

Date : **Monday, August 7, 2023****WORKSHOP EVENT**

Time	Activity	Track High Voltage	Track Power System
08.30 - 08.45	Opening Speech		
08.45 - 10.15	Speaker 1	Prof. Kawasaki Zenichiro (Osaka University) "Renewable energy plant on Java sea and lightning protection"	Prof. Ahmed Abu-Siada (Curtin University) "Superconducting Magnetic Energy Storage, a promising technology for future power grids"
10.15 - 10.30	<i>Coffee Break</i>		
10.30 - 12.00	Speaker 2	Prof. Guan-Jun Zhang (Xi'an Jiaotong University) "New techniques of intelligent condition detection and diagnosis for high voltage power equipment"	Dr. Laurent Canale (LAPLACE Université de Toulouse) "State of the art of modern light source' technology – over 150 years of evolutions and revolutions"
12.00 - 13.30	<i>Lunch Break</i>		
13.30 - 15.00	Speaker 3	Prof. Masahiro Kozako (Kyushu Institute of Technology) "Nano materials and its application in high voltage equipments"	Djoko Prasetyo, Ph.D. (CIGRE Indonesia) "Power system planning with higher penetration VRE"
15.00 - 15.30	<i>Coffee Break</i>		
15.30 - 17.00	Speaker 4	Prof. Ahmed Abu-Siada (Curtin University) "Asset Management and Condition Monitoring of Power Transformers"	Dr. Ir. Nanang Hariyanto (Bandung Institute of Technology) "Java-Bali Power Grid — Issues & Future Challenges"

Date : **Tuesday, August 8, 2023****CONFERENCE DAY-1**

Time	Program	Descriptions
07.00 - 18.00	Registration	
08.30 - 09.00	Opening Ceremony	
09.00 - 09.45	Invited Session-1	Prof. Ahmed Abu-Siada (Curtin University) "I-V Lissajous Pattern: a Promising Condition Monitoring Technique for High Voltage Assets"
09.45 - 10.30	Invited Session-2	Prof. Masahiro Kozako (Kyushu Institute of Technology) "Deterioration State Identification of Oil-paper Insulated Transformer Bushing Based on Frequency Domain Spectroscopy"
10.30 - 11.00	<i>Coffee Break</i>	
11.00 - 11.45	Invited Session-3	Prof. Zenichiro Kawasaki (Osaka University) "Ultimate VHF Broadband Interferometer for Lightning Channel Imager in 3D"
11.45 - 12.30	Invited Session-4	Dr. Ir. Syarif Hidayat (Bandung Institute of Technology) "A preliminary result of lightning peak current measurement in Cilacap at Central Java, Indonesia"
12.30 - 14.30	<i>Photo Session + Lunch Break</i>	
14.30 - 16.00	Oral Session-1 (OS1)	
16.00 - 16.30	<i>Coffee Break</i>	
16.30 - 18.00	Oral Session-2 (OS2)	
18.00 - 19.00	<i>Break</i>	
19.00 - 22.00	GALA DINNER	

Date : **Wednesday, August 9, 2023****CONFERENCE DAY-2**

Time	Activity	Descriptions
08.00 - 16.00	Registration	
08.30 - 09.15	IS-5 (Guan-Jun Zhang)	Prof. Guan-Jun Zhang (Xi'an Jiaotong University) "Deterioration State Identification of Oil-paper Insulated Transformer Bushing Based on Frequency Domain Spectroscopy"
09.15 - 10.00	IS-6 (Laurent Canale)	Dr. Laurent Canale (LAPLACE Université de Toulouse) "Discovery of LED Lighting: a history of science between research, work and serendipity"
10.00 - 10.30	<i>Coffee Break</i>	
10.30 - 12.00	POSTER Session	
12.00 - 13.30	<i>Lunch Break</i>	
13.30 - 15.00	Oral Session-3 (OS3)	
15.00 - 15.30	<i>Coffee Break</i>	
15.30 - 17.00	Oral Session-4 (OS4)	
17.00 - 18.00	Closing Ceremony	

Room/ Session	No	A (Asset Management)	B (Condition Monitoring and Diagnosis 1)	C (Photovoltaic)	D (Power System on AMI and others)	E (Insulating Material 1)
OS-1	1	4864 A Method to Quantify Data Quality in Asset Health Indices Model Andreas Purnomoadi* (PLN, Indonesia), Ira M. Sari, Anna Maria Josephine Simatupang, Dimas B. Fiddiansyah, N.E. Saputro and M.S. Sofan Hadi	922 Assessing Transformer Insulation Aging through Oil Treatment Index: A Comparative and Correlation Study of 150 kV Power Transformers Rahman Azis Prasajo* (Polinema, Indonesia), Liska Safarina, Rohmanita Duanaputri, Indra Kurniawan, Eko Yulianto and Suwarno	3627 Design of 1 kWp Solar Water Pump System for Land Irrigation in Banjaran Adinda Ihsani Putri* (Prasmul, Indonesia), Puji Sakinah Marinda, Permata Nur Miftahur Rizky, Misbahul Munir and Lina Jaya Diguna	9140 Comprehensive Assessment of Small Batch Advanced Metering Infrastructure Utilization on Java Region to Support Indonesian Smart Grid Systems Muhammad Helmi Prakoso* (PLN, Indonesia), Fiki Irawan, Abdul Muiz Sufianto and Dhanu Rediansyah	Invited Speaker in Session Dr. M.V. Reddy (Nouveau Monde Graphite, Canada)
	2	7393 Distribution Transformer Assessment and Risk Identification in PT PLN (Persero) UID Banten Eka Dharma Yanthi* (PLN, Indonesia), Tribaktih Sadenna and Rio Ferdian	2217 Evaluation of Various Transformer Field Conditions Using Cross-Combined Frequency Response Analysis to Identify Specific Deformity Bagas Maulana Sutardi, Ario Wulung, Muhammad Helmi Prakoso, Ary Pudiatomoko* (PLN, Indonesia), Abd Azis Reskiawan M, Umar Khayam and Suwarno Suwarno	3355 Analysis of Off-Grid PV Generation Systems for 3T (Frontier, Outermost, and Least Developed) Regions Using Lead Acid Battery Energy Storage Harris Hartman* (ITB, Indonesia), Umar Khayam, Deny Hamdani, Dwi Mandaris and Juan Robert Laurente Gálvez	8523 Integrating Existing Pre-Paid Energy Meter to Advanced Metering Infrastructure (AMI) System Guntur Supriyadi* (PLN, Indonesia), Dimas Aji Nugraha and Bintang Hadi Dharna	4806 Investigation Properties of Silicone Elastomer Insulation with Difference Composition Nanofiller SiO₂-ATH Under Artificial Tropical Climate Ageing Salama Manjang* (Unhas, Indonesia), Ikhlis Kitta and Zarlina Zainuddin
	3	340 Practical Approach in Setting Asset Management System and Capability in a State-Owned Utility Anita Pharmatrisanti* (PLN, Indonesia), Andreas Purnomoadi, Heri Purnomo, Sylvina Naswil, Erny Anugrahany, Ira Mardiyasari and Herry Nugraha	8976 Assessment of Power Transformer Solid Insulation Condition Using a Composite Index: A Case Study of UIT-JBM Population Rahman Azis Prasajo, Indra Kurniawan* (PLN, Indonesia), Didik Fauzi Dakhlan, Ika Sudarmaja, Wisnu Fitri Praditama and Liska Safarina	4618 A Deep Learning-Based Framework for Automatic Detection of Defective Solar Photovoltaic Cells in Electroluminescence Images Using Transfer Learning Abraham Kaligambe* (Shibaura IT, Japan) and Goro Fujita	5785 An Investigation into Measurement Anomaly for Dual-Feeder and Dual Energy Metered Customer Dimas Aji Nugraha* (PLN, Indonesia), Guntur Supriyadi, Aji Suryo Alam and Oksa Prasetyawan Wijayadi	343 Study of EMI Shielding Performance of CNT-filled Epoxy Resin Himanshu Gupta* (IIT Kanpur, India), Ankit Chauhan, Prabhat K Agnihotri, Sumit Basu and Nandini Gupta
	4	9224 Risk-Based Prioritization Method for Rescheduling Delayed Preventive Maintenance of Electric Power Transmission Assets Shaga Shaulagara, Verly Fazlurrahman* (PLN, Indonesia) and Hening Putri Riyandhini	6924 On Site Repair Internal Transformer's Damage Effect From Through Fault Current Disturbance Eki Farlen* (PLN, Indonesia), Yoranda Putri Ristanti and Devi Cahyaningrum	1980 Engineering Study of Rooftop Photovoltaic "Study Case in Elementary School, Jakarta Tyas Kartika Sari* (Univ Trisakti, Indonesia), Syamsir Abduh, Dianing Novita Nurmalia Putri, Chairul Gagarin Irianto and Maulasukma Widjaya	1001 Implementation of Home Energy Management System for Indonesia Homes with Hybrid Power Plant Muammar Qhadafhi* (Tel-U, Indonesia), Jangkung Raharjo and Kharisma Bani Adam	4802 Adding of SiO₂ Nanocomposite on Insulation Properties for Epoxy Resin Insulating Material Abdul Syakur* (Undip, Indonesia), Desta Rossi Septian, Ibrahim Khairunnas, Trinita Sigiro, Aulia Aulia and Umar Khayam
	5	5752 Asset Criticality Quantification in a Vertically Integrated Electricity Utility Heri Setyo Purnomo* (PLN, Indonesia), Andreas Putro Purnomoadi, Agus Setiawan, Arief Ibrahim Wuller, Nuryanto Eko Saputro and A. Pharmatrisanti	3987 Implementation of Certainty Level (CL) on Transformers Health Index on Basis of Oil Quality Factor (OQF) on Kalsulmapana Region Eko Yulianto* (PLN, Indonesia) and Rahman Azis Prasajo	5502 Study Of Optimization Of Photovoltaic Types Of Solar Modules For Batteries On Load Characteristics Heri Suyanto, Erlina ST MT* (IT PLN, Indonesia), Retno Aita Diantari, Tri Joko Pramono and Iwan Tutuka Pambudi	4629 Impact of The Increase in Fuel Cost For Jawa Madura Bali Electricity System Due to Carbon Tax Implementation Plan In 2022 Putranusa Perkasa (PLN, Indonesia), Ziqri Umardi and Zilfa Hasanita Natalia	3507 Investigation of SiO₂/ATH/TiO₂ micro-nanofillers to improve performance of silicone rubber toward UV radiation and partial discharge on high voltage outdoor insulators Mustamin* (Unhas, Indonesia), Syafaruddin, Salama Manjang and Paulina Taba
	6	7406 Methods to Estimate the Likelihood of Failure of Individual Asset in a Power System Business Andreas Purnomoadi* (PLN, Indonesia), Heri Sutikno, Dhanu Rediansyah, Rezza Eko Prasetyo, R. Dimas Dityagraha and Achmad Syerif Habibie	449 Lifetime Study of Trafo 150KV BAT.12 on Gas Turbine 1.2 PT PLN Indonesia PowerPriok Gas and Steam Power Plant Jujun Tugistan Dana Atmaja* (PLN, Indonesia), Syamsir Abduh and Dheny Cipta Firmada	6277 Comparative Analysis of Defective Solar PV Module Inspection Using Thermal Infrared and Electroluminescence Imaging Techniques Kota Nakagawa* (Shibaura IT, Japan), Abraham Kaligambe and Goro Fujita	4482 Analysis of Co-firing in 25 MW CFB Boiler Coal-fired Power Plant Using Palm Kernel Shell to Support Indonesia Energy Transition Jonathan Dian (PLN, Indonesia), Ivan Bagus Novendianto and Firza Zulmi Rhamadhan	7800 Computation of Dielectric Constant of Cross-linked Epoxy resin through Molecular Dynamics Pratyasha Das* (IIT Kanpur, India), Sumit Basu and Nandini Gupta

* Red font : presenter

Room/ Session	No	A (PV & Hybrid System)	B (Condition Monitoring and Diagnosis 2)	C (Power System Control)	D (Power System Protection)	E (Insulating Material 2)
OS-2	1	6596 Design Planning of Hybrid PV System on Singkep Island Muhammad Qadi* (ITB, Indonesia), Syarif Hidayat and Bryan Denov	8927 Prediction Health Index using machine learning and its correlation with Transformer Age on historical data Gemelfour Ardiatus Sudrajad* (ITB, Indonesia), Suwarno Suwarno and Gemelthree Ardiatus Subekti	Invited Speaker in Session Prof. Udaya Madawala (University of Auckland, New Zealand)	9473 Study of Protection System Setting to Mitigate Inrush Current Phenomenon: A Case Study in PT PLN (Persero) UPT Durikosambi Syaikh Mubarak* (IT PLN, Indonesia),Musa Partahi Marbun, Muhammad Fadli Nasution and Arfan Id'ha Norgiyanto	1018 Evaluation of Total Acid Number (TAN) of Synthetic Ester Retrofilled Oil and its Correlation with FTIR Spectroscopy Nur Amirah Othman, Hidayat Zainuddin* (UTeM, Malaysia), Muhammad Sharil Yahaya, Norhafiz Azis, Zulkifli Ibrahim and Mohd Affendi Che Musni
	2	1791 Optimization of Configuration Hybrid Power Generation System at Oil Refinery Muhamad Apriyudi Syafputra* (UGM, Indonesia), Joko Waluyo and Roni Irnawan	3124 Mitigation of the Potential for Sudden High-Temperature Hotspots on Substation Equipment Muhammad Abdel Haq* (PLN, Indonesia), Kurniawan Danu D, Syafii and Muhardika	6213 Finite Control Sets Model Predictive Control (FCS-MPC) Implementation in PV Converter System for Maintaining The DC Bus Voltage Wakhyu Dwiono* (ITB, Indonesia), Bambang R Trilaksono, Tri Desmana Rachmildha and Arwindra Rizqjawan	3931 Power Quality Assessment on Priority Industrial Customers of Java-Bali Grid Dhandis Rito Jintaka* (PLN, Indonesia), Muhammad Ridwan, Achmad Syerif Habibie and Hakim Habibi	8830 Insulator Coating To Improve Outdoor Insulator Performance Retno Aita Diantari* (ITB, Indonesia), Rachmawati, Umar Khayam and Suwarno Suwarno
	3	4267 Comparison of Solar Power Meter and Intelligence Solar Power Meter and Its Impact on Solar Photovoltaic Design Ramadhani N. Atina* (Tel-U, Indonesia), Sudarmono Sasmono, Wahmisari Priharti, Muhammad R. A. Nata and Septiza F. Naifa	2165 Naïve Bayes Model for Combining Results from Multi-Methods Fault Identification of Power Transformer Rahman Azis Prasajo* (Polinema, Indonesia), Hafiz Furqoni Wisam Azizi, Indra Kurniawan, Suwarno, Heri Sutikno and Imron Ridzki	2030 Effectiveness Verification of the Dynamic Volt-Var Control to Reduce SVC Capacity Haruka Maeda* (Shibaura IT, Japan), Sandro Sitompul and Goro Fujita	7634 Discrete Fourier Transform Analysis on Highly Penetrated Variable Renewable Energy System to Achieve Frequency Stability Radhitya Alfiandi* (ITB, Indonesia), Kevin M. Banjar-Nahor and Nanang Hariyanto	9287 Influence of the manufacture process parameters on the dielectric properties of a composite material for the use in dry type transformers Javier Torres* (LUH, Germany), Laureen Stahl and Peter Werle
	4	6399 Techno-economic Analysis of Hybrid Renewable Energy Systems for Off-grid Small Systems in Remote Areas of Indonesia: A Case Study in Three Locations Didik Sudarmadi* (UI, Indonesia), Jordan Ananda Purnomo and Iwa Garniwa	8905 Condition Monitoring of High Voltage Motors Utilizing Corona Camera to Determine the Precise Location of Insulation Surface Discharge as the Basis for Undertaking the Appropriate Repair Ahmad Ulul Albab* (Paiton, Indonesia), Amirul Ichwan and Ronaldo Martua	158 Volt-Var Control for Utility-scale Solar PV Plants to Replace SVCs Ken Shimomukai* (Shibaura IT, Japan), Haruka Maeda and Goro Fujita	4642 20kV busbar protection design development to overcome various disturbances caused by transformer loading configurations Hedi Purwanto* (PLN, Indonesia), Rofiul Huda, Agus Indarto, Dahlia Deka P, Fenni Prisilia and Zico Alaia Akbar	3152 Characteristic of Cup-and-Pin Insulator Flashover Voltage under Fan-Shaped Contamination with Various Types and Levels of Pollutant Mochammad Wahyudi* (UGM, Indonesia), Tumiran Tumiran and Noor Akhmad Setiawan
	5	1368 Optimizing Local Renewable Energy Resources for Reducing Energy Dependency on An Isolated Island: A Case Study of Saumlaki Island, Indonesia Tumiran* (UGM, Indonesia), Sarijiya, Lesnanto Multa Putranto, Rizki Firmansyah Setya Budi and Ahmad Adhiim Muthahhari	7555 Determination of Weighting Factor for High Voltage Equipment Replacement Priority Index using Analytic Hierarchy Process Daniel Bimbingan* (PLN, Indonesia), Didik Fauzi Dakhlan, Indra Kurniawan and Ika Sudarmaja	6208 Improving Power Quality in Double-Stage Single-Phase Grid-Conneted PV Inverter System using MPPT-FLC-PSO and FLCs Isaravuth Seedadan* (NCU, Thailand), Rati Wongsathan, Karrun Pannyo, Supaluck Suwan, Wutthichai Puangmanee, and Kuakoon Intarakamhaeng	8754 Island Stability Improvement Through Defense Scheme and Generation Control Parameters Optimization : Study Case In Central Kalimantan System Rifqi Fatchurrahman* (PLN, Indonesia), Prawatya Herlambang, Subhan Hasisi and Adinda Rahma Sayta Meunasah	5961 Assessment of Voltage and E-Field Distribution in Outdoor Composite Insulator in 500 kV System for Interface Defects Ashok Narayan Tripathi* (IIT Kanpur, India) and Alok Ranjan Verma
	6	3275 Method To Improve The Accuracy Of PV Curtailment To Maintain The System Stability in North Sulawesi and Gorontalo Power Grid Arif Majiid Nusa Pratama* (ITB, Indonesia), Muhammad Irfan Hashfi, Ido Fandy Dermawan, Kevin Marojahan Banjar-Nahor and Nanang Hariyanto	7810 Post-Seismic Fault Detection and Diagnosis on Power Transformer: A Comprehensive Review and Study Case of Cianjur Earthquake Ario Wulung* (ITB, Indonesia), Bagas Maulana Sutardi, R. Agung Kusumajati, Umar Khayam and Suwarno Suwarno	3040 Harmonic Stability in MMC-HVDC applications controlled as a virtual synchronous machine Carolin Hirsching* (KIT, Germany) , Alexander Bisseling, Michael Suriyah and Thomas Leibfried	8205 Comparison of Fault Location Analysis Techniques Used on Sumatra Transmission Lines Irvan Lewi* (ITB, Indonesia), Romario Oktavelen Ginting Munthe, Bagas Maulana Sutardi, Nanang Hariyanto and Kevin M. Banjar-Nahor	976 A design methodology for a real-time smart automated system for detection of Insulator failure modes Beulah Limbo-Makuza* (NamPower, Namibia)

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Room/ Session	No	A (Power System Stability)	B (Partial Discharge)	C (Energy Conversion and Power Plants)	D (Power System (Others))	E (Charge & Insulation)
OS-3	1	7079 Vulnerability Risk Mitigation Against Intentional Attacks for Non-Wire Transmission Expansion Planning Based on Game Theory Eko Yudo Pramono, Ardyila Rommyonegge* (PLN, Indonesia), Bambang Anggoro and Nanang Hariyanto	5538 Surface Partial Discharge Phenomenon at Cable Termination in Medium Voltage Cubicle and Low Voltage Side Box of Power Transformer at PLN West Java Transmission Unit Yodya Angga Karditama* (PLN, Indonesia), Zainur Oktafian Prabandaru, Hikmah Prasetya and Ardika Prisma Suganda	3884 Inlet Guide Vane Control System Modification to Improve The Reliability of 13E1 Gas Turbine (Case Study in Priok Combine Cycle Power Plant) Gamal Fiqih Handono Warih* (PLN, Indonesia) and Imam Maulana Arief	2019 A Review of Techno-economic Analysis and Size Optimization of Hybrid Renewable Energy Systems Using Homer Didik Sudarmadi* (UI, Indonesia) and Iwa Garniwa	6224 Space charge accumulation in thermally aged epoxy resin Amrendra Kumar* (IIT Kanpur, India) and Nandini Gupta
	2	8622 RTDS Dynamic Testing for Adaptive Defense Scheme on Several Subsystems in Java-Bali Armi Yudha Nugraha Purwantara* (PLN, Indonesia), Eko Aptono Tri Yuwono and M. Afip Nurul Hudah	5524 Partial Discharge Measurement and Signal Analysis at Repetitive Voltage Pulses Maurizio Zajadatz* (KIT, Germany), Lucas Braun, Alexander Bisseling, Michael Suriyah, Sebastian Coenen and Thomas Leibfried	6427 SWOT Analysis of Utilization of Nuclear Power Plants to Support Net Zero Emissions in Indonesia Mujamnil Asdhiyoga Rahmanta* (PLN, Indonesia), Agussalim Syamsuddin and Fefria Tanbar	7616 Optimization of Generating Unit System Locations to Convert Conventional Loop Distribution Networks to Radial Using Particle Swarm Optimization Algorithm Sahabuddin Rifai* (Unhas, Indonesia), Andani Achmad, Intan Sari Areni and Syafaruddin Syafaruddin	4176 Effect of Conductor Notches Size Inside of 150kV Gas Insulated Switchgear Spacer on Electric Field Distribution Muhammad Fabio (ITB, Indonesia), Syarif Hidayat and Umar Khayam
	3	3320 Calculation of Minimum Generator Inertia Based on Unit Commitment to Increase Awareness of Stability in the Jawa Bali System Imron Rosyadi, Jakfar Shadiq and Handika Putra* (PLN, Indonesia)	680 Determining Localization and Measuring Level of Partial Discharge in Power Transformer Using Acoustic Sensor: Case Studies at Kemang & Cilegon Baru Substation Zainur Oktafian Prabandaru* (PLN, Indonesia), Randy Restianda and Rofi'ul Huda	4584 Coal Switching Evaluation on Coal-Fired Power Plants: Case Study in Indonesia Achmad Nurfanani* (PLN, Indonesia), Handrea Bernardo Tambunan and Ariyana Dwiputra Nugraha	3537 Experimental Study of Flow and Spray Pattern Characteristics of Biodiesel in a Swirler Burner Eko Supriyanto* (UGM, Indonesia), Nur Cahyo, Ariyana Dwiputra Nugraha, Jayan Sentanuhady and M. Akhsin Muflikhun	4751 Estimation of Image Charge on Electrodes in Space Charge Measurements with Pulsed Electroacoustic Analyzer Balaji Sriram* (IIT Kanpur, India) and Nandini Gupta
	4	3511 Machine Learning Comparison in Application of Power System Instability Detection Rizky Rahmani* (ITB, Indonesia), Nanang Hariyanto and Bambang Anggoro	600 Simulation, VNA Test, and Calibration of Improvement Partial Discharge Detector Using Pi- Attenuator Circuit Naufal Hilmi Fauzan* (UGM, Indonesia) and Umar Khayam	344 Computational Fluid Dynamics Analysis on the Improvement of Hybrid Savonius-Darrieus NREL S809 at Various Fluid Flows Elysa Nensy Irawan* (Shibaura IT, Japan), Sandro Sitompul, Ken-Ichiro Yamashita and Goro Fujita	1674 IEC 61850 Interoperability Testing for SCADA Product Verification Muhammad Afip Nurul Hudah* (PLN, Indonesia), Andi Putra Pradana and Deva Kurniawan	9731 Case Study of Internal Partial Discharge in Medium Voltage Power Cable Failure at Rangkasbitung Baru 150kV Substation Artita Putri Melati* (PLN, Indonesia), Zainur Oktafian Prabandaru and Jainul Karim
	5	6033 Security of The Bali Electrical System From interference Of 4 Marine Electricity Cables with the Adaptive Defense Scheme of The Bali Island I Gde Made Yoga Semadhi Artha* (PLN, Indonesia) and Ahmad Murdani	452 Development of Printed Rectangular Microstrip Patch Antenna as UHF Sensor for Partial Discharge Detection in Power Transformers Jean Pierre Uwiringiyimana* (ITB, Indonesia), Umar Khayam and Suwarno Suwarno	7070 Co-firing of Coconut Frond with Coal Blends in Coal-Fired Power Plant: Experimental Study Nur Cahyo* (PLN, Indonesia), Hamdan Hartono Alif and Tegar Kharisma Putra	3058 SoC-Temperature Based Power Sharing Algorithm for Battery Racks in Grid Ancillary Services Prashant Pant* (TUM, Germany), Holger Hesse, Vivek Teja Tanjavooru, Martin Cornejo, Thomas Hamacher and Vedran Peric	3519 Synergistic Effect of Polarity Reversals and Load Current on Life of HVDC Cable Insulation Darshan Prakash Borthakur* (IIT Kanpur, India) and Alok Ranjan Verma
	6	759 Optimal PMU Placement Based On N-0 and N-1 Contingency as Preparation of WAMPAC Implementation to Provide Complete System Observability: Study Case in Khatulistiwa and Interconnection System of Kalimantan Rifqi Fatchurrahman and Arma Perwira Nugraha* (PLN, Indonesia)	9913 Negative Corona Discharge from Needle-Plane Electrode: Experiment And Simulation Studies I Made Yulistya Negara, I Gusti Ngurah Satriyadi Hernanda, Dimas Anton Asfani, Daniar Fahmi, Arief Budi Ksatria* (ITS, Indonesia) and Firlan Arya Wahyudi	4830 Analysis and Effect of Garbage and Population Growth on Waste-Based Electric Energy Generation Potential and Energy Demand in DKI Jakarta Muhammad Rifqi Fadhilah and Syamsir Abduh* (UI, Indonesia)	5783 Improving The Reliability of MV Bus Protection by IEC61850 GOOSE Message, Case Study at PT PLN (Persero) 150 kV New Jatake Substation Idam Firdaus, Muhammad Fadli Nasution and Riarsari Meirani Utami* (PLN, Indonesia)	8216 The Impact of Coal Fly Ash (CFA) Micro-filler on the Properties of Silicon Rubber Tajuddin Waris* (Unhas, Indonesia), Tomohiro Kawashima, Naohiro Hozumi and Yoshinobu Murakami

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Room/Session	No	A (Power System and Energy)	B (PD, Condition Monitoring and Diagnosis 3))	C (Energy Conversion (Motor & Generator))	D (others)	E (Lightning & Grounding)
OS-4	1	Invited Speaker in Session Prof. Eduard Mulyadi (Auburn University, US)	7536 Reducing Partial Discharge Activity in a Large Generator Unit by Increasing Hydrogen (H2) Pressure Nanda Redha Arsyah* (ITB, Indonesia), Suwarno, Umar Khayam and M. Arief Auluddin	5027 Optimizing the Slot-Pole Combination of a 500 W Brushless DC Motor for Urban Electric Bicycle Irza Kusuma Ajie* (ITB, Indonesia), Muhammad Fadhil Suwarnan, Arwindra Rizqiawan and Jihad Furqani	2830 Estimation of Compression Dead-end Clamp Temperature to Identify Hot Spot of Transmission Power Line by Steady-State Heat Balance and Pitting Corrosion Andre Subagja Manurung* (PLN, Indonesia), Fajli Mustafa and Irvan Bayurinaldi	1888 Effect of Localised Soil on the Measured and Calculated Resistance Values Usman Muhammad, Fazlul Aman and Normiza Mohamad Nor* (MMU, Malaysia)
	2	3564 An Approach for Planning Under Uncertainties for Indonesia's Long-Term Energy Transition Djoko Prasetyo* (CIGRE Indonesia, Indonesia)	9797 Typical Values of Gas Concentration and Gas Rates Increase in Dissolved Gas Analysis for Power Transformers with Different Operating Voltages Dhiastara Rahmanda* (PLN, Indonesia) and Suwarno	6688 Optimization Design to Increase Efficiency of 350 W Outer Rotor Brushless DC Motor for Urban Electric Bicycle Muhammad Fadhil Suwarnan* (ITB, Indonesia), Irza Kusuma, Jihad Furqani and Arwindra Rizqiawan	5671 Designing Harmonic Filters on LED Lamp Loads to Reduce Odd Order THD Vica Claudia Meylinda* (ITB, Indonesia), Agung Cahyadi Putra, Deny Hamdani, Umar Khayam, Kevin Marojahan Banjar-Nahor, Arpan Zaeni, Ngapuli Irmea Sinisuka, Pascal Dupuis, Georges Zissis and Laurent Canale	1614 A Proper Lightning Arrester Placement to Protect Traction Substation in Jakarta Bandung High Speed Railway System Alfiandi Rizky Prabowo* (ITB, Indonesia), Bryan Denov, Umar Khayam and Reynaldo Zoro
	3	4042 Study of Stochastic Approach to Determine Value of Lost Load in Jawa-Madura-Bali System Musa Partahi Marbun* (PLN, Indonesia), Herian Atma, Anindita Satria Surya and Ira Savitri	8292 Fabrication and Testing of Bow-tie and Long Bow-tie Combination Antenna Ari Mukti Wibowo* (ITB, Indonesia) and Umar Khayam	5063 Power Enhancement Analysis from Exhaust Energy Flow of An Open Cycle Gas Turbine Power Plant Wigas Digwijaya* (PLN, Indonesia), Handrea Bernando Tambunan and Ariyana Dwiputra Nugraha	7610 Implementation of LiDAR and Photogrammetry in Right of Way Assessment for Improving Transmission Line Reliability Muhammad Helmi Prakoso and Mochamad Farid Mustofa* (PLN, Indonesia)	6070 Frequency analysis on pulse train of lightning discharge observed in Malacca, Malaysia Nor Asrina Ramlee* (UTS, Malaysia), Noor Azlinda Ahmad, Mona Riza Mohd Esa and Zikri Abadi Baharudin
	4	5101 Design of Hybrid Solar Power Generation System on Tello Island Muhammad Marshal Nugroho* (ITB, Indonesia) and Bambang Anggoro Soedjarno Putro	6533 Comparison of the Formation of Aging Products in Mineral oil and Decane stressed by Thermal Transformer Stress Kristin Homeier* (LUH, Germany), Laureen Stahl and Peter Werle	6286 Modified Cuk Converter-Based Two-Stage Microinverter Topology Design Ghozi Alif Kirana Ramadhan* (ITB, Indonesia), Martin Alexander, Jihad Furqani and Arwindra Rizqiawan	1815 Implementation of Adjustable Adapter Yoke Tool for Live Line Maintenance of Transmission 275 kV and 150 KV Tension Insulator Muhammad Abdel Haq, Harry Dimarta and Tsanil Ma'Arif* (PLN, Indonesia)	783 Improvement of Transmission Line Grounding System using Conductive Cement Andika Bagaskara* (PLN, Indonesia), Anzhika Rizki Pratama and Septhian Ditaputra Raharja
	5	5414 Gas Engine Power Plant Configuration Optimization Using Loss of Load Probability and Expected Energy Not Served: An Indonesian Case Study Machmoed Santoso* (PLN, Indonesia) and Zakie Anugia	9351 Review of Transient Earth Voltage Sensor Implementation to Detect Partial Discharge in High Voltage Equipment Umar Khayam and Arpan Zaeni* (ITB, Indonesia)	2832 System Identification of a Roller Rig with Factory Default PMSM Drives for Speed Controller Tuning in Speed Synchronized Tractions of an Electric Train Simulator Kristian Ismail* (ITB, Indonesia), Suwarno, Tri Desmana Rachmildha, Estiko Rijanto and Yanuarsyah Haroen	3470 Impact of Power Quality of Microgrids with High Penetration of Renewable Energy on the Characteristics of LED Lamp Jack Nainggolan* (ITB, Indonesia), Kevin Banjar-Nahor, Arpan Zaeni, Deny Hamdani, Ngapuli Irmea Sinisuka, Pascal Dupuis, Georges Zissis, Laurent Canale and Umar Khayam	4995 Design and Testing PCB Rogowski Coil for Lightning Current Measurement Gerry Almanda Yulfiano* (ITB, Indonesia), Syarif Hidayat and Bryan Denov
	6	9321 Energy Demand Analysis of Train Electrification in Java Island Riza* (BRIN, Indonesia), Adinda Prawitasari, Teddy Anugrah Ramanel and Adinda Ihsani Putri	5820 Conductor defects and related partial discharge measurements Jiali Zhang and Alan Wong (RMIT Univ, Australia)	6891 Effects of Radial Divided Magnet Shifting on Cogging Torque of Axial Flux Permanent Magnet Generator for Small Scale Wind Turbine Nasywa Imanuddin* (ITB, Indonesia), Jihad Furqani and Arwindra Rizqiawan	1108 AJO (Adjustable Camelong) Conductor Clamp Tool for Repairing Corroded Insulator and String Set Insulators in Transmission Networks and Substations Muhammad Abdel Haq, Harry Dimarta* (PLN, Indonesia) and Riski Hariyanto	

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POSTER SESSION

No.	Paper ID	Title	Authors
PS-1	3694	The Implementation of Moving Average to Reduce the Photovoltaic Output Power Fluctuations	Rahmat Ihsani Yuskar* (ITB, Indonesia), Tri Desmana Rachmildha and Deny Hamdani
PS-2	3924	Design and Performance Analysis on Development Bay Capacitor 20 KV-20 MVAR	Dedhy Mahendra Adhie Putra* (PLN, Indonesia), Antonius Darna Setiawan and Agung Pangestu
PS-3	4630	Linear Programming Approach Based Demand Response to Support Intermittent and Non- Dispatchable Renewable Energies Penetration in Isolated Island	Gina Nurhayati* (ITB, Indonesia), Sudarmono Sasmono and Nanang Hariyanto
PS-4	5628	Modeling PV-Wind-Battery Hybrid System for Guest House in Matakus Island	Ayu Laksmi Padmadewi, Burhanuddin Halimi* (ITB, Indonesia) and Lasro P Sihite
PS-5	7154	Power Quality Control Strategy of MMC Inverter as Solid State Transformer on Distribution Network	Kevin Gausultan Hadi Mangunkusumo* (PLN, Indonesia) and Muhamad Ridwan
PS-6	8091	Battery Lifetime Prediction Using Cycle Estimation in De-dieselize Program	Binhot P Nababan* (ITB, Indonesia), Ferdinan Ntp Simanullang, Nanang Hariyanto, Fathin Saifur Rahman, Irvan Lewi Situmorang and Yehuda Bayu Kristiawan
PS-7	6338	Optimizing Maximum Power Point Tracking of Partially Shaded Photovoltaic Module using Flower Pollination Algorithm	Fares Bettahar* (LGBE, University of Mohamed Khidar, Algeria)
PS-8	8165	Investigating the potential of renewable energy in the successful energy transition base on Hydrology analysis	Rizky Wibawa* (PLN, Indonesia), Mochammad Gerald, Maria Delavega Afriani and Radin Rahmatullah
PS-9	1982	Techno-Economic Evaluation of In-City EV Charging Station Empowered by PV-based Microgrid in Various Solar Irradiation Levels	Bagas Maulana Sutardi* (ITB, Indonesia), Kevin M. Banjar-Nahor, Nanang Hariyanto, Arien Hanadya, Ramli Hardiman Situmeang and Rickv Cahya Andrian
PS-10	4397	Design of Moving Wireless Charging System for Electric Vehicle Prototype	Muchamad Iqbal Sofyan, Pradita Octovianingrum Hadi* (ITB, Indonesia) and Nanang Hariyanto
PS-11	4902	Stochastic Model To Determining Optimal Generation Cost In Power Systems With Shares Of Variable Renewable Energy	Muhammad Khoiril Huda* (ITB, Indonesia), Kevin Marojahan Banjarnahor and Nanang Hariyanto
PS-12	5078	Effectiveness and Efficiency Analysis Construction of the Sea Cable Sumatera - Bangka	Wahyu Belfias Eka Putra Daya and Musa Partahi Marbun* (ITB, Indonesia)
PS-13	352	Analysis of Partial Discharge Pulse-sequence Pattern in Air Insulation	Muhammad Kodrat* (ITB, Indonesia), Dean Corio and Umar Khayam
PS-14	1833	Optimization of Coal Fly Ash Filler Effect on Polymer Silicone Rubber Base Insulator Material on Dielectric Performance	Christiono Roesdiono* (UI, Indonesia), Iwa Garniwa. M. K, Miftahul Fikri and Andi Amar Thahara
PS-15	3478	Ferroresonance in Medium Voltage Transformer: A Review of Failure Investigation, Effect, and Mitigation Techniques	Nur Al Anshari Munir* (ITB, Indonesia), Destina Surya Lestari and Ersalia Dewi Nursita
PS-16	5226	Application of Non-Linear Permittivity Spatial Discrete Distributions in Reducing The Concentration of The GIS Spacer Electric Field	Satia Zaputra* (ITB, Indonesia), Muhammad R Fabio, Rachmawati Rachmawati, Syarif Hidayat and Suwarno Suwarno
PS-17	5730	Determination of Optimal Number of Spare Transformer Using Probabilistic Method: A Study Case of Pematangsiantar Distribution Unit	Irfan Zidny* (ITB, Indonesia), Muhammad Ricky Ardiansyah, Nanang Hariyanto, Irvan Lewi, Riedo Pradika Putra and Kevin Marojahan Banjar-Nahor
PS-18	6377	macTaM- mobile and compact High Voltage Test and Measurement facility for educational purposes	Sebastian Azer* (Jade University of Applied Science, Germany), Johannes Friedrichs and Philipp Elfers
PS-19	6866	Comparison of the Degree of Polymerization Model of the Transformer and Lifetime	Ryandi* (ITB, Indonesia), Nurmela, Gemelfour Ardiatus Sudrajad, Nanang Hariyanto, Bambang Anggoro Soedjarno Putro and Suwarno
PS-20	6936	Investigating the Root Causes of Interbus Transformer Breakdowns in Kembangan Substation: lessons learned and recommendations	Shaga Shaulagara* (PLN, Indonesia), Fajli Mustafa and Muhammad Ihsan
PS-21	7744	Corona Discharge Detection with Modified Consumer Cameras	Moritz Kuhnke* (Leibniz Universitat Hannover, Germany) and Peter Werle
PS-22	7886	Performance Improvement of Circular Patch Microstrip Antenna (CPMA) for Detecting Partial Discharge on High Voltage Equipment	Mukhtar Hadi* (ITB, Indonesia), Umar Khayam, and Rachmawati
PS-23	9281	Implementation of Risk Assessment in Determining the Optimal Decision Making with Risk Cost Benefit Output in Transformer Replacement	Shaga Shaulagara, Vinona Alfionita* (PLN, Indonesia) and Hening Putri Riyandhini
PS-24	9755	Development Design of Lightning Protection System in Rig PDSI #38.2/D1000-E	Rafi Reza, Syamsir Abdul and Ishak Kasim (Trisakti University, Indonesia)
PS-25	6318	STUDY OF GENERATOR LIFETIME IN COMBINED CYCLE POWER PLANT	Dheny Cipta Firnanda* (PLN IP, Indonesia), Jujun Tugistan Dana Atmaia and Ahmad Rosviddin
PS-26	2807	Power Losses Comparison between Various NH Fuse Marketed Product in Indonesia	Oksa Prasetyawan, Dimas Aji Nugraha and Guntur Supriyadi (PLN, Indonesia)
PS-27	500	Improving Transmission Reliability and Reducing Cost of Supply in Bangka Island through Sumatra- Bangka Interconnection: A Contingency Analysis Approach	Agustriadi Agustriadi, Jainul Arifin* (PLN, Indonesia) and Teguh Al Zajerah Siregar
PS-28	1122	Simultaneously Optimization for Photovoltaic Battery and Demand Response	Alinda Novita Sari* (ITB, Indonesia), Fuad Afif Herya, Ibnu Kahfi Bachtiar, Kevin Marojahan Banjarnahor and Nanang Hariyanto
PS-29	1880	Business Scheme for EV Charging Station & Impact Load Penetration On Distribution Network System of Airport. Case Study International Airport Soekarno-Hatta, Tangerang Banten	Arian Dwi Peanus* (ITB, Indonesia), Nurliani Alin and Nanang Hariyanto
PS-30	2262	Comparison of the Audit process to Evaluate the Asset Management System and Capability in Achieving Organizational Objectives in PLN	Anna Dwita Paulus Sudin and Hertalina Anastassia Hasibuan (PLN, Indonesia)
PS-31	2839	Analysis of Forecast: Electricity Demand Energy of Sulawesi and Maluku 2060 Utilizing LEAP Application	Alravi Febiorama* (ITB, Indonesia), Nanang Hariyanto, Kevin Marojahan Banjarnahor, Rizky Rahmani, Yudiandra Yuwono, Rifqi Taufiqurrahman, Muhammad Aldy Wildan Maulana, and Fuad Afif Herya
PS-32	2994	Could Economic Dispatch and Unit Commitment with Emission Constraints Reduce Power System Costs? A Case Study on Java-Madura-Bali Power System	Jakfar Shadiq* (PLN, Indonesia), Imron Rosyadi and Yuana Putra Adianto
PS-33	3442	The Stability Analysis of The Maximum Integration of Intermittent and Non-Dispatchable Power Plant in the Iconic Isolated Island Grid, Nusa Penida	Yasarah Labibah* (Tel-U, Indonesia), Sudarmono Sasmono, M. Zakiyullah Romdlony, Nanang Hariyanto, Devni Syafrianto and Amir Hakim

No.	Paper ID	Title	Authors
PS-34	4228	Emerging and Evaluating Long Short Term Memory (LSTM) Network for Load Forecast in Java Bali System	Seftie Muji Praminta, Elvanto Yanuar Ikhsan, and Hariadi Aji* (PLN, Indonesia)
PS-35	5009	Modeling Small Signal Analysis Using Kharitonov's Theorem Case: Inverter Based Microgrid	Jason* (ITB, Indonesia) , Kevin Marojahan Banjar-Nahor and Nanang Hariyanto
PS-36	5293	Analysis of Virtual Inertia Control System to Maintain Frequency Stability System Connected with pump	Teguh Aryo Nugroho* (ITB, Indonesia) , Bambang Anggoro Soedjarno, Nanang Hariyanto and Fathin Saifur Rahman
PS-37	6179	Leveraging Performance Evaluation through Special Maintenance of Photo Voltaic Power Plant in Nusa Tenggara Region to Achieve Photovoltaic Reliability Excellence	Kharisma Utomo Mulyodinoto* (PLN, Indonesia) , Sandya Herawan, Very Fernando, Indratno Pardiansyah, Yusrizal Ibrani and Huda Ilal Kirom
PS-38	6786	Long Term Projection of Energy Demand in Kalimantan Region: LEAP Model Application	Rifqi Taufiqurrahman* (ITB, Indonesia) , Nanang Hariyanto , Kevin Marojahan Banjar-Nahor, Rizky Rahmani, Alravi Febiorama, Fuad Afif Herya, M Aldy Wildan Maulana, Iqbal Ilham and Fadhil Ahmad Qamar
PS-39	7168	Modelling and Analysis Hybrid Micro- Hydro/PV/Battery System for Susmorof Village, West Papua	Syaiful Ismail* (ITB, Indonesia) , Tri Desmana Rachmildha and Deny Hamdani
PS-40	7738	Development Of Generation Technology On Smart Network Using Smart Micro Grid In Renewable Energy Laboratory Institut Teknologi PLN	Heri Suyanto* (UI, Indonesia) , Christiono R., and Iwa Ganiwa
PS-41	8079	Optimizing location and size of capacitors to improve power factor, power losses and voltage drop with a case study on MJG06	Irna Aufa Zanjabila (UGM, Indonesia) , M. Yusuf Wibisono and Muhammad Arrofiq
PS-42	9158	The Projection of Energy Demand and Supply of Papua Island to Face the Decentralization and Greenhouse Emission Challenge until 2060	Fuad Afif Herya* (ITB, Indonesia) , Kevin Marojahan Banjar-Nahor, Joko Santosa, Rizky Rahmani, Agus Praditya Tampubolon, Alravi Febiorama, Rifqi Taufiqurrahman, M. Aldy Wildan Maulana and Nanang Hariyanto
PS-43	9871	Health Index Analysis for Electronic And Mechanical Equipment at The Airport	Ajeng Pratiwi* (ITB, Indonesia) , Novia Hafnidah, Sudarmono Sasmono, Arief Permana, Nur Fauziah, and Nanang Hariyanto
PS-44	9873	Optimization and Study of Grid Impact on Photovoltaic Installation – Connected 785 MVA Steam Turbine Power Plant for Industry	Benny Wijaya Nababan* (ITB, Indonesia) , Kevin Marojahan Banjar Nahor and Nanang Hariyanto