



First Announcement

2026 IERE-KEPCO Seoul Energy Equation Workshop

“The Energy Equation: Clean, Safe, Reliable, and Digital Future”

In-Person Event

Keynote Speakers Confirmed



Downtown, Seoul, South Korea

The Ambassador Seoul - A Pullman Hotel, Seoul, South Korea
May 19–22, 2026

Organized by KEPCO and IERE



“The Energy Equation: Clean, Safe, Reliable and Digital Future”

About the theme

The 2026 IERE-KEPCO International Workshop, under the theme *“The Energy Equation: Clean, Safe, Reliable and Digital Future”*, aims to explore the balanced solutions that will define the next generation of the global power industry. As the world accelerates its transition toward carbon neutrality, achieving harmony among energy security, environmental sustainability, and the technological innovation has become the central equation to solve.

The workshop will bring together experts from utilities, academia, and industry to discuss emerging strategies and technologies shaping this transformation. Sessions will focus on the Future Power Grid, highlighting digitalization and smart-grid innovation; Stable Power Supply and Efficiency Management, emphasizing reliability and system optimization; Towards Carbon Neutrality, addressing clean fuels, renewable integration, and low carbon technologies; and Safety, Disaster and Environmental Response, exploring risk management and system resilience in an evolving climate era.

Through global collaboration and open dialogue, the workshop seeks to redefine how the energy equation can be balanced-ensuring that the future of power remains clean, safe, reliable, and digitally empowered.

Who should attend?

The workshop 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. IERE and KEPCO will invite prominent speakers for keynote speeches.



Schedule Outline:

Tuesday,	May 19, 2026	Welcome Reception
Wednesday,	May 20, 2026	2026 IERE-KEPCO Seoul Energy Equation Workshop Official Dinner
Thursday,	May 21, 2026	2026 IERE-KEPCO Seoul Energy Equation Workshop
Friday,	May 22, 2026	Technical Tour (Optional)

Program and Session Themes:

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

May 19, 2026

Welcome Reception

May 20, 2026

● Opening Session

Opening Address, Welcome Speech

● Plenary Session

Keynote Speeches

● Panel Session: “The Energy Equation: Clean, Safe, Reliable, and Digital Future”

● Technical Session 1: Future Power Grid

This session explores the technological backbone of the next-generation electric power system. The focus is on Grid Modernization and Digital Transformation, utilizing smart hardware and advanced communications to build a highly intelligent and observable network. A key area is High-Penetration Renewables Integration, addressing the technical challenges of managing massive, variable clean energy sources. We will delve into innovations in Advanced Transmission Technologies like High Voltage Direct Current (HVDC) and Flexible AC Transmission System (FACTS) to enhance capacity and stability. The program includes presentations on strategies for Cyber Resilience to safeguard critical Operational Technology (OT) and discussions on developing Next-Generation Market Structures that facilitate transactions across a decentralized grid. This session offers critical insights into the architecture of a smarter, more dynamic, and interconnected power system.

Potential topics include:

- Digital Grid Upgrade (e.g. Smart substations, digital twins)
- Renewables Integration
- DC-grids (i.e. HVDC, MVDC, LVDC)
- Resilience
- Market Innovation (i.e. platforms or markets for decentralized and decarbonized grids)

● Technical Session 2: Stable Power Supply and Efficiency Management

This session is dedicated to the technologies that ensure reliability, power quality, and operational efficiency in complex power networks. A primary focus is on Grid-Scale Energy Storage Systems (ESS), examining their role in frequency regulation, stability, and load leveling. We will explore the development of Microgrids and Advanced Grid Control using Artificial Intelligence/Machine Learning (AI/ML) to optimize power flow, manage voltage, and ensure quick response to disturbances. Crucial topics feature Smart Load & Demand-Side Management (DSM) for actively shaping consumption patterns, and leveraging high-resolution AMI Data Analytics for loss reduction and system intelligence. This session highlights achieving cost-effective dispatch through Asset Performance Management (APM) and sophisticated operational planning, maintaining continuous, high-quality power delivery.

Potential topics include:

- Energy Storage System (ESS)
- Microgrid Control
- Demand Optimization (DSM)
- AI Grid Control (AI/ML implementation)
- Asset Performance Management (APM)
- Virtual Power Plant (VPP)
- Fault Diagnosis

May 21, 2026

● **Special Session (Part 1): Report of Technology Foresight 2025 (Tentative)**

● **Special Session (part 2): Featured Company Overviews, Strategies, and Roadmaps etc.**

● **Technical Session 3: Towards Carbon Neutrality**

This session addresses the transformative technologies required to achieve net-zero emissions within the energy sector. We will examine holistic Decarbonization Pathways and System Modelling to guide the transition process. A significant focus is on Power-to-X (P2X) and Green Hydrogen, exploring the production, storage, and utilization of hydrogen as a clean energy carrier and dispatchable power source. The program welcomes presentations on Carbon Capture, Utilization and Storage (CCUS) for hard-to-abate emissions. Furthermore, the session explores Sector Coupling and Electrification, where the power grid integrates with transportation and industry to drive broader emission reductions. This session showcases the innovative solutions driving the energy transition toward a sustainable, low-carbon future.

Potential topics include:

- Decarbonization Pathways (Solar, Wind)
- Carbon Capture, Utilization and Storage (CCUS)
- Fuel Diversification in Power Generation (Hydrogen and Ammonia)
- Sustainable Sources (e.g. Bioenergy)
- Sector Coupling
- Smart Power Plants (e.g. IDPP, Intelligent Digital Power Plant)

● **Technical Session 4: Safety, Disaster and Environmental Response**

This session centers on technologies and strategies that enhance the resilience, safety, and environmental responsibility of the energy industry. A major theme is Extreme Weather and Climate Change Adaptation, focusing on safety of employees at Work (Occupational Health and Safety) by the engineering for “hardening” critical infrastructure against increasing physical threats. We will examine Intelligent Asset Health Management (I-AHM), utilizing AI and sensors for predictive maintenance and enhanced worker safety. Essential for rapid recovery are Disaster Response Automation and Wide Area Monitoring System/Phasor Measurement Unit (WAMS/PMU) Integration, enabling quick fault isolation and operational continuity. Finally, the session covers Environmental Monitoring and Impact Mitigation to ensure regulatory compliance and responsible operations, alongside the critical topic of Integrated Cyber-Physical Security for control systems OT.



Potential topics include:

- Occupational Health and Safety
- Infrastructure Hardening (i.e. advanced monitoring and sensors)
- Predictive Maintenance
- Disaster Response Automation
- Environmental Compliance
- Cyber Security and Robotics/Drone
- AI enhanced Safety

● **Closing Remarks**

May 22, 2026

● **Technical Tour (Optional)**

Visiting KOMIPO's Seoul Power Plants

Program

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

Tuesday, May 19 2026

Welcome Reception

Registration and Welcome Reception in the evening

Wednesday, May 20, 2026

Opening Session

Opening Address: Munib AMIN, IERE Chair

Welcome Speech: KEPCO (Details to be announced)

Plenary Session: Keynote Speeches

- Heo HUN, General Manager, DC Solution Pjt, KEPRI, New Business Technology Lab, South Korea
- Jeong Hun KIM, Senior Researcher, R&D Biz Team, KEPRI, R&D Strategy Center, South Korea
- Hongseok KIM, Professor, Electronic Engineering, Seogang University, South Korea

Panel Session: “The Energy Equation: Clean, Safe, Reliable, and Digital Future”

Technical Session 1: Future Power Grid

Technical Session 2: Stable Power Supply and Efficiency Management

(Poster Session)

To be determined

Official Dinner

Thursday, May 21, 2026

Special Session (Part 1): Report of Technology Foresight 2025 (Tentative)

Details to be announced

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

Details to be announced

Technical Session 3: Towards Carbon Neutrality

Technical Session 4: Safety, Disaster and Environmental Response

(Poster Session)

To be determined

Friday, May 22, 2026

Technical Tour (Optional)

KOMIPO's Seoul Power Plant

The world's first large-capacity urban underground power plant

KOMIPO has achieved the feat of building the world's first large-capacity urban underground power plant—the result of Korea's technology and know-how for building and operating thermal power plants—on the site of the first thermal power plant in Dangin-dong, Mapo-gu, a representation of the nation's power industry. It initiated commercial operation and started producing electricity in November 2019.

Seoul P.G. Site Div. has been a solid foundation for the energy industry of Korea, setting milestones for 100 years in the history of Korea's power generation. Now, Seoul P.G. Site Div. is preparing another 100 years ahead. It has used different fuels according to the transition of the age, applied new technologies in the energy industry, and spread technical skills to power plants throughout the nation. By making an underground thermal power plant, Seoul P.G. Site Div. suggested a new, future-oriented model of power plant in the energy industry, which will mark the beginning of a new history of the power generation industry in Korea.



Source: Korea Midland Power Co., LTD Website

<https://www.komipo.co.kr/eng/content/198/main.do?mnCd=EN010403>



Call for Presentations

~~<< Abstract Submission: No later than February 13, 2026 >>~~

Abstract Submission: No later than March 13, 2026

You are kindly invited to submit abstracts for the Oral Session or Poster Session for the 2026 IERE-KEPCO Seoul Energy Equation Workshop 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.

URL: [F3_AbstractFormat_2026WS.docx](#)

- The official language of the IERE Workshop 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 Workshop participants.

<< Presentation Slides Submission: No later than April 20, 2026 >>

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

- The official language of the IERE Workshop is English.

Note: Presentation Slides will be open to all participants of this workshop 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: April 20, 2026

Total number of participants is limited to 100 people.

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 Workshop, 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/yuyXRnwKKg3q3pQL8>

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 workshop days (including lunches & refreshments at coffee breaks), welcome reception on May 19, official dinner on May 20 and conference package:

IERE Members:	USD 700 per person
Non-IERE Members:	USD 1,100 per person
Academic Participants:	USD 700 per person
Student Participants:	USD 550 per person

Recommended Option

Technical Tour (Optional) May 22: USD 50 per person

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



Payment

On-Line Credit Card Payment and Bank Transfer are available.

Deadline: **April 20, 2026**

(a) On-Line Credit Card Payment

Refer to the “Register” section on the IERE website (<https://iere.jp/events/4465/>).

or

(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:	<table border="1"><tr><td>B</td><td>O</td><td>T</td><td>K</td><td></td><td>J</td><td>P</td><td></td><td>J</td><td>T</td></tr></table>	B	O	T	K		J	P		J	T
B	O	T	K		J	P		J	T		

VISA

For participants from some countries needing a VISA to enter South Korea, please check the below or consult with travel agent in your country for the details.

URL: <https://www.southkorea-etainfo.jp/en/visa-information>

If you need an Invitation Letter*, please send ‘Invitation Letter for VISA Request Form’ to IERE Central Office via email by **April 3, 2026**.

* KEPCO will be able to issue an invitation letter for participants who need to apply for Visa. It will take approximately 1–2 weeks for KEPCO to prepare this after receiving all information, so please submit the form as soon as possible.

Disclaimer: KEPCO reserves the right to fulfill or decline, at KEPCO’s discretion, requests for letters of invitation for visa application support purpose.

Submission Items & Deadlines

For Participants **[Including Technical Session Speakers]**

Items	Format No.	Deadline/ Limitation	To:
Registration Form	1-1	April 20, 2026	register(at)iere.jp [Please substitute (at) with @]
Invitation Letter for VISA Request Form (If necessary)	2	April 3, 2026 (It takes 1–2 weeks to issue)	Ditto
Registration Fee	—	April 20, 2026	Please refer to Page 9
Technical Tour Fee [optional]	—	April 20, 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.docx](#)

[F2_Invitation Letter for VISA Request Format_2026.docx](#)

For Speakers

Items	Format No.	Deadline	To:
Abstract & Speaker's Information	3	March 13, 2026	register(at)iere.jp [Please substitute (at) with @]
Presentation Slides (PowerPoint File)	—	April 20, 2026	

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

URL: [F3_AbstractFormat_2026WS.docx](#)

Speakers are kindly requested to submit their Presentation Slides (PowerPoint File) by **April 20, 2026**.

Note: Presentation Slides will be open to all participants of this workshop 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.

Conference Venue & Accommodations

Conference Venue

The Ambassador Seoul - A Pullman Hotel, Seoul, South Korea

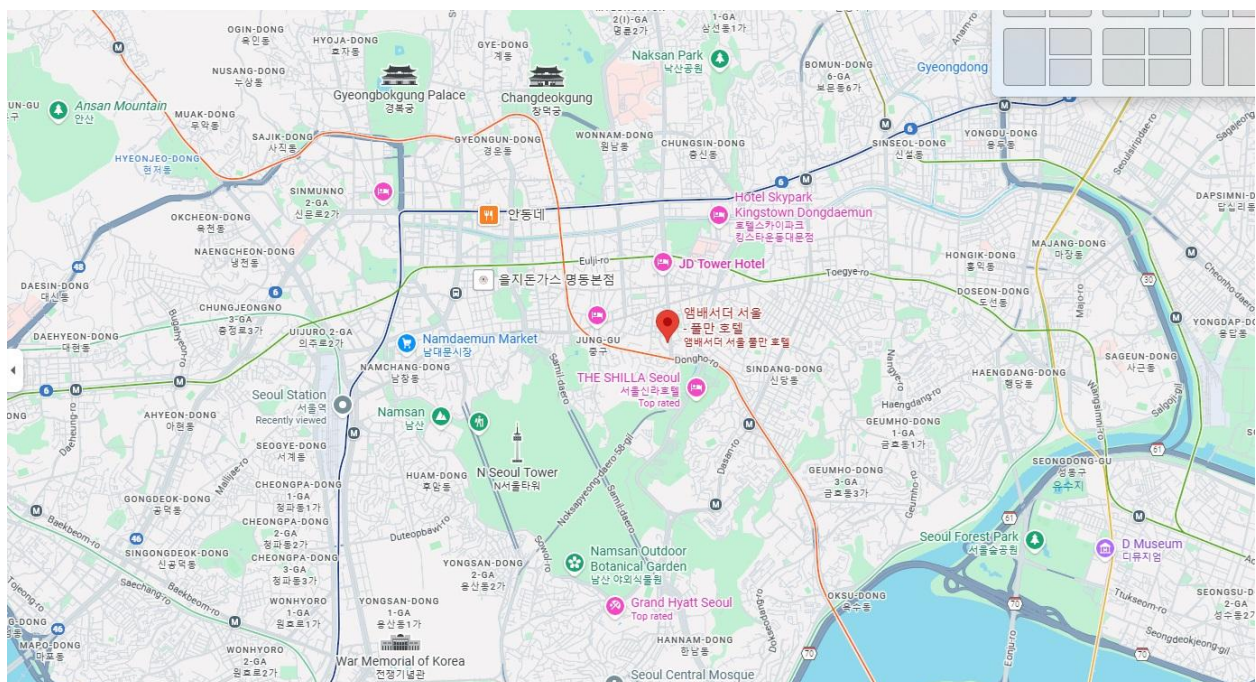
Location: 287, Dongho-ro, Jung-gu, Seoul, South Korea

website: <https://www.ambatel.com/theambassador/seoul/en/main.do>



Location of The Ambassador Seoul - A Pullman Hotel

[Link:place/ The Ambassador Seoul - A Pullman Hotel](https://www.google.com/maps/place/The+Ambassador+Seoul+-+A+Pullman+Hotel)



Accommodations

The Ambassador Seoul - A Pullman Hotel, Seoul, South Korea

Location: 287, Dongho-ro, Jung-gu, Seoul, South Korea

website: <https://www.ambatel.com/theambassador/seoul/en/main.do>



IERE Members List (as of February 1, 2026)

Australia	CSIRO		
Canada	Powertech Labs		
China	CEPRI	NARI	XJ Group
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 GE	
Netherlands	TenneT		
Pakistan	Karachi Electric		
Philippines	APC	MERALCO	
Singapore	SPPA		
South Africa	Eskom	PIESA	
South Korea	Hyundai Electric	KEPCO	KERI
	KOWEPO	LS Electric	
Taiwan	TPC		
US	EPRI	SwRI	



About KEPCO

KEPCO, founded in 1898 (as the Hanseong Electric Company) and formally re-constituted in 1961, has grown into South Korea's largest electric utility and a key player in the global energy industry. With total assets of KRW 246 trillion and annual revenue of approximately KRW 94 trillion in 2024, KEPCO serves a central role in sustaining the country's energy security and industrial growth, supplying over 96 percent of the nation's electricity. The company oversees generation, transmission, and distribution networks, operating an installed capacity exceeding 83 GW through its six power generation subsidiaries – spanning nuclear, coal, LNG, hydro, and renewables.

Driven by its vision to become a “Global Integrated Energy Leader”, KEPCO is accelerating the transition toward low-carbon and digital energy systems. It is actively expanding renewable generation and smart-grid technologies, targeting 49 GW of renewable capacity by 2035 and carbon neutrality by 2050. Beyond domestic operations, KEPCO engages in more than 40 overseas projects across 28 countries, including power generation, grid construction, and engineering services.

Through innovation, global collaboration, and sustainable growth strategies, KEPCO continues to lead the evolution of the energy industry – balancing reliability, environmental responsibility, and technological advancement to deliver value for future generations.

<https://home.kepco.co.kr/>

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>

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