PARALLEL PRESENTATION SCHEDULE OF ICT-PEP 2025

PARALLEL PRESENTATION SESSION 3 (Thursday, September 4, 2025)

Time	ROOM : JASMIN 1 — Topic : Power Generation — Session Chair : Andi Makkulau — Co-Session Chair : Muhammad Arif — Session PIC : Naily Lathifa Zahra		ROOM : JASMIN 2 — Topic : Renewable Energy & Energy Storage — Session Chair : Hasna Satya Dini — Co-Session Chair : Denny Haryanto Sinaga — Session PIC : Rihadatul Aisy Nafia Putri		ROOM : JASMIN 3 — Topic : Transmission & Distribution Systems — Session Chair : Muhammad Sofyan — Co-Session Chair : Hans Siregar — Session PIC : Maria Avellia Karisya W.		ROOM : JASMIN 4 — Topic : Smart Grids, AI/ML & Policy — Session Chair : Pritasari Palupiningsih — Co-Session Chair : Rahmat Ismoyo Putro — Session PIC : Shabira Salwa Hanan	
Time	Paper Title	Presenter	Paper Title	Presenter	Paper Title	Presenter	Paper Title	Presenter
09.00 – 09.15	1571144114 — Investigating the Potential of a New Green Hydrogen Production Method in Indonesia: Thermochemical Water-Splitting	Alfian Muhammad Reza	1571158809 — Kalman Filter-Based Adaptive Load Shedding for Solar Photovoltaic Integration in Indonesia's Isolated Grid	Ernanda Jumantoro	1571168001 — Optimal Power Flow Considering Generation and Loss Costs Using Particle Swarm Optimization (PSO) on the Gorontalo Power System	Azhar Ade Prasetya	1571162193 — A Real-Time Sensorless ML System for Marine Biofouling Forecasting Using Open Data: Green Mussel Case in Coastal Power Plants	Pristian Dwi Putra
09.15 – 09.30	1571153530 — Design and Evaluation of Solar PV for Green Hydrogen Production: Case Study in Pelabuhan Ratu Power Station	Rainhold Tigor Parlindungan Butarbutar	1571159025 — Cyber Physical Additional Layer for Mass Electric Vehicles Charging Services in Indonesia	Meiyanto Eko Sulistyo	1571150373 — Selective Multi-Objective Economic Dispatch Using B-Loss Coefficient Method for Transmission Loss Minimization in the Java-Madura-Bali Grid	Yudha Nur Ma'arif	1571159625 — State of Health (SOH) Prediction of Lithium Ion Battery Using LSTM GRU: A Comparative Experimental vs Field Dataset	Dani Prasetyo
09.30 – 09.45	1571167906 — Short-Term Forecasting of Solar and Wind Power Potential Using ARIMA Based on Real-Time Weather Data	Syafii	1571169272 — Generation Expansion Planning Considering BESS for Optimizing the Full Potential of Solar Power Plant: a Case Study of Flores Power System	Aginta Ramadhanu Adjani	1571159499 — Development of Frequency Constraint-Based Security Constrained Optimal Power Flow: a Case Study of Kalimantan Interconnection System	Mochamad Farid Mustofa	1571147331 — GOVision: Neural Network-Based Online Monitoring for Gas-Insulated Switchgear and HV Oil-Filled Cables	Dhany Irvandy
09.45 – 10.00	1571167811 — Optimization of Long-Term Power System Planning Toward Net-Zero Emissions: a Case Study of Sumbawa Island	Elda Alfandy	1571152308 — Substation Location and Cable Connection Optimization in Irregular Onshore Wind Farm	Mohamad Isnaeni Romadhon	1571158807 — Unit Commitment with 2-Minute Fast Frequency Reserve Constraint in the Jawa-Madura-Bali Power System	Imron Rosyadi	1571147161 — Fault Prediction in Power Distribution Networks Through XAI: A Study of LIME and SHAP Applied to Random Forest Models	Nita Indrayani
10.00 – 10.15	1571155521 — Optimizing Operational Strategies for Coal-Fired Power Plants Integrated with PV and Energy Storage: a Case Study of BESS and TSPP	Dira Tri Puspita	1571138956 — Optimum Battery Sizing and PV Integration for off-Grid Vertical Hydroponic Systems	Ishmatu Aulia Rizky Kirana	1571159973 — Optimization of SVC Placement and Sizing in the Gorontalo Power System Using TLBO	Muhammad Budianoor Yudhifani	1571132834 — Performance Analysis and Comparison of Faster RCNN Model for Automatic Electricity Meter Reading Recognition	Atam Rifai Sujiwanto
10.15 – 10.30	1571170529 — Optimal Load Shedding Scheme to Enhance Frequency Stability During Island Operation in Bali Power Systems	Muhammad Arif	1571147216 — Performance Enhancement of Photovoltaic Panels Using Dual-Axis Solar Tracker and Active Cooling Systems	Denny Haryanto Sinaga	1571156448 — Analysis of the Utilization of Gypsum Powder Composition and Fly Ash for Improving Grounding Resistance at Variations in Electrode Depth	Hans Siregar	1571146356 — Electricity Theft Detection Based on Load Profile Using XGBoost and SMOTE	Rahmat Ismoyo Putro
10.30 – 10.45	COFFEE BREAK							

PARALLEL PRESENTATION SESSION 4 (Thursday, September 4, 2025)

Time	ROOM : JASMIN 1 Topic : Power Generation Session Chair : Andi Makkulau Co-Session Chair : Muhammad Muflih Nurfaizi Session PIC : Naily Lathifa Zahra		ROOM : JASMIN 2 Topic : Renewable Energy & Energy Storage Session Chair : Hasna Satya Dini Co-Session Chair : Yogi Imam Febriansyah Session PIC : Rihadatul Aisy Nafia Putri		ROOM : JASMIN 3 Topic : Transmission & Distribution Systems Session Chair : Muhammad Sofyan Co-Session Chair : David Silalahi Session PIC : Maria Avellia Karisya W.		ROOM : JASMIN 4 Topic : Smart Grids, AI/ML & Policy Session Chair : Pritasari Palupiningsih Co-Session Chair : Yajing Wu Session PIC : Shabira Salwa Hanan	
	Paper Title	**Presenter**	**Paper Title**	**Presenter**	**Paper Title**	**Presenter**	**Paper Title**	**Presenter**
10.45 – 11.00	1571154823 — Synchro-Waveform Monitoring Unit Application: Lissajous DQ Curve to Improve Situational Awareness in Power Distribution Network	Ardyono Priyadi	1571170873 — Evaluation of PV Solar Panels Based on Specific Energy with Various Azimuth Angles in Equatorial Regions: Case Study of Riau, Indonesia	Fredimino Efka	1571169394 — Residential Demand Response to Mitigate Load Congestion in Distribution Transformer: a Case Study	Toha Kusuma	1571167903 — Machine Learning-Based Performance Forecasting of Rooftop PV Systems in Tropical Coastal Regions Using Multivariate Environmental Features	Pristian Dwi Putra
11.00 – 11.15	1571167060 — Voltage Stability Through over Voltage Transmission Shedding Case Study: Interconnection Between Central Kalimantan System and Ketapang System	Novandi Wijayanto	1571169289 — Wind Farm Design with a Capacity of 1 GW: Case Study in Navitus Bay, England, UK	Diken Yus Damara	1571157797 — Optimizing Rural Electrification in Central Papua Using the Analytic Hierarchy Process	Marshall Virgin Supit	1571170898 — Prediction of Battery Internal Resistance Dynamics over Lifespan Using Early-Cycle Data and Random Forest-Optimized Exponential Regression	Muhamad Dzaky Ashidqi
11.15 – 11.30	1571168929 — Optimal Combination of Protection Systems and Defense Scheme for a Radial Transmission of Timor Power System	Akhmad Sudaryono	1571132344 — Assessing Satellite-Based GHI Accuracy via Statistical and LSTM Approaches: Nusa Penida PVPP Case Study	Nathan Saputra Sitohang	1571129560 — A Portable Device for Energy and Back-Billing Monitoring to Reduce Distribution Losses at PLN ULP Bangkir	Arief Rahmadani	1571168753 — Economic Feasibility of Vehicle to Grid (V2G) Implementation in Indonesia: Cost Benefit Analysis (CBA) Perspective	Kharisma Utomo Mulyodinoto
11.30 – 11.45	1571170675 — Impact of Through Fault Current on Insulating Oil Characteristics and Dissolved Gas Content in Power Transformers	Anindita Singgih Pambudi	1571170073 — Evaluated Hosting Capacity Method Using Quasi-Static Time-Series Simulations for Distributed Energy Resource	Daniel Krisdiantoro	1571132807 — Classification of Causes Faults on Power Transmission Lines Using Convolutional Neural Network	Muhammad Luthfiansyah Romadhoni	1571171061 — The Role of Internet Signal Quality in Maximizing Revenue and Reliability of Indonesia's Electric Vehicle Charging Networks Case Study PT PLN EV Charging Station	Luddie Wied Hardono
11.45 – 12.00	1571146462 — Bekasi Digital Substation: an Overview of Indonesia's Largest Digital Substation	Muhammad Muflih Nurfaizi	1571131679 — Integrated Optimization of Operational Cost, PV Curtailment, and Renewable Energy Penetration in Hybrid Systems Using Linear Programming	Yogi Imam Febriansyah	1571132754 — Interfacial Tension and Total Acid Number Correlation in Natural Ester Transformer Oils	David Silalahi	1571160085 — Construction of the IEEE Standards Framework for UAV-Based Remote Sensing in Low-Altitude Perception	Yajing Wu

12.00 – 13.30	LUNCH BREAK

PARALLEL PRESENTATION SESSION 5 (Thursday, September 4, 2025)

Time	ROOM : JASMIN 1 Topic : Power Generation Session Chair : Andi Makkulau Co-Session Chair : Irvan Lewi Session PIC : Naily Lathifa Zahra		ROOM : JASMIN 2 Topic : Renewable Energy & Energy Storage Session Chair : Hasna Satya Dini Co-Session Chair : Bagus Aji Supeno Session PIC : Rihadatul Aisy Nafia Putri		ROOM : JASMIN 3 Topic : Transmission & Distribution Systems Session Chair : Muhammad Sofyan Co-Session Chair : Imaduddin Session PIC : Maria Avellia Karisya W.		ROOM : JASMIN 4 Topic : Smart Grids, AI/ML & Policy Session Chair : Pritasari Palupiningsih Co-Session Chair : Nathan Saputra Sitohang Session PIC : Shabira Salwa Hanan	
	Paper Title	**Presenter**	**Paper Title**	**Presenter**	**Paper Title**	**Presenter**	**Paper Title**	**Presenter**
13.30 – 13.45	1571131242 — Optimization of High Voltage Protection: Evaluation of Voltage Dip Mitigation Strategies in the Bali Subsystem	Ariesa Budi Zakaria	1571131688 — Fuzzy Logic Control System for Solar-Powered Aerator Wheels to Enhance Growth of Vannamei Shrimp	Tepy Lindia Nanda	1571146544 — Geoprocessing Vegetation Management Tool (GVMT): a Decision Support System for Vegetation Monitoring in Power Distribution	Very Fernando	1571132003 — Novel Substrate Technology Properties in Electric Vehicles and Renewable Energies Applications	Bagas Maulana Sutardi
13.45 – 14.00	1571154871 — Prioritization of Maintenance for 20 kV Distribution Transformers Using Analytical Hierarchy Process Method	Noor Rohman Kusuma	1571132625 — Assessing Building Energy Demand and Opportunities Under Climate Change: a Data-Driven Decision Support Tool	Bona Ryan	1571132815 — Identification and Analysis of Partial Discharge (PD) in 20 kV Incoming Cubicles Due to Moist Conditions Caused by Heating System Failure in the Transformer #2 of the 150kV Rangkasbitung Substation	Muhammad Nurhuda	1571142049 — An Improved Defected Ground Structure Wideband Triangular Patch Antenna Performance for 2.4 GHz RF Energy Harvesting	Rizky Wibawa
14.00 – 14.15	1571157528 — A Comprehensive Failure Case Review of Missing Earth Connection in Medium Voltage Cable 20kV	Nanda Redha Arsya	1571167257 — Analysis Design Optimization of a Three-Stage Darrieus Turbine for Hydro-Power Generation from Coastal Canal Flows in PLTU Pelabuhan Ratu CFPP	Hakim Satyadi	1571158680 — AI-Driven Vegetation Control for Blackout Prevention on High-Voltage Transmission Lines in Central and West Java, Indonesia	Imaduddin	1571152190 — Loss Reduction Through LSTM Forecasting and Reinforcement Learning-Based Dispatch of Distributed Generation	Nathan Saputra Sitohang
14.15 – 14.30	1571171015 — Saturation Analysis of Current Transformers: Impact of CT Class and Cable Selection - a Case Study of Transformer 3 at Angke Substation	Irvan Lewi	1571159638 — Machine Learning-Based Anomaly Detection for Modbus and DNP3 Protocols in Industrial Control Systems	Bagus Aji Supeno				