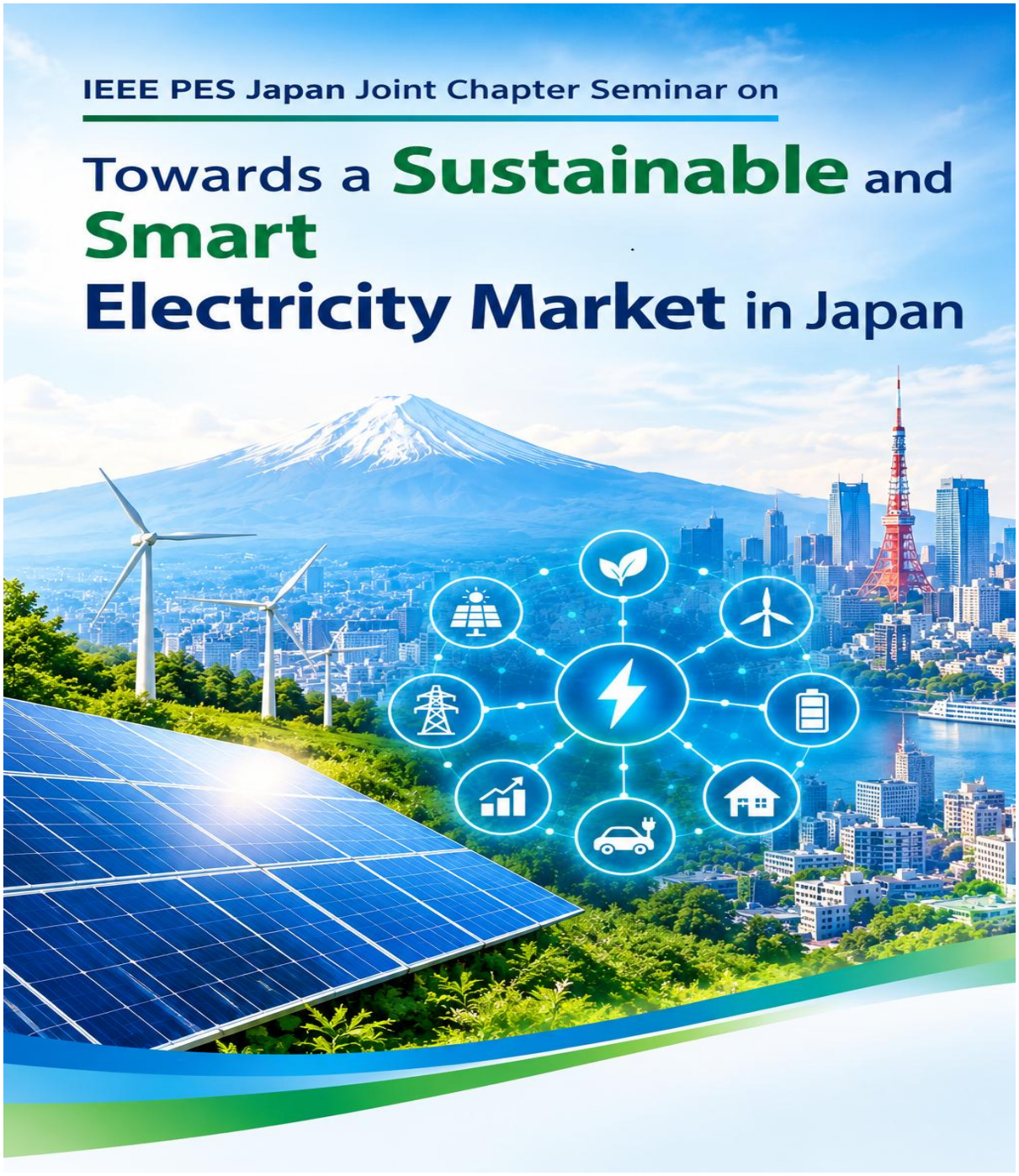

26 January 2027

Venue:

Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Chikushi Campus, Chikushi Hall

IEEE PES Power & Energy Society® Japan Joint Chapter

KYUSHU UNIVERSITY

Q-PIT Kyushu University Platform of Inter-/Transdisciplinary Energy Research

EES Lab

Chair:



Prof. Hooman Farzaneh
Kyushu University, Japan

Keynote Speakers:



Prof. Akiko Kumada
University of Tokyo, Japan
Chair of the IEEE PES
Japan Joint Chapter (2026)



Prof. Keiichi N. Ishihara
Kyoto University, Japan



Prof. Aya Hagishima
Kyushu University, Japan



Mr. Takahiro Kase
Senior Fellow,Toshiba, Japan
Chair of the IEEE PES Japan
Joint Chapter (2027)



Dr. Mohamed Suliman
MFT Energy, Japan

Young Scholar Speakers:



Ms. Dalia Rabie
Kyushu University, Japan



Dr. Etoju Jacob
Micron Memory, Japan



Dr. Mehran Moradi
Karlstad University, Sweden

Seminar Program

13:30 – 14:00	Registration	
14:00-14:20	- Welcome Address - Research on JEPX Market Analysis	Prof. Hooman Farzaneh, Kyushu University, Japan
14:20-15:00	- Introduction to IEE-PES activities -Supporting Sustainable Power Systems: Advances in High-Voltage Engineering	Prof. Akiko Kumada, University of Tokyo, Japan Chair of the IEEE PES Japan Joint Chapter (2026)
15:00 – 15:10	**Break**	
	Session I	
15:10 – 15:40	Understanding Residential Electricity Demand: A Demand-Side Perspective	Prof. Aya Hagishima, Kyushu University, Japan
15:40 – 16:10	Role of Battery Storage in a High-Solar Grid: Lessons from Kyushu	Prof. Keiichi N. Ishihara, Kyoto University, Japan
16:10-16:40	From Long-Term Planning to Delivery: The Techno-Economic Rationale for Financial and Physical Electricity Markets	Dr. Mohamed Suliman, MFT Energy, Japan
16:40 – 17:00	**Break**	
	Session II	
17:00-17:15	Toward Socially Adaptive and Intelligent Demand Response in Japan's Electricity Market	MS. Dalia Rabie, Kyushu University, Japan
17:15-17:30	Advanced Power Converter Control for Modern Microgrids in Japan	Dr. Etoju Jacob, Micron Memory Japan
17:30:17:45	Paving the Path Towards Local Energy Markets in Japan: Opportunities and Challenges	Dr. Mehran Moradi, Karlstad University, Sweden
17:45-18:00	Closing remarks	Mr. Takahiro Kase, Senior Fellow,Toshiba, Japan Chair of the IEEE PES Japan Joint Chapter (2027)



Hooman Farzaneh

Prof. Hooman Farzaneh specializes in energy systems modeling and analysis, with a particular focus on electricity market analysis in Japan, the integration and optimization of hybrid renewable energy systems and microgrids, and demand response mechanisms. Prior to joining Kyushu University, Hooman worked at the Institute of Advanced Energy, Kyoto University, Japan, and the United Nations University, Japan. He has received prestigious awards and research grants from organizations such as the Kyushu Natural Energy Promotion Organization, Hitachi Global Foundation, Asia-Pacific Network, and the Japan Society for the Promotion of Science (JSPS) in recognition of his research on assessing the multiple benefits of low-emission development strategies in Asian cities. His recent books include: "Aligning Climate Change and Sustainable Development Policies in Asia-2021", "Energy Systems Modeling Principles and Applications- 2019" and "Devising a Clean Energy Strategy in Asian cities-2018".



Akiko Kumada

Akiko Kumada is a Professor in the Department of Electrical Engineering and Information Systems at the University of Tokyo, Japan. She received her doctoral degree from the University of Tokyo in 1999. After working at Tokyo Electric Power Company from 2001 to 2003, she returned to the University of Tokyo and became a professor in 2017. Her research interests include high-voltage engineering, electrical insulation, current interruption, and materials informatics, with particular emphasis on optical diagnostics of electric fields and discharge phenomena. Her IEEE activities include leadership roles in both the Power & Energy Society (PES) and the Dielectrics and Electrical Insulation Society (DEIS). She currently serves as Chair of the IEEE PES Japan Joint Chapter and as President of IEEE DEIS for 2026–2027.



Keiichi N. Ishihara

Dr. Keiichi N. Ishihara earned his Ph.D. in metastable materials from the Department of Metal Science and Technology, Graduate School of Engineering, Kyoto University. He led a team on zero-emission scenarios from 2008 to 2013 and published the world's first zero-emission scenarios. Since then, he has studied energy and environmental issues. He served as dean of the Graduate School of Energy Science from 2017 to 2020. He retired in March of 2023 and was granted the title of Emeritus Professor. He is currently leading "Beyond 2050" teams in Institutional Advancement and Communications at Kyoto University to propose images of a new sustainable world.



Aya Hagishima

Aya Hagishima is a Professor at the Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Japan. Her research focuses on energy and environmental performance in the built environment, including building energy use, urban microclimate, thermal comfort, and low-carbon technologies. Her recent work addresses energy-efficient and climate-resilient housing, renewable energy integration, urban heat mitigation, and the improvement of residential environments in Asian cities.



Mohamed Suliman

Dr. Mohamed Suliman has over 10 years of experience in energy economics, energy research, analytics, and power grid engineering design. He is a Quantitative Analyst at MFT Energy, where his interests lie in financial and physical energy markets, fundamental modeling, forecasting, bidding strategies, BESS, and demand response mechanisms. Dr. Suliman holds a Ph.D. from Kyushu University, Japan, where his research focused on virtual power plants, market policies, and controlling interactions among hybrid distributed energy resources.



Takahiro Kase

Takahiro Kase is a Senior Fellow in the Digital Business Division of Toshiba's Transmission & Distribution Division. He joined Toshiba in 1995 and has extensive experience in R&D, international protection and control, and smart grid businesses. He worked in the UK from 2004 to 2008 and in the USA from 2013 to 2018, supporting Toshiba's international business development. Since 2022, he has focused on digital business in the Transmission & Distribution sector. He is a Professional Engineer (Electrical & Electronics) in Japan and serves as Vice Chair of both IEEJ and IEEE PES Japan.



Dalia Rabie

Dalia Rabie is a PhD student at the IGSES, Kyushu University, Japan. Her research focuses on demand response (DR), smart electricity markets, and energy management systems (EMS), combining econometric modeling, multi-objective optimization, and multi-criteria decision-making. She has developed socially adaptive DR frameworks and an autonomous EMS for Japan's electricity market, published in Applied Energy (2026). Her work aims to make power systems more flexible, efficient, and consumer-centric.



Etoju Jacob

Etoju Jacob received a B.Sc. in Electrical Engineering from Makerere University in 2019 and an M.Eng. in Energy Engineering from Kyushu University in 2023. He received his Ph.D. in Energy Engineering from Kyushu University in 2026, with research focused on microgrids, power converters, and advanced control strategies. He currently works as an Electrical Engineer at Micron Memory Japan. He is a member of IEEE, IEEJ, and AEE.



Mehran Moradi

Dr. Moradi received his Ph.D. from Kyushu University, Japan, in 2025 and is currently a Postdoctoral Researcher at Karlstad University, Sweden. His research focuses on electricity markets, local energy systems, renewable energy integration, and energy system optimization.