



# IEEJ P&ES – IEEE PES Thailand Joint Symposium 2026

– Advanced Technology in Power Systems –

March 6, 2026

Executive Room 1+2, Below Lobby Floor,  
Pathumwan Princess Hotel, Bangkok, Thailand

Co-organized by



For online participants



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----- **Technical Program** -----

08:30-09:00 Registration

09:00-09:20 Opening address

Session I

09:20-09:40 Two-Stage Control Strategy for Optimal Microgrid Energy Management with Battery and Hydrogen Storage  
TJS-26-003

*Krifa Chiraz, Sasaki Yutaka, Kubotani Toma, Ahmed Bedawy, Zoka Yoshifumi and Yorino Naoto (Hiroshima University)*

09:40-10:00 Fault Ride-Through Capability in Grid-Forming Inverters: A Case Study of Mae Sariang Microgrid  
PES-26-001

*Kanisorn Samasiri, Thitipong Sinthita, Nottakorn Sukmanont and Thongchart Kerdphol (Kasetsart University)*

10:00-10:20 Development and Field Demonstration of the Iida Microgrid on Actual Power System  
TJS-26-005

*Tada Akira, Nakachi Yoshiki, Furuta Kiyotaka, Enomoto Atsushi, Onishi Hiroaki, Fukatsu Satoshi (Chubu Electric Power Co., Inc.)*

10:20-10:40 Break

Session II

10:40-11:00 Reducing Computational Burden in Transmission Congestion Forecast Considering N-1 Contingency  
TJS-26-001

*Kurosaki Taisuke, Kawabe Kenichi (Institute of Science Tokyo)*

11:00-11:20 LSTM-Based Power Generation Prediction for Real-World Grid-Connected Solar PV Systems with Explainable AI  
PES-26-002

*Emmanuel Ede Ogar, Deborah Oyetolani Ogar, and Surachai Chaitusaney (Chulalongkorn University)*

11:20-11:40 Robust Supply and Demand Management Utilizing Incentive-based Demand Response with Battery Energy Storage  
TJS-26-002

*Sasaki Yutaka, Saito Ryo, Zoka Yoshifumi, Bedawy Ahmed and Yorino Naoto (Hiroshima University)*

- 11:40-12:00      **A Comparative Techno-Economic Analysis of Renewable-Powered Data Centers**  
PES-26-003      *Jirawadee Polprasert, Akaraphunt Vongkunghae, Kumpon Subsomboon and Kwanchai Kraitong (Naresuan Univeristy)*
- 12:00-13:00      **Lunch**
- Session III**
- 13:00-13:20      **Sensitivity Analysis of Short-Term Frequency Stability to Post-Contingency Active Power Increase and Support Duration from Deloaded Wind Turbines**  
TJS-26-006      *Oh Seongheon and Kawabe Kenichi (Institute of Science Tokyo)*
- 13:20-13:40      **Modeling and Harmonic Mitigation Strategy for a Grid-Forming Inverter in EV Charging Systems**  
PES-26-004      *Pipat Wichailak, Wanida Padphai, Nottakorn Sukmanont and Thongchart Kerdphol (Kasetsart University)*
- 13:40-14:00      **Adaptive Energy Management System with Integrated Voltage Control for Active Distribution Networks**  
TJS-26-004      *Bedawy Ahmed, Sasaki Yutaka, Zoka Yoshifumi (Hiroshima University), Mahmoud Karar (Aswan University), Yorino Naoto (Hiroshima University)*
- 14:00-14:20      **Break**
- Session IV**
- 14:20-14:40      **Status and future direction of digital relay operation and maintenance in Japan**  
TJS-25-007      *Ueda Yoshinobu (Meidensha Corporation)*
- 14:40-15:00      **Condition Monitoring and Health Assessment of Overhead Transmission Conductors operating under Extreme Weather and Loading**  
PES-26-005      *Saifal Talpur and Surachai Chaitusaney (Chulalongkorn University)*
- 15:00-15:20      **Evaluation of the impact on transformer insulation by lightning surge voltage analysis on wide-area power systems**  
TJS-26-008      *Ogura Yosuke and Yoshida Masanobu (Chubu Electric Power Co., Inc.)*
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