This is the only technology that is capable of managing the distribution of information itself, meaning that it is the only technology able to build information and communication infrastructure that can comply with new personal information protection regulations, such as GDPR.
KOEI DREAMWORKS Co.Ltd.	Dream Works was founded in November 2019. We develop and provide technology for the pipe exploration robots, Haikan-kun® and Ototori-kun®, and operate the facility industry platform, “Figure out how to do what you want to do®”, with Haikan-kun® at the core. Haikan-kun® is the world’s first commodity-level pipe exploration robot. Haikan-kun® is available in several different variations from Type I to III, including snake-, high-pressure cleaning-, flowing water-, and rotating shaft-type models. Each can be used according to the size of the pipe diameter and pipe conditions. In addition to providing a visual of the inside of pipes, Haikan-kun® also has a mapping function that uses recordings and gyroscopic sensors, which makes it possible to visualize pipes that previously were inaccessible and to create piping drawings of old buildings. Ototori-kun® is an algorithm-based leak detection system that enables even people with little experience to conduct surveys on leaks, which was performed by experienced engineers and technicians in the past. Data can also be stored in the cloud, and reports can be simply created using cloud data. We provide a variety of content to companies on the platform instead of renting it out. We hope that Haikan-kun® and Ototori-kun® can be used to enhance the equipment and facility industry.
KOMINE MUSEN DENKI CO., LTD	Komine Musen Denki is a company based in Kawasaki that manufactures coaxial conductors, optical cables, multi-GNSS antennas and other products. As a Japan-based manufacturer, we aim to provide high-quality and customized products.



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## Technologies for the New Normal Manufacturing, AI and IoT Technologies for Carbon Neutral

SAWAYA CO.,LTD.	Sawaya has developed an own original roof thermal insulation system called "Cool Roof" as a new environmental protection measure. We are now expanding our business nationwide with the Cool Roof, a thermal insulation system that leverages the power of the natural world for all kinds of buildings, such as factories, warehouses and stores.
SANTEC CO.,LTD	SANTEC CO.,LTD offers highly-complex products, such as defense and aerospace parts at low costs by using equipment with advanced processing technologies, single-worker operation of multiple pieces of equipment, and automatic nighttime operations. In recent years, we have expanded our business segment from manufacturing communication-related components to defense and aerospace parts. We will meet the expectations of our customers with top-quality manufacturing created from traditional craftsmanship and the latest processing technologies.
JFE Steel Corporation	JFE Steel is a steel manufacturer (blast furnace manufacturer) that owns blast furnaces and carries out integrated production from iron ore to finished products. We are one of the world's top steel producers, providing steel products to meet the needs of our customers and society on a global scale, based on our corporate philosophy of "Contributing to society with the world's most innovative technology". We are also helping to reduce environmental impacts from our products as well as our manufacturing processes through the construction of cutting-edge, environmentally-friendly, steel production processes and the development of high-functioning steel materials.
New Energy and Industrial Technology Development Organization (NEDO)	NEDO is a national research and development agency that creates innovation by promoting the technological development necessary for the realization of a sustainable society. With a mission of addressing energy and global environmental problems and enhancing industrial technology, we formulate technology strategies, plan and propose projects, and, as part of project management, promote the development of technology by building, operating, evaluating and allocating funding for systems that combine the capabilities of industry, academia and government. We aim to solve social issues as an innovation accelerator by developing and demonstrating high-risk innovative technologies and promoting the social implementation of the results.
ZENK Co.,Ltd.	Zenk is a group of professionals that carries out daily operations by maximizing the use of information technology under the watchwords of sincerity, accuracy, and results. We focus on initiatives related to the use of opensource software and propose better solutions from the customer's perspective, unbound by preconceived notions and ideas.
SOFTAGENCY CO., LTD.	<p>Are you still going to sites to check things out? You can see that information on your smartphone. Visualize the latest data on any measurement device with SuguloT.</p> <p>The safe, fast and easy handling of data and meticulous support to meet the needs of each and every customer are two things that have always been important to Soft Agency, the company that created the cloud service trusted by over 4,000 companies. By taking advantage of our development and implementation capabilities, we will work together with our customers to create the world's newest and only IoT.</p> <p>The SuguloT 4-20 can connect measurement instruments on up to four channels with 4-20 mA external output, and can graphically display measurement data all at once. In addition to conventional functions, such as alert emails, we have added a variety of new functions to meet the needs of our customers, such as remote system modification and support with remote control, 24-hour operations with solar power, acquisition of data in milliseconds with real-time processing, displaying data on maps with functions linked to map information, and power supply to measuring instruments, so that we can make products available to people in industries that had, in the past, been considered ill-suited for IoT.</p>

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<p>NISHIHARA RIKOH CORPORATION</p>	<p>Nishihara Rikoh is a surface treatment manufacturer that conducts plating processes on metal materials that will be used for next-generation batteries.</p> <p>We propose technologies that can be used as parts to carry electrical currents and reduce the weight of parts at the same time, which was not possible with conventional processing, by applying surface treatment to aluminum materials for external terminals (busbars, etc.) related to vehicle batteries. At this time, we are developing surface treatment technologies for metal foil in the order of dozens of <math>\mu\text{m}</math> so they can be used inside next-generation batteries.</p> <p>Nishihara Rikoh will create battery technologies for today and the future together with our customers to achieve carbon neutrality, so please do visit.</p> <p>You can also check out our plating technologies for electronic parts, which we have developed for 70 years, on our website. Please feel free to contact us.</p>
<p>Value Solution Inc.</p>	<p>Solving the problem of electronic devices "freezing" that shake the very foundations of social infrastructure! Information communication highly controls many of today's IT devices, so a large number of problems can occur if information communication is interrupted.</p> <p>However, as IT devices become more sophisticated and new functions are added every day, it is difficult to avoid the phenomenon of devices freezing up, which increases the costs for corporations to manage IT devices.</p> <p>Our product, NON Freeze, was developed as a dedicated terminal to prevent IT devices from freezing.</p> <p>As information and communication grows ever more important with IoT and 5G, we will continue to contribute to society by ensuring that IT equipment is always available.</p>
<p>Electronic Functional Macromolecules Group, National Institute for Materials Science</p>	<p>The Electronic Functional Macromolecules Group at NIMS is working on the development of electrochromic light-control glass using metallo-supramolecular polymers. This light-control glass allows gradations of shaded areas to be changed. It is possible to enjoy the scenery outside while blocking out the light by freely changing the shaded areas.</p>

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## Technologies for the New Normal Manufacturing, AI and IoT Technologies for Carbon Neutral

<p>Institute of Microchemical Technology Co., Ltd.</p>	<p>The Institute of Microchemical Technology was established as a venture company in 2001 from The University of Tokyo and is a pioneer in microchemical chip technology (micro fluidics). Microchemistry technology integrates chemical processes such as mixing, reactions, separation, extraction, synthesis and detection in channels of a few ten to a few hundred micrometers created like semiconductor integrated circuits on a several-centimeter squared glass substrate (microchemical chip).</p> <p>Freely integrating chemical processes that have been carried out in laboratories and factories into minute sections within the channels of a microchemical chip makes it possible to use energy and space much more efficiently. This is expected to help promote the innovative evolution of science and technology and contribute to the further development of industries and the continuous maintenance of the global environment.</p> <p>With its mission to contribute to society with microchemistry, the Institute of Microchemical Technology is developing the following areas.</p> <ul style="list-style-type: none"> <li>• Design, manufacture and sale of microchemical chips</li> <li>• Design, manufacture and sale of peripheral accessories for microchemical chips</li> <li>• Design, manufacture and sale of peripheral equipment for macrochemical experiments (pumps, valves, sensors, etc.)</li> <li>• Study, design, and prototype (production) of systematized equipment</li> </ul>
<p>MARUYASU KIKAI CO., LTD.</p>	<p>Maruyasu Kikai is based in Okaya City, one of the municipalities around Lake Suwa around the center of Nagano Prefecture. We are engaged in the manufacture and sale of conveyance and labor-saving machinery and other automated equipment. Our products have been favorably received by many of our customers over the years, regardless of the industry, including industrial, food, medical/pharmaceutical, and semiconductor-related industries. We offer a diverse lineup of products for logistics and conveyance, and can customize our products to meet our customers' needs. One of our typical models, the Less Veyor, is the world's first roller conveyor utilizing the principle of attraction and repulsion of magnets, and has been a preferred product for many of our customers since its release. The Clip Veyor is our original drive system, one that achieves powerful operation by inserting a conveyor belt between a caterpillar-like unit with built-in magnets. This feature makes it difficult for the belt to come loose even if it is slippery and is also easy to remove when cleaning the conveyor. We provide total support to our customers from planning to design, manufacturing, installation, and after-sales service, through efficient communication between each section to achieve high-quality, short delivery times, and low costs, starting by listening to what our customers have to say. As of April 30, 2021, our company has been registered as a Nagano Prefecture SDGs Company, and we are actively working to achieve the goals through our corporate activities.</p>
<p>RIKAZAI CO., LTD.</p>	<p>Rikazai is a manufacturing and sales company that uses cold rolling for various types of metal foil. Our strength is in producing thin foil, so much so that there is a saying in the industry that "Rikazai is the go-to for thin foil". Since much of the work is done by hand, we can be meticulous and particular about quality and thinness, although we cannot manufacture large products. We deliver products to research and development departments in various industries in both Japan and around the world. Since our foils can be used to produce thinner, smaller and lighter products than ever before, they are being used in studies on products for electronic devices and next-generation fields.</p>

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## Support Organizations and Industrial/Academic/Government Collaboration

AIDEM Inc.	<p>We are a comprehensive human resources services company that was established for help-wanted advertisement business and we welcomed our 52nd term in September of this year. Thus far, we have transaction results for approximately 250,000 companies mainly in the Kanto area and the Kansai area, and we have been contributing to expansion of local companies from aspects of human resources (creation of employment). In today's Japan, the working-age population, which consists of the main workers, has entered a one-way decline, while on the other hand there is a trend every year of an increase of foreign human resources who work in Japan. Amid such circumstances, Aidem Global is developing personnel placement services that match companies that want to hire foreigners with foreigners who want to work in Japan. We provide full support for employment of foreigners, for everything from high-level human resources such as engineers to specific skills. Staff members from Vietnam and from Myanmar who are dedicated to foreigners gather candidates and introduce human resources who match customers' hiring requirements. We are aiming for a win-win situation for companies and foreigners, based on our slogan of "We provide the thrill of working in Japan."</p> <p>★ "We're having problems because we cannot accept technical intern trainees from overseas because of the COVID-19 crisis."          ★ "We want to consider hiring foreign human resources in the future, but we don't know what we should do."          If you have concerns such as these, by all means please visit our company's online booth.</p>
Initiative for Development of Entrepreneurship in Asia	<p>☆ Becoming an innovation force that will lead SDGs and high-level foreign human resources who are full of entrepreneurial spirit! Based on our experience thus far of having trained entrepreneurs (350 people) who match foreigners with Japan's small and medium-sized companies, and through the fifteen years since our establishment, Initiative for Development of Entrepreneurship in Asia (hereinafter referred to as IDEA) is connecting human resources discovered in regions such as Asia and handling reform of the management of small and medium-sized companies. In regions such as Asia, there are many high-level human resources that Japanese small and medium-sized companies, and of course large companies, want to acquire. In this era in which the working-age population is declining, why don't you use IDEA's study sessions and matching to meet and acquire outstanding human resources who will lead the industrial sector? It will also become easy to conduct overseas expansion through which different cultures will be encountered. Through things such as seminars, study sessions, and inspection tours, IDEA members learn from actual examples in which many high-level foreign human resources have been acquired and sufficient strengths are being cultivated. Something for which we are currently proceeding with preparations is the "Foreign Entrepreneur Championship" (tentative name). We plan to connect with companies that want to acquire outstanding foreign human resources. Previous seminars have been held by obtaining cooperation by various cities such as Kawasaki, Yokohama, and Niigata and by other parties such as chambers of commerce.</p>
APPLIED TECHNOLOGY CO.,LTD.	<p>From the two aspects of work for craftsmanship support and solution services that utilize CAD and GIS and engineering services work targeting environmental fields, disaster prevention and disaster mitigation fields, and construction ICT and maintenance and management fields, Applied Technology Co., Ltd. provides technology, products, and services that can contribute to task resolution at customers' sites. At this technical exhibition, we will introduce a "technology verification test related to water quality improvement in closed water areas such as lakes and marshes," which is something that we are working on as joint research with Kawasaki Environment Research Institute.</p>
Kawasaki Green Innovation Cluster (GIC)	<p>Kawasaki Green Innovation Cluster (GIC) is a network that is working on environmental improvement through collaboration by industry, academia, the government, and the private sector and that is aiming for formation of a new society by promoting industrial development and international contribution. With the aim of technological innovation in the environmental field, we are also utilizing nationally subsidized projects such as JCM and striving for (1) creation of business opportunities, (2) improvement of the ability to develop technology, (3) development of sustained environmental industry by the private sector, and (4) strengthening of international competitiveness. Environmental and energy fields such as the atmosphere, water quality, waste, and energy conservation, telecommunications, consultants, and financial institutions, etc. are participating, and we are also currently recruiting new members.</p>

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Kawasaki City Global Environment and Sustainability Office	<p>With the aim of bringing about a carbon-free society in 2050, Kawasaki City formulated the decarbonization strategy “Kawasaki Zero-Carbon Challenge 2050.” We have positioned “promotion of green innovation developed in Kawasaki,” which utilizes accumulation of Kawasaki City’s strengths and characteristics of environmental technology and environmental industry, as a pillar of our decarbonization strategy, and we will further promote cooperation and collaboration with various entities.</p> <p>We introduce the following three things, as our main initiatives.</p> <ul style="list-style-type: none"> <li>◆ Low-CO2 Kawasaki brand: We will authorize things such as products and technologies that will contribute to reduction of the amount of greenhouse gas emissions.</li> <li>◆ Kawasaki mechanism certification system: We will certify the amount of reduction of greenhouse gases.</li> <li>◆ Research meetings aimed at creation of green innovation matters: With a theme of environmental tasks for which resolution is difficult by the government alone, Kawasaki City and business operators are cooperating and holding meetings for the purpose of continuously creating matters related to “green innovation.”</li> </ul>
Kawasaki Environment Research Institute	<p>Kawasaki Environment Research Institute is conducting constant monitoring and component analysis of the atmosphere in Kawasaki and water quality analysis of rivers, etc., and in order to resolve Kawasaki’s environmental tasks, we are collaborating with domestic and foreign cities and research institutions and with companies in Kawasaki that have outstanding environmental technology and conducting comprehensive research of the environment that utilizes the field of Kawasaki. In order to resolve environmental problems that have become more diverse and complicated in recent years, it has become important to broadly cooperate with not only government policies but also with individual entities in industry, academia, the government, and the private sector and to take initiatives while utilizing things such as the most recent knowledge, advanced technology, and networks that each entity possesses. Kawasaki City is promoting joint research conducted by collaboration by industry, academia, the government, and the private sector in relation to environmental technology and giving research results back to local society, as well as conducting collaborative projects by industry, academia, the government, and the private sector for the purpose of striving to accumulate environmental technology and environmental research.</p>
Kawasaki city Overseas Business Support center, KOBS	<p>Kawasaki City will support overseas expansion by Kawasaki companies!</p> <p>We will handle, free of charge, Kawasaki City’s small and medium-sized companies’ consultations related to overseas business in general.</p> <p>Expert coordinators who have an abundance of overseas business experience will provide support in accordance with each company’s business stage, such as development of sales channels in other countries, overseas expansion, and task resolution after overseas expansion.</p> <p>We will conduct conscientious handling even for parties conducting overseas transactions for the first time or parties considering conducting overseas transactions in the future, so please feel free to make an inquiry.</p>
Waterworks Bureau, City of Kawasaki	<p>Kawasaki City Waterworks Bureau is promoting business operation that takes the environment into consideration. We supply tap water and industrial water to individual households and companies in Kawasaki and also treat sewage that is emitted and then discharge it into the ocean and rivers. However, in that treatment process, a large amount of electric power is consumed and greenhouse gases and waste are also generated. For that reason, we are taking initiatives for introduction of energy-saving equipment, effective utilization of renewable energy, and effective use of resources, contributing to preservation of the global environment, and aiming to create a good water environment.</p> <p>* In July of this year, Kawasaki Waterworks welcomed the 100th year since it started water supply.</p>

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Credit Guarantee Corporation of Kawasaki-Shi	Credit Guarantee Corporation of Kawasaki-shi is a public organization that was established for the purpose of striving to facilitate financing for small and medium-sized companies. When a small or medium-sized company procures business funds from a financial institution, we support financing through a credit guarantee. In addition, we contribute to development and invigoration of the local economy by supporting companies' growth and development through support for small and medium-sized companies such as support for establishment and support for management. Since our establishment in 1948 (year 23 of the Showa Era), we have continued to collaborate with financial institutions and worked to provide even better support for small and medium-sized companies, based on the experience and trust that we have cultivated. If you have any concerns about business funds or management, please feel free to consult us.
The Kawasaki Shinkin Bank	Kawasaki Shinkin Bank has established a management policy of "carrying out our social responsibilities and public mission as a cooperative structured financial institution that moves forward together with the local area and contributing to development of local society," and we are putting efforts into supporting the main business of small and medium-sized companies. In addition to company support by our sales offices and headquarters staff, we also provide support in collaboration with support organizations and external experts. We are aiming to contribute to invigoration of the local economy by energizing local small and medium-sized companies and to become this city's best supporter. Please feel free to consult us.
Kawasaki Zero Emission Industrial Park	Kawasaki Zero-Emission Industrial Complex is promoting business as part of a resource-recycling type of city development that aims for sustained development for the future. We are an industrial complex that strives to suppress, to the extent possible, emissions and waste that are generated by business activities and to bring about cyclical use by reusing and recycling such waste, and we aim to minimize the environmental burden. At this exhibition, we are introducing companies inside the complex, as a factory tour.
Kawasaki Water Business Network	For the enhancement of the global water environment through water business, a platform "Kawasaki Water Business Network" (KaWaBiz NET) was established in Aug. 2012 between private enterprises which have water-related technologies / products, and the City of Kawasaki which has technologies and expertise of water / sewerage management, in cooperation with relevant ministries and organizations. KaWaBiz NET consists of 84 members and 13 cooperators at present and is engaged in the activities with members to enhance water environment through successful water business mainly in Asian region where City of Kawasaki has relationship.
Environmental Restoration and Conservation Agency	<p>Environmental Restoration and Conservation Agency (ERCA) is an independent administrative agency under the jurisdiction of the Ministry of the Environment. As a policy implementation organization in the environmental field, we are working for creation and preservation of a good environment, and by utilizing the abilities and knowledge that ERCA possesses for environmental problems for which measures on a global scale will be necessary and responding to various domestic and foreign requests, we aim to become an organization that will truly bear a part for environmental measures.</p> <p>Main work content</p> <ul style="list-style-type: none"> <li>○ Compensation for and prevention of pollution and health damage</li> <li>○ Support for NGOs, NPOs, and students conducting environmental preservation activities</li> <li>○ Relief for people who have incurred health damage because of asbestos</li> <li>○ Allocation of Environment Research and Technology Development Funds, etc.</li> </ul> <p>At this Kawasaki International Eco-Tech Fair, we will participate in environmental visitation classes in addition to exhibiting a booth. We are streaming scenes of classes that have been conducted at elementary schools concerning SDGs and environmental problems, so please be sure to watch them.</p>

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Committee for synergy in Keihin industrial complex	Initiatives such as streamlining of business activities and energy conservation at Keihin Rinkaibu Kombinat are already being promoted at the individual company level and therefore, for further development from now on, initiatives by collaboration between companies that surpass barriers of companies and types of industry are necessary. We consist of thirteen companies in diverse types of industry such as oil refining, petrochemistry, steel, chemistry, cement, electric power, and gas, we have set a goal of “building Keihin Smart Kombinat,” and we are aiming to be a kombinat that can transmit to the world a production model that has a balance between industry and the environment, a favorable cycle, and a small environmental burden.
Yokohama Center, Japan International Cooperation Agency	JICA is conducting “business to support small and medium-sized companies and SDGs business” that aims to resolve tasks faced by developing countries by utilizing the outstanding technology, products, and ideas possessed by companies, have companies conduct overseas expansion, and thereby also invigorate Japan’s economy. In addition, the projects conducted by JICA Yokohama are not only support for small and medium-sized companies and collaborative projects with the private sector, but also things that cover a broad range of fields, such as projects to accept trainees from developing countries (including youth training), projects involving citizen participation and cooperation, projects to support immigrants and people of Japanese descent, and volunteer projects.
Liaison Center for Creation of Industry & Environment	Liaison Center for Creation of Industry & Environment was established in August 2004 through the voluntary efforts of thirteen companies consisting mainly of companies located in the Kawasaki coastal area. With the Keihin coastal area as our main field, we are making use of platform functions for collaboration with industry, the government, academia, and citizens and promoting activities by aiming to contribute to invigoration of industry and resolution of environmental and energy problems. The Keihin coastal area is a prominent industrial area that has been a driving force of Japan’s economic growth. Many manufacturing companies that take the environment into consideration have accumulated in this area, and it continues to be a special area that will be a driving force of Japan’s sustainable development in this century as well. In order to promote a favorable cycle for the environment and the economy, a cycle that will consider, execute, and modify optimal solutions in light of the situation at the relevant time is important. For such a cycle, it is essential that the government, companies, universities, and citizens bear roles and put collaborative initiatives into practice. As our name suggests, we are aiming to create industry and an environment through cooperative activities. We hope to be able to bear a role for matching the needs of companies and the government and to make contributions to make it possible for the Keihin coastal area to develop as a smart kombinat. We want to contribute to realization of initiatives by which companies will become invigorated and the environment will become better, and for which citizens will encourage those activities and the initiatives will be noticed by the world.
Senshu University Institute of Information Science	We will introduce results from a data science research project from Senshu University Institute of Information Science. Based on the principle of “development of social intelligence,” Senshu University is conducting education and research through collaboration with companies in Kawasaki City and industry, the government, and academia. The Institute of Information Science is located on the Ikuta Campus, which is a base for transmission of knowledge, and it is an organization that aims to make the results of information science research at Senshu University broadly known by the public.
SOHGO SECURITY SERVICES CO.,LTD. (ALSOK)	In addition to security business that has security systems, security by stationed guards, and security transportation work at its core, we are developing integrated management and disaster-prevention work for buildings and condominiums, etc. and nursing care work. We are striving to provide safety and peace of mind to people 24 hours a day, 365 days a year. As for overseas activities, we have local corporations in Southeast Asia’s Thailand, Vietnam, Indonesia, Shanghai, India, and Myanmar and an affiliated company in Taiwan, and we are providing a wide range of services, focusing mainly on security services, to Japanese companies that are expanding into local areas and to non-Japanese companies.

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Daegu-Gyeongbuk Free Economic Zone (DGFEZ)	<p>My name is Che and I am from South Korea's DGFEZ. I am a local public servant who works for Donghae City, which is a local government of South Korea.</p> <p>We conduct support work for things such as approval and authorization and government support from a series of matters such as provision of the information that is necessary until a location in South Korea is decided, local observation tours, and translation and interpretation for each scene until a factory's start of construction, completion, and operation, and seven Japanese companies, such as Osaka's Company D and Company T, Tokyo's Company N and Company D, and Ishikawa's Company N, are located in DGFEZ. I am very happy to be able to participate in "Kawasaki International Eco-Tech Fair 2021 Online" on this occasion, and I hope to make connections with many people.</p> <p>The Daegu Gyeongbuk area is an area in which expansion by many Japanese companies, including Toray and AGC, has been active since the 1970s, and management activities are being conducted now as well. There are also many local companies that are seeking collaboration with Japanese companies in diverse fields. I will do my best to handle requests by companies that are interested in South Korea, so please feel free to talk to me. Thank you in advance.</p>
Hydraulics Laboratory Department of Civil Engineering, Tokyo University of Science	<p>Using mainly disaster prevention and disaster mitigation for rivers and the environment as research targets, Hydraulics Laboratory Department of Civil Engineering, Tokyo University of Science is conducting research with the aims of clarifying actual situations related to those things, establishing prediction methods, and resolving problems. Recent major themes are ① clarification of the actual situation of heavy rain disasters and proposal of damage mitigation measures, and ② clarification of the actual situation of plastic trash movement in basin areas. When such research is executed, we measure things ourselves through activities such as onsite observation and conduct numerical simulation on computers in order to reenact and predict phenomena that are occurring at such sites. In particular, we are placing importance on having laboratory students go to sites as much as possible, experience natural damage and environmental problems that are occurring in natural water areas first hand, sometimes create environmental measuring devices themselves, and conduct monitoring themselves. In addition, because it is necessary to conduct many forms of difficult work for actual onsite investigation, there are also cases in which all of the members of the laboratory conduct joint observation and investigation.</p>
Japan External Trade Organization	<p>Japan External Trade Organization (JETRO) is an independent administrative agency that was established in 2003. We are fully utilizing our network of 74 overseas offices and 48 domestic offices and taking initiatives such as provision of overseas business information, support for overseas expansion by midsize, small, and medium-sized companies, and promotion of investment in Japan. We have put together various menus in accordance with the desires of companies aiming for overseas business success, such as "We want to obtain information about foreign economies and trade," "We want to learn about practical business of trade investment," "We want to cultivate overseas transaction partners," and "We want to conduct overseas expansion." Our Yokohama office is providing support for overseas expansion by all companies in Kanagawa Prefecture. Trade investment consultation advisors who have an abundance of experience handle, whenever necessary, consultations related to overseas business, such as local regulations and practical business of trade, and customs duties. In addition, our concierge will provide optimal information in accordance with companies' needs and work closely with experts to support companies' overseas business. Please feel free to first make a consultation.</p>



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<p>KANTO BRANCH OF JAPAN PATENT ATTORNEYS ASSOCIATION Exhibitor's Profile</p>	<p>Japan Patent Attorneys Association (JPAA) is a special private corporation that is based on the Patent Attorney Act and in which all patent attorneys (approximately 12,000 people), who are intellectual property experts, are obligated to join. Since establishment of the patent attorney system, 120 years have passed. We conduct maintenance of the dignity of member patent attorneys, registration of members, contact, and supervision, as well as improvement of members' abilities through training and research about and diffusion of the intellectual property rights system, and we are regularly conducting provision of information related to intellectual property and free-of-charge consultations for people who want to obtain intellectual property and people who are interested in intellectual property. Japan Patent Attorneys Association Kanto Branch is a local organization of the Japan Patent Attorneys Association that consists of patent attorneys in Tokyo and seven prefectures of the Kanto region (Tokyo, Kanagawa Prefecture, Chiba Prefecture, Saitama Prefecture, Ibaraki Prefecture, Gunma Prefecture, Tochigi Prefecture, and Yamanashi Prefecture). We are working to develop the industrial economy of the Kanto region through public relations, diffusion, and support activities for the intellectual property rights system. Please feel free to use us as a familiar partner for intellectual property.</p>
<p>Hong Kong Trade Development Council</p>	<p>Hong Kong Trade Development Council (HKTDC) is a government-affiliated organization that was established in 1966 for the purpose of transmitting Hong Kong's business platform to various places throughout the world. Through our 50 bases throughout the world, we are providing business opportunities to Hong Kong companies, particularly small and medium-sized companies, and providing support so that those companies can search for partners in various places throughout the world. We are also conducting exhibition business, and hosting approximately forty international exhibitions and international conferences per year. Although it is still a situation in which it is difficult to travel from Japan to Hong Kong because of the effects of COVID-19 infection, our exhibitions will be held both onsite and as online exhibitions. It will be possible to conduct business discussions with overseas suppliers and buyers while remaining in Japan. This time, we will introduce fairs that we are holding in relation to electronics, the environment, and lighting. Many startup companies are also participating, and there are opportunities in Hong Kong to meet companies that could not be met in Japan. We hope that Japanese companies that are interested in overseas expansion of their own products online will utilize us!</p>