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Sponsor Exhibitor List

No.	Sponsor Company	Exhibition No.	Class
1	KYOCERA Corporation	D-1	Diamond
TBD			
2	Paycle Inc. & UPCX-Platforms PTE. LTD.	D-2	Diamond

Paycle Inc. is engaged in blockchain, fintech, AI, and quantum-resistant cryptography research. We aim to combine these technologies to provide sustainable services addressing environmental and economic challenges. We maximize this knowledge, technology, and experience to contribute to a more robust global economy through secure and efficient environmentally sound solutions. We strive to bridge the gap between technological development and environmental protection to deliver long-term value for businesses and society.

UPCX-Platforms PTE. LTD. has a mission to provide payment systems that meet the evolving needs of society, making transactions more enjoyable and exciting. To this end, we are developing "UPCX," an open-source payment system that leverages high-speed blockchain technology.

UPCX achieves performance and scalability comparable to credit cards and mobile payments, enabling quick transactions. By delivering a user experience that is on par with existing payment solutions, users can utilize blockchain technology unconsciously. Based on such blockchain and applications that offer high-speed transactions and user experiences at the level of existing financial systems, a diverse ecosystem is formed, providing a payment system that anyone can easily use.

Furthermore, UPCX-Platforms PTE. LTD. will develop a high-performance blockchain to process vast amounts of information belonging to an unspecified large number of users, originating from IoT and sensing devices, leveraging the experience and knowledge accumulated during the development of UPCX. When you handle such massive data, it is necessary to improve software aspects like algorithms and explore eco-friendly methods suitable for the coming era in infrastructure development, such as reducing power consumption.

UPCX-Platforms PTE. LTD. intends to engage in various initiatives, including developing advanced data processing methods that combine both software and hardware aspects, by collaborating not only within our company but also with prominent external partners.

3	NTT Advanced Technology Corporation	D-3	Diamond

NTT Advanced Technology Corporation continues to take on the challenge of creating new value to solve your various issues.
Here we would like to introduce you following our several solutions related to renewable energy and energy harvesting.
These solutions are expected to contribute carbon neutrality.

a. SQPV (Solar Quartz Photovoltaic) glass
SQPV glass is one of a future glass allows light to pass through and generates electricity. Thermal barrier effect is also expected.

b. Energy management system in a specific area (ENEPILOT)
ENEPILOT aggregates renewable energy resources and energy storage operated in specific areas such as municipalities, and contributes to local production for local consumption of energy by controlling the renewable energy resources to maximize their output power.

Portable lithium-ion batteries are also used for an example of energy storage.

c. Hydrogen fuel cell *reference exhibition

An Alkaline Fuel Cell which is rugged, reliable, and resilient, leverages hydrogen to output 48 V direct current power of long-duration, zero-emission.

4	TMEIC Corporation	D-4	Diamond

TBD

5	NTT DOCOMO, INC.	D-6	Diamond

NTT DOCOMO Group (DOCOMO Group) announced its “Net-Zero by 2040” plan for achieving Net-Zero carbon emissions across the company's entire supply chain by 2040. The plan builds on DOCOMO Group's existing 2030 Carbon Neutrality Declaration, which commits the company to effectively reducing greenhouse gas emissions from its business operations to Net-Zero by 2030. NTT DOCOMO, INC. (DOCOMO) has been developing DOCOMO Energy Management System (DOCOMO EMS) to achieve Net-Zero.

DOCOMO constructs green base stations with solar panels to reduce greenhouse gas emissions from base stations, which account for about 70% of its total power consumption. DOCOMO EMS controls batteries to use renewable energy effectively.

Also, DOCOMO implements Demand Response (DR) with batteries installed in base stations and DOCOMO shops for disaster use. DOCOMO EMS controls batteries optimally to meet the DR amount required from utilities.

DOCOMO conducts battery management for schools, applying the above technology outside the company. DOCOMO EMS monitors the batteries to ensure their use in disasters and control them to reduce electricity cost.

DOCOMO tries to apply its power monitoring and control technology to households as well. It is developing algorithms to reduce household electricity cost through scheduled operation of electric vehicles, storage batteries, and appliances in price-based DR, which sets flexible electricity usage charges depending on market demands. Also, DOCOMO studies how to encourage users to save power, using an agent that analyzes their lifestyle data and offering tailored energy-saving tips easy to execute.

DOCOMO predicts power demand to manage energy considering the future. It uses past power demand data, weather condition data, and human flow data based on location information acquired from smartphones.

DOCOMO thus aims to realize optimal energy management for a whole society, consolidating energy resources within and outside the company with its technology.

6	Kyowakiden Industry Co., Ltd	G-1	Gold

Title: "Nanostep®, Real-Time Simulation for SiC/GaN Devices with 1.5 MHz Switching Frequency."

The high switching frequencies of converters with GaN and SiC components pose a challenge for real-time simulators used for hardware-in-the-loop testing of control systems. To overcome this issue, Plexim has developed Nanostep®. The new Nanostep® solver enables real-time simulations on the RT Box with step sizes as low as 4ns, making it the perfect technology for WBG converters.

7	TBD	G-2	Gold
8	Fudo-Giken Industry Co., Ltd & PAL Corporation	G-3	Gold

Delivering a sustainable future from Nagasaki, we add a new value to the future of wind-power generation.

Fudo-giken industry can respond to various needs with XR technology.

- iNADA WIND: used for DX of Operation and Maintenance
  iNADA WIND is maintenance optimization system for wind turbine, in this system the inspection is done on the smartphone and a report is prepared automatically.
- Scenery Simulator: Simulate a Wind Farm Scene using VR and AR Technology
  The scene of wind farm is easily changed by view point, time, season, weather and layout of wind turbine.
- Chokai: Blade defect Detection Technology using Acoustic Signals
  This technology is focusing on the 1N component of time-frequency analysis of acoustic signal. And the technology is implemented to smartphone. Blade defect is detected by just two taps.

Pal corporation can provide the services of structural design and analysis for various structures as structural consulting engineers. And for spread of renewable energy we have engaged in the services of wind condition analysis and wind condition measurement as well as structural design and analysis of tower and foundation.

Based on these experiences and development of technologies, we provide the following services for supporting the construction of wind power generation facilities. We try to optimize the tower and foundation for reduction of the construction costs. The wind resource is calculated and the best site of wind power generation facility is selected by analysis and measurement of wind speeds and directions. In addition, we provide the services of environmental impact assessments such as noise level and shadow flicker, and obtaining Wind Farm Certification.

9	DENSO TEN Limited	G-4	Gold

DENSO TEN is a global comprehensive car electronics manufacturer. Up until now, we have been involved in products that improve the value of cars, such as car navigation systems, drive recorders, and electronic control units for hybrid systems.

Currently, we are expanding our business in two areas: the "HMI Solutions Business" and the "Electronics and Electrification Business." In the HMI Solutions Business, we aim to achieve a human-friendly HMI optimized for each individual by utilizing in-vehicle edge AI and information communication technology to analyze the driver's condition and the surrounding environment of the vehicle. Furthermore, by collaborating with advanced driver assistance systems (ADAS), we contribute to maximizing the safety, comfort, and excitement of drivers and passengers.

Next is the Electronics and Electrification Business. For next-generation vehicles, we provide core products (ECUs) utilizing control system technology, aiming to contribute to the realization of carbon neutrality and safe, secure mobility.

Through our in-vehicle electronic devices and services that are friendly to people and the environment, DENSO TEN contributes to society in the areas of "environment" and "security" We continue to challenge ourselves towards the realization of a carbon-neutral society and a society where everyone can enjoy safe and secure mobility without traffic accidents.

During the conference period, we will be exhibiting in-vehicle multimedia devices, in-vehicle sound system, home audio systems, and more.

10	Shindengen Electric Manufacturing Co., Ltd.	B-11	Bronze

Shindengen will showcase our newly developed Bidirectional Power Conditioner for V2G: EVS010T200A in upcoming ICRERA. This product can supply power from EVs to three-phase loads.

Shindengen is one of the few manufacturers making all three core technologies necessary for power supplies: power semiconductor manufacturing, circuit design technology, and system mounting technology for in-vehicle electrical components, and other products. These core technologies combine to streamline and optimize the entire power supply manufacturing process, making Shindengen unparalleled in the industry.

Shindengen's 14 domestic and 16 international bases make us a truly global company, with overseas sales accounting for more than 60% of total sales. We boast the world's top share of the regulator market for motorcycles, which is mainly popular in Asia. We also have a top share of bridge diodes, one of the most-used power semiconductors in home appliances.

Throughout our history, we have listened closely to our customers, tried to foresee what's coming in society, and played a significant role in cultivating expertise in our field. This has always been the spirit of our company. Today and tomorrow, we will continue striving to integrate leading technology and our extensive experience into our company spirit so that we can deliver optimum value.

By rising to the challenge of realizing ever greater energy efficiency, we will help protect the natural environment. Through ever better products and systems, we will contribute to the growth of society and create a future that solves problems and benefits people.

True innovation happens when the power supplies become smaller and lighter, improving power conversion efficiency and reducing the environmental impact in the process. The sooner we innovate power supplies, the sooner we realize the dream products of the future.

11	Yokogawa Test & Measurement Corporation	B-12	Bronze

Yokogawa Test & Measurement is committed to the development and manufacturing of high-precision measuring instruments for accurately measuring power conversion efficiency in the generation, transmission, distribution, and storage of electrical energy, as well as for monitoring the behavior of power conversion devices. These efforts are aimed at contributing to the realization of a sustainable society. In the field of renewable energy, improving the efficiency of inverters that convert DC to AC while minimizing power loss is crucial.

We will exhibit the DLM5000HD high-resolution oscilloscope to evaluate whether inverters are switching at the correct timing. This model features 8-channel input and 12-bit high resolution in a single unit. If needed, the number of channels can be expanded by precisely synchronizing two units.

To contribute to improving power conversion efficiency through precise power measurement, we will also exhibit the WT5000, a 7-channel input high-precision power analyzer that achieves world-class measurement accuracy. It allows for the easy connection of current sensors for measuring large currents with a single dedicated cable. Additionally, the WT5000 can continuously output waveform data input to the device to a PC at up to 2MS/s.

The DL950 ScopeCorder, an integrated measuring instrument, captures and records large voltages from low to 1000V, drive currents, rotation angles, vibration, strain, and temperature

simultaneously. It is optimal for multi-channel measurements and capturing transient phenomena in motors and inverters that were previously difficult to observe.

By combining the WT5000, the DL950, and the IS8000 software, it is possible to precisely synchronize and display reliable power measurement values, high-speed voltage/current waveforms, and motor torque waveforms as integrated measurement data, enabling comprehensive analysis.

Yokogawa Test & Measurement serves as a bridge to a better future through advanced measurement technologies, supporting the realization of a sustainable society from the perspective of measurement as an essential infrastructure.

12	Modelcore laboratories LTD.	B-13	Bronze

Modelcore Laboratories solves power electronics problems using modeling technology. We provide detailed modeling and analysis of power circuits using SPICE (LTspice, Qspice), control design using the MATLAB/Simulink and software implementation using model-based technology, and analysis using the Scideam and the PLECS. At the exhibition booth, The totem-pole PFC model-based development kit and noise analysis by the Scideam will be demonstrated. Please feel free to stop by our booth.

13	Smart Energy Laboratory Co,.Ltd.	B-14	Bronze

Scideam is a Japanese high-speed circuit simulator specialized in power generation and power electronics development. With over 30 years of experience in computational algorithms, along with a newly developed circuit editor and waveform viewer, Scideam offers a comfortable simulation environment. Scideam has been trusted by switching power supply manufacturers, power electronics manufacturers, home appliance manufacturers, and automobile manufacturers in Japan.

Key Features:

- Fast and Stable Analysis: Automatically resolves both analysis time and convergence issues.
- Loss Analysis: Fully automated and fast, capable of analyzing losses in any component.
- Motor Control: Achieve high-speed motor system simulations with Scideam.

At our booth, we will be demonstrating Scideam, including its free version, and showcasing our product lineup.
Experience the speed and stability of our advanced analysis firsthand!

14	NTT DevIces Cross Technologies Corporation	B-15	Bronze

TBD

15	D-Solution Co., Ltd.	B-16	Bronze

We are D-sol. D-Sol is an IT and paper solutions company. The founder of D-sol is from Nagasaki Prefecture and we are really looking forward to participating in this event. This time, we would like to introduce two D-sol's carbon dioxide reduction proposals.

The first is a "plastic-free" proposal. We made a new file folder with paper without polypropylene. By replacing polypropylene with paper, CO2 will be significantly reduced. First of all, CO2 emissions in the process of manufacturing paper materials to files have been reduced to one-third. In addition, paper is a wooden product. Trees fix CO2 during their growth process. The material of the paper is pulp. The material of the pulp is wood. We

can say that CO2 is reduced in the manufacturing process of paper materials.

As a result of the above process, CO2 emissions can be reduced in both the paper manufacturing process and the paper material manufacturing process.

These paper files are available in the market. If polypropylene files are replaced by paper files, it will have a huge effect on reducing CO2. We launched this product four years ago and have sold 2.3 million copies so far. The reduction of CO2 in production per piece is 85.8 (g-CO2). When calculated, it was reduced by 450 million (t-CO2).

The second is "Agricultural Initiatives." We aim for IT agriculture. Here, we evaluate CO2 positively as nutrient.

We are focusing on photosynthesis. Good photosynthesis improves the quality of crops.

In order to maximize the effect of plant photosynthesis, we monitor the plant environment in order to determine the amount and timing of CO2input.

Monitoring is carried out on "CO2 concentration, air temperature, soil temperature, humidity, underground moisture content, and crop growth status". Each is measured in real time and observed off-site.

Input CO2 in the right amount at the right time.

So far, we have cooperated in experiments at our farm in Nagasaki Prefecture. When CO2 was efficiently input, strawberry yields increased by 20%. It has been found that right CO2 input is effective for agriculture.

However, due to the environment of the Goto Islands, the ways to obtain CO2are limited.

Currently, the cheapest way is to burn oil. This method is classic and has a high environmental impact. However, technological advances allow for a variety of procurement methods. In the future, we will consider various methods such as combustion facilities in the island and methods for extracting CO2 with the newest technology.

We at D-sol use paper to reduce CO2 emission. In addition, CO2will be utilized in agriculture using IT.

Thank you very much.

16	Plexim GmbH	B-17	Bronze

Title : "Nanostep®, Real-Time Simulation for SiC/GaN Devices with 1.5 MHz Switching Frequency."

The high switching frequencies of converters with GaN and SiC components pose a challenge for real-time simulators used for hardware-in-the-loop testing of control systems. To overcome this issue, Plexim has developed Nanostep®. The new Nanostep® solver enables real-time simulations on the RT Box with step sizes as low as 4ns, making it the perfect technology for WBG converters.

17	EAST JAPAN RAILWAY COMPANY (JR-East)	B-18	Bronze

East Japan Railway Company (JR East), the largest railway company in Japan, has set a long-term environmental goal called “Zero Carbon Challenge 2050” in 2020. The goal is set at a 50% reduction in CO2 emissions by 2030 compared to 2013, and net zero CO2 emissions by 2050. While electric railways have environmental advantages, we think that railway companies need to make more efforts to contribute to decarbonized society, so we have set that goal. In ICRERA 2024, we will introduce about summary of “Zero Carbon Challenge 2050” in Poster and industry session, for example, including renewable energy such as windfarm and solar power plant, introducing energy saving rolling stock, energy saving driving, and so on. Furthermore, we also introduce about hydrogen hybrid train, called “HYBARI”. Some of the railway company in Japan are also interested in using hydrogen as environmental measures, and “HYBARI” is one of main measure related to hydrogen.

There is one more highlight this year. TAKANAWA GATEWAY CITY will partially open in March 2025. Takanawa gateway station is located in center of the city, so the city and the station are so closely related. TAKANAWA GATEWAY CITY will conduct various demonstrations and experiments to create innovations that solve social and environmental issues with the aim of creating a spiritually rich lifestyle 100 years from now. In ICRERA 2024, we will also introduce about “TAKANAWA GATEWAY CITY” focused on summary of city and environmental measures by poster and industry session.

Please let it know and we hope to see you in Nagasaki, thank you.

18	ROHM Co., Ltd.	B-21	Bronze

ROHM is a manufacturer of semiconductors and electronic components headquartered in Kyoto, a city of traditional culture. Through its global development and sales network, ROHM supplies LSIs, power devices, discrete devices, and other electronic components.

We have always put quality first and have always strived to contribute to the advancement of culture through a consistent supply, under all circumstances, of high- quality products in large volumes to the global market. Based on this philosophy, we have refined our electronics technology with an indefatigable spirit of challenge.

ROHM was founded in 1958 as a manufacturer of small resistor products, entered the semiconductor business in 1967, and became the first Japanese company to establish a presence in Silicon Valley in 1971. In 2000, ROHM began research and development of SiC, and in 2010, became the firstest company in the world to begin mass production of SiC products. With a frontier spirit that does not fear failure and solid technical capabilities, ROHM has produced a series of products that lead the industries and has grown into a comprehensive semiconductor manufacturer.

Today's society faces various social issues. ROHM is also placing importance on activities that lead to the resolution of social issues. Especially now, with the urgent issue of realizing a carbon neutral society, expectations are rising for ROHM's semiconductors and electronic components. ROHM supports innovative manufacturing with an Integrated Device Manufacturing system (IDM) that manages everything from material procurement to assembly and packaging within the group companies, accelerating the pursuit of energy saving, miniaturization, and safety and security. These activities contribute to solving issues for society and our customers.

ROHM's technology and manufacturing continues to evolve even today, based on the company name ROHM, which combines the company's founding product, resistor (R), and its unit Ω (ohm).

19	Potens Semiconductor Corp.	B-23	Bronze

Potens Semiconductor was founded in Taiwan in 2012, designs and sells high-efficiency power semiconductors and ICs. Our products include low to medium-voltage MOSFETs and next-gen GaN/SiC devices, which takes a key role in industrial and automotive sectors globally. Visit us at https://potens-semi.com/

20	Nuvoton Technology Corporation Japan	B-24	Bronze

For 70 years, Nuvoton Technology Corporation Japan(NTCJ) has been addressing the challenges of people’s lives and supporting them with semiconductor technology.

Among these, efforts to combat global warming will become increasingly important in the future, and efforts to realize a carbon-neutral world.

Effective use of renewable energy is a key technology for achieving carbon neutrality, but because renewable energy has large fluctuations in output, its effective use requires coordination with storage systems, etc. In addition, motor control technology for using this

energy effectively will also become important.
NTCJ will contribute to the realization of a carbon-neutral society by developing microcontrollers that are optimal for controlling the power electronics used in the conversion and utilization of this energy.

21	ISAHAYA ELECTRONICS CORPORATION & ICOC	B-25	Bronze

For over 50 years since its establishment in 1973, ISAHAYA ELECTRONICS CORPORATION has focused on creating products that enrich and make people's lives more comfortable through semiconductors and electronic components.

In the power module products, we offer high-performance custom power supplies/inverters, gate drivers, and DC/DC converters, while in the discrete products, we offer diodes, bipolar transistors, MOSFETs, and semi-custom ICs, and we are sequentially expanding our product lineup.

We have discrete products as well as hybrid IC technology and products, and by using these key components we can ultimately provide standard and custom power supplies.

22	Kanadevia Corporation	B-27	Bronze

As of October 1st, 2024, Kanadevia Corporation has just changed its name from Hitachi Zosen Corporation which has been beloved for more than 80 years, going back to 1943. We are committed to the fields of environment and energy as our main business to achieve a sustainable world and are taking on challenges in various fields by the technology of infrastructure, disaster prevention systems and carbon neutrality.
++Contents++
1) Renewable energy storage system
2) Lithium iron phosphate (LiFePO4) battery
3) Battery Management Unit for Lithium iron phosphate battery (BMU)
4) Hydrospring(R) (Hydrogen Generator)

At our Maizuru Works (Kyoto, Japan), we develop and manufacture the Battery Management Units (BMU) equipped with the lithium iron phosphate battery (LFP battery) unit, which is the solution to energy problems. Our LFP battery has the following three features: (1)Long-life, (2)High safety and (3)High-Power discharge. These products are used for renewable energy storage systems, UPS, reefer containers and golf carts. Moreover, regardless of whether the battery capacity is small or large, our products are expected to be used for the various usage such as disaster resilience, off-grid system, supply and demand adjustment and industrial machinery.

HYDROSPRING(R) is an onsite hydrogen generator that electrolyzes water to generate and supply high-purity hydrogen gas. In recent years, hydrogen has been attracting attention as a form of next-generation energy. It is expected to be used as clean energy by combining it with CO2-free electricity such as renewable energy and Power to Gas.

23	TAISEI CORPORATION	B-28	Bronze

Taisei Corporation is one of Japan's major general construction companies. Since its founding in 1873, as a pioneer in the construction industry, the company has been involved in numerous construction projects amid social changes such as Japan's modernization, postwar reconstruction, economic growth, and globalization.

Our company has already been at the forefront of sustainability management aimed at sustainable growth and improved corporate value, and we have set a mission of "contributing to the creation of a resilient society where people can live richly and culturally." Currently, the company is leading the way with technology, such as the implementation of

zero-carbon buildings toward carbon neutrality and the use of digital twins, AI, and remote technologies to solve various social issues.

At this exhibition, we will introduce our technology that is worthy of being shown at the International Conference on Renewable Energy Research and Application. We will be introducing a variety of technologies, including wireless power supply from roads to electric vehicles currently under development, floating foundations for offshore wind power generation, and technologies that will strengthen energy conservation measures for buildings and expand the introduction of renewable energy. We look forward to seeing you there.

24	Kyuden Mirai Energy Co.	B-31	Bronze

Our company was established in July 2014, inheriting the technologies, know how, and frontier spirit related to renewable energy cultivated by the Kyushu Electric Group over more than 100 years.

The Kyushu Electric Group has set the goal of achieving carbon neutrality by 2050 and beyond, striving for carbon negativity, in order to realize the “low carbon and decarbonization of power sources” and “promotion of electrification”.

Therefore, in order to grow the renewable energy business as a core segment of the Kyushu Electric Power Group, we are taking over Kyushu Electric Power's geothermal and hydroelectric power generation business in stages from April 2024 onward to strengthen the business foundation and operating structure. Leveraging our ownership of five major renewable energy sources, we will meet society’s diversifying energy needs and create new value in renewable energy.

As part of this effort, we are working on the Ministry of the Environment's tidal power generation demonstration project in Naru strait as a new attempt, off the coast of Goto City, Nagasaki Prefecture. Naru strait, which has a maximum current velocity potential of over 3 meters per second, has been designated as a national demonstration field. A generator was installed in the 40m seabed area of that Naru strait, and in January 2021, a British generator was adopted for the first commercial scale (500kW) demonstration operation in Japan. In 2023, the existing 500 kW generator was salvaged, and in 2024, it will be converted to a 1,000 kW Class generator and connected to the power grid for demonstration operation.

The understanding and cooperation of the local community is essential for renewable energy to make effective use of local resources. We will continue to take on the challenge of realizing a sustainable society as a responsible energy provider based on our corporate philosophy of “Toward a Bright Future Powered by Nature.”

25	Hitachi, Ltd.	B-32	Bronze

TBD

26	NAGASAKI TOYOPET	D-5	Bronze

Nagasaki Toyopet Co., Ltd. will exhibit Toyota's world-first mass-produced fuel cell vehicle, "MIRAI," at the 13th International Conference on Renewable Energy Research and Applications (ICRERA 2024), organized by IJRER and co-hosted by Nagasaki Institute of Applied Science.

The MIRAI generates electricity through a chemical reaction between hydrogen and oxygen, and this electricity powers the vehicle's motor. As a result, no CO_2 or other emissions from combustion are produced, and the only emission is water. We invite you to experience this environmentally friendly vehicle firsthand.

In addition, we will be showcasing the "MIRAI Cut Model" under the theme "Revealing the Mechanism of MIRAI," which will allow you to see the internal components and devices that are rarely visible. Nagasaki Toyopet, as a company dedicated to solving societal challenges, is committed to contributing to the achievement of the Sustainable Development Goals (SDGs). Our aim is to promote sustainable development and contribute to the realization of

a safe and prosperous community where people, society, and the planet are interconnected.

27	NITTOKU CO., LTD.	E-1	Exhibitor

NITTOKU is the manufacturer of coil-winding machinery that has the largest market share in the industry throughout the world. Thanks to the rapid sales growth in overseas markets, now we have more than 20 overseas branches including factories and a great number of foreign customers worldwide. We have pursued a business model of providing a production system that helps users improve their competitive advantage in the global market. To this end, we offer a system that integrates multiple processes such as winding, handling, assembly, and inspection through a transfer system and that enables high-performance multi-axis synchronous control using our proprietary OS. We must promptly cater to individual users' unique and diverse needs and wants. In doing so, we have not only deep-dived into our existing business domains but also continued to proactively explore peripheral business domains by globally promoting our Blue Lake strategy—a strategy to promote collaboration and co-creation with users and suppliers through open innovation. As a result of such efforts, the Company has expanded its capabilities in the mechatronics business into areas not involving a winding process, such as construction of assembly lines for vehicle-mounted capacitors and modules. In recent years, with the rapid progress of digitalization, devices and tools have become more sophisticated and advanced. In this business, the Company has successfully transformed itself from conventional "production facility manufacturer" to "line builder." This involves providing technologies and ideas to the design and building of overall production systems of users as well as contributing to the production efficiency and quality improvements for the entire process, including the pre- and post-process of winding.

28	Mitsui O.S.K. Lines, Ltd.	E-2	Exhibitor

The sea occupies 71.1% of the earth's surface. It connects countries around the globe and has given rise to economic activities that have become the foundation of humankind's development. The earth's very potential lies in its oceans. Our home is indeed an "ocean planet." If you look at the world from an ocean perspective, you can see a completely different future. As a company that has always moved forward with the sea, Mitsui O.S.K. Lines (MOL) believe its potential more than anyone. As a Group, our mission is to draw forth this immense value shared by humankind and create sustainable growth for societies. Now is the time for us to think and act outside the box. MOL will utilize the knowledge we have gained through shipping to expand the field to social infrastructure companies that originate from the oceans. When opportunity presents itself, we should take full advantage of it. Let's build new hope for tomorrow, together.

29	QTnet, Inc.	E-3	Exhibitor

QTnet, Inc., wholly owned subsidiary of Kyushu Electric Power Co., Inc., has been engaged in network and data center operations as a telecommunications operator in the Kyushu area for over 30 years. This time, we are holding a panel exhibition about our "Renewable Energy Supply Service" provided at our three data centers located in central Fukuoka.

Recently, various efforts are being made nationwide to reduce CO2 emissions towards achieving 46% reduction in greenhouse gases by 2030 (compared to 2013 levels) and carbon neutrality by 2050.

As part of such efforts, our company offers the "Renewable Energy Supply Service" to our data center customers.

By using this service, customers can offset the CO2 emissions produced by their use of the data center.

Specifically, by combining this service with a non-fossil certificate — which certifies the environmental value of electricity generated from renewable energy sources such as solar

and wind — the electricity used at the housing racks or colocation spaces in the data center can also be regarded as "virtually renewable energy."

Additionally, the service addresses RE100, RE Action Declaration for 100% Renewable Energy, and the Act on Promotion of Global Warming Countermeasures, thus contributing to our customers' environmental initiatives.

For more details about this service, please feel free to contact us.