

International Workshop on Power and Energy Innovation for Younger Professionals (IPEYP2025)

Date: January 29, 2025

Time: 13:00 (Mongolia time) / 14:00 (Japanese time)

Mode: Online via Zoom

<https://kyutech-ac-jp.zoom.us/j/83372483108?pwd=13KCgO7qUV9iDnMjNIw2WD9kvQgUNr.1>

No	Time (UTC+8) Mongolia time	Title	Authors (<u>Speakers</u>)
	13:00-13:10	Opening	Bat-Erdene Bayar from PES, MUST Shinya Ohtsuka from KIT
Main session			
1	13:10-13:30	Discharge detection and circuit interruption technologies to protect fire accident during the microwave operation	<u>Gonchigsuren Sergelen</u> , Gantulga Tuvshunzaya, Shinya Ohtsuka (KIT)
2	13:30-13:50	AI-based classification of discharge types in electric power equipment based on the frequency characteristics of PD-radiated EM waves for smart diagnostics	<u>Shumpei Ogawa</u> , Shinya Ohtsuka (KIT)
3	13:50-14:10	Mini robot for detecting and following moving object	<u>Munkh-Orgil Amarsaikhan</u> , Ulziinorov Dondov (MUST)
4	14:10-14:30	Influences of defect shape on partial discharge-emitted EM wave properties in HV gas-insulated equipment for PD test	<u>Takuya Matsufuji</u> , Yuto Tamaki, Shinya Ohtsuka (KIT)
5	14:30-14:50	Study of newly commissioned solar power plants impacts on the frequency stability of the Mongolian power grid: a case study on Altai-Uliastai Energy System	<u>Amarsaikhan Chuluun</u> , Munkhtur G., Tserenbat B., Enkhsaikhan. Erdenebat (MUST)
Break (14:50-15:00)			
6	15:00-15:20	Propagation properties of PD-emitted EM waves in three-phase GIS for smart diagnostics by FDTD analysis	<u>Yuki Taketomi</u> , Yuzan Sasaki, Shinya Ohtsuka (KIT)
7	15:20-15:40	A Study of the Impacts of Large-Scale Wind Power Plants on the Steady-State Operation of Mongolia's Central Energy System	<u>Ochirbat Tsetsegee</u> , Munkhtuya Erdenebat (MUST)
8	15:40-16:00	Research on EP demand forecasting: - Comparison of EP consumption properties between 3 KIT campus and Kyushu Island - Visualization of public and observed data related to EP consumption and weather together with the analyzed results	<u>Yuto Tamaki</u> , Taichi Sakai, Kaimei Cho, Shinya Ohtsuka (KIT) <u>Kaimei Cho</u> , Shunpei Ogawa, Taichi Sakai, Yuto Tamaki, Shinya Ohtsuka (KIT)
9	16:00-16:20	Modelling current protection's	<u>Bavuu-Orgi Batdelger</u> , Battulga Munkhbaatar (MUST)
10	16:20-16:40	Battery Charger Using the Single-Phase Composite	<u>Katsuhiko Harada</u> (Kurume Institute

		PWM Voltage Source Converter	of Technology)
11	16:40-17:00	Switching noise properties from VSD and servomotor system for smart factory	<u>Gantulga Tuvshunzaya</u> , Gonchigsuren Sergelen, Shinya Ohtsuka (KIT)
	17:00-17:30	General discussion & closing	Bat-Erdene Bayar from PES, MUST Shinya Ohtsuka from KIT