Second Announcement
(Tentative Program)

26th IERE General Meeting and Chubu EPCO–CRIEPI Japan Forum

"Powering Today, Defining the Future"

In-Person Event (Partially online streaming)



Nagoya Castle

Nagoya, Japan
December 1–4, 2026

Organized by Chubu EPCO, CRIEPI and IERE

Message from IERE Chair

I am pleased to invite you to the 26th IERE General Meeting and Chubu EPCO-CRIEPI Japan Forum, which will take place from December 1 to 4, 2026, in Nagoya, Japan. Together with Chubu Electric Power Co., Inc and the Central Research Institute of Electric Power Industry, we will hold the forum under the theme “Powering Today, Defining the Future.”

This theme captures one of the central challenges facing our industry. The power sector must continue to provide reliable and affordable energy every day. At the same time, we need to respond to accelerating decarbonization, changing patterns of supply and demand, aging infrastructure, growing concerns about energy security, and rapid advances in digital technologies.

We cannot choose between operating today’s system and building tomorrow’s. We must do both.

This means building on the assets, knowledge and operational experience already available, while remaining open to new technologies and new ways of working. Continuity and innovation should not be seen as opposing forces. The real task is to bring them together in ways that make our energy systems more sustainable, flexible and resilient.

For this reason, the forum will deliberately move beyond the consideration of individual technologies. A promising technology does not create value in isolation. Its contribution depends on how it interacts with generation, networks, storage, markets, and energy users. We therefore want to examine how different solutions can work together across the entire energy value chain - and where technical, economic or organizational barriers still prevent this.

Technological potential is essential, but it is not sufficient. Successful transformation also requires solutions that can be scaled, that are commercially viable and that can be implemented effectively in real power systems. Research and innovation must ultimately prove their value under operational conditions. This includes reliability, safety, affordability and the ability to integrate with existing infrastructure and processes.

The forum’s technical sessions reflect this practical perspective. They will address the transition from conventional inspection to predictive asset management, the development of more efficient, flexible and resilient power generation and networks, the relationship between energy security and Green Transformation, and the opportunities created by software-driven digitalization. Across these topics, the underlying question will be the same: how can we translate technological progress into solutions that deliver lasting value?

The answers will not be identical everywhere. Countries and regions have different resources, infrastructures, market structures and societal priorities. This is precisely why international exchange matters. By sharing practical experience - not only our successes, but also the obstacles and lessons encountered along the way - we can better understand which approaches are transferable and which need to be adapted to local conditions.

IERE provides a unique platform for this exchange. It brings together utilities, research organizations, technology providers and other experts from across the world. What matters to me is that we use this platform not only to present new ideas, but also to question them constructively, connect them with operational needs and explore opportunities for cooperation.

I encourage experts from IERE member organizations and beyond to contribute their work, practical experience and perspectives to the forum. The presentations, discussions and personal exchanges in Nagoya should help us identify realistic pathways for progress and establish new connections that continue beyond the event itself.

I would like to thank Chubu EPCO and CRIEPI for hosting and organizing this important meeting. Their combination of extensive operational experience and strong research capabilities reflects the central idea of the forum: powering the system of today while working together to define its future.

I look forward to welcoming you to Nagoya and to an open, practical and forward-looking exchange.

Munib AMIN
Chair of IERE
E.ON, Germany



Message from Chubu EPCO

On behalf of Chubu Electric Power Co., Inc., the co-organizer of the 26th IERE General Meeting and the Chubu EPCO–CRIEPI Japan Forum, I would like to extend a warm welcome to all of you for attending this international conference in Nagoya.

First, let me tell you a little about Nagoya.

The Chubu region, where Nagoya is located—connecting Tokyo, Kyoto, and Osaka, Japan's three major cities—is a thriving manufacturing hub. It is home to companies such as Toyota Motor Corporation in the automotive industry and Kawasaki Heavy Industries and Mitsubishi Heavy Industries in the aircraft industry, and is connected to the world through the Port of Nagoya, which handles the largest volume of cargo in Japan.

In addition, among historical figures, the three great warlords*1−ODA Nobunaga, TOYOTOMI Hideyoshi, and TOKUGAWA Ieyasu−who laid the foundation for modern Japan from the Sengoku period through the Edo period, all hailed from this Chubu region.

In terms of sightseeing, in addition to Nagoya Castle*2, Ise Grand Shrine*3, Takayama*4, and Shirakawa-go*5, Kyoto is just one stop away by Shinkansen, making it extremely convenient. This means you can use Nagoya as a base to visit a variety of fascinating destinations.

Now, these days, with a series of international conflicts and unprecedented natural disasters, the global situation has become increasingly turbulent, and ensuring a stable energy supply and a reliable electricity supply has become a top priority.
Under these circumstances, the electric power industry is called upon to undergo a transformation that allows it to respond flexibly while building on its traditional strengths.

As Japan as a whole works toward carbon neutrality, efforts such as the proactive adoption of cutting-edge technologies and the construction of new data centers in response to advancing digitalization will continue to accelerate in the future.

This trend is the same worldwide, and electricity supply is playing an increasingly important role.

To ensure the sustainable development of modern society into the future, there are still many research challenges that need to be addressed, including the design, operation, control, and maintenance of power and energy systems; the development, evaluation, and optimization of the underlying technologies; and the implementation of measures that are environmentally friendly.

We hope that this conference, which we are organizing together with all of you, will not only provide an opportunity to learn about various initiatives but also offer valuable insights and help you build professional networks that will benefit your future endeavors.

We look forward to welcoming you from December 1 through 4.

*1 Active from around 1560 to the early 1600s. ODA Nobunaga paved the way for national unification, TOYOTOMI Hideyoshi achieved national unification, and Tokugawa Ieyasu established the Edo Shogunate, which enjoyed 260 years of stability.
https://www.nagoya-info.jp/en/feature/detail/62/

*2 Built by TOKUGAWA Ieyasu.
Famous for its golden orca-shaped ornament and the opulent Honmaru Palace.
https://www.nagoyajo.city.nagoya.jp/en/

*3 It has a history of about 2,000 years as the center of shrines nationwide.
https://www.isejingu.or.jp/en/

*4 As a castle town, it has many historic buildings.
https://www.hida.jp/english/

*5 Famous for its World Heritage-listed gassho-zukuri houses.
https://shirakawa-go.gr.jp/en/

NODA Hidetomo
Senior Managing Executive Officer
Research and Development Division
Chubu EPCO, Japan



Message from CRIEPI

CRIEPI is honored to co-host the 26th IERE General Meeting and Chubu EPCO–CRIEPI Japan Forum, and we sincerely welcome all participants visiting Nagoya, Japan.

The global electric power industry is undergoing significant transformation. The importance of energy and resource security is increasing, while the demand for decarbonization continues to rise. The expansion of renewable energy is fundamentally changing power system characteristics and making system operation more complex. At the same time, on the demand side, rapid growth driven by data centers is progressing, while challenges are emerging in maintaining infrastructure in regions facing declining demand due to population decrease.

It is not easy to foresee what kind of future lies ahead of these changes. However, understanding how challenges are being addressed around the world, as well as the current stage of advanced research and development, provides valuable insights for shaping the future. This forum offers an excellent opportunity for participants to share their expertise and engage in in-depth discussions on these critical issues.

Furthermore, we expect that this forum will promote closer collaboration among engineers from different countries, accelerating research and development and fostering innovations that lead to real-world implementation.

We look forward to meeting you in December and hope that we will share a productive and meaningful time together.

FUJIOKA Naoto
Vice President
Director of Grid Innovation
Research Laboratory
CRIEPI, Japan



“Powering Today, Defining the Future”

About the theme

The power sector is entering a period of profound transformation, driven by accelerating decarbonization, evolving supply-demand dynamics, aging infrastructure, and rapid advances in digital technologies. In this changing environment, it is essential not only to envision the future, but also to build upon the technologies, operational expertise, and infrastructure already in place today.

This Forum will explore how established power systems can be enhanced through innovation to deliver a more sustainable, flexible, and resilient energy future. Rather than viewing continuity and innovation as opposing forces, they must be integrated to create practical, scalable, and lasting value.

Under this theme, discussions will extend beyond individual technologies to examine how diverse solutions can work together across the energy value chain. Through the exchange of global perspectives, best practices, and strategic insights, the Forum aims to identify realistic pathways for progress and inspire the next generation of transformation in the power industry.

Who should attend?

The Forum is intended for experts actively involved in the selected themes, from IERE members and non-members, as well as all those interested in the evolution of the electrical power industry and the technology development and business development opportunities associated to this evolution. Chubu Electric Power Co., Inc (Chubu EPCO), Central Research Institute of Electric Power Industry (CRIEPI) and IERE will invite prominent speakers for keynote speeches.

Schedule Outline:

Tuesday,	December 1, 2026	Welcome Reception
Wednesday,	December 2, 2026	26th IERE General Meeting and Chubu EPCO–CRIEPI Japan Forum
		Official Dinner
Thursday,	December 3, 2026	26th IERE General Meeting and Chubu EPCO–CRIEPI Japan Forum
		Social Event (Optional)
Friday,	December 4, 2026	Technical Tour (Optional)

Outline of Program and Session Themes:

Session structure and speakers may be subject to change according to the submission of contributions.

December 1, 2026

Welcome Reception

December 2, 2026

Opening Session

Opening Address, Welcome Speech

Plenary Session

Keynote Speeches

Technical Session 1: From Inspection to Prediction: Advancing Power Asset Management

Description

Advancements in condition assessment and remaining useful life (RUL) prediction technologies are accelerating the transition from conventional inspection-based maintenance to data-driven predictive maintenance across power assets. This session will highlight the latest developments in asset monitoring and degradation forecasting, while exploring future directions for advanced asset management and optimized maintenance strategies.

Potential topics include:

- Aging asset assessment
- Remaining life evaluation and life extension
- Replacement cycle optimization and forecasting

- Enhancement of maintenance quality and productivity
- Preventive measures against equipment failures
- Reliability improvement and risk mitigation
- …

Technical Session 2: Advancing Power Generation and Networks: Efficiency, Flexibility, and Resilience

Description

With the rapid expansion of renewable energy and evolving electricity demand patterns, there is a growing need to enhance the integrated power system—from generation through transmission and distribution—in terms of efficiency, flexibility, and resilience. This session will showcase the latest technologies and initiatives, including grid-scale battery storage, reduction of transmission and energy conversion losses, optimized asset operation for higher utilization, and measures to strengthen system resilience. Discussions will also explore the future vision and strategic direction of next-generation power networks.

Potential topics include:

- Grid-scale battery storage systems
- Reduction of transmission and energy conversion losses
- Optimized asset operation and higher asset utilization
- Grid flexibility and balancing capability
- Enhanced infrastructure and system resilience
- Smart network operation and control
- …

Official Dinner

December 3, 2026

IERE General Meeting

Report on IERE Activities (November 2025–November2026)

Ongoing Projects and Upcoming Events

Special Lecture

Special Session (Part 1): The Report of IERE Technology Foresight

Special Session (Part 2): Featured Company Overviews, Strategies, and Roadmaps

Technical Session 3: Energy Security and GX: Shaping the Future of Energy

Description

Amid growing geopolitical uncertainty and challenges in securing fuel supplies, ensuring a secure and reliable energy supply has become increasingly important in the transition toward a net-zero society. Centered on GX (Green Transformation), this session will explore next-generation energy systems enabled by the integration of renewable energy, hydrogen, energy storage, electrification, CCUS (Carbon Capture, Utilization and Storage), and other emerging technologies. It will also address key challenges and practical solutions for large-scale deployment and commercialization, while discussing the future vision of a sustainable energy society.

Potential topics include:

- Energy security and security of supply
- Energy mix optimization
- Renewable energy integration
- Energy efficiency and demand-side management
- Hydrogen and ammonia utilization
- Next-generation power generation technologies
- Carbon neutrality and net-zero pathways
- Regional resource circulation and circular economy
- Environmental impact reduction and emissions mitigation
- …

Technical Session 4: Software-Driven Digital Transformation and Value Creation in the Power Sector

Description

Digital transformation (DX), powered by software, data, and intelligent technologies, is advancing operational excellence and creating new value across the power sector. This session will highlight the latest developments in data analytics, business process

transformation, grid and asset optimization, and new service creation through technologies such as AI (Artificial Intelligence) and IoT (Internet of Things). It will also discuss key challenges and future directions for scalable deployment and practical adoption.

Potential topics include:

- AI, IoT, and ICT (Information and Communication Technology)
- Big data analytics
- Digital twin technologies
- EMS (Energy Management System)
- Smart grid platforms and automation
- Robotics and autonomous operations
- Worker safety and field support technologies
- Predictive analytics and decision support
- Cybersecurity for digital infrastructure
- …

Academia Session: Poster Session

Closing Remarks

Social Event (Optional)

Note: The number of participants is limited to 40, and registrations will be accepted on a first-come, first-served basis.

Visit to Chubu Electric Power MIRAI TOWER — a Nationally Designated Important Cultural Property — with dinner featuring seasonal ingredients from Central Japan.

“Welcome to Chubu Electric Power MIRAI TOWER”

This tower was built as the Nagoya TV Tower during Nagoya's post-war reconstruction and urban planning for tourism and to transmit television broadcasting signals and was completed in 1954. At the time, it was the tallest building in the Orient, measuring 180 meters in length, and was nicknamed the "Eiffel Tower of the Orient."

It is the first tower in Japan to be designated as a national tangible cultural property. In 2022, its historical and technological value, becoming the first tower in Japan to be designated as an Important Cultural Property.

In the middle of Nagoya increasingly high-rise buildings, this tower continues to offer breathtaking 360-degree panoramic night view. It was also certified as Japan Night View Heritage based on criteria such as having artistic value, expressing the local characteristics, and having a significant cultural influence on the location.

The tower was relaunched under the new name “Chubu Electric Power MIRAI TOWER” in 2021 following a regional partnership between Nagoya TV Tower Co., LTD and Chubu Electric Power Co., Inc. The partnership aims to promote regional revitalization and contribute to the continued growth and prosperity of the Chubu region.

More than 70 years after its completion as Japan's first integrated radio tower, Chubu Electric Power MIRAI TOWER remains as well-known landmark of the city of Nagoya. We invite you to enjoy an unforgettable evening of fine cuisine and magnificent night views at this nationally designated Important Cultural Property.

https://www.nagoya-tv-tower.co.jp/

https://www.nagoya-tv-tower.co.jp/fee/leaflet_otherlang.pdf

December 4, 2026

Technical Tour (Optional)

Note: The number of participants is limited to 40, and registrations will be accepted on a first-come, first-served basis.

Visiting JERA Hekinan Thermal Power Station (Ammonia Co-firing) with Lunch

Located approximately 40 km south of Nagoya on the shore of Kinuura Bay, Hekinan Thermal Power Station is the largest coal-fired power station in Japan and among the largest in the world. Since Unit 1 entered commercial operation in 1991, the plant has expanded to five generating units with a total installed capacity of 4.1 GW, providing a stable electricity supply to the Chubu region and other areas. The site includes large-scale facilities typical of a modern coal-fired power station, including boilers, steam turbines, generators, coal storage yard covering approximately 300,000 square meters, with a storage capacity of up to 880,000 tonnes of coal (equivalent to approximately one month's consumption), ash pond, and advanced environmental protection systems. The plant's distinctive architecture, inspired by yachts sailing on Mikawa Bay, blends harmoniously with the surrounding landscape.

Hekinan Thermal Power Station is also playing a leading role in the decarbonization of thermal power generation. In 2024, the plant successfully completed a demonstration project on ammonia co-firing, using ammonia as a carbon-free fuel to reduce CO_2 emissions from coal-fired generation. Building on the successful results of the demonstration, the station is now working toward the commercial operation of 20% ammonia co-firing (on a heat input basis) as an important step toward achieving carbon neutrality by 2050. The ammonia fuel is transported by dedicated carriers in a liquefied state at approximately -33°C and stored in dedicated storage tanks.

https://www.jera.co.jp/en/corporate/business/thermal-power/list/hekinan

https://www.jera.co.jp/static/files/en/corporate/business/thermal-power/list/hekinan/pdf/hekinan_2024_en.pdf

Program (subject to change)

The program may be subject to change according to the registration of speakers and participants.

Welcome Reception

Tuesday, December 1, 2026
Park View North, TIAD, Nagoya

18:30–19:00	Registration
18:30–20:30	Welcome Reception

26th IERE General Meeting and Chubu EPCO–CRIEPI Japan Forum

- Day 1 -

Wednesday, December 2, 2026
Queens Room TIAD, Nagoya

08:10–08:30	Registration
08:25-08:30	Introduction to the venue safety and opening speakers by the General Chair

General Chair: YAMAZAKI Yuuichirou, Manager , Research & Development Division, Chubu Electric Power Co.,Inc., Japan

Opening Session

08:30–08:40	O-1	Opening Address **Munib AMIN**, IERE Chair
08:40–08:50	O-2	Welcome Speech **NODA Hidetomo**, Senior Managing Executive Officer, Research and Development Division, Chubu Electric Power Co.,Inc., Japan

Plenary Session: Keynote Speeches

08:50–09:20	K-1	**A Study on Selecting Candidate Sites for Renewable Energy Facilities Using Open-Source Data and Tools** KATO Takeyoshi, Professor, Institute of Materials and Systems for Sustainability, Nagoya University, Tokai National Higher Education and Research System, Japan

09:20–09:50	K-2	**Powering Today, Shaping Tomorrow -Practical Pathways for the Energy Transition** KAWAKITA Koji, Fellow, Chief Technology Advisor, Chubu Electric Power Grid Co., Inc.; CIGRE Honorary member, CIGRE Administrative Council & Steering Committee member, Chair of the CIGRE ELECTRA Editorial Board, Japan
09:50–10:20	K-3	**Role of Thermal Power in Ensuring Security of Supply During Renewable Energy Integration: Contributions of Flexible GTCC and Repurposed Coal-Fired Power Plants** YOSHIBA Fumihiko, Associate Vice President, Energy Transformation Research Laboratory, Central Research Institute of Electric Power Industry, Japan
10:20–10:50		**Group Photo, Coffee Break and Networking**

Technical Session 1: From Inspection to Prediction: Advancing Power Asset Management

Chairpersons: To be announced

10:50–11:10	S1-1	**Incipient Fault Diagnosis and Physical Verification of Gas-Insulated Transformers (GITs) via Multi-Technique Decomposition Analysis (SF6 Water-Soluble Fluoride, SO2, GC-MS, and FTIR)** Yen-Jo CHUNG, Gas Testing Specialist, Taiwan Power Research Institute, Taiwan Power Company, Taiwan
11:10–11:30	S1-2	**Preventive Maintenance through Investigation of FAC Characteristics in an HRSG IP Evaporator** ChangMin LEE, Senior Researcher, DX Group for Power Generation, KEPRI Energy-Environment Research Lab, Korea Electric Power Corporation, South Korea

Chairperson: To be announced

11:30–11:50	S1-3	**Behavior of crows that nest on utility poles** ANDO Takahiro, Researcher, Electric Power Research & Development Center, Chubu Electric Power Co., Inc., Japan
11:50–12:10	S1-4	**Performance Evaluation and Field Experience of RTV-Coated Insulators in Polluted Environments** IIZUKA Tomoya, Supervisor, NGK High Voltage Lab, NGK Corporation, Japan
12:10–12:30	S1-5	**Development and Standardization of a Penetration Equation Accounting for Target Steel Strength for Impact by Flying Objects**

KUMAGAI Tomohisa, Senior Research Scientist, Materials Science Division, Energy Transformation Research Laboratory, Central Research Institute of Electric Power Industry, Japan

12:30–14:00 **Lunch and Networking (Park View North, TIAD, Nagoya)**

Chairperson: To be announced

14:00–14:20 S1-6 **From Inspection to Risk-based Action: Advancing Predictive Asset Management in Power Generation**
Kan Kam Ho IP, Associate Director, Business Strategy – Generation, CLP Power Hong Kong Limited, Hong Kong
Hilda Chi Ching CHIU, Senior Business Improvement Manager, Business Strategy – Generation, CLP Power Hong Kong Limited, Hong Kong

14:20–14:40 S1-7 **Toward Integrated Sediment Management and Asset Management for Hydropower Facilities**
OTA Kazuyuki, Senior Research Scientist, Meteorology and Fluid Science Division, Sustainable System Research Laboratory, Central Research Institute of Electric Power Industry, Japan

14:40–15:00 S1-8 **Asset Transformation**
Cheuk Yin LAM, Senior Manager– Digital Asset & Oversight, Asset Management Department, CLP Power Hong Kong Limited, Hong Kong

Technical Session 2: Advancing Power Generation and Networks: Efficiency, Flexibility, and Resilience

Chairperson: To be announced

15:00–15:20 S2-1 **Typhoon Hazard Forecasting and Impact Assessment for Japan's Energy Infrastructure**
KAWAZOE Sho, Research Scientist, Sustainable System Research Laboratory, Central Research Institute of Electric Power Industry, Japan

15:20–15:40 S2-2 **Application study of long-term ensemble rainfall forecast for enhancing the operation of hydroelectric dam reservoirs**
ABE Takuya, Senior Staff, Electric Power Research & Development Center, Chubu Electric Power Co., Inc., Japan

15:40–16:10 **Coffee Break and Networking**

Chairperson: To be announced

16:10–16:30 S2-3 **Development and Field Demonstration of the Iida Microgrid**
ENOMOTO Atsushi, Research Engineer, Electric Power Research & Development Center, Chubu Electric Power Co., Inc., Japan

16:30–16:50 S2-4 **Impact of Fixed Power Factor Control of PV Systems on Voltage Regulation in an Integrated Sub-Transmission and Distribution Network Model**
KANEKO Akihisa, Associate Professor, Advanced Collaborative Research Organization for Smart Society, Waseda University, Japan

16:50–17:10 S2-5 **R&D of Grid-Forming Inverters for the power system in Japan**
ITO Yuma, Researcher, TEPCO Research Institute, Tokyo Electric Power Company Holdings, Inc., Japan

17:10–17:30 S2-6 **Decision Framework for Evaluating Resilient, Flexible and Lower-Carbon Backup Power**
Bobby NOBLE, Senior Program Manager, Emerging Fuels and Technologies, Electrical Power Research Institute, US

Official Dinner

Wednesday, December 2, 2026
Park View South, TIAD, Nagoya

19:00–21:00 Official Dinner

26th IERE General Meeting and Chubu EPCO–CRIEPI Japan Forum

- Day 2 -

Thursday, December 3, 2026
Queens Room, TIAD, Nagoya

IERE General Meeting

08:15-08:30 Registration

08:25-08:30 Introduction to the venue safety and opening speakers by the General Chair

General Chair: YOSHIDA Masanobu, General Manager, Research & Development Division, Chubu Electric Power Co.,Inc., Japan

08:30–08:45 GM-1 **Recent IERE Activities (November 2025–November 2026)**
Munib AMIN, IERE Chair

08:45–09:00 GM-2 **Ongoing Projects and Upcoming Events**
SHIMOTA Akiro, Secretary General, IERE

09:00–09:20 SL-1 **Special Lecture:**
THE COMPLEXITY ADVANTAGE: From Chaos to Clarity - Solving wicked problems with systems thinking, system design and design thinking
Gregory TOSEN, IERE Advising Chair Emeritus

Special Session (Part 1)

Chairperson: WATANABE Takao, Advisor, IERE

09:20–09:40 SP-1 **The Report of IERE Technology Foresight**
Ankit A. SHUKLA, Vice President, TechVision, Frost & Sullivan, UK

Special Session (Part 2): Featured Company Overviews, Strategies, and Roadmaps

Chairperson: SHIMOTA Akiro, Secretary General, IERE

09:40–10:00 SP-2 **Towards Net Zero 2050: CLP's Strategy & Pathway for Hong Kong's Power System**
Alan NG, Senior Director, Planning & Development, Planning & Development Group, CLP Power Hong Kong Limited, Hong Kong

10:00–10:20	SP-3	**Research and Development Strategy of Kyushu Electric Power's Research Laboratory** **– Challenges toward a Sustainable Energy Future –** MATSUMOTO Kazumichi, General Manager, Research Laboratory, Electrical Engineering, Kyushu Electric Power Co., Inc., Japan
10:20–10:50		**Coffee Break and Networking**

Technical Session 3: Energy Security and GX: Shaping the Future of Energy

Chairperson: TAKEI Katsuhito, Advisor, IERE, Japan

10:50–11:10	S3-1	**Advanced Grid Interfaces for Grid-Friendly Renewable Hydrogen Production: Validation of Grid-Forming Storage for Weak-Grid Operation** Gianluca LIPARI, European Projects Coordinator, EPRI Europe, Electric Power Research Institute, Ireland
11:10–11:30	S3-2	**IHI's Approach to Decarbonization of Coal-Fired Power Plant with Ammonia Firing Technology** NAKAHARA Daichi, Technical Sales & Consulting Manager, Business Development & sales Department Carbon Solution Business Unit Resource, Energy & Environment Business Area, IHI Corporation, Japan
11:30–13:00		**Lunch and Networking (Park View South, TIAD, Nagoya)**

Chairperson: SHIMOTA Akiro, Secretary General, IERE, Japan

13:00–13:20	S3-3	**Development of Low-Environmental-Impact Concrete Power Poles** SANO Seiya, Researcher, Electric Power Research & Development Center, Chubu Electric Power Co., Inc., Japan
13:20–13:40	S3-4	**Utilization of IGCC-Derived Syngas for Carbon-Neutral Energy Products** SHIMOKAWARA Shota, Research Engineer, Wakamatsu Research Institute Research & Development Department, Electric Power Development Co., Ltd., Japan
13:40–14:00	S3-5	**Managing growing cooling demand in high-density cities: Lessons from Singapore** Océane VIC, Energy Systems Research Engineer, Research & Development Department, Electricité de France, Singapore

Technical Session 4: Software-Driven Digital Transformation and Value Creation in the Power Sector

Chairperson: To be announced

14:00–14:20 S4-1 **Development and Applications of Power Grid Datasets Derived from OpenStreetMap**
SHIGENOBU Ryuto, Senior Assistant Professor, Department of Electrical and Electronic Engineering, University of Fukui, Japan

14:20–14:40 S4-2 **SLIM IDPP: Making Digital Power Plant Technologies Accessible to Small-to-Medium Power Plants and Distributed Energy Resources**
BumShin KIM, Chief Researcher, Group Leader, DX Group for Power Generation, KEPRI Energy-Environment Research Lab, Korea Electric Power Corporation, South Korea

14:40–15:00 S4-3 **Development and Evaluation of a Probabilistic Area Price Forecasting Method for the Japan Electric Power Exchange Using Bayesian Inference**
Robertson MANTALABA, Research Student, Graduate School of Advanced Science and Engineering, Hiroshima University, Japan

Academia Session (Including Coffee Break): Poster Session

15:00–16:00

Chairperson: SHIMOTA Akiro, Secretary General, IERE, Japan

15:00–15:05 P-1 **Experimental Study on Suppressing PV Reverse Power Flow in a Specific Phase via Output Mode Commands from a Three-Phase BESS**
NISHIGUCHI Takumi, Master's course Student, Institute of Materials and Systems for Sustainability, Nagoya University, Japan

15:05–15:10 P-2 **A Proposed Metric for Evaluating SVR Tap Operation Reduction using Battery Storage in Distribution Systems**
MITSUO Sosuke, Master's course Student, Department of Electrical and Electronic Engineering, Graduate School of Engineering, Nagoya Institute of Technology, Japan

15:10–15:15 P-3 **A Study on Hybrid Energy Storage System Configuration Considering Priority Load and Power Purchase Constraint**
KUBOTANI Toma, Master's course Student, Graduate School of Advanced Science and Engineering, Hiroshima University, Japan

15:15–15:20 P-4 **A Study on a Day-Ahead Market Simulator Incorporating Unit Commitment under High Variable Renewable Energy Penetration**
MODA Rikuto, Master's course Student, Graduate School of Advanced Science and Engineering, Hiroshima University, Japan

Technical Session 4: Software-Driven Digital Transformation and Value Creation in the Power Sector

Chairperson: To be announced

16:00–16:20 S4-4 **Development of a Maintenance Support System using ICT for Remote Monitoring of Underground Power Transmission Facilities**
TSUCHIYA Hiroaki, Senior Research Scientist, Grid and Communication Technology Division, Grid Innovation Research Laboratory, Central Research Institute of Electric Power Industry, Japan

16:20–16:40 S4-5 **Beyond Manuals: AI Mentors for Knowledge Transfer and Responsible Engineering**
NOGUCHI Shinki, Manager, Substations & Transmission Department Substations Section, Chubu Electric Power Grid Co., Inc., Japan

16:40–17:00 S4-6 **Testing and Experimentation Facilities for Trustworthy AI Adoption in European Energy Systems: Insights from the AI-EFFECT project**
Gianluca LIPARI, European Projects Coordinator, EPRI Europe, Electric Power Research Institute, Ireland

17:00–17:20 S4-7 **A Digital Twin-Based Platform for Smart Maintenance of Substations Using Autonomous Drones**
TAGUCHI Kimihiro, Research Engineer, Engineering Center, Technical Development Group, Chubu Electric Power Grid Co., Inc. , Japan

Closing Remarks

17:20–17:25 FUJIOKA Naoto, Vice President, Director of Grid Innovation, Research Laboratory, Central Research Institute of Electric Power Industry, Japan

17:25–17:30 SHIMOTA Akiro, Secretary General, IERE

~~Call for Presentations~~

~~<<Abstract Submission: No later than September 4, 2026>>~~
~~<<Abstract Submission Due Date Extended until October 2, 2026>>~~

~~You are kindly invited to submit abstracts for the Oral Session or Poster Session for the Chubu EPCO–CRIEPI Japan Forum by email. In addition, please submit the Speaker's Information.~~

~~to: **register (at) iere.jp** [Please substitute " (at) " with "@"]~~

~~As for the **format of the Abstract**, please refer to "Events" page on IERE website.~~
~~https://iere.jp/wp-content/uploads/2026/06/F3_Abstract_Format_2026GM.docx~~

- The official language of the IERE Forum is English.
- Abstract will be posted on the IERE website and open to the public.
- Change of presentation session (oral or poster) may be requested depending on the number of submitted abstracts.
- Presentation Slides will be posted on the IERE website and open to IERE members and Forum participants.

<< Presentation Slides Submission: No later than November 16, 2026 >>

You are kindly requested to submit presentation slides (PowerPoint) via email.

- The official language of the IERE Forum is English.

Note: Presentation Slides will be open to all participants of this forum and IERE members on the IERE website. If you do not wish to have your presentation slides made public, please contact the IERE Central Office.

Registration

Deadline: November 16, 2026

If possible, please register using the method (a) below. If you are unable to use Google Forms due to limitations in your system environment or other reasons, please register using method (b) below.

Please be informed that, for this forum, only the Keynote Speeches and the Special Session will be delivered in a hybrid format.

One account complimentary online access will be provided for each **on-site participant from IERE members**.

Details regarding online access will be communicated later.

(a) On-Line Registration (Google Forms)

URL: https://forms.gle/ESSGaYGLMM92oh2N6

or

(b) Submit a Registration Form (Format 1-1) to IERE Central Office via Email

Note: Photographs and videos may be taken by the IERE during this event. These images may be used for promotional purposes on the IERE's website and social media platforms etc.

Registration Fee

The Registration fee will cover attendance at both forum days (including lunches & refreshments at coffee breaks), welcome reception on December 1, official dinner on December 2 and conference package:

IERE Members:	**USD 800 per person**
Non-IERE Members:	**USD 1,200 per person**
Academic Participants:	**USD 600 per person**
Student Participants:	**USD 200 per person**

Recommended Options

Social Event (Optional) December 3:	**USD 55 per person**
Technical Tour (Optional) December 4:	**USD 45 per person**

Note. Accommodation and travel costs will be borne by the participants.

Payment

(a) On-Line Credit Card Payment or (b) Bank Transfer are available.
Deadline: **November 16, 2026**

(a) On-Line Credit Card Payment

If you prefer using your credit card for the payment of registration fee, please go to the following website (USD only):
URL: https://www.paypal.com/ncp/payment/3YLEPFY2NGVHJ

or



Scan the QR code

(b) Bank Transfer

Name of the Bank:	MUFG Bank, Ltd.
Name of the Branch:	Seijo branch
Name of the account:	IERE
Account Number:	0068198
Bank address:	15-1 Seijo 6-chome, Setagaya-ku, Tokyo, 157-0066 JAPAN
SWIFT code:	B O T K J P J T

VISA

Participants from certain countries may require visa to enter Japan. Please refer to the following website or consult a travel agent in your country for further details:

URL: https://www.mofa.go.jp/j_info/visit/visa/index.html

If you require an Invitation Letter*, please complete and submit the "Invitation Letter for VISA Request Form" to IERE Central Office by email no later than **October 31, 2026**.

* CRIEPI will be able to issue an invitation letter for participants who need to apply for a visa. Please note that it will take approximately 1–2 weeks to prepare the letter after receiving all the required information. Early submission of the form is highly recommended.

Disclaimer: CRIEPI will review requests for invitation letters in accordance with the applicable regulations and guidelines of the relevant Japanese ministries and authorities and reserves the right to approve or decline such requests based on these criteria.

Technical Tour (Optional)

For all international participants

Participants who wish to join the technical visit will be required to submit a scanned copy of their passport by ~~October 31,2026~~ November 16,2026, for security screening and access arrangements. The handling of submitted identification documents will be in accordance with CRIEPI's "Declaration of Limited Use of Identification Documents."

Please note that participation in the technical visit is subject to review in accordance with the applicable regulations and guidelines of the relevant Japanese and U.S. ministries and authorities. Based on these criteria, CRIEPI reserves the right to approve or decline participation requests.

Note. Extension of the deadline for submitting a scanned copy of your passport for security screening and access arrangements until November 16, 2026

Submission Items & Deadlines

For Participants [including Technical Session Speakers]

Items	Format No.	Deadline/ Limitation	To:
Registration Form	**1-1**	**November 16, 2026**	register(at)iere.jp [Please substitute (at) with @]
Invitation Letter Request Form for Visa Application (If necessary)	**2**	**October 31, 2026 (It takes 1–2 weeks to issue)**	Ditto
Registration Fee	—	**November 16, 2026**	Please refer to Page 11
Social Event Fee [optional]	—	**November 16, 2026**	Ditto
Technical Tour Fee [optional]	—	**November 16, 2026**	Ditto

The format No.1-1 is not required for On-line Registration.

The formats (No. 1-1 and 2) can be downloaded from IERE website.

URL: F1-1 Registration Format 2026

F2 Invitation Letter Request Form for Visa Application 2026

For Speakers

Items	Format No.	Deadline	To:
~~Abstract & Speaker's Information~~	~~3~~	~~October 2, 2026~~	register(at)iere.jp [Please substitute (at) with @]
Presentation Slides (PowerPoint File)	—	**November 16, 2026**	

~~The formats (No. 3) can be downloaded from IERE website.~~

~~URL: F3 Abstract_Format_2026~~

Speakers are kindly requested to submit their Presentation Slides (PowerPoint File) by **November 16, 2026**.

Note: Presentation Slides will be open to all participants of this forum and IERE members. If you do not wish to have your presentation slides made public, please contact the IERE Central Office.

Conference Venue & Accommodation

Conference Venue

TIAD, Autograph Collection, Nagoya, Japan
Location: 5-15-19 Sakae, Naka-ku, Nagoya, Japan
website: https://hotel-tiad.com/en

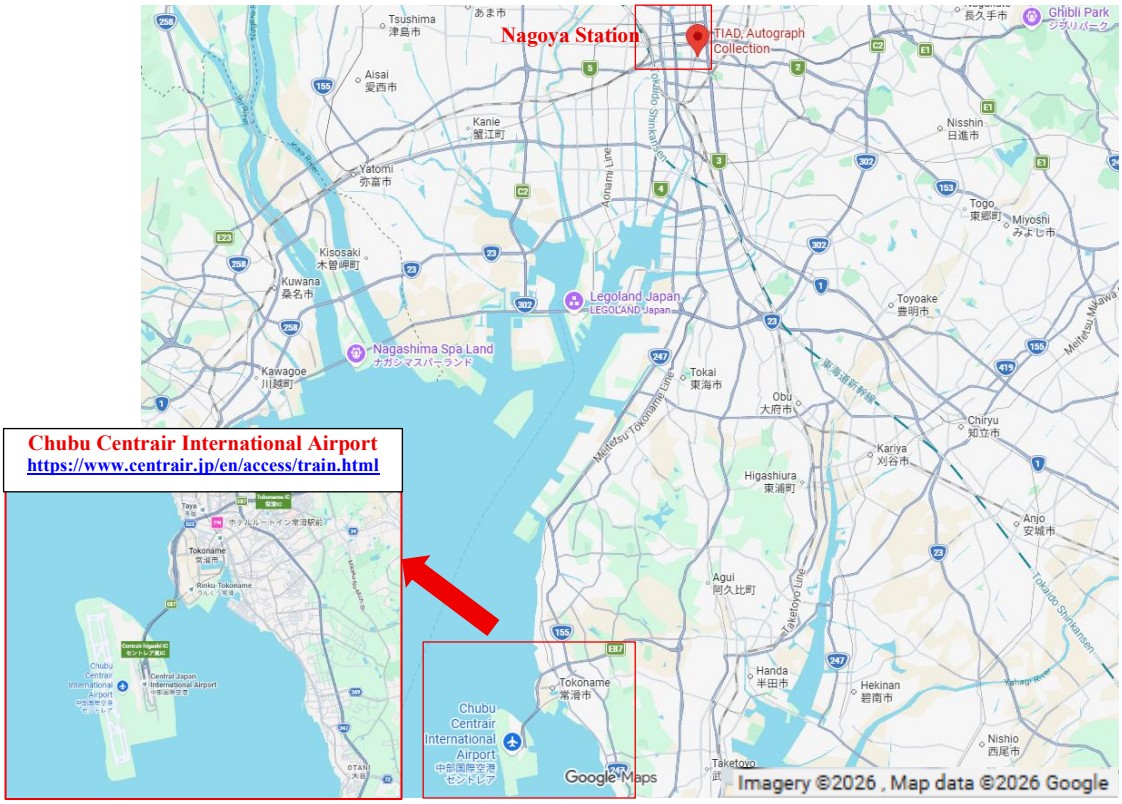


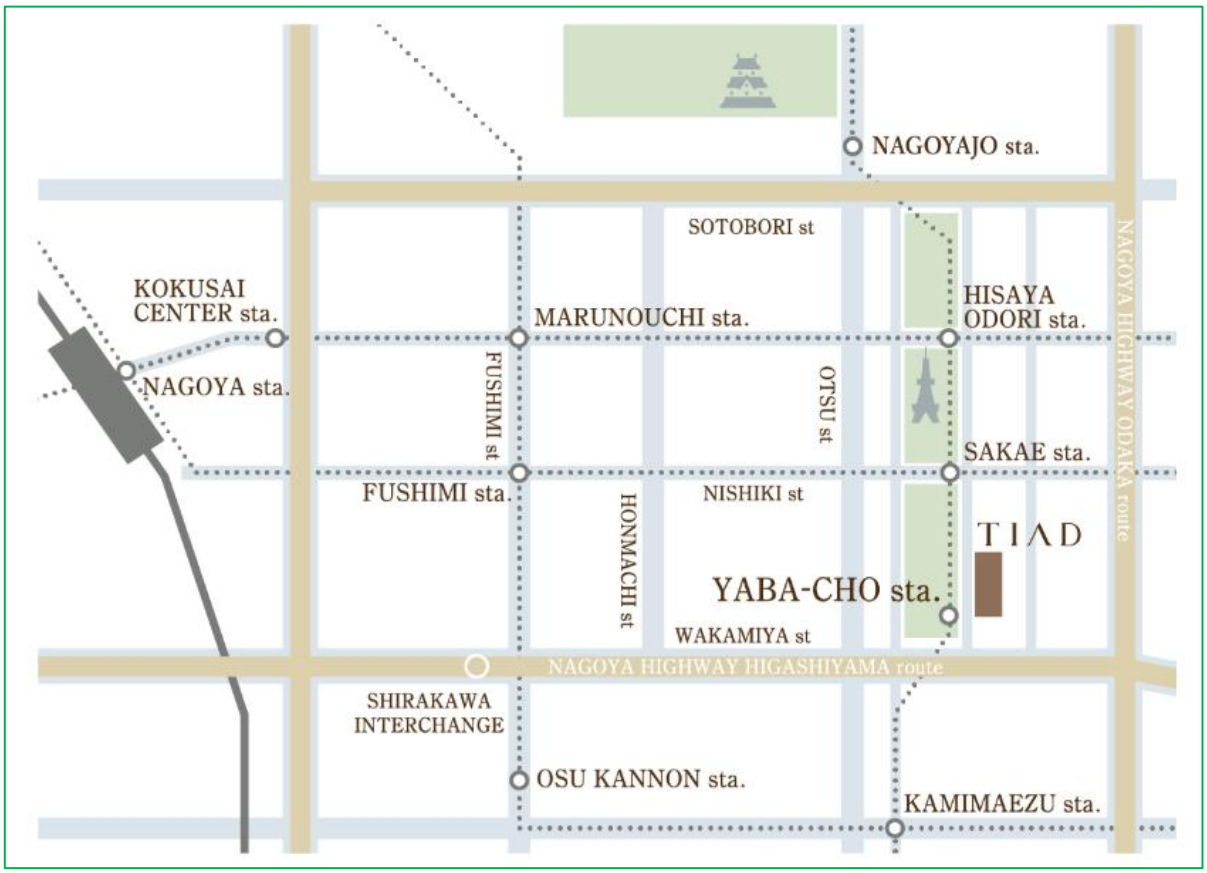


Source: TIAD, Autograph Collection

Location of TIAD, Autograph Collection

https://Google maps.





Source: TIAD, Autograph Collection https://hotel-tiad.com/en/access/

Accommodation

TIAD, Autograph Collection, Nagoya, Japan
Location: 5-15-19 Sakae, Naka-ku, Nagoya, Japan
website: https://hotel-tiad.com/en/



Source: TIAD, Autograph Collection

IERE Members List (as of November 1, 2026)

Australia	CSIRO		
Canada	Powertech Labs		
China	CEPRI	NARI	XJ Group
	SEPRI		
Czech	CEZ		
France	ENGIE		
Germany	E.ON	EnBW	RWEG
Hong Kong SAR	CLP		
Indonesia	PLN		
Israel	IEC		
Japan	Chubu EPCO	Chugoku EPCO	CRIEPI
	FEPC	Fuji Electric	Hitachi
	Hokkaido EPCO	Hokuriku EPCO	IHI
	J-POWER	JAPC	Kansai EPCO
	Kyushu EPCO	MHI	Mitsubishi Electric
	NGK	Sumitomo Electric	Shikoku EPCO
	TEPCO	Tohoku EPCO	TOSHIBA
Malaysia	TNB		
Mexico	INEEL	Prolec	
Netherlands	TenneT		
Pakistan	Karachi Electric		
Philippines	APC	MERALCO	
Singapore	SPPA		
South Africa	Eskom	PIESA	
South Korea	Hyundai Electric	KEPCO	KERI
	KOWEPO		
Taiwan	TPC		
US	EPRI	SwRI	

About Chubu EPCO

Chubu Electric Power Company, Incorporated, established in 1951, is one of Japan's leading integrated energy companies. Guided by its corporate philosophy, "Connecting people and communities through the energy of happiness," the company is dedicated to ensuring a stable and reliable electricity supply across central Japan while advancing the transition toward a safe, secure, and decarbonized society. Its initiatives encompass the development of distributed and circular energy systems, the delivery of customer-focused services, the creation of new business opportunities through business transformation, and the promotion of electrification to support sustainable growth and enhanced societal value.

As part of its group-wide sustainability strategy, Chubu Electric Power aims to reduce CO_2 emissions associated with customer electricity consumption by 50% from 2013 levels by 2030 and to achieve net-zero emissions across its entire value chain by 2050. To realize these ambitions, the company is actively expanding its renewable energy portfolio, including solar, wind, hydro, biomass, and geothermal power generation. These efforts are expected to strengthen its low-carbon generation mix while enhancing long-term energy security and supply reliability.

Recognizing the challenges associated with the growing penetration of variable renewable energy resources, the company is also enhancing the flexibility and resilience of its power grid. In collaboration with local governments and regional stakeholders, it is advancing the development of distributed energy systems and microgrids that integrate renewable generation, battery storage, and advanced energy management technologies. These initiatives help optimize local energy utilization, improve system reliability, and ensure a stable electricity supply during emergencies and natural disasters.

Through the integration of extensive operational expertise and forward-looking innovation, Chubu Electric Power continues to strengthen its position as a trusted partner in the global energy transition. By fostering resilient, sustainable, and customer-centered energy solutions, the company is committed to contributing to a secure and prosperous energy future for generations to come.

https://www.chuden.co.jp/english/

About CRIEPI

Central Research Institute of Electric Power Industry (CRIEPI), is a central and academic research institution for the electric power industry, supports the transformation of technologies and systems pertaining to the supply and use of electric power and other forms of energy, and thus leads technological innovation in the energy industry. Since its foundation in 1951, we have contributed to the electric power industry from the aspect of R&D which is the pillar of the development of Japanese economy and society.

Japanese energy policy has aimed to simultaneously achieve S+3E (Safety, Energy security, Environment, and Economic efficiency). Based on this policy, we are challenging to resolve medium- and long-term issues through cross-disciplinary research by a wide range of experts from natural sciences and engineering to social sciences, with research collaboration with institutions concerned in Japan and abroad.

CRIEPI is primarily composed of the Socio-Economic Research Center, the Nuclear Risk Research Center, and three research laboratories: Energy Transformation Research Laboratory (EXRL), Grid Innovation Research Laboratory (GdRL), and Sustainable Systems Research

Laboratory (SSRL). As of the end of FY2025, our total staff consists of 765 employees, including 673 research personnel and 92 administrative personnel. The research staff cover a wide range of fields, including 396 researchers who hold doctoral degrees. Across these centers and laboratories, we promote the fusion of knowledge and technologies, working collaboratively to drive flexible and rapid research and development.

Check out the following pages of this brochure to find out more about 75 years of expertise and experience that benefit your business in various ways.

https://criepi.denken.or.jp/en/publications/technologies/index.html

About IERE

IERE is an organization for exchanging electricity and energy related cutting-edge technologies and R&D information among its members from the electricity and energy supply industry, equipment provider businesses, academic research, government, etc. This unique platform is of great help for executives, senior managers, engineers, and researchers who are responsible for R&D and solutions. It is a worldwide, non-profit organization, established as “International Electric Research Exchange” in 1968.

https://www.iere.jp

IERE Central Office
2-11-1 Iwado-kita, Komae-shi
Tokyo 201-8511, Japan

Phone/Fax: +81-3-5438-1717
https://www.iere.jp

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