

Board Number	Section	Paper Number	Session Title	Paper Title	Authors
4001	Best Paper Sessions - Green	23PESGM-000451	Advancements in Power System Generation, Transmission, and Distribution	Inverter Current Limit Logic based on the IEEE 2800-2022 Unbalanced Fault Response Requirements	William (Wes) Baker, Manish Patel, Aboutaleb Haddadi, Evangelos Farantatos and Jens Boemer
4002	Best Paper Sessions - Green	23PESGM-000454	Advancements in Power System Generation, Transmission, and Distribution	Distributed Software-Defined Network Architecture for Smart Grid Resilience to Denial-of-Service Attacks	Dennis Agnew, Sharon Boamah, Reynold Mathieu, Austin Cooper, Janise McNair and Arturo Bretas
4003	Best Paper Sessions - Green	23PESGM-000645	Advancements in Power System Generation, Transmission, and Distribution	Frequency Quality in Low-Inertia Power Systems	Taulant Kërçi, Manuel Hurtado, Mariglen Gjergji, Simon Tweed, Eoin Kennedy and Federico Milano
4004	Best Paper Sessions - Green	23PESGM-000665	Advancements in Power System Generation, Transmission, and Distribution	Modeling of DC-Side Dynamics in PV/Battery Grid-forming Inverter Systems	Xi Luo, Alexandros Paspatis, Abhinav Kumar Singh, Nikolaos Hatzigiorgiour and Efstratios Batzelis
4005	Best Paper Sessions - Green	23PESGM-000678	Advancements in Power System Generation, Transmission, and Distribution	On the Impact of Data-Driven Stochastic Load Models on Power System Dynamics<br class="t-last-br"></pre>	Muhammad Adeen and Federico Milano
4006	Best Paper Sessions - Green	23PESGM-000741	Advancements in Power System Generation, Transmission, and Distribution	Grid Services by Behind-the-Meter Distributed Energy Resources: NY Grid Case Study	Paduani, George Stefopoulos, Aboutaleb Haddadi, AHM Jakaria and Aminul Huque
4007	Best Paper Sessions - Green	23PESGM-000820	Advancements in Power System Generation, Transmission, and Distribution	Analytical Expression of Short Circuit Current for Virtual Synchronous Generator with Improved Low Voltage Ride Through Control Strategy	Yuchao Zheng, Tong Wang, Shuwei He, Yingzi Wu, Yiqun Kang and Dan Liu
4008	Best Paper Sessions - Green	23PESGM-001029	Advancements in Power System Generation, Transmission, and Distribution	Application of Feasibility Area for Cybersecurity of Electric Power Systems	Ahmed Abd Elaziz Elsayed, Hany E. Z. Farag, Abdullah Tauqeer, Filza Shahid and Amir Asif
4009	Best Paper Sessions - Green	23PESGM-001250	Advancements in Power System Generation, Transmission, and Distribution	Impedance Trajectories during Stable and Unstable Power Swings in Presence of PQ Control based PV Generations	Meenu Jayamohan, Sarasij Das and Sukumar Brahma
4010	Best Paper Sessions - Green	23PESGM-001375	Advancements in Power System Generation, Transmission, and Distribution	A Testing Framework for Grid-Forming Resources	Vahan Gevorgian, Deepak Ramasubramanian, Robb Wallen, Anderson Hoke, Benjamin Kroposki and Barry Mather
4011	Best Paper Sessions - Green	23PESGM-001433	Advancements in Power System Generation, Transmission, and Distribution	Multi-objective planning for integrated energy systems considering both energy quality and renewable energy	Tianshuo Zhou, Dan Wang, Jiaxi Li and Hongjie Jia
4012	Best Paper Sessions - Green	23PESGM-001446	Advancements in Power System Generation, Transmission, and Distribution	Voltage Stability Monitoring based on Adaptive Dynamic Mode Decomposition	Minh-Quan Tran, Trung Thai Tran and Phuong H. Nguyen
4013	Best Paper Sessions - Green	23PESGM-001474	Advancements in Power System Generation, Transmission, and Distribution	Distributed Multi-objective Control of Hybrid Microgrid in Autonomous Mode	Tripathy, Barjeev Tyagi, Vishal Kumar and Pawan Sharma
4014	Best Paper Sessions - Green	23PESGM-001607	Advancements in Power System Generation, Transmission, and Distribution	Evaluation of Communication Issues in Primal-Dual-Based Distributed Energy Resource Management Systems (DERMS)	Joshua Comden, Jing Wang and Andrey Bernstein
4015	Best Paper Sessions - Green	23PESGM-000218	Bulk power system planning and operation	Estimation of Transmission System Power Transfer Capability at Competitive Renewable Energy Zones	Milad Javadi, Ruchi Singh, Di Wu, Gangan Li, Guomin Ji and John N Jiang
4016	Best Paper Sessions - Green	23PESGM-000406	Bulk power system planning and operation	Safe Exploration Reinforcement Learning for Load Restoration using Invalid Action Masking	Trong-Linh Vu, Tuyen Vu, Thanh-Long Vu and Anurag Srivastava
4017	Best Paper Sessions - Green	23PESGM-000428	Bulk power system planning and operation	Modeling Spinning Reserve Contribution Using Physical Ramp Rates	Shubo Zhang, John Meyer, Iiro Harjunkoski, Khosrow Moslehi and Pradip Kumar
4018	Best Paper Sessions - Green	23PESGM-000517	Bulk power system planning and operation	Cyber-physical Framework for System Frequency Response using Real-time simulation Phasor Measurement Unit based on ANSI C37.118	Longatt, José Luis Rodríguez Amenedo and Gioacchino Tricarico
4019	Best Paper Sessions - Green	23PESGM-000766	Bulk power system planning and operation	Stochastic Look-Ahead Commitment: A Case Study in MISO	Yonghong Chen, Roger Treinen, Trevor Werho, Junshan Zhang, Vijay Vittal, Long Zhao, Anupam Thatte and Shengfei Yin
4020	Best Paper Sessions - Green	23PESGM-001014	Bulk power system planning and operation	Distributed Load Shedding Application Architecture and Bi-Level Predictive Estimator Algorithm	Alexander Anderson, Arturo Bretas, Dexin Wang, Orestis Vasios, Jeff Carrara and Jason Pew
4021	Best Paper Sessions - Green	23PESGM-001331	Bulk power system planning and operation	<table cellpadding="0" cellspacing="0" hspace="0" vspace="0" width="717"><tbody><tr><td valign="top" align="left"> Enhancing the Power System Resilience to Ice Storms </td></tr></tbody></table> <br clear="ALL">	Mohammad Shahidehpour, Anahita Bahrami, Mingyu Yan, Shikhar Pandey, Deepak Tiwari and Honghao Zheng
4022	Best Paper Sessions - Green	23PESGM-001374	Bulk power system planning and operation	Estimation of Regulation Reserve Requirements in California ISO: A Data-driven Method	Li He, Jie Zhang and Benjamin Hobbs
4023	Best Paper Sessions - Green	23PESGM-001462	Bulk power system planning and operation	DSO-DERA Coordination for the Wholesale Market Participation of Distributed Energy Resources	Cong Chen, Subhonmesh Bose and Lang Tong
4024	Best Paper Sessions - Green	23PESGM-001510	Bulk power system planning and operation	Impact of Spatial Variation in Flexibility on System Operations in Electric Power Systems	Rabayet Sadnan, Thiagarajan Ramachandran, Saptarshi Bhattacharya and Abhishek Somani

4025	Best Paper Sessions - Green	23PESGM-001526	Bulk power system planning and operation	Multi-Agent Reinforcement Learning for Distribution System Critical Load Restoration	Yiyun Yao, Xiangyu Zhang, Jiyu Wang and Fei Ding
4026	Best Paper Sessions - Green	23PESGM-001613	Bulk power system planning and operation	A Two-Step Time-Series Data Clustering Method for Building-Level Load Profile	Jiyu Wang, Xiangqi Zhu and Barry Mather
4027	Best Paper Sessions - Green	23PESGM-001637	Bulk power system planning and operation	Outage Forecast-based Preventative Scheduling Model for Distribution System Resilience Enhancement	Yiyun Yao, Weijia Liu, Rishabh Jain, Santhosh Madasthu, Badrul Chowdhury and Robert Cox
4028	Best Paper Sessions - Green	23PESGM-000056	Distribution and Grid Edge Planning and Operation	A Real-Time Limit Order Book as a Market Mechanism for Transactive Energy Systems	Rimvydas Baltaduonis, Lynne Kiesling, Seth Hoedl and David Chassin
4029	Best Paper Sessions - Green	23PESGM-000201	Distribution and Grid Edge Planning and Operation	Parameter Optimization of Virtual Synchronous Generator Control Applied in Energy Storage and Photovoltaic Systems for an Island Microgrid	Yi-syuan Wu, Jian-Tang Liao and Hong-Tzer Yang
4030	Best Paper Sessions - Green	23PESGM-000219	Distribution and Grid Edge Planning and Operation	Identification of Power System Oscillation Modes using Blind Source Separation based on Copula Statistic	Somayeh Yarahmadi and Almuatazbellah (Muataz) Boker
4031	Best Paper Sessions - Green	23PESGM-000398	Distribution and Grid Edge Planning and Operation	Robust Model Predictive Techno-Economic Control of Active Distribution Networks	Salish Maharjan, Prashant Tiwari, Rui Cheng and Zhaoyu Wang
4032	Best Paper Sessions - Green	23PESGM-000472	Distribution and Grid Edge Planning and Operation	Advisory Tool for Managing Failure Cascades in Systems with Wind Power	Siyu Liu and Marija Ilic
4033	Best Paper Sessions - Green	23PESGM-001063	Distribution and Grid Edge Planning and Operation	Analysis and Mitigation of Cascading Failure Spatial Propagation in Real Utility Outage Data	Shuchen Huang and Junjian Qi
4034	Best Paper Sessions - Green	23PESGM-001248	Distribution and Grid Edge Planning and Operation	A Modified Sequence-to-point HVAC Load Disaggregation Algorithm	Kai Ye, Hyeonjin Kim, Yi Hu, Ning Lu, Di Wu and PJ Rehm
4035	Best Paper Sessions - Green	23PESGM-001313	Distribution and Grid Edge Planning and Operation	Analytic Input Convex Neural Networks-based Model Predictive Control for Power System Transient Stability Enhancement	Tong Su, Junbo Zhao, Xiao Chen and Xiaodong Liu
4036	Best Paper Sessions - Green	23PESGM-001332	Distribution and Grid Edge Planning and Operation	Towards Smart Grids Enhanced Situation Awareness: A Bi-Level Quasi-Static State Estimation Model	Arturo Bretas, Mark Rice, Chris Bonebreak, Carl Miller, David McKinnon and Arcadio Vielma
4037	Best Paper Sessions - Green	23PESGM-001505	Distribution and Grid Edge Planning and Operation	A Long-Term Voltage Stability Margin Index Based on Multiple Real Power Flow Solutions	Bin Wang, Dan Wu, Xiaowen Su, Kai Sun and Le Xie
4038	Best Paper Sessions - Green	23PESGM-001586	Distribution and Grid Edge Planning and Operation	False Data Injection Attack Detection using Adaptive Threshold via Model Free Deep Reinforcement Learning for Residential Load Demand	Dhruv Kushwaha and Zoleikha Biron
4039	Best Paper Sessions - Green	23PESGM-001653	Distribution and Grid Edge Planning and Operation	Metrics for Evaluating Grid Service Provision from Communities of Grid-interactive and Efficient Buildings and other DER	Jason MacDonald and Cynthia Regnier

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1001	Energy Conversion - Yellow	Electric Machinery Poster Session	23PESGM-000026	Control of a Linear Switched Reluctance Motor in Electric Train Application	Siamak Masoudi, Hasan Mehrjerdi, Nasser Ahmed Al-Emadi and Atif Iqbal
1002	Energy Conversion - Yellow	Electric Machinery Poster Session	23PESGM-000050	Predictive Current Control for Three-level T-type Based Six-phase Induction Motor Drive	Mohamed Mamdouh, Aboubaker Salem and Mohamed Abido
1003	Energy Conversion - Yellow	Electric Machinery Poster Session	23PESGM-000441	Impact of the new Grid Codes on the performance of central generation's generators	Michel Rioual, Robert Soler, Kim-Lan Zappellini and Cristian Jecu
1004	Energy Conversion - Yellow	Electric Machinery Poster Session	23PESGM-000554	A Framework for Monte Carlo Power-Plant Parameter Estimation	Ronald Hruban, Daniel Trudnowski and Joshua Wold
1005	Energy Conversion - Yellow	Electric Machinery Poster Session	23PESGM-000677	Thermal Mapping of the Hydrogenerator's Reactive Power Boosting Ability at Various Time Windows	Dany Tome-Robles, Jonas Nøland, Frédéric Maurer and Thomas Øyvang
1006	Energy Conversion - Yellow	Electric Machinery Poster Session	23PESGM-000821	Integration of Synchronous Condensers into the Transmission System	Klaus Vennemann, Martin Loesing and Ruediger Kutzner
1007	Energy Conversion - Yellow	Electric Machinery Poster Session	23PESGM-000893	Control and Operation Evaluation of Grid-Forming Inverters with L, LC, and LCL Filters	Md Nurunnabi, Shuhui Li and Himadry Shekhar Das
1008	Energy Conversion - Yellow	Electric Machinery Poster Session	23PESGM-000912	Simulation of Internal Faults in Variable-Speed Synchronous Generators Connected to Three-Level Neutral Point Clamped Converters	Rodolfo Varraschim Rocha and Renato Machado Monaro
1009	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-000077	Effects on Electricity Customers' Welfare Considering Optimal Generation Dispatch and Emission Reduction in Composite Power Systems	Pedro Vasconcelos, Gabriel Alvarenga, Antonio Zambroni de Souza, Glauco Taranto, Benedito Bonatto and Bala Venkatesh
1010	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-000167	Constrained Intelligent Frequency Control in an AC Microgrid: An Online Reinforcement Learning Based PID Tuning Approach	Komeil Nosrati, Vjatseslav Skiparev, Aleksei Tepljakov, Eduard Petlenkov, Juri Belikov and Yoash Levron
1011	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-000357	Resilient Power Sharing in a 100% Inverter-Based Power System Under GPS Spoofing Attacks	Brady Alexander, Ardavan Mohammadhassani and Ali Mehrizi-Sani
1012	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-000501	Implementation of a Solar-Wind hybrid Charging Station For Electric Vehicles	Ravikant Yadav, Mukesh Maurya, Gururaj M.V. and Ankush Sharma
1013	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-000534	Deep Hedged LSTM Network for Short Term Offshore Wind Power Forecasting	Chunyang Pan, Shuli Wen, Huili Ye, Miao Zhu and Sheng Jiang
1014	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-000581	Load-Shifting Scheduling based on Manufacturing Process for Demand Response with Bidding Probability	Jounghoon Nam, Nadya Noorfatima and Jaesung Jung
1015	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-000602	Passivity-Based Control of Grid Forming and Grid Following Converters in Microgrids	Yonghao Gui and Yaosuo Xue
1016	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-000740	Siamese Convolutional Neural Network-Based Anomaly Detection for Distributed PV Inverter	Liming Liu, Naihao Shi, Salish Maharjan and Zhaoyu Wang
1017	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-000974	Emergy based Decarbonization and Sustainability Analysis of a Power Prosumer	Jing Lan, Jizhong Zhu, Hongfang Lu, Wanli Wu and Dongrong Liu
1018	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-001009	Distributed Multi-agent Consensus-Based Virtual Inertia Control of Low Inertial Microgrids	Ibrahim Alotaibi and Mohammad Abido
1019	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-001134	Improved Rotor Speed Strategy of a DFIG for Suppressing Second Frequency Drop	Gangui Yan, Yanfeng Ge, Mingyi Sun, Xinwei Li, Dejian Yang and Xin Wang
1020	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-001145	Online State of Charge Estimation Framework using Hybrid Equivalent Circuit Model and Neural Network	Faizan Manzoor, Haris Saleem, Ijaz Naqvi and Nauman Zaffar
1021	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-001195	Security Concerns of Adversarial Attack for LSTM/BiLSTM Based Solar Power Forecasting	Murat Kuzlu, Brian Tamayo, Salih Sarp, Ferhat Ozgur Catak, Umit Cali and Yanxiao Zhao

1022	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-001228	High-Resolution Synthetic Solar Irradiance Sequence Generation: An LSTM-Based Generative Adversarial Network	Zhongxia Zhang and Rui Yang
1023	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-001268	A Near-real-time Estimation Method for Carbon Emissions from High-emission Industries Based on Electricity-Energy-Carbon Linkage Model	Shangze LI, Xiangyu KONG, bixuan Gao, ziyu Liu and shuo Wang
1024	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-001445	An integrated wind power prediction method based on heterogeneous clustering and DALSTM	Shuo Wang, Xiangyu KONG and Ning Wang
1025	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-001470	Transient Stability Analysis and Coordination Control Design for Grid-Forming PMSG Based On Dynamics of DC-Link Capacitor	Kehao Zhuang, Zijun Wang, Dawei Sun, Linlin Wu, Xiao Wang and Huanhai Xin
1026	Energy Conversion - Yellow	Energy Development and Power Generation Poster Session	23PESGM-001660	Demand Response on the Operation of Regional Distribution Network: An Australian Case Study	B Amin, Rakibuzzaman Shah, Nima Amjady, Kazi Hasan, Syed Islam and Usman Bashir Tayab
1027	Energy Conversion - Yellow	Energy Internet Coordination Committee Poster Session	23PESGM-000289	Cyber-Physical Risk Assessment Framework for A Real-Life Automatic Generation Control Systems	Qiang Lan, Li He, Shuyu Jia, Yuqian Zhang, Bin Wang and Peng Yang
1028	Energy Conversion - Yellow	Energy Internet Coordination Committee Poster Session	23PESGM-000519	Coordinative Control of Hydropower Plant and Industrial Thermostatically Controlled Loads for Frequency Response	Yunfan Cai, Xiangdong Xu, Jing Liu, Xiaodan Yu and Hongjie Jia
1029	Energy Conversion - Yellow	Energy Internet Coordination Committee Poster Session	23PESGM-000612	On The Decomposition of Locational Marginal Hydrogen Pricing	Qi An, Gengyin Li, Jianxiao Wang, Yiyang Song, Xuanyuan Wang, Zhen Liu and Guannan He
1030	Energy Conversion - Yellow	Energy Internet Coordination Committee Poster Session	23PESGM-000648	Integrating IoT Devices with Distribution Energy Management System by Harmonizing Their Logical Models Using IEC Standards 61970/61968 and 61850	Jonatas Leite and Mladen Kezunovic
1031	Energy Conversion - Yellow	Energy Internet Coordination Committee Poster Session	23PESGM-000796	A wind power prediction model based on optimized N-BEATS network with multivariate inputs	JUN LI, TAO LIN, HUI DU, QINGYAN LI, XIYUE FU and XIALING XU
1032	Energy Conversion - Yellow	Energy Internet Coordination Committee Poster Session	23PESGM-001046	Cyber-Physical System Security Assessment: A Real-Life Power Grid Automatic Generation Control System Case Study	Quan Qing, Weihua Luo, Shuyu Jia, Yuqian Zhang, Bin Wang, Shu Zheng and Chengjiang Liu
1033	Energy Conversion - Yellow	Energy Internet Coordination Committee Poster Session	23PESGM-001058	Privacy-Preserving Optimal Schedule for Microgrid Cluster Based on Information Masking Method	Ze Chen, Xiaojun Zuo, Botao Hou, Yuling Guo and Nianfeng Tian
1034	Energy Conversion - Yellow	Energy Internet Coordination Committee Poster Session	23PESGM-001095	Steady-State Security Region Calculation for a Multi-Energy Microgrid	Yan Cao, Yan Xu, Zhaoyang Dong, Hongjie Jia and Yunfei Mu
1035	Energy Conversion - Yellow	Energy Internet Coordination Committee Poster Session	23PESGM-001452	Energy Flow Optimization of Integrated Gas and Power Systems Using Staggered Difference Method	Zehua Yin, Xiaoqing Han, Tingjun Li, Xinqi Li and Xinfang Zhang
1036	Energy Conversion - Yellow	Energy Internet Coordination Committee Poster Session	23PESGM-001523	A Two-Stage Packetized Energy Trading and Management Framework for Virtual Power Plants	Yuanliang Li, Luyang Hou, Jun Yan, Yuhong Liu, Mohsen Ghafouri and Peng Zhang

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2001	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000133	Square Domain Forensic Analysis for Power Systems	Suresh Varwandkar
2002	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000148	Cost Effective Dynamic Multi-Microgrid Formulation Method Using Deep Reinforcement Learning	Yoongun Jung, Minhyeok Chang, Changhee Han, Sungwoo Kang, Sungyoon Song, Hojun Lee, Minhan Yoon and Gilsoo Jang
2003	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000226	Online correction of multi-scene load model parameters based on measured data	Yuan Zeng, Zhenyu Zhang, Junlong Ma and Hongmei Wang
2004	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000280	Power-Flow Formulation for Inverter-Based Grids	Olaluwapo Ajala, T.G. Roberts and Alejandro Dominguez-Garcia
2005	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000559	Separation and Identification of Sources of Supraharmonic Signals Using Complex ICA	Ivo Silva Lopes Tebexreni, Carlos Augusto Duque and José Manoel de Seixas
2006	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000579	A Multi-Criteria Approach for Evaluating Voltage Regulation Characteristics Facilitating Flexible Operations of Fossil-Fueled Power Generators	Nuo Xu and Xiaodong Chu
2007	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000588	Distributed Damping Evaluation for Series-Compensated DFIG-Based Wind Farms During the SSCI	Jiangbei Han and Chengxi Liu
2008	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000607	Combined Detection and Localization Model for High Impedance Fault under Noisy Condition	Imtiaz Khan, Hongbo Sun, Kyeong Jin Kim, Jianlin Guo and Daniel Nikovski
2009	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000638	A Graph Scale Reduction Method for Graph Deep Learning-Based Transient Stability Assessment after Stability Controls	Zihan Cai, Lin Guan, Jiyu Huang, Siting Zhu, Shiyang Li and Huanhuan Yang
2010	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000655	A Data-Driven Framework for Sparse Impedance Identification of Power Converters in DC Microgrids	Ali Hosseinipour, Javad Khazaei and Rick Blum
2011	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000722	Feeder Power Disaggregation: A Data-Efficient Matrix Completion Approach	Yue Chen, Ahmed Zamzam and Andrey Bernstein
2012	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000823	On the Relationship between Ultra Low Frequency Oscillation and Power System Inertia	Janne Seppänen, Matti Lehtonen, Mikko Kuivaniemi and Liisa Haarla
2013	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000829	State Estimation in LV European-Type Distribution Grids Using Smart Meters and Advance Supervisors	Yamen Alsayoufi, Bassam Mohamed and Pablo Arbolea
2014	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000862	Advanced Approach for Stability Assessment of PHIL Setups Coupled by Clarke-Park Transform	Tran The Hoang and Nirmal Nair
2015	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000868	Bisection Method for Fairness-Aware Distributed PV Curtailment in Power Distribution Systems	Rabayet Sadnan, Shiva Poudel, Monish Mukherjee, Tylor Slay and Andrew Reiman
2016	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000890	Solving Optimal Transmission Switching Problem via DC Power Flow Approximation	Juncheng Li, Guglielmo Lulli and Trivikram Dokka
2017	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000908	A Novel Multi-Cayley Transform for Judging Small Signal Stability of Large-Scale Power Systems	Yulei Cao, Chongtao Li and Jinjie He
2018	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-000977	Algorithm to Convert Power System Network Data from Bus-Branch Model to Node-Breaker Model	Vibhuti Sahu and Gurunath Gurralla
2019	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-001010	A Novel Ranking Algorithm for Topology Identification in Power Distribution Systems	Cody Francis, Shiva Poudel, Arun Veeramany and Andrew Reiman
2020	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-001106	Bi-level Co-Optimization Architecture for Transmission and Distribution Voltage Control	Mohammad Abujubbeh, Kumarsinh Jhala and Karthikeyan Balasubramaniam
2021	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-001118	Data-Driven Flow and Injection Estimation in PMU-Unobservable Transmission Systems	Satyaprajna Sahoo, Anwarul Islam Sifat and Anamitra Pal
2022	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-001186	Extending Bus Branch Power System Models by use of Graphs for Resilience Studies	Riley Weinmann, Eduardo Cotilla-Sanchez and Ted Brekken
2023	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-001368	Regional Medium-Term Hourly Electricity Demand Forecasting Based on LSTM	Hongfei Sun, Dongliang Duan, Hongming Zhang, Seong Choi, Jie Luo and Liqing Yang
2024	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-001531	MIP Formulations of Piece-wise Polyhedral Relaxations of AC Power Flow Equations	Juncheng Li, Trivikram Dokka and Guglielmo Lulli
2025	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-001584	Load Shedding for Voltage Regulation With Probabilistic Agent Compliance	Bai Cui, Guido Cavraro and Andrey Bernstein
2026	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-001619	Voltage Control of Islanded DC Microgrid Using Hierarchical Controllers Based on Kharitonov Theory	Mohammad Javad Najafirad, Nima Mahdian Dehkordi and Hamidreza Nazari-pouya
2027	Power Systems - Red	Analytical Methods for Power Systems Poster Session	23PESGM-001667	Outage Cause Impacts to Overhead and Underground AC Circuit Reliability	Svetlana Ekisheva, Mark Lauby, Howard Gugel, David Till and Milorad Papic
2028	Power Systems - Red	AMPS Big Data Analytics Poster Session	23PESGM-000172	Data-Driven Day-ahead Probabilistic Forecasting of Wind Power Based on Features Sensitivity Analysis and Meteorological Scenario Classification	Hao Sun, Changqing Ye, Can Wan, Hui Yao and Kaiming Zhang
2029	Power Systems - Red	AMPS Big Data Analytics Poster Session	23PESGM-000306	Wind Power Scenario Generation Using Graph Convolutional Generative Adversarial Network	Young-ho Cho, Shaohui Liu, Duehee Lee and Hao Zhu
2030	Power Systems - Red	AMPS Big Data Analytics Poster Session	23PESGM-000400	Masked Multi-Step Probabilistic Forecasting for Short-to-Mid-Term Electricity Demand	Yiwei Fu, Nurali Virani and Honggang Wang
2031	Power Systems - Red	AMPS Big Data Analytics Poster Session	23PESGM-000436	A Utility Use Case: Utilizing Spatiotemporal Data Analytics to Pinpoint Outage Location	Reddy Mandati, Po-Chen Chen, Vladyslav Anderson, Bishwa Sapkota, Michael Warren, Bobby Besharati, Ankush Agarwal and Samuel Johnston
2032	Power Systems - Red	AMPS Big Data Analytics Poster Session	23PESGM-000586	Sig2Vec: Dictionary Design for Incipient Faults in Distribution Systems	Qiushi Cui, Yang Weng and Muhao Guo
2033	Power Systems - Red	AMPS Big Data Analytics Poster Session	23PESGM-000991	Towards Distributed Learning of PMU Data: A Federated Learning based Event Classification Approach	Seyed Mahmood Sajjadi Mohammadabadi, Yunchuan Liu, Abraham Canafe and Lei Yang

2034	Power Systems - Red	AMPS Big Data Analytics Poster Session	23PESGM-001203	One Graph of Electricity Carbon” Spatiotemporal Data Analysis and Management System	Yachen Tang, Yi Lu, Xiaolei Yang, Guangyi Liu, Tingting Liu and Tianlin Yang
2035	Power Systems - Red	AMPS Big Data Analytics Poster Session	23PESGM-001249	Learning Power System Dynamics with Nearly-Hamiltonian Neural Network	Shaorong Zhang and Nanpeng Yu
2036	Power Systems - Red	AMPS Big Data Analytics Poster Session	23PESGM-001618	Distribution Grid Line Outage Detection with Privacy Data	Chenhan Xiao, Yizheng Liao and Yang Weng
2037	Power Systems - Red	AMPS Computer Analytical Method Poster Session	23PESGM-000303	Neuro-physical dynamic load modeling using differentiable parametric optimization	Shrirang Abhyankar, Jan Drgona, Aaron Tuor and Andrew August
2038	Power Systems - Red	AMPS Computer Analytical Method Poster Session	23PESGM-000613	A Novel Single-Ended Fault Location Algorithm for Digital Distance Relays Based on A New FPGA Design	Tzu-Chiao Lin, Bawoke Simachew and Ming-Yuan Cho
2039	Power Systems - Red	AMPS Computer Analytical Method Poster Session	23PESGM-000805	A Data-driven Technique for Network Line Parameter Estimation Using Gaussian Processes	Priyanka Arkalgud Ganeshamurthy, Antonello Monti and Ferdinanda Ponci
2040	Power Systems - Red	AMPS Computer Analytical Method Poster Session	23PESGM-000879	High-Performance Computing Based EMT Simulation of Large PV or Hybrid PV Plants	Suman Debnath, Jongchan Choi, Harry Hughes, Kuldeep Kurte, Phani Marthi and Steven Hahn
2041	Power Systems - Red	AMPS Computer Analytical Method Poster Session	23PESGM-001035	Wildfire Risk Evaluation Framework for Grid Operations and Planning	Sohom Datta, Vishvas Hiren Chalisehar, Jan Westman, Jill Deines, Jerry Tagestad, Andre Coleman, Emily Barrett, Michael Hoffman, Abhishek Somani and John G Schaad
2042	Power Systems - Red	AMPS Computer Analytical Method Poster Session	23PESGM-001421	A Novel Quantile Lite-PCE for Probabilistic Risk Assessment of Power System Cascading Outage for N-1-1 Contingency Analysis	Sel Ly, Kapil Chauhan, Gooi Hoay Beng and Hung D. Nguyen
2043	Power Systems - Red	AMPS Computer Analytical Method Poster Session	23PESGM-001622	GridViz: a Toolkit for Interactive and Multi-Modal Power Grid Data Visualization	Kai-Wen Cheng, Yize Chen and Yuanyuan Shi
2044	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-000022	An Iterative Bidirectional Gradient Boosting Algorithm for CVR Baseline Estimation	Han Pyo Lee, Lidong Song, Yiyao Li, Ning Lu, Di Wu, PJ Rehm, Matthew Makdad and Edmond Miller
2045	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-000144	Open-Source Distributed Energy Resource (OpenDER) Model: Harmonizing Accurate Interpretations of IEEE Std 1547-2018	Yiwei Ma, Wei Ren, Aminul Huque, Jithendar Anandan, Paulo Radatz, Wenzong Wang, Devin Van Zandt, Brian Seal and Jens Boerner
2046	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-000163	Actionable Three-Phase Infeasibility Optimization with Varying Slack Sources	Elizabeth Foster, Timothy McNamara, Amritanshu Pandey and Larry Pileggi
2047	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-000332	Development of Hybrid Peer-to-peer Energy Trading for Distribution System with Multi-Aggregators	Nadya Noorfatima, Jounghoon Nam and Jaesung Jung
2048	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-000374	Mobile Energy Storage System Scheduling at Low Voltage Distribution System	He Meng, Tao Xu, Mengchao Li, Wei Wei, Jianhang Sun, Ke Li, Xiaowen Huangfu and Haozheng Yu
2049	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-000376	Modified Multi-Tree Clustering for Phase Identification in Distribution Grids with Photovoltaic Systems	Jiawei Zhu, Katarina Knezovic and Dmitry Shchetinin
2050	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-000382	Impact Analysis of Time-of-Use pricing enabled Electric Vehicle charging to the uncoordinated charging on a Distribution Network	Ahmad Usman
2051	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-000482	Uncertainty Error Modeling for Non-Linear State Estimation With Unsynchronized SCADA and &[mu]PMU Measurements	Austin Cooper, Arturo Bretas, Sean Meyn and Newton Bretas
2052	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-000498	A Machine Learning-based Short-term Load Forecasting Method for Behind-the-meter DERs	Aydin Zabolli, Junho Hong, Vo-Nguyen Tuyet-Doan and Yong-Hwa Kim
2053	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-000778	Model-Free Probabilistic Forecasting of Nodal Voltages in Distribution Systems	Marija Markovic and Bri-Mathias Hodge
2054	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-000956	Secondary Frequency Control for Reconfigurable Interconnecting Microgrids	Eran Schweitzer and Francis Tuffner
2055	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-001015	Developing Synthetic Distribution Models Using Open-Source Data Sets	Aadil Latif and Sara Farrar
2056	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-001196	On Distribution Grid Optimal Power Flow Development and Integration	Sarmad Hanif, Rabayet Sadnan, Tylor E. Slay, Muhammad Nawaf Nazir, Shiva Poudel, Bilal Ahmad Bhatti, Andrew P. Reiman, James D. Follum, Joseph McKinsey, Tarek Elgindy and Rui Yang
2057	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-001200	Automating the Solar Interconnection Technical Evaluation Process: PREconfiguring and Controlling Inverter SET-Points (PRECISE)	Killian McKenna, Kapil Duwadi, Aadil Latif, Adarsh Nagarajan, Sheikh Hassan, Sruthi Nadimpalli, Valentino Tiangco and David Brown
2058	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-001300	Nonparametric Probabilistic Pseudo Model for Unbalanced Active Distribution Networks	Shahabodin Afrasiabi, Osama Aslam Ansari, Xiaodong Liang and Chi Yung Chung
2059	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-001323	Two-Stage Deep Reinforcement Learning for Distribution System Voltage Regulation and Peak Demand Management	Yansong Pei, Yiyun Yao, Junbo Zhao, Fei Ding and Jiyu Wang
2060	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-001349	Impacts of Ride-Through Requirements on Distributed Generation Anti-Islanding Protection	Gabriella dos Santos, José Carlos Vieira, Rodrigo Iscussati and Daniel Motter
2061	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-001494	Investigating Protection Challenges on Distribution Systems Self-Healing	Konrad Schmitt, Rabindra Bhatta, Rajendra Shrestha, Manohar Chamana, Meisam Mahdavi, Olatunji Adeyanju, Stephen Bayne and Luciane Canha
2062	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-001565	Oscillatory Power Control and Consensus in Unbalanced Networks Using Grid Forming Inverters	Soumyadeep Nag and Zhihua Qu
2063	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-001571	Efficient Dynamic Phasor Model of Distributed Photovoltaic Systems	Maryam Mahmoudi Koutenaei, Sumit Paudyal and Tuyen Vu
2064	Power Systems - Red	AMPS Distribution System Analysis Poster Session	23PESGM-001590	Multi-Agent Deep Reinforcement Learning-based Volt-VAR Control in Active Distribution Grids	Rakib Hossain, Mukesh Gautam, Mohamma MansourLakouraj, Hanif Livani and Mohammed Benidris
2065	Power Systems - Red	AMPS Intelligent Systems Poster Session	23PESGM-000622	Safe Deep Reinforcement Learning for Power System Operation under Scheduled Unavailability	Xavier Weiss, Saeed Mohammadi, Parag Khanna, Mohammad Reza Hesamzadeh and Lars Nordström
2066	Power Systems - Red	AMPS Intelligent Systems Poster Session	23PESGM-000751	Pulse Compression Probing for Tracking Distribution Feeder Models	Nicholas Piquadio, N Eva Wu, Morteza Sarailoo and Jianzhuang Haung

2067	Power Systems - Red	AMPS Intelligent Systems Poster Session	23PESGM-001152	A New Hybrid Fuzzy-Stochastic Model for Day-ahead Scheduling of Isolated Microgrids	Seyed Farhad Zandrazavi, Alejandra Tabares, John Fredy Franco, Miadreza Shafie-khah, João Soares and Zita Vale
2068	Power Systems - Red	AMPS Intelligent Systems Poster Session	23PESGM-001165	Renewable Energy Communities Classification	Bruno Canizes, João Costa and Zita Vale
2069	Power Systems - Red	AMPS Intelligent Systems Poster Session	23PESGM-001299	Unsupervised Graph-Generative Network-based PV Condition Monitoring Systems	Sarah Allahmoradi, Shahabodin Afrasiabi, Mousa Afrasiabi, Xiaodong Liang, Jamshid Aghaei and Chi Yung Chung
2070	Power Systems - Red	AMPS Intelligent Systems Poster Session	23PESGM-001391	The Need for Equitable Coordination in Multi-agent Power Systems	Yuhan Du and Javad Mohammadi
2071	Power Systems - Red	AMPS Reliability and Risk Analysis Poster Session	23PESGM-001481	Improving Hybrid Ac/dc Power System Resilience Using Enhanced Hybrid Power State Estimator	Abdallah Smadi, Brian Johnson, Hangtian Lei and Abdulwahab Aljabrine
2072	Power Systems - Red	AMPS Reliability and Risk Analysis Poster Session	23PESGM-001617	A Pathway to Mitigate Climate Change Impacts on Energy Communities: Decarbonization-Based Cost-Effective Grid Resilience Enhancement	Abdollah Younesi, Zongjie Wang, Pierluigi Siano and Fengyu Wang
2073	Power Systems - Red	AMPS Transient Analysis and Simulation Poster Session	23PESGM-000197	Grounding Impulse Impedance Estimation for Vertical Rods Buried in Porous Soil	WALTER LUIZ MANZI DE AZEVEDO, ANDERSON RICARDO JUSTO DE ARAUJO and JOSÉ PISSOLATO FILHO
2074	Power Systems - Red	AMPS Transient Analysis and Simulation Poster Session	23PESGM-000388	Hardware Demonstration of Weak Grid Oscillations for IBR with DC-Link Voltage Control	Li Bao, Lingling Fan and Zhixin Miao
2075	Power Systems - Red	AMPS Transient Analysis and Simulation Poster Session	23PESGM-000548	Dynamic Analysis and Modeling of the Natural Gas Pipeline Using the Electrical Analogy	Ruikai Song
2076	Power Systems - Red	AMPS Transient Analysis and Simulation Poster Session	23PESGM-000701	Transient Stability Preventive Control via Tuning the Parameters of Virtual Synchronous Generators	Xiaoge Huang, Joon-Young Gwak, Hantao Cui, Lei Yu and Ziang Zhang
2077	Power Systems - Red	AMPS Transient Analysis and Simulation Poster Session	23PESGM-000836	An Enhanced Ideal Transformer Method to Integrate Low-Voltage Power Hardware in Arbitrary Voltage Levels	Julian Richter, Simon Resch, Gert Mehlmann and Matthias Luther
2078	Power Systems - Red	AMPS Transient Analysis and Simulation Poster Session	23PESGM-001240	Transient Analysis on Wind Farms with Interconnected Grounding Systems Located on Frequency-Dependent Soils	Wagner Costa da Silva, WALTER LUIZ MANZI DE AZEVEDO, José Luciano Aslan D'Annibale, Anderson Ricardo Justo de Araújo and JOSÉ PISSOLATO FILHO
2079	Power Systems - Red	AMPS Transient Analysis and Simulation Poster Session	23PESGM-001280	An Exact Self-synchronized Realization of Park Transformation Equations for PLL-free Inverter Control	Mohammed Manaz Mohammed Ansar
2080	Power Systems - Red	AMPS Transient Analysis and Simulation Poster Session	23PESGM-001345	The Cause of Insufficient Damping in Phase-Locked-Loop and Its Influence	Zhengyu Wang, Zhixin Miao and Lingling Fan
2081	Power Systems - Red	AMPS Transient Analysis and Simulation Poster Session	23PESGM-001371	A Heterogeneous Multiscale Method for Power System Simulation Considering Electromagnetic Transients	Kaiyang Huang, Min Xiong, Yang Liu, Kai Sun and Feng Qiu
2082	Power Systems - Red	AMPS Transient Analysis and Simulation Poster Session	23PESGM-001563	Multi Area Thevenin Equivalent based Transient Stability Simulations in Shared Memory Paradigm	Francis Joseph and Gurunath Gurralla
2083	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000279	On-line System Identification of Power System Linear Models	Jose Moreno-Corbea, Mario R.A. Paternina, Diego Rodales, Rodrigo Reyes, Francisco Zelaya, Alejandro Zamora, Carlos Toledo, Camila Castrillon-Franco and Alexander Sanchez
2084	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000283	Comparative Study of Decentralized Grid-forming Converter Controls For Inverter-based Microgrids	Fadi Kelada, Jérôme Buire and Nouredine Hadjsaid
2085	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000453	Spatial-Temporal Dynamic Frequency Prediction Based on Integrating Model-Driven and Data-Driven	Xieli Sun, Longyu Chen and Xiaoru Wang
2086	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000495	A Study on the Impact of Forced Oscillations on Critical Clearing Time	Arnav Bagga and Amarsagar Reddy Ramapuram Matavalam
2087	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000556	A Method for Parallelized Fast Dynamic Cascading Failure Simulation of Power System	Sina Gharebaghi, Nilanjan Ray Chaudhuri, Ting He and Thomas La Porta
2088	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000656	Methodology for Identifying Regional Inertia Issues in Future Power Grids	Georgios Misyris, Brian Graham, Parag Mitra, Deepak Ramasubramanian and Vikas Singhvi
2089	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000661	Fault Ride through Capability Enhancement of Grid-connected DFIG- based Wind Power Generation During Voltage Dips	Tahaguas Woldu, Christian Ziegler and Martin Wolter
2090	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000690	High Penetration of Inverter Based Resources Assessment on Stability and System Strength	Andres Zapata, Daniel Santos, Di Wu and Diego Rodriguez
2091	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000700	Refining the Concepts of Small and Large Disturbances for Stability Analysis of Power Systems	Mikhail Borodulin
2092	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000721	Electromechanical Wave Propagation for Disturbance Arrival Time Assessment in Power Systems	Somayeh Yarahmadi, Pooja Algikar and Lamine Mili
2093	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000749	Validation of the Fault Ride-Through Response of a Generic EMT Inverter Model by Laboratory Testing	William (Wes) Baker, Deepak Ramasubramanian, Jens Boemer, Aminul Huque, Vahan Gevorgian, Przemyslaw Koralewicz and Emanuel Mendiola
2094	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000752	Frequency versus Speed Feedback for Transient Stability Control via Energy Storage	Daniel Trudnowski, Tam Nguyen, Ryan Elliott and Hyungjin Choi
2095	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000791	LVRT Strategy of Grid-Forming PMSG Wind Turbine Considering transient stability of DC-link Voltage	Deokki Yoo and Gilsoo Jang
2096	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000880	A Test Bed for Conducting Monte Carlo Power Plant Model Validation Experiments	Rayce McCord, Daniel Trudnowski and Ronald Hruban
2097	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000892	Dynamic Analysis of a Conceptual McMaster University Campus Microgrid	Chi Tang
2098	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-000988	Online Frequency Strength Quantification for Power Systems with More Renewable Energy Sources	Guang Hu, Huisheng Gao, Huanhai Xin, Yongheng Yang, Yingzi Wu, Xiaotong Ji and Yiqun Kang

2099	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001023	Power System Restoration Services by Grid-Forming Offshore Wind Farms with Integrated Energy Storage	Daniela Pagnani, Lukasz Kocewiak, Jesper Hjerrild, Frede Blaabjerg, Claus Let Bak, Ramón Blasco-Gimenez and Jaime Martínez-Turégano
2100	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001027	Large-signal Stability Analysis Using Takagi-Sugeno Fuzzy Model Theory for Fractional Frequency Transmission System	Ziyue Duan, Yongqing Meng, Tianyi Wang, Haitao Zhang, Yong Yang and Xiuli Wang
2101	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001065	Three-phase grid-forming droop control for unbalanced systems and fault ride through	Dominic Groß and Prajwal Bhagwat
2102	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001078	Physics-informed Deep Reinforcement Learning-based Adaptive Generator Out-of-step Protection for Power Systems	Ramji Raja Hossain, Kaveri Mahapatra, Qiuhua Huang and Renke Huang
2103	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001135	Estimation of Participation Factors Using the Synchrosqueezed Wavelet Transform	Mahsa Sajjadi, Tianwei Xia, Min Xiong, Kai Sun, Andy Hoke, Jin Tan and Bin Wang
2104	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001144	Assessing the Impact of Primary Frequency Support from IBRs in Low Inertia Isolated Power Systems	Phivos Therapontos, Rogiros Tapakis and Petros Aristidou
2105	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001154	Aspects of the Implementation of a Pilot Microgrid in a Rural Brazilian Distribution System	Felipe dos Santos, Guilherme Justino, Rogerio Meneghetti, Rodrigo Braun, Ahda Grilo-Pavani and Rodrigo Ramos
2106	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001297	Load modeling impact on system stability and guidelines for stability studies on a islanded system with grid forming inverters	Sibin Mohan, Sam Maleki, Mahsa Shirinzad, Billy Yancey, Haven Trahan and Ramsey Ayass
2107	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001337	Extended Frequency Divider Formula with Inclusion of DER Control Dynamics	Mohammadamin Aghahassani, Edgardo D. Castronuovo, Pablo Ledesma and Federico Milano
2108	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001382	Testing GFM and GFL Inverters Operating with Synchronous Condensers	Vahan Gevorgian, Przemyslaw Koralewicz, Shahil Shah, Weihang Yan, Robb Wallen and Emanuel Mendiola
2109	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001419	Performance Analysis of Interleaved Bidirectional DC-DC Converters for Battery Control in Islanded Microgrid	Lindemberg de Lima, Pedro A. de Alcantara, Luana C. S. Soares, Camila M. V. Barros and Luciano S. Barros
2110	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001465	Index System for Evaluating the Supporting Capability of the Inverter-based Resource	Yushan Liu, Junru Chen, Chenchen Ge, Xiqiang Chang, Kaike Wang and Qi Zhao
2111	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001479	Synchronous Wind: Evaluating the Grid Impact of Inverterless Grid-Forming Wind Power Plants	Weihang Yan, Vahan Gevorgian and Shahil Shah
2112	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001529	Grid-Forming Control Benchmarking for 100% Inverter-Based Systems: Case Study on Hawai'i Island	Nan Xue, Xiaofan Wu, Ulrich Muenz and Norbert Benesch
2113	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001536	Online Output-based Inertia Estimation of Modern Power Systems	Mohamed Elnasry, Amarsagar Matavalam, Pranav Sharma and Venkataramana Aljarapu
2114	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001589	An Iterative Algorithm for Accurate Estimation of Power System Forced Oscillation Parameters	Luke Dosiek and Sanjay Hosur
2115	Power Systems - Red	Power System Dynamic Performance Poster Session	23PESGM-001647	Dual-dVOC Based Controlled Negative Sequence Current Injection for Grid-Forming Inverters under Asymmetrical Grid Conditions	Arnab Acharya and Raja Ayyanar
2116	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-000116	Reinforcement Learning Based Voltage Control Using Multiple Control Devices	Yuling Wang, Vijay Vittal, Xiaochuan Luo, Slava Maslennikov, Qiang Zhang, Mingguo Hong and Song Zhang
2117	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-000258	A Novel Method to Compute Multiple Optimal Solutions for ACOPF Problems	Tengmu Li, Hsiao-Dong Chiang and Zhi-Yuan Wang
2118	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-000739	The Design and Deployment of Splitting Control	Ming Jin
2119	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-000809	Challenges and learning in Grid operation during high Renewable Energy scenario- An Indian case study	santosh jain, RAJIV PORWAL, SOMARA LAKRA, SHAILENDRA MEENA, rahul negi and indupu varaprasad
2120	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-000891	Dynamic-State-Estimation-Based Cyber Attack Detection for Inverter-Based Resources	Avinash Kumar, Yuzhang Lin, Heqing Huang, Xiaonan Lu and Yue Zhao
2121	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-000965	Dynamic Ramping of Retrofitted Coal-Fired Power Plants: Basic Formulation and Tightened Approximation	Chao Lei, Siqi Bu, Qianggang Wang and Qifan Chen
2122	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-001019	PMU-Timescale Topology Identification of Sub-station Node-Breaker Models using Deep Learning	Behrouz Azimian, Anamitra Pal, Backer Abu-Jaradeh, Lang Chen and Penn Markham
2123	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-001127	Real-Time Identification of Electromechanical Oscillations via Deep Learning Enhanced Dynamic Mode Decomposition	Khaled Aleikish and Thomas Øyvang
2124	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-001179	Analysis of Wind Energy Curtailment in the Ireland and Northern Ireland Power Systems	Manuel Hurtado, Taulant Kerçi, Simon Tweed, Eoin Kennedy, Nezar Kamaluddin and Federico Milano
2125	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-001275	Clustering-based Two-stage Probabilistic Small-signal Stability Analysis of Power Systems with Uncertainties	Qifan Chen, Siqi Bu and Jiaxin Wen
2126	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-001287	A Convex Solution-Sequential Linear Programming Methodology for the Quadratized-OPF problem	Gad Monga Ilunga and A.P. Sakis Meliopoulos
2127	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-001366	Probing-Based Inertia Estimation Method Using Hybrid Power Plants	Zhihao Jiang, He Yin, Hongyu Li, Yilu Liu, Jin Tan, Andy Hoke, Brad Rockwell and Cameron Kruse
2128	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-001583	Voltage Stability Analysis of a Weak Power System involving DERs - A Bayesian Parameter Estimation Approach	Paul Wanjoli, Mohamed M. Zakaria Moustafa and Nabil H. Abbasy
2129	Power Systems - Red	PSOPE - Bulk Power System Operations Subcommittee Poster Session	23PESGM-001692	Implementation-aware Tool for Reliable and Resilient Operation of Power Systems (i-TROOPS)	Rupamathi Jaddivada, Marija Ilic, Xiaochuan Luo, Slava Maslennikov and Tongxin Zheng

2130	Power Systems - Red	PSOPE - Bulk Power System Planning Subcommittee Poster Session	23PESGM-000209	MISO's Regional Long Range Transmission Planning: A Proactive and Holistic Planning Approach	Fatou B. Thiam, James Slegers, Jeremy Nash, Tung Nguyen, Matthew Tackett, Joseph Reddoch and Jarred Miland
2131	Power Systems - Red	PSOPE - Bulk Power System Planning Subcommittee Poster Session	23PESGM-000392	Sensitivity Studies on Composite Load Models in PJM System Stability Assessment	Xiaokang Xu
2132	Power Systems - Red	PSOPE - Bulk Power System Planning Subcommittee Poster Session	23PESGM-000496	Optimal Inverter-Based Resources Placement in Low-Inertia Power Systems	Atinuke Ademola-Idowu and Baosen Zhang
2133	Power Systems - Red	PSOPE - Bulk Power System Planning Subcommittee Poster Session	23PESGM-000580	Optimal Layout of Offshore Wind Farm Cluster: A Three-Level Game Model with Priori Coalition	Tianci Xu, Siyu Tao, Jiemin Zhou, Gang Zheng, Andrés Feijóo and Yue Liu
2134	Power Systems - Red	PSOPE - Bulk Power System Planning Subcommittee Poster Session	23PESGM-000637	Value and effects of adopting residential flexibility in the European power system	Raquel Alonso Pedrero, Víctor Vicent de Lestrade, Jasper Specht and Pedro Crespo del Granado
2135	Power Systems - Red	PSOPE - Bulk Power System Planning Subcommittee Poster Session	23PESGM-000952	Emergency Asset Positioning for Resilient Transmission Grid Operation	Ignas Satkauskas, Jonathan Maack, Matthew Reynolds, Devon Sigler, Kinshuk Panda and Wesley Jones
2136	Power Systems - Red	PSOPE - Bulk Power System Planning Subcommittee Poster Session	23PESGM-001405	Dynamic Sizing of Frequency Control Ancillary Service Requirements for a Philippine Grid	Elgar John Del Rosario and Jordan Rel Orillaza
2137	Power Systems - Red	PSOPE - Bulk Power System Planning Subcommittee Poster Session	23PESGM-001443	Three-Stage Optimization Approach for Storage Sizing, Siting, and Transmission Network Expansion under Severe Renewable Drought	Gagan Meena, Rajeev Kumar Gajhiye, Paresish Risbud and Shreevardhan A. Soman
2138	Power Systems - Red	PSOPE - Bulk Power System Planning Subcommittee Poster Session	23PESGM-001453	Dynamic Reserves for Managing Wind Power	Marija Ilić and Dongwei Zhao
2139	Power Systems - Red	PSOPE - Bulk Power System Planning Subcommittee Poster Session	23PESGM-001490	The Impacts of Dynamic Line Rating on Systems with High Levels of Renewable Energy Resources	Cheng Lyu and Sara Eftekharnajad
2140	Power Systems - Red	PSOPE - Bulk Power System Planning Subcommittee Poster Session	23PESGM-001551	Proactive Grid Planning for Fleet Electrification	Jonathan Hou, Shyamal Patel, Gary Rackliffe, Gideon Katsh, John McDaniel, Katie Meyer, Kelly Stropp, Jeff Wilke and Brian Yung
2141	Power Systems - Red	PSOPE - Bulk Power System Planning Subcommittee Poster Session	23PESGM-001645	Generation Investment Equilibrium among Multi-GENCOs Using Modified PMP	Hui Guo, Yunpeng Xiao, Xiuli Wang, Likai Zhang and Wanru Li
2142	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000013	Distributed Optimal Energy Dispatch for Networked Microgrids with Federated Reinforcement Learning	Yusen Wang and Ming Xiao
2143	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000067	Impact of Dynamic Tariffs for Smart EV Charging on LV Distribution Network Operation	Flore Verbist, Nanda Kishor Panda, Pedro P. Vergara and Peter Palensky
2144	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000205	Robust Voltage Control using Demand-Side Flexibility with Time and Spatial Dependency	Tetsushi Ono, Tsutomu Kawamura and Shinji Murata
2145	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000221	Co-optimizing Consumption and EV Charging under Net Energy Metering	Minjae Jeon, Lang Tong and Qing Zhao
2146	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000260	Privacy-Preserving Operation of Interconnected Distribution Networks with Soft Open Points	Xueyuan Cui, Zhifeng Liang, Yun Chai, Wenjin Chen, Ruoying Yu and Guangchun Ruan
2147	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000267	Feasible Region for DERs in Unbalanced Distribution Networks with Uncertain Line Impedances	Bin Liu and Jin Ma
2148	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000424	Probabilistic Individual Short-Term Load Forecasting Using Conditional Variational Autoencoder	seyyed rashid khazeinasab, Rajagopal Iyengar and Woei Ling Leow
2149	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000427	A Distributed PV Capacity Planning Method Considering the Stage Load Demand and the PV Carrying Potential	Zhicheng Gu, Leijiao Ge, Bing Sun, Xubin Liu and Junhui Li
2150	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000449	An Energy Efficient Network Reconfiguration in Active Distribution Network by Incorporating Losses from Converter-Based DGs	Kasi Vemalaiah, Dheeraj Kumar Khatod and Narayana Prasad Padhy
2151	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000558	Ensemble Methods for Probabilistic Solar Power Forecasting: A Comparative Study	Tawsif Ahmad and Ning Zhou
2152	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000563	Decentralized Divergence-free Projection Method for Community-Driven Peer-to-peer Energy Sharing	MEIYI LI and Javad Mohammadi
2153	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000576	Hydropower Evaluation Framework for Wildfire Resilient Microgrids	Bikash Poudel, Shafiul Alam, Anudeep Medam, Fernando Gallego-Dias and Timothy McJunkin
2154	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000597	Coordinated Routing and Charging Scheduling for Electric Vehicles Towards Net-Zero Carbon Emissions	Hengrong Zhang and Jing Qiu
2155	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000633	Enhanced Distributed Self-Healing System for Electrical Distribution Networks Using ADMM	Juan López, Marco Gerards, Johann Hurink and Marcos Rider
2156	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000642	A Graph Attention Network Based Reinforcement Learning Method for Optimal Distributed Frequency Control of an Islanded AC Microgrid	Rudai Yan, Yan Xu and Rui Zhang
2157	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000699	The Shuffled Conic Power Flow Equations: An Improved Angle-Inclusive Conic Model	Natalia-Maria Zografou-Barredo, Meltem Peker and David M. Greenwood
2158	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000729	Optimal Dynamic Economic Dispatch for Microgrid Using Pontryagin's Minimum Principle	Mingxuan Mao and Alessandro Astolfi
2159	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000733	Quantum Annealing for Distribution System Restoration via Resilient Microgrids Formation	Nima Nikmehr, Peng Zhang, Honghao Zheng and Yacov Shamash
2160	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000750	Mitigating Equipment Overloads due to Electric Vehicle Charging Using Customer Incentives	Feng Li, Ilhan Kocar and Antoine Lesage-Landry
2161	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000782	Deep Reinforcement Learning-Based Operation of Distribution Systems Using Surrogate Model	Van-Hai Bui, Sina Zarrabian and Wencong Su

2162	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000785	Learn Dynamic Hosting Capacity Based on Voltage Sensitivity Analysis	Jiaqi Wu, Jingyi Yuan, Yang Weng and Raja Ayyanar
2163	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000832	Distributed Real-Time OPF and State Estimation Architecture for Active Distribution Networks	Karim Elfeky, Pablo García, José M. Cano and Geber Villa
2164	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-000935	A GMM-Based Phase Group Identification for Residential Low Voltage Networks	Eshan Karunaratne, Angela Simonovska, Luis F. Ochoa and Tansu Alpcan
2165	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-001121	Centralized Secondary Control Scheme for Delay Compensation Based on Smith Predictor Approach	Omar Rodriguez, Jan Diaz, Oscar Garzon, Matias Patino, Carlos Delgado, Cesar Vega, Adriana Luna and Fabio Andrade
2166	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-001197	A Voltage Inference Framework for Real-Time Observability in Active Distribution Grids	Mazhar Ali, Aleksandar Dimitrovski, Zhihua Qu and Wei Sun
2167	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-001239	Black-Start Service Restoration of Unbalanced Distribution Systems Considering Frequency Stability Constraints	Adel Heidari-Akhijahani and Karen L. Butler-Purry
2168	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-001340	Optimization of Distribution Feeder Topology: a Differential Programming Learning Approach	Devon Sigler, David Biagioni, Patrick Emami, Ahmed Zamzam and Bernard Kneuen
2169	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-001350	Unbalanced Distribution System Expansion Planning under Wildfire Risk	Augusto Zanin Bertoletti and Josue Campos do Prado
2170	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-001396	Revealing the Complexity of Load Fluctuations for Electricity Consumers Using MLP-HVG	Mengxue Qi, Linjuehao Mei and Zhiyi Li
2171	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-001464	Cost-effective and resilient operation of distribution grids and 5G telecommunication	Jiawei Wang, Dawei Qiu, Yi Wang, Saptarshi Ghosh, Pierre Pinson, Sandra Dudley and Goran Strbac
2172	Power Systems - Red	PSOPE - Distribution System Operation and Planning Subcommittee Poster Session	23PESGM-001604	Quantification of DERs Penetration Level in Microgrids: A Quest for Enhancing Short-Term Power Grid Resilience	Abdollah Younesi, Zongjie Wang, Sergio A. Dorado-Rojas and Paras Mandal
2173	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-000062	Differential-Algebraic Equation-Constrained Frequency-Secured Stochastic Unit Commitment	Bo Zhou, Ruiwei Jiang and Siqian Shen
2174	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-000072	Multiple System Function Supports with Inverter-Dominated Virtual Power Plant	Boda Li and Qianwen Xu
2175	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-000098	Non-Cooperative Equilibrium for Heterogeneous Demand-Side Flexible Resources in Retail Electricity Markets	Xiaotian Sun, Hanyu Ren, Haipeng Xie, Runfan Zhang and Zhaohong Bie
2176	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-000222	Transactive Energy Systems in Decentralized Autonomous Renewable Energy Communities.	Riccardo Trevisan, Mario Mureddu, Emilio Ghiani, Marco Galici and Fabrizio Pilo
2177	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-000274	Interpretable Probabilistic Price Forecasting for Energy Markets	Nandinee Haq, Kai Yuan and Xiaoming Feng
2178	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-000409	Stochastic Economic Dispatch Considering Demand Response and Endogenous Uncertainty	Nasrin Bayat, Joon-Hyuk Park and Qifeng Li
2179	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-000450	Energy Storage Price Arbitrage via Opportunity Value Function Prediction	Ningkun Zheng, Xiaoxiang Liu, Bolun Xu and Yuanyuan Shi
2180	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-000549	A Cournot Modeling Framework to Test Alternative Market Design Options for Decarbonization	Adam Suski and Deb Chattopadhyay
2181	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-000716	Real-world Experience with Residential Demand Response Baselines	Will Franklin, Paul Hines and Sarah Howerter
2182	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-000871	Day-Ahead Estimation of Renewable Generation Uncertainty Set for More Efficient Market Clearing	Alexander Wasilkoff, Panagiotis Andrianesis and Michael Caramanis
2183	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-001115	Achieving Social Optimality for Energy Communities via Dynamic NEM Pricing	Ahmed Alahmed and Lang Tong
2184	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-001116	Hybrid Power Plant Bidding in Models of Future Electricity Systems	Julie Mulvaney Kemp, Miguel Heleno and Andrew Mills
2185	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-001190	A Machine Learning Framework to Deconstruct the Primary Drivers for Electricity Market Price Events	Milan Jain, Xueqing Sun, Sohom Datta and Abhishek Somani
2186	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-001226	Real-Time Locational Marginal Price Forecast: A Decision Transformer-Based Approach	Zhongxia Zhang and Meng Wu
2187	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-001283	Learning a Multi-Agent Controller for Shared Energy Storage System	Ruohong LIU and Yize CHEN
2188	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-001367	Design Considerations of a Coordinative Demand Charge Mitigation Strategy	Rongxing Hu, Kai Ye, Hyeonjin Kim, Hanpyo Lee, Ning Lu, Di Wu and PJ Rehm
2189	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-001370	Optimal Tax Incentive Policy Design for Promoting Emerging Energy Technologies: A Stackelberg Game Approach	Alejandro Castillo-Ramírez and Diego Mejía-Giraldo
2190	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-001387	An Economic Optimization Method of Ancillary Service for VPP Consist of Multi-Microgrids	Bin Wang, Kaiyuan Hou, Deming Xia, Yu Chen, Zhen Li, Samson S. Yu, Bin Liu and Xi Chen
2191	Power Systems - Red	PSOPE - Power System Economics Subcommittee Poster Session	23PESGM-001679	Two-Settlement Locational Marginal Pricing for Distribution Networks	Ryan Triolo, Ram Rajagopal and Frank Wolak
2192	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-000117	Transmission and Distribution Systems Coordination using the Design Structure Matrix	Abdelrahman Ayad and François Bouffard
2193	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-000121	An Optimal Energy Management Algorithm Considering Regenerative Braking and Renewable Energy for EV Charging in Railway Stations	Georgia Pierrou, Yannick Zwiner and Gabriela Hug

2194	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-000313	Modelica Implementation and Validation of Virtual Synchronous Machine Control for a VSC in ePHASORSIM	José M. Valles, César Angeles-Camacho and Francisco Gonzalez-Longatt
2195	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-000404	Sensitivity Analysis on Green Hydrogen as Energy Storage: A Techno-Economic Case study	Rahul Rajeevkumar Urs, Assia Chadly, Ahmad Mayyas and Ameena Alsumaiti
2196	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-000590	Integration of PV Generation and Battery Energy Storage System into Hybrid AC and MTDC Networks	Mojtaba Ahanch, Haodong Yang, Roy McCann and Alan Mantooth
2197	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-000742	Developing VSC-HVDC Oscillation Damping Control Constraints in Unit Commitment	Mingjian Tuo, Jiazi Zhang, Leonardo Rese and Xiaofei Wang
2198	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-000833	A Resilience Assessment Framework for Coupled Power and Communication Infrastructure	Mohamed Lotfi, Mathaios Panteli, Linton Wells II, Kathryn Blackmond Laskey, John W. van de Lindt, Yair Amir, Amy Babay and Imes Chiu
2199	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-001008	Modeling 100% Electrified Transportation in NYC	Jingrong Zhang, Amber Jiang, Brian Newborn, Sara Kou and Robert Mieth
2200	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-001036	Automatics Integrated Simulator for Power Grid Operations Training	Brian Shin, Anil Jampala and Xingkang Wang
2201	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-001109	Optimal Distributed Voltage Control via Primal Dual Gradient Dynamics	Mohammed N. Khamees, Yang Liu and Kai Sun
2202	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-001136	Carbon Emissions Resulting from Different Power Flow Models for Dispatch	Calla Winner, Jasmine Garland, Constance Crozier and Kyri Baker
2203	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-001359	Net-Zero Emission for Multi-Energy Campus System	Patrick Wilk, Ethan Cantor and Jie Li
2204	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-001410	Carbon Flow Tracing based Consumer's Indirect Carbon Emissions Calculation	Yuyang Wang, Ming Zhou, Zhaoyuan Wu, Jingting Wang and Gengyin Li
2205	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-001460	Automated Initialization of Large-Scale Real-Time EMT Simulation Studies using Measured Data	Eric Segerstrom, Andrea Pinceti and Katelynn Vance
2206	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-001638	Facilitating the Service of a Shared PV and Energy Storage System Considering Users' Discrete Choice	Yuxuan Zhuang, Zhiyi Li and Xutao Han
2207	Power Systems - Red	PSOPE - Technologies & Innovation Subcommittee Poster Session	23PESGM-001656	Optimal Wind Farm Layout with Bastankhah Model	Carlos Kebudi and Bruno Fanzeres

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3001	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000025	A Virtual Inertia Compensation Control Technique for DC Microgrid Voltage Stabilization	Md Shafiul Alam, Fahad Saleh Al-Ismael, Md Shafiullah, Syed Masiur Rahman, Muhammad Khalid and M. A. Abido
3002	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000058	Optimal Economic Allocation Strategy for Hybrid Energy Storage System under the Requirement of Wind Power Fluctuation	Lang Zhao , Yuan Zeng, Dong Peng and Yizheng Li
3003	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000328	Battery Health Prognosis: Discharging Capacity Prediction at All Operating Voltage Levels	Chunyang Zhao, Peter Bach Andersen, Chresten Træholt and Seyedmostafa Hashemi
3004	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000344	Energy Allocation of the Community Energy Storage System: A Contribution-Based Incentive Mechanism	Akhtar Hussain and Petr Musilek
3005	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000467	Black Start with Inverter-Based Resources: Hardware Testing	Hannah Burroughs, Cecilia Klauber, Megan Culler and Chih-Che Sun
3006	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000538	Model Predictive Control with Adaptive Compensation for Power Management in Fuel Cell Hybrid Electric Vehicles	Qiuyu Li, Hengzhao Yang, Qian Xun and Marco Liserre
3007	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000561	Neural Network based Predictive Algorithm for Peak Shaving Application using Behind the Meter Battery Energy Storage System	Nicolas Mary, Louis-A. Dessaint, Huan Liu and Yohann Geli
3008	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000574	A Joint Optimization Framework for Integration of Shared Electric Vehicles and Microgrids	Wei Wang and Hengzhao Yang
3009	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000641	Optimal Energy Storage Scheduling for Wind Curtailment Reduction and Energy Arbitrage: A Deep Reinforcement Learning Approach	Jinhao Li, Changlong Wang and Hao Wang
3010	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000726	Strategic Storage Operation in Energy and Reserve Markets: An AC-based Bilevel Approach	Peiyao Guo, Zhao Yuan, Thomas Hamacher and Vedran Perić
3011	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000779	Neighbourhood Batteries and Virtual Power Plants: a Comparison of Potential Benefits for the Grid and for Households	Shan He, Louise Bardwell and Marnie Shaw
3012	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000783	Data-driven Battery Modeling based on Koopman Operator Approximation using Neural Network	Hyungjin Choi, Valerio De Angelis and Yuliya Preger
3013	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000853	Battery Systems for VAR support in Distribution Substations	Mohamed Kamaludeen, Yusef ESA, Kim Zafar, Elihu Nyemah, Ahmed Mohamed, Tamer Ibrahim and Simon Odie
3014	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000915	Investigating Piecewise Linear Energy Storage Models for Optimization in Power Systems	Lysandros Tziovani, Lenos Hadjidemetriou and Stelios Timotheou
3015	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM000957	Data-Driven Techno-Economic and Resilience Analysis of Community Energy Storage	Rodrigo Trevizan, Tu Nguyen, Alvaro Furlani Bastos, Henry Guan, Stanley Atcity and Alexander Headley

3016	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM001024	Battery Swapping Station Hosting Capacity Analysis	Tan Zhang
3017	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM001108	Techno-Economic Analysis on the Dual-use of Pumped Storage Hydro as Transmission Service Provider and Market Participant	Kumarsinh Jhala, Zhi Zhou and Jonghwan Kwon
3018	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM001131	Reliability-based Sizing of Energy Storage for Systems with Very High Renewable Penetration	Atri Bera, Andrew Benson and Tu Nguyen
3019	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM001184	Model for Cooperative Operation of Li-ion Batteries and Hydrogen Storage Systems in Microgrids Considering Cycling Costs and Dynamic Prices	Claudio Cambambi, Renata Lautert, Camilo Rangel, Luciane Canha and Isabel Milani
3020	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM001261	A Review of Lithium-ion Battery Physics-based Models	Raviteja L V and Gurunath Gurralla
3021	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM001273	MPC based Community Battery System to minimize the Energy Cost of a Residential Community	Sunil Abraham, Yateendra Mishra and Michael Cholette
3022	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM001398	Renewable self-sufficient energy supply for smart devices in urban areas, Energy-Hub - case study	Christoph Wenge, Bartlomiej Arendarski, Robert Pietracho and Stephan Balischewski
3023	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM001399	Novel Feature Selection Strategy for Cyclic Loss Prediction of Lithium-ion Electric Vehicle Battery	Huzaifa Rauf, Muhammad Khalid , Naveed Arshad and Michael Pecht
3024	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM001439	Data-Driven Estimation of Li-Ion Battery Health using a Truncated Time-based Indicator and LSTM	Wesley Qi Tong Poh, Yan Xu and Robert Thiam Poh Tan
3025	Power Delivery - Blue Section	Energy Storage & Stationary Battery Poster Session	23PESGM001541	Annual Benefit Analysis of Integrating the Seasonal Hydrogen Storage into the Renewable Power Grids	Jin Lu and Xingpeng Li
3026	Power Delivery - Blue Section	Insulated Conductors Poster Session	23PESGM000265	ProtoDINet : End-to-End Interpretable Prototypical Model for Insulator Damage Detection	Hooman Vaseli, Nandinee Haq, Jhelum Chakravorty and Antony Hilliard
3027	Power Delivery - Blue Section	Marine Systems Coordinating Poster Session	23PESGM000423	Modeling and Real-Time Simulation of Ocean Current Turbines for Grid Integration	Sasha Fung, Yufei Tang, James VanZwieten and Gabriel Alsenas
3028	Power Delivery - Blue Section	Marine Systems Coordinating Poster Session	23PESGM000632	Green Smart Port Energy System Design:Optimal Sizing	Francesco Conte, Fabio D'Agostino, Daniele Kaza, Ritvana rrukaj, Federico Silvestro and Mehdi Zadeh
3029	Power Delivery - Blue Section	Marine Systems Coordinating Poster Session	23PESGM000819	Optimized Tuning for Flexible and Resilient Control of Zonal DC Microgrids on Ships	Andrea Alessia Tavagnutti, Daniele Bosich and Giorgio Sulligoi
3030	Power Delivery - Blue Section	Marine Systems Coordinating Poster Session	23PESGM001303	Modeling and Analysis of the SUNY-Maritime College New Training Ship Power System with BESS	Sina Zarrabian, Van-Hai Bui and Thai-Thanh Nguyen
3031	Power Delivery - Blue Section	Nuclear Power Engineering Poster Session	23PESGM001621	A Pre-commissioning Testbed for Online Monitoring of Nuclear Power Plant Auxiliary Power Systems Using a Digital Real-Time Simulator	Akram Saad, Mark Bowman, Hugo Castro and Abdelrahman Karrar

3032	Power Delivery - Blue Section	Instrumentation and Measurements Poster Session	23PESGM000727	Harmonic Phasor Estimation based on Substation Edge Device Philosophy	Leandro Silva, Tiago Lomar, Guilherme Soares, Carlos Duque and Paulo Ribeiro
3033	Power Delivery - Blue Section	Instrumentation and Measurements Poster Session	23PESGM000814	Concept of a Split-Core HFCT with Air Gap Control for Partial Discharge Measurements	Martin Fritsch and Martin Wolter
3034	Power Delivery - Blue Section	Instrumentation and Measurements Poster Session	23PESGM001242	Changes Required in the PMU standards	Artis Riepnieks, Dani Strickland, Jan-Philipp Kitzig and Harold Kirkham
3035	Power Delivery - Blue Section	Instrumentation and Measurements Poster Session	23PESGM001296	role="presentation">GPU-based Computations on IoT Edge Devices for<br role="presentation">High Frequency Power Grid Monitoring	Justin Johnson and Luigi Vanfretti
3036	Power Delivery - Blue Section	Instrumentation and Measurements Poster Session	23PESGM001377	Reactive Power: sorted, perhaps	Artis Riepnieks, Dani Strickland, Jan-Philipp Kitzig and Harold Kirkham
3037	Power Delivery - Blue Section	Instrumentation and Measurements Poster Session	23PESGM001451	High Resolution Harmonic Power Flow and Passive Harmonic Impedance Measurements	Jan-Philipp Kitzig, Christoph Szymczyk and Gerd Bumiller
3038	Power Delivery - Blue Section	Communication and Cybersecurity (PSCC) Committee Poster Session	23PESGM000104	On the Use of Safety Critical Control for Cyber-Physical Security in the Smart Grid	Amr Mohamed, Mohsen Khalaf and Deepa Kundur
3039	Power Delivery - Blue Section	Communication and Cybersecurity (PSCC) Committee Poster Session	23PESGM000177	LF Radio Receiver For Substation Intrusion Deterrent and Measurement Validation	Roderick Gray and Morris Cohen
3040	Power Delivery - Blue Section	Communication and Cybersecurity (PSCC) Committee Poster Session	23PESGM000405	Cyber-Attack Event Analysis for EV Charging Stations	Mansi Girdhar, Junho Hong, Yongsik You, Tai-jin Song and Manimaran Govindarasu
3041	Power Delivery - Blue Section	Communication and Cybersecurity (PSCC) Committee Poster Session	23PESGM000703	Physics-Constrained Backdoor Attacks on Power System Fault Localization	Jianing Bai, Ren Wang and Zuyi Li
3042	Power Delivery - Blue Section	Communication and Cybersecurity (PSCC) Committee Poster Session	23PESGM001004	Moving Target Defense Strategy to Protect a PV/Wind Lab-Scale Microgrid Against False Data Injection Cyberattacks: Experimental Validation	Ehsan Naderi, Arash Asrari and Benito Ramos
3043	Power Delivery - Blue Section	Communication and Cybersecurity (PSCC) Committee Poster Session	23PESGM001199	Cybersecurity Value-at-Risk Framework	Anuj Sanghvi and Ryan Cryar
3044	Power Delivery - Blue Section	Communication and Cybersecurity (PSCC) Committee Poster Session	23PESGM001308	Real-time Protection Against Microgrid False Data Injection Attacks Using Passive Monitoring	Mark Karanfil, El-Nasser Youssef, Marthe Kassouf, Mourad Debbabi, Mohsen Ghafouri and Aiman Hanna
3045	Power Delivery - Blue Section	Communication and Cybersecurity (PSCC) Committee Poster Session	23PESGM001316	Differential Duffing Oscillator Based Cyberattack Detection for Inverters	Zimin Jiang and Yifan Zhou
3046	Power Delivery - Blue Section	Communication and Cybersecurity (PSCC) Committee Poster Session	23PESGM001355	Invulnerability Evaluation and Optimization of Communication Topology for Microgrids under Distributed Control	Xiaoyan Wu, Sicheng Deng, Laijun Chen and Shengwei Mei
3047	Power Delivery - Blue Section	Communication and Cybersecurity (PSCC) Committee Poster Session	23PESGM001450	Graph Theoretic Approach for Cyber Contingency Analysis of Smart Grid	Hareesh Kumar Reddy M and Vignesh Venkata Gopala Krishnan

3048	Power Delivery - Blue Section	Communication and Cybersecurity (PSCC) Committee Poster Session	23PESGM001528	Distributed Energy Resource Management Systems: Preserving Customer Privacy through K-Anonymity	Moahmmed Alsaid, Midrar Adham, Robert Bass and Nirupama Bulusu
3049	Power Delivery - Blue Section	Communication and Cybersecurity (PSCC) Committee Poster Session	23PESGM001559	A Real-time Quantitative Framework for Survivability Evaluation of Smart Grids	Abolfazl Rahiminejad, Mohsen Ghafouri, Ribal Atallah, Arash Mohammadi and Mourad Debbabi
3050	Power Delivery - Blue Section	Power Systems Relaying & Control Poster Session	23PESGM000033	DER Dynamics Integration Demonstration Using Power Hardware-in-the-loop (PHIL) Testbed in Southern California Edison (SCE)	Shadi Chuangpishit, Farid Katiraei, Md Arifujjaman, Roger Salas, Anthony Johnson and Jorge Araiza
3051	Power Delivery - Blue Section	Power Systems Relaying & Control Poster Session	23PESGM000099	VSC-HVDC Traveling Wave Protection Based on the First Current Extremum of the Non-Fault Pole	Zhenting Zhao, Yi Zou, Shengyang Wu, Tiantian Chen and Yinhong Li
3052	Power Delivery - Blue Section	Power Systems Relaying & Control Poster Session	23PESGM000176	Effect of GPS Manipulation to Traditional and Next Generation Relay Protection	Klaehn Burkes and Ian Webb
3053	Power Delivery - Blue Section	Power Systems Relaying & Control Poster Session	23PESGM000247	Challenges with Integrating Short-Circuit Model of Inverter-Based Resources into Phasor-Domain Short-Circuit Programs	Manish Patel, Aboutaleb Haddadi and Evangelos Farantatos
3054	Power Delivery - Blue Section	Power Systems Relaying & Control Poster Session	23PESGM000948	Power Network Fault Location Based on Voltage Magnitude Measurements and Sparse Estimation	Yuxuan Zhu, Yixiong Jia, Yu Liu and Dayou Lu
3055	Power Delivery - Blue Section	Power Systems Relaying & Control Poster Session	23PESGM001365	Accurate Single-Ended Fault Location for Cable-OHL Hybrid Transmission Lines	Zhongtao Guan, Jun Wan, Yu Liu, Dian Lu, Mengzhao Duan and Renke Huang
3056	Power Delivery - Blue Section	Power Systems Relaying & Control Poster Session	23PESGM001427	Experimental Test Bench for Power Transformer Differential Protection Testing Methods Evaluation	Rodrigo de Medeiros, Lucas Simões and Flavio Costa
3057	Power Delivery - Blue Section	Power Systems Relaying & Control Poster Session	23PESGM001501	Quantifying the Protectability of Power Systems for Restoration Applications	Jay Sawant and Rishabh Jain
3058	Power Delivery - Blue Section	Power Systems Relaying & Control Poster Session	23PESGM001573	Cyberattack Threats Against Adaptive Protection Systems in Microgrids	Negar Karimipour, Mohammadreza Fakhari Moghaddam Arani and Amir Abiri Jahromi
3059	Power Delivery - Blue Section	Power Systems Relaying & Control Poster Session	23PESGM001635	Improved Fault Phase Selection Scheme for Lines Terminated by Inverter Based Resources	Yuhao Xie, Yu Liu, Yuan Nie, Dian Lu, Yuxuan Zhu and Xiaodong Zheng
3060	Power Delivery - Blue Section	Power Systems Relaying & Control Poster Session	23PESGM001661	Protection of Multi-Terminal Hybrid Transmission Lines Based on Dynamic States Estimation	Jinhao Qiu, Yu Liu, Binglin Wang, Yuhao Xie and Wentao Huang
3061	Power Delivery - Blue Section	Power Systems Relaying & Control Poster Session	23PESGM001677	Fault Location on Distribution Cables Using Traveling Waves: a Field Data Study	Yun'an Xu, Sheng Zhang, Yu Liu, Yuan Nie and Lihui Yi
3062	Power Delivery - Blue Section	Power Systems Relaying & Control Poster Session	23PESGM001681	A Group of Single-Ended Time-Domain Line Fault Location Methods Using Breaker Operation Information	Mengzhao Duan, Yu Liu, Ze Liu, Xinchun Zou and Zhongtao Guan
3063	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM000417	Data-Driven Approach to Transactive Energy Systems with Commercial Buildings	Meghana Ramesh, Jing Xie, Thomas McDermott, Monish Mukherjee, Michael Diedesch and Anjan Bose

3064	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM000471	Methodology for comparing the performance of DER coordination schemes in providing frequency regulation	Hani Mavalizadeh and Mads Almassalkhi
3065	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM000540	On the Interplay between Water and Power Grids: Desalination Plants for Demand Response	Khaled Alshehri and Ali Al-Awami
3066	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM000543	Data-driven HVAC Control Using Symbolic Regression: Design and Implementation	Yuki Ozawa, Dafang Zhao, Daichi Watari, Ittetsu Taniguchi, Toshihiro Suzuki, Yoshiyuki Shimoda and Takao Onoye
3067	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM000713	Findings from Design and Operation of Connected Neighborhoods	Eve Tsybina, Chris Winstead, Justin Hill and Helia Zandi
3068	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM000870	MIMO Model Predictive Control for Demand Management in Islanded Water-Energy Microgrids	Saskia Putri, Menglin Jiang, Farrah Moazeni and Javad Khazaei
3069	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM000983	Mitigation of Overvoltage due to Solar and Wind in Networked Microgrids using Division Rules	Saeed Alyami and Caisheng Wang
3070	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM001016	Flexibility Sources for Local Distribution Operators	Farhad Angizeh and Mohsen Jafari
3071	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM001148	AI-Based Estimation of Available Flexibility at Individual House Level	baraa mohandes, Daniel Koster and Nguyen Phuong
3072	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM001237	Optimal Storage Response to Utility Tariff Structures and Potential Use of Capacity Charges	Killian McKenna
3073	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM001246	Low-Carbon Community Energy Management Incorporating Data-Driven User Segmentation	Yinyan Liu, Lei Bai and Jin Ma
3074	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM001356	A Multi-Agent Deep Deterministic Policy Gradient Method for Multi-Zone HVAC Control	Xuebo Liu, Yingying Wu, Bo Liu and Hongyu Wu
3075	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM001449	Design of Dynamic Prices for Retailers Based on User Equilibrium	Fengyuan Jin, Chengcheng Shao and Xifan Wang
3076	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM001591	Dynamic Load-Altering Cyberattacks against Direct Load Control of Residential Electric Water Heaters	El-Nasser S. Youssef, Fabrice Labeau and Marthe Kassouf
3077	Power Delivery - Blue Section	Smart Buildings, Loads & Customer Systems Poster Session	23PESGM001625	Detection and Location of Electricity Theft via Convolutional Neural Network in Distribution System	Keejoo Sim, Gyl Lee and Yong-June Shin
3078	Power Delivery - Blue Section	Substations Poster Session	23PESGM001562	Compact Solutions for Outdoor 138kV Substation Projects, using only Conventional Equipment	Carlos Alberto Castelli, José Pissolato Filho, Ricardo Augusto de Araújo and Felipe Martins Daquino
3079	Power Delivery - Blue Section	Switchgear Poster Session	23PESGM000414	Development of an SF6-free AC HV Dead-Tank Circuit Breaker Rated 145 kV, 63 kA	Victor Hermosillo, Matthias Schirmer, Todd Irwin, Ludovic Darles and Cyril Gregoire

3080	Power Delivery - Blue Section	Switchgear Poster Session	23PESGM000660	width="617" align="center"> <tbody><tr> <td valign="top" align="left"> F-Gas Free Switchgear – A real Alternative to SF6 Gas Insulated Switchgear </td> </tr> </tbody></table>	Karthik Reddy Venna, Florian Wolfrum and Guillermo Corral
3081	Power Delivery - Blue Section	Switchgear Poster Session	23PESGM000911	Hybrid DC Circuit Breaker Proactive Control Evaluation	Giancarlo Prezotto and Renato Monaro
3082	Power Delivery - Blue Section	Transformers Poster Session	23PESGM000688	Optimization of Inspection, Testing and Maintenance (ITM) of Transformers	Sujit Purushothaman
3083	Power Delivery - Blue Section	Transformers Poster Session	23PESGM001614	Comprehensive G-C Modeling of a Gapless Continuously Variable Series Reactor	Mohammadali Hayerikhiyavi and Aleksandar Dimitrovski
3084	Power Delivery - Blue Section	Transformers Poster Session	23PESGM001670	Digital Twins for Power Transformers	Reza Jalilzadeh Hamidi
3085	Power Delivery - Blue Section	Transmission and Distribution Conference Poster Session	23PESGM000016	Variations in Supraharmonic Emission (2-150 kHz) of an EV Fast Charging Station under Different Supply- and Operating Conditions	Tim Slangen, Vladimir Cuk, Erik de Jong and Sjef Cobben
3086	Power Delivery - Blue Section	Transmission and Distribution Conference Poster Session	23PESGM000152	Voltage Balancing of Grid-Forming Inverters in Unbalanced, Islanded Microgrids	Debjyoti Chatterjee, Nicholas Barry, Taehyung Kim, Woosung Kim and Surya Santoso
3087	Power Delivery - Blue Section	Transmission and Distribution Conference Poster Session	23PESGM000418	Autonomous Voltage Response for Distributed Energy Resources	Thomas McDermott
3088	Power Delivery - Blue Section	Transmission and Distribution Conference Poster Session	23PESGM000854	Safety Concerns and Recommendations during Work in the Vicinity of Energized Lines	Dávid Szabó, László Gyergyádesz, Bálint Németh and Eduardo Ramirez-Bettoni
3089	Power Delivery - Blue Section	Transmission and Distribution Conference Poster Session	23PESGM001075	Fault Clearing Operation in Low-Frequency High-Voltage AC Systems	Woosung Kim, Quan Nguyen and Surya Santoso
3090	Power Delivery - Blue Section	Transmission and Distribution Conference Poster Session	23PESGM001149	Insulation Performance of a High-Voltage Compact Overhead Transmission Line subject to Tropical Savanna Wildfires	Alessandro Cesar de Sousa Berredo and Michael Smith
3091	Power Delivery - Blue Section	Transmission and Distribution Conference Poster Session	23PESGM001233	Sensitivities of Geomagnetically Induced Currents in Dominion Energy Virginia to the Neighboring Grids and Transformer Blocking Schemes	Adedasola Ademola, Xiawen Li, Andrea Pinceti, Micah J. Till, Katelynn A. Vance, Kevin D. Jones, Matthew Gardner and Yilu Liu
3092	Power Delivery - Blue Section	Transmission and Distribution Conference Poster Session	23PESGM001324	Benders Decomposition for TSO-DSO Coordination in Local Ancillary Services Market	Carmine Rodio, Giovanni Giannoccaro, Sergio Bruno and Massimo La Scala
3093	Power Delivery - Blue Section	Transmission and Distribution Conference Poster Session	23PESGM001334	Optimal Mode and Droop Setting of Smart Inverters	Temitayo Olowu, Adedoyin Inaolaji, Sumit Paudyal and Arif Sarwat
3094	Power Delivery - Blue Section	Transmission and Distribution Conference Poster Session	23PESGM001362	A Low-Breaking-Energy-Needed Fault Isolation Scheme Based on Fault Active Control for DC Distribution Network with Multi-type Converters	Wenxuan Lv, Hong Cao and Tao Zheng
3095	Power Delivery - Blue Section	Transmission and Distribution Conference Poster Session	23PESGM001379	Frequency-Dependent Electrical Characteristics of Submarine Cables in Low Frequency High Voltage ac (LF-HVac) Transmission for Offshore Wind	Okechukwu Efobi , Wei Li, Mukesh Da and Aniruddha Gole

3096	Power Delivery - Blue Section	Transmission and Distribution Conference Poster Session	23PESGM001454	Climate Vulnerability Assessment in Power Systems	Andrew Lopez, Hayk Zargaryan and Manuel Avendano
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5001	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM000032	Coordinated reactive power control of hydro generators in the Nordic grid	Emil Melfald and Thomas Øyvang
5002	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM000120	Voltage Flicker Evaluation of Distributed Energy Resources Operating at Voltage-Support Modes	Masoud Esmaili and Christopher Ritacco
5003	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM000320	A non-cooperative game-theoretic approach for the flexible operation of multi-microgrids	Soheil Mohseni and Alan Brent
5004	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM000383	Artificial Intelligence and Unmanned Aerial Vehicle Applications on Electrical Power Systems	Wilbert Hernandez, Braian Diaz and Eduardo Ortiz
5005	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM000443	The role of trenchless methods for underground cables and future energy supply	Dr. Marc Peters
5006	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM000460	Supervised Federated Neural Architecture Search and Its Application in Power System Forecasting	Amirhossein Dolatabadi, Jhelum Chakravorty and Xiaoming Feng
5007	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM000508	Inverter Voltage Support for Ac Heating and Fast Charging of Electric Vehicles	Luis E. Guillén Montenegro and Hugo N. Villegas Pico
5008	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM000664	A Probabilistic Graphical Model for Predicting Cascade Failures of Electric Vehicle Charging Networks Caused by Hurricanes	Tianze Zhang, Pengyu Fan and Difei Tang
5009	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM000670	Measurement-Based Voltage Control Coordinating Inverter-Based Resources and Traditional Resources - New York State Grid Case Study	Chengwen Zhang, Yi Zhao, Yilu Liu, Lin Zhu, Evangelos Farantatos, Aboutaleb Haddadi, Mahendra Patel, Atena Darvishi and Hossein Hooshyar
5010	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM000842	Practical Lessons Learned from an Installed Grid-Edge Microgrid	Keaton Wheeler, Jia Guo, Kathryn Paterson, Graeme Edwards, Elizabeth Lee, Michael Simone and Peter Zhou
5011	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM000919	Determination of flexible availability for management and operation of electric vehicle charging stations	Aerton Medeiros, Hericles Farias, Camilo Rangel, Luciane Canha, Vinicius Garcia and Rodrigo Santos
5012	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM000982	Deep Learning Signal Waveform Characterization of Partial Discharge for Underground Power Cable Conditions	Shishir Shekhar, Steffen Ziegler, Malaquias Peña and Daniel Scherle
5013	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001018	Quantifying V2G Response Capabilities Considering MV-LV Distribution Network Constraints	Jing Zhu and Luis F. Ochoa
5014	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001040	Enhancing Conservation Voltage Reduction using Coordinated Control of Medium and Low Voltage Controllable Devices	Rahul Jha, Honghao Zheng and Paul Pabst
5015	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001041	Volt/VAR Optimization (VVO) Application on GridAPPS-D Platform	Rahul Jha, Shiva Poudel, Poorva Sharma, Anamika Dubey and Kevin Schneider
5016	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001079	Adaptive Prepositioning and Emergency Scheduling of Mobile Microgrids in Constrained Active Power Distribution and Urban Transportation Networks	Liang Che, Mohammad Shahidehpour, Alexandre Nassif, Daniel Kushner, Aleksi Paaso and Shay Bahramirad
5017	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001081	EMT and Phasor-Domain Co-simulation of a Low Frequency AC Transmission System for Offshore Wind Integration	Manisha Maharjan, Quan Nguyen, Sheik M Mohiuddin, Jinho Kim, Bhaskar Mitra, Nimat Shamim, Ahmad Tbaileh and Nader Samaan
5018	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001111	Using the Common Information Model for Power Quality Data	Theo Laughner and Tom Cooke

5019	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001112	Optimal Synchronization Scheme of Grid-forming Inverters at Multiple Point of Coupling in Reconfiguring Grid	Amirhosein Gohari Nazari, Muhammad Farooq Umar and Mohammad B. Shadmand
5020	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001153	Networked Microgrid Design and Operation for Enhancing the Grid Resilience in Extreme Conditions	Zhiyi Li, Mohammad Shahidehpour, Alexandre Nassif, Daniel Kushner, Aleks Paaso and Shay Bahramirad
5021	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001191	Electrical vehicle load modelling for distribution system considering future scenarios	Hanshan Qing, Abhinav Kumar Singh and Stratis Batzelis
5022	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001279	AMLA: the Art of Converging IT-OT and Logical Airgaps	Abhinav Chopra, Nirmal Nair and Rizki Rahayani
5023	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001288	Improving Resiliency for Electric Vehicle Charging	Michael Starke, Madhu Chinthavali, Namwon Kim, Francis Tuffner, Thomas Carroll, Benny Varghese, Craig Rieger, Richard Carlson, Kenneth Rohde and Timothy Pennington
5024	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001292	Black Start of Unbalanced Microgrids Harmonizing Single- and Three-Phase Grid-Forming Inverters	Gab-Su Seo, Jay Sawant and Fei Ding
5025	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001302	A Hierarchical Control Architecture: Utilization of Behind-the-Meter Appliances with Increased Visibility and Controllability	Arun Sukumaran Nair, Mohd Azrin Mohd Zulkefli, Yi Liu, Shakawat Hossan, Siddharth Suryanarayanan and Roger Alexander
5026	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001380	Scalable and Lightweight Distributed Local Routing for Quantum Network-Based Microgrids	Sijia Yu, Zefan Tang, Zimin Jiang and YIFAN ZHOU
5027	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001456	Comparison of Phase Restoring Principle with other Grid-Forming Methodologies	Ananya Kuri, Alexander Raab, Artur Takhtaganov, Gert Mehlmann and Matthias Luther
5028	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001506	Frequency Cyber-Attack Detection for Droop-Controlled Grid-Forming Inverters	Gabriel Intriago, Raúl Intriago and Yu Zhang
5029	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001539	Data Driven Machine Learning Model for Condition Monitoring and Anomaly Detection in Power Grids	Komal Saleem, Bugra Alkan and Sandra Dudley-McEvoy
5030	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001582	Load Encoding for Learning AC-OPF	Terrence W.K. Mak, Ferdinando Fioretto and Pascal Van Hentenryck
5031	Intelligent Grid - White	Grid & Emerging Technologies Coordination Committee Poster Session	23PESGM001603	Priority Load Control for Dynamic WPT Roadway in Electrified Transportation Infrastructure	Travis Newbolt, Paras Mandal, Hongjie Wang and Regan Zane

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6001	Committee/Working Group Poster - Orange Section	PES Technical Committee / Working Group Poster	Hydrogen Integration into Power Systems	IEEE PES Task Force on Hydrogen Integration into Power Systems
6002	Committee/Working Group Poster - Orange Section	PES Technical Committee / Working Group Poster	Task Force on Digital Twin of Large-Scale Power Systems	PSOPE Committee, T&I Subcommittee, Task Force on Digital Twin of Large-Scale Power Systems
6003	Committee/Working Group Poster - Orange Section	PES Technical Committee / Working Group Poster	WG I7 Reliability of HVDC Converters	WG I7 Reliability of HVDC Converters
6004	Committee/Working Group Poster - Orange Section	PES Technical Committee / Working Group Poster	Activities at the Modern and Future Distribution System Planning Task Force 2023-2024	Modern and Future Distribution System Planning task force
6005	Committee/Working Group Poster - Orange Section	PES Technical Committee / Working Group Poster	Aspects of Asset Management	Asset Management
6006	Committee/Working Group Poster - Orange Section	PES Technical Committee / Working Group Poster	Surge Protective Devices Committee	Surge Protective Devices
6007	Committee/Working Group Poster - Orange Section	PES Technical Committee / Working Group Poster	Nuclear Power Engineering Committee	Nuclear Power Engineering
6008	Committee/Working Group Poster - Orange Section	PES Technical Committee / Working Group Poster	IEEE PES Switchgear Standards Committee	Switchgear
6009	Committee/Working Group Poster - Orange Section	PES Technical Committee / Working Group Poster	Intelligent Grid & Emerging Technologies Coordinating Committee (IGET)	Intelligent Grid & Emerging Technologies Coordinating Committee (IGET)
6010	Committee/Working Group Poster - Orange Section	PES Technical Committee / Working Group Poster	Committee of Smart Buildings, Loads, and Customer Systems (SBLCs)	Smart Buildings, Loads and Customer Systems
6011	Committee/Working Group Poster - Orange Section	PES Technical Committee / Working Group Poster	FACTS and HVDC Stations	Substations Committee, FACTS and HVDC Stations Subcommittee