

<b>Board Number</b>	<b>Section</b>	<b>Session</b>	<b>Paper Title</b>	<b>Paper Number</b>	<b>Authors</b>
1001	Green	Energy Development and Power Generation Poster Session	Modeling the Impedance of Grid-Forming SVG Considering Multiple Harmonic Frequencies and Frequency Response Analysis	2026TD-000035	Hao Gao, Hongpeng Liu, Zhixing Wang, Ziqi Xu and Liming Xue
1002	Green	Energy Development and Power Generation Poster Session	Evaluating Resilient Renewable Energy Microgrids for Data Centers in the USA	2026TD-000095	Luis Fernando Bustos Marquez and Steven Hegedus
1003	Green	Energy Development and Power Generation Poster Session	Reactive Power Compensation for Solar Power Plants	2026TD-000102	Mohsen Sheikholeslamzadeh, Loren Powers, Andy Leon and Sudipta Dutta
1004	Green	Energy Development and Power Generation Poster Session	Second Harmonic Suppression in Dual Active Bridge Front-Ends for Two-Stage Energy Storage Inverters under Unbalanced Grid Conditions	2026TD-000183	Zhichao Pan, Xin Wang, Quan Zhang, Jiawei Dong, Guangchao Geng and Quanyuan Jiang
1005	Green	Energy Development and Power Generation Poster Session	Techno-economic Analysis of Hybrid Hydro-solar System	2026TD-000330	Xian Guo, Patrick Eberle, Raganathan R, Rebecca Hay, Arvind Tiwari, Pengyuan Wang, Jose Zayas and Neal Simmons
1006	Green	Energy Development and Power Generation Poster Session	Utility Scale PV Grounding Systems Interaction with Utility Substations	2026TD-000375	Rich Keil and David Lewis
1007	Green	Energy Internet Coordinating Committee Poster Session	Dynamic Power Flow Management for Efficient Energy Routing in the Energy Internet	2026TD-000414	Sobhy Abdelkader and Dina Emad
1008	Green	Renewables Systems Integration Coordinating	Decoupling Behind-the-Meter PV Generation to Determine Native Load: A Case Study from O&R	2026TD-000158	Haowei Lu, Aaron Anaya and Wenbo Wang
1009	Green	Renewables Systems Integration Coordinating	A Frequency Regulation Framework for Integrated Renewable Energy Systems: Unified Capability Assessment and Coordinated Fuzzy Control	2026TD-000182	Guyu Pan and Taiying Zheng
1010	Green	Renewables Systems Integration Coordinating	A Day-Ahead Bidding Framework for Renewable-Fed Distributed Energy Resource Aggregators	2026TD-000284	Nirupama Pudukkarai Srinivas, Sara Ostovar, Mojdeh Khorsand, Abrez Mondal, Nikita Singhal, Ibrahim Krad and Ahmed Saad
1011	Green	Renewables Systems Integration Coordinating	A Parametric Reduced-Order Model for Inverter Short-Circuit Response in Protection Studies	2026TD-000302	Rasel Mahmud, Owen Cormmesser, Soham Chakraborty, Jing Wang, Andy Hoke, James Cale, Brian K. Johnson, Paulo Pinheiro and Romulo Goncalves Bainy
1012	Green	Renewables Systems Integration Coordinating	Peak Demand Mitigation with Reinforcement Learning-Enabled Battery Energy Storage Systems	2026TD-000381	Yansong Pei, Chandan Chaudhary, Alaaeldein Abdelkader, Mohammed Benidris and Joydeep Mitra
1013	Green	Renewables Systems Integration Coordinating	Intelligent Solar Integrated Three-Phase Grid-Forming Inverter Using Droop Control	2026TD-000402	Samiul Alam, Mohamma A Abido and Abdulaziz M Qwbaiban
1014	Green	Renewables Systems Integration Coordinating	Real-Time Closed-Loop Cloud Architecture for Operation and Control of Aggregated DERs	2026TD-000435	Sarp Ozel, Alaaeldein Abdelkader, Mohammed Benidris and Joydeep Mitra

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2001	Red	AMPS Poster Session	Hybrid Time-Frequency and EfficientNet-B0-Based Fault Classification in Power Distribution Networks	2026TD-000044	Alexander Aguila Téllez, Krishnan Narayanan, Diego Carrión, Marcelo García and Milton Ruiz
2002	Red	AMPS Poster Session	Resilient Zoning for High-Impact Events via Multi-Circuit Pole lines	2026TD-000103	Hritik Gopal Shah, Gregory Giustino and Elli Ntakou
2003	Red	AMPS Poster Session	Explainability-Guided Feature Engineering for Mid-Term Load Forecasting in ERCOT's South-Central Region	2026TD-000115	Sung Bum Ahn, Abhiram Bhupatiraju and Sam Moayed
2004	Red	AMPS Poster Session	Why IEC 61970 CIM Needs a Conformance and Interoperability Program	2026TD-000118	David Bogen
2005	Red	AMPS Poster Session	Primary Frequency Response Performance Analysis of the Puerto Rico Generation Fleet	2026TD-000119	Pavel Etingov, Alexandre Nassif, Marcelo Elizondo, Alok Bharati, Vishvas Chalishazar, Daniel Haughton, Oscar Garzon, Estefania Alfaro, Taisha Rosa and Alfonso Baretty
2006	Red	AMPS Poster Session	An Interpretable Federated Learning Control Framework Design for Smart Grid Resilience	2026TD-000134	Ibrahim Shahbaz, Eman Hammad and Abdallah Farraj
2007	Red	AMPS Poster Session	Understanding Regional Inertia Dynamics in CAISO from Real Grid Disturbances	2026TD-000139	Saurav Dulal, Mohammed M. Olama, Ali R. Ekti, Nils M. Stenvig and Yilu Liu
2008	Red	AMPS Poster Session	3-Dimensional Irradiance Map Reconstruction for Identifying Optimal Areas for PV Systems Installation in Puerto Rico	2026TD-000165	Carlos J Delgado Munoz, Estefania Alfaro Mejia, Oscar D Garzon, Matias Patino, Alexandre B Nassif and Daniel Haughton
2009	Red	AMPS Poster Session	Accelerating Chance-constrained SCED via Scenario Compression	2026TD-000174	Qian Zhang and Le Xie
2010	Red	AMPS Poster Session	Rethinking High-Impedance Faults: Beyond a Low-Current Footprint	2026TD-000193	Pablo Paz, Shannon Strank, Robert Hebner, Eliot Jimenez-Ortega and Surya Santoso
2011	Red	AMPS Poster Session	Deep learning-based U-Net segmentation for PV placement and Capacity estimation on Rooftops	2026TD-000206	Estefania Alfaro-Mejia, Carlos J Delgado, Oscar Garzon, Matias Patino, Safi Bamati, Alexandre B Nassif and Daniel Haughton
2012	Red	AMPS Poster Session	Ignition Risk-Aware Operation of Distributed Energy Resources for Pre-Emptive Wildfire Outage Mitigation	2026TD-000231	Hollis Belnap, Sarah Khan, Ali Tasavvori and Masood Parvania

2013	Red	AMPS Poster Session	When AI Data Centers Learn, the Lights Flicker: Modeling and Analysis of Active Power Fluctuations in AI Data Centers	2026TD-000239	Amin Dadashzade, Fahimeh Fazel, Dilan Novosad and Mike Tabrizi
2014	Red	AMPS Poster Session	Neural Network-Based Aggregated Modeling of Distribution Feeders Supplying Induction Machines with Diverse Ratings and Collector Systems	2026TD-000246	Xin Wang, Arash Safavizadeh, Juri Jatskevich, Guangchao Geng and Quanyuan Jiang
2015	Red	AMPS Poster Session	Two-Stage Optimization Framework for Dynamic Line Rating Implementation	2026TD-000248	Alaaeldin Abdelkader, Chandan Chaudhary, Yansong Pei, Mohammed Benidris and Joydeep Mitra
2016	Red	AMPS Poster Session	Microgrid Resilience Gym: A Benchmark and Training Environment for Reinforcement Learning	2026TD-000252	Sagnika Ghosh and Cameron Malone
2017	Red	AMPS Poster Session	Enhanced Event Clustering Using Real-World Harmonic Phasors and Intrinsic Mode Features	2026TD-000293	Fatemeh Ahmadi Gorjaji, Lutz Lampe, Mohsen Sheikholeslamzadeh and Hamed Mohsenian-Rad
2018	Red	AMPS Poster Session	Scaling Distributed Optimal Renewable Energy Coordination in Unbalanced Distribution Systems	2026TD-000311	Rabayet Sadnan, Nathan Gray, Anjan Bose, Anamika Dubey and Kevin P. Schneider
2019	Red	AMPS Poster Session	Reliability Assessment of the U.S. Western Interconnection with Compounded Weather Events	2026TD-000350	Samrat Acharya, Osten Anderson, Sohom Datta, Zhangshuan Hou, Jan Westman, Xinming Lin, Kerry G Abernethy-Cannella, Syed Ahsan Raza Naqvi, Konstantinos Oikonomou, Yousu Chen and Jason Fuller
2020	Red	AMPS Poster Session	Non-Intrusive Capacitor Bank Failure Detection Using Synchro-waveforms	2026TD-000401	Youqi Guo and Mirrasoul Mousavi
2021	Red	AMPS Poster Session	Multi-Scale Characterization of Distributed Applications in Power Distribution Systems	2026TD-000424	Rabayet Sadnan, Shiva Poudel and Andrew P. Reiman
2022	Red	AMPS Poster Session	Leveraging Synthetic Data for Robust Event Classification in Real PMU Streams	2026TD-000434	Ryan Hildebrant and Kaveri Mahapatra
2023	Red	AMPS Poster Session	Estimating Inter-Area Modes Under Forced Oscillations: Clustering-Assisted Multi-Order Stochastic Subspace Identification	2026TD-000440	Mohammad Mansourlakouraj and Neeraj Nayak

2024	Red	Power & Energy Education	Grid Forming and Following Background, Future, and Strategies	2026TD-000068	Jeremiah Gilbert, Jared Lucas Sanchez and Derrick Agbenya
2025	Red	Power & Energy Education	Scalable and Secure Power Outage Data Reporting: A Hexagonal Geospatial Approach	2026TD-000313	Nasir Ahmad, Supriya Chinthavali, Varisara Tansakul, Sangkeun Lee, Jacob Morris and Narayan Bhusal
2026	Red	Power System Dynamic Performance	Dynamics Enhanced Quasi-Steady-State Model of LCC-HVDC Systems Based on Neural Network	2026TD-000018	Ke Yang, Xin Wang, Quan Zhang, Guangchao Geng and Quanyuan Jiang
2027	Red	Power System Dynamic Performance	Identification of Sub/Super-Synchronous Control Interaction Paths Using Dissipative Energy Flow	2026TD-000173	Kaustav Chatterjee, Sameer Nakkalapu, Sayak Mukherjee, Ramij Raja Hossain and Marcelo Elizondo
2028	Red	Power System Dynamic Performance	Real-Time EMT Domain Transmission & Distribution System Co-simulation	2026TD-000274	Benjamin McCornack, Kaveri Mahapatra and Burhan Hyder
2029	Red	Power System Dynamic Performance	Analysis of the Behavior of Wind and PV Farms during Short-Circuit and Load Rejection.	2026TD-000329	Yuyuniz Gálvez , Daniel Merino, Jorge Araneda and Luis Morán
2030	Red	Power System Dynamic Performance	A Normalized Short-Circuit Ratio for Assessing Impact of Grid-Following Inverters on Grid Stability	2026TD-000332	Shuan Dong, Zhenping Guo, Jin Tan, Anderson Hoke and Benjamin Kroposki
2031	Red	Power System Dynamic Performance	Four Singular Cross Power Spectral Density, 4S-CPSD: A PMU-based Oscillation Source Localization Method for Power Systems	2026TD-000337	Hadis Hosseinpour, Neeraj Nayak and Mohammed Ben-Idris
2032	Red	Power System Operation, Planning & Economics	Towards Improved System Flexibility: Enabling IDSO's Swing Contract Market Participation	2026TD-000008	Swastik Sharma, Swathi Battula and Sri Niwas Singh
2033	Red	Power System Operation, Planning & Economics	Optimization Configuration Strategy for Grid Forming SVG Considering Voltage Stability	2026TD-000037	Yuchun Zhang, Hongpeng Liu and Liming Xue
2034	Red	Power System Operation, Planning & Economics	Charging load prediction based on multi-scale convolutional linear attention mechanism	2026TD-000038	Xiyin Liu, Hongpeng Liu, Yiwei Guo and Fanli Meng
2035	Red	Power System Operation, Planning & Economics	Collaborative Carbon Reduction of Source-Load Entities in Integrated Energy Systems Based on Blockchain Technology	2026TD-000042	Binyang Lv, Wei Zhang and Jichen Gu

2036	Red	Power System Operation, Planning & Economics	Representative Operation Pattern Identification Using Hierarchical Clustering in Renewable and Storage-Integrated Power System	2026TD-000049	Quan Zhang, Liangyu Zhang, Xin Li, Qiao Fang, Guangchao Geng and Quanyuan Jiang
2037	Red	Power System Operation, Planning & Economics	Determination of Optimal Capacity by Wind Speed for Increased Turbine Capacity in Offshore Wind Farms	2026TD-000067	Dongil Cho, Yoonjin Cho, Junhyuk Nam and Wonsik Moon
2038	Red	Power System Operation, Planning & Economics	Online Optimization for Energy Sharing Market in Muti-Energy Systems	2026TD-000126	Zunming Yang, Xu Wang, Xinyi Le and Sijie Chen
2039	Red	Power System Operation, Planning & Economics	Frequency Stability Constrained Capacity Expansion Planning through Virtual Inertia and Droop Capacities Allocation of IBRs	2026TD-000130	Prasant Basnet and Xin Fang
2040	Red	Power System Operation, Planning & Economics	FERC Order 1920 and the Data Center Boom: A New Era in Transmission Expansion Planning	2026TD-000135	Abdelrahman Abdelkader, David Osorio-Garcia, Brad Lowe, Kunal Amare and Mohammed Benidris
2041	Red	Power System Operation, Planning & Economics	Engineering Durability into Sustainable Construction: Bridging Eco-Leadership with Long-Term Resilience	2026TD-000136	Darya Stanskova
2042	Red	Power System Operation, Planning & Economics	From Natural Language to Solver-Ready Power System Optimization: An LLM-Assisted, Validation-in-the-Loop Framework	2026TD-000144	Yunkai Hu, Tianqiao Zhao and Meng Yue
2043	Red	Power System Operation, Planning & Economics	Operational Strategies for Rural Grid Modernization	2026TD-000150	Adam Baade and Lanie Lacy
2044	Red	Power System Operation, Planning & Economics	Hierarchical Forecasting for Data Center Loads	2026TD-000152	Shiuli Subhra Ghosh, Bhawuk Luthra, Jaime De La Ree and Kevin Jones
2045	Red	Power System Operation, Planning & Economics	Reliability Challenges and Solutions for Large Load Integration in Bulk Power Systems	2026TD-000177	Eric Meier and Sagnik Basumallik
2046	Red	Power System Operation, Planning & Economics	A Novel Walrus Optimization Algorithm For Mitigating Transmission Line Congestion In Power System Framework	2026TD-000192	Abhishek Kumar, Niranjan Kumar and Kaushik Paul
2047	Red	Power System Operation, Planning & Economics	A Distance-Based Spatial&ndash;Temporal Simulator for Renewable Energy Forecasting Under Extreme Weather	2026TD-000208	Yiyang Zhang, Fengyu Wang, Di Shi and Chao Fan

2048	Red	Power System Operation, Planning & Economics	A Practical Approach to Address Evolving Electrical Grid Challenges: MISO's Long Range Transmission Planning Process	2026TD-000233	Iknoor Singh
2049	Red	Power System Operation, Planning & Economics	A Hybrid CNN-LSTM Short-Term ISO-Level Load Forecasting Model Considering Extreme Weather	2026TD-000235	Wenjia Xia, Lei Chen, Adrian Strickler Gibson, Ted Brekken, Yue Cao and Xiangqi Zhu
2050	Red	Power System Operation, Planning & Economics	Control Room Implementation of Oscillation Detection, Location, and Screening Applications at California ISO/RC West	2026TD-000244	Cheng Qian
2051	Red	Power System Operation, Planning & Economics	Estimating Flexibility Envelopes for Residential Customers From Utility Smart Meter Data	2026TD-000258	Jiyu Wang, Fei Ding, Xiangqi Zhu, Keyang Xuan and Yiyun Yao
2052	Red	Power System Operation, Planning & Economics	Advanced Conductors: Total Owning Cost	2026TD-000266	Daniel Berkowitz
2053	Red	Power System Operation, Planning & Economics	Active-Learning PCA&ndash;Gaussian Process Model for Efficient Probabilistic Power Flow on Real Distribution Networks	2026TD-000268	Ravi Shrestha, Cameron Matyjasik, Lusha Wang, Zhi Zhou and Yan Zhou
2054	Red	Power System Operation, Planning & Economics	Software in the Loop Simulation for Evaluating Distribution Grid Performance Under Advanced Optimal Control Strategies	2026TD-000326	Arun Kumar Karngala, Soumyabrata Talukder, Haosen Guo and Dongbo Zhao
2055	Red	Power System Operation, Planning & Economics	Hierarchical Energy Management for Renewable and Battery-Integrated Microgrids to enhance Reliability and Cost Efficiency	2026TD-000343	Mohammed Elsayed, Ala Al-Shargabi, Khairy Sayed and Ahmed Mohamed
2056	Red	Power System Operation, Planning & Economics	Network-Constrained Unit Commitment with Flexible Temporal Resolution	2026TD-000348	Zekuan Yu, Haiwang Zhong, Guangchun Ruan and Xinfei Yan

2057	Red	Power System Operation, Planning & Economics	Real-world Data-Driven Upgrade Cost Prediction for Distribution Grids with Smart EV Charging	2026TD-000365	Ravi Shrestha, Lusha Wang, Zhi Zhou, Keren Li and Yan Zhou
2058	Red	Power System Operation, Planning & Economics	Energy-Based Modeling of Water Withdrawals in the Snake River Basin Using Refined K-Factors and Power-Consumption Coefficients	2026TD-000378	Sai Teja Kothapalli, Brian Johnson and Yacine Chakhchoukh
2059	Red	Power System Operation, Planning & Economics	Systematic Approach for Timestep Optimization in EMT Simulations of Modern Power Systems	2026TD-000415	Ghansham Meghwar and Lina He
2060	Red	Power System Operation, Planning & Economics	Deconfliction of Distribution System Applications With Robustness to Malicious Strategies	2026TD-000420	Tylor Slay, Nathan Gray, Joshua Yip, Monish Mukherjee and Andrew Reiman
2061	Red	Power System Operation, Planning & Economics	Climate Policy Stringency and Electricity Retail Prices: A Utility-Level Analysis in California	2026TD-000427	Nicole Fronda, Spencer Arnold and Xiangqi Zhu
2062	Red	Power System Operation, Planning & Economics	The Effects of Interruptible Loads on Reliability Metrics	2026TD-000437	Matthew Egan and Mohammed Ben-Idris
2063	Red	Power System Operation, Planning & Economics	Network Performance Monitoring for Phasor Measurement Unit based Wide Area Monitoring	2026TD-000438	Aaron St. Leger and Nicholas Barry
2064	Red	Power System Operation, Planning & Economics	Hybrid Learning for Grid-Edge Load Forecasting and Anomaly Detection	2026TD-000448	Mahmoud Fakhry, Abiodun Oseni, Nicole Fronda, Eduardo Cotilla-Sanchez, Ted Brekken, Xiangqi Zhu and Abiodun Oseni
2065	Red	Power System Operation, Planning & Economics	Accelerated Distributed Optimization for Voltage Control in Power Distribution Systems	2026TD-000455	Niloy Patari and Anurag Srivastava

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3001	Blue	Energy Storage & Stationary Battery Poster Session	Community Solar -vs- Nano-Grid (Ownership or Lease): 10 Years Electricity Costs Savings Analysis For Hawaii Low Income Families	2026TD-000176	John Borland
3002	Blue	Energy Storage & Stationary Battery Poster Session	Adaptive Energy Storage Coordination for Grid Resilience during Heatwave	2026TD-000419	Chandan Chaudhary, Alaaeldin Abdelkader, Yansong Pei, Mohammed Benidris and Joydeep Mitra
3003	Blue	Insulated Conductors	Inferring the Influence of Insulating Material Property Variation with Electrothermal Aging on HVDC Insulation System Reliability	2026TD-000010	Gian Carlo Montanari and Sukesh Babu Myneni
3004	Blue	Insulated Conductors	Reduction of Concentric Neutral Voltage Surges in Submarine Cables	2026TD-000272	Eduardo Enrique and Kyeongdong Jin
3005	Blue	Insulated Conductors	Underground Transmission Pipe-Type Cable Pressurization Plant Design Considerations	2026TD-000392	Earle C. (Rusty) Bascom III and Tiebin Zhao
3006	Blue	Power Systems Communications & Cyber Security	Deploying a Centralized Management System for Enhanced Electrical Distribution Grid Security	2026TD-000053	Karen Restrepo, Gerald Marvin Moran Garcia and Carlos Roberto Romero Miranda
3007	Blue	Power Systems Communications & Cyber Security	Explainable AI for Transparent ML-driven Cyber-Physical Security in the Power Grid	2026TD-000089	Georgios Fragkos, Timotius Oentung, Sidney Wright and Nitin Sharan
3008	Blue	Power Systems Communications & Cyber Security	Coordinated Attack on the Charging-Discharging Cycle of Batteries in the Grid	2026TD-000197	Sharad Shrestha, Zeinab Khanjarinezhadjooneghani and Satyajayant Misra
3009	Blue	Power Systems Communications & Cyber Security	Towards Flexible and Autonomous Cyber-physical Ecosystems for Trusted Security in Critical Infrastructure Systems	2026TD-000202	Shamina Hossain-McKenzie and Georgios Fragkos
3010	Blue	Power Systems Communications & Cyber Security	Detection of False Data Injection Attack in State Estimation using Low-Rank Optimization and its Limitations with the ISO-NE Case Study	2026TD-000242	Sagnik Basumallik and Mingguo Hong
3011	Blue	Power Systems Communications & Cyber Security	Distributed Configuration Management and Resilient Incident Response for Critical Power Systems	2026TD-000315	Soumyabrata Talukder, Jinan Zhang, Daniel Sanchez, Nitasha Sahani, Xue Gao, Dmitry Ishchenko, Xiaoyuan Fan, Edward Buck and Nathan Peterson
3012	Blue	Power Systems Communications & Cyber Security	Latency-Aware Deep Learning Benchmark for Real-Time Cyber-Physical Attack and Fault Classification in Inverter-Dominated Power Grids	2026TD-000393	Emad Abukhousa, Saman Zonouz and A.P. Sakis Meliopoulos
3013	Blue	Power Systems Communications & Cyber Security	Dynamic State Estimation-Based Protection of Transmission Line Shunt Reactors Against Cyber Attacks	2026TD-000447	Abdulaziz Qwbaiban, Syed Sohail Feroz Syed Afroz, Fahad Alsaeed, Emad Abukhousa, Saman Zonouz, A.P. Sakis Meliopoulos and Ramadan Elmoudi
3014	Blue	Power Systems Relaying & Control	Neutral Point Treatment and Residual Current Compensation for Wildfire Mitigation in Medium-Voltage Networks	2026TD-000043	Abdulnaser Alhafari, Andreas Aichhorn and Matthias Robeischl
3015	Blue	Power Systems Relaying & Control	Impact of a Grid-Forming Inverter with Stabilizer on the Dual-Quadrilateral Power Swing Blocking	2026TD-000085	Christopher Peralta and Hugo Villegas Pico
3016	Blue	Power Systems Relaying & Control	A Fast and Setting-Less Breaker Failure Backup Protection Scheme for Multi-Terminal HVDC Grids	2026TD-000120	Mohamed Radwan and Sahar Pirooz Azad
3017	Blue	Power Systems Relaying & Control	Analysis of DER Interconnection Screening Criteria in Low-Voltage Spot Networks	2026TD-000194	Jubair Yusuf, Joseph A. Azzolini and Matthew J. Reno
3018	Blue	Power Systems Relaying & Control	Implementation of Custom Automatic Tap Control Logic for Phase-Shifting Transformers Using Conventional IEDs	2026TD-000249	Rodrigo Pacheco and Renato Loreto
3019	Blue	Power Systems Relaying & Control	A Novel High-Impedance Fault Detection Technique using Dynamic Mode Decomposition and Shapelets	2026TD-000255	Oscar Acosta, Miguel Jimenez, Javier Hernandez and Matthew Reno
3020	Blue	Power Systems Relaying & Control	Adjustment of parameters in relays that implement Current-Based Discrimination Logic Between Phase&dash;Earth and Phase&dash;Phase Faults	2026TD-000291	Sara Echeverri, Cristell Capera, Santiago López and José Jaramillo
3021	Blue	Power Systems Relaying & Control	FLISR &dash; When Communications Fail &dash; A Dynamic Approach to Grid Resiliency and Improved Reliability	2026TD-000328	Mathew Garver, Milan Patel and Keith Scott
3022	Blue	Power Systems Relaying & Control	The Key Role of FACTS Control in Enabling Integration of Large Data Centers	2026TD-000362	Marija Ilic

3023	Blue	Power Systems Relaying & Control	<b>Upskilling the Protection Workforce with Functional Digital Twins: From Concept to Training Practice</b>	2026TD-000431	Dhanabal Mani, Andrea Bonetti, Andreas Carlsson, Niclas Wetterstrand and Thomas Eliasson
3024	Blue	Power Systems Relaying & Control	A Systematic Framework for Tuning Open-Source Multifunctional IBR Models to Emulate OEM Black-Box Fault Dynamics	2026TD-000442	Soham Chakraborty, Paulo Henrique Pinheiro, Romulo Goncalves Bainy, Brian K. Johnson, Scott Manson, Jing Wang, Andy Hoke and Cameron J. Kruse
3025	Blue	Power Systems Relaying & Control	A PSCAD Library Component Featuring a Reduced-Order IBR Model for EMT-Based Fault Studies	2026TD-000453	Owen Cormmesser, Rasel Mahmud, Soham Chakraborty, Jing Wang, Andy Hoke, Paulo Henrique Pinheiro, Brian K. Johnson and Romulo Goncalves Bainy
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3028	Blue	Switchgear	<b>Effective Sulphur Hexafluoride Cycle Management: Climate Protection, Reliability And Cost Reduction Hand In Hand</b>	2026TD-000076	Ulrich Ammer and Chritoph Zielgschmid
3029	Blue	Switchgear	Study on Blast Flow after Current Zero in C F N/CO Gas Mixtures Circuit Breaker under Large Current Interruption Condition	2026TD-000254	Wei Gu, Yang Li, Xiaonan Wang, Wenlei Sang, Bo Zhang, Xin LIN and Zhenxin GENG
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3031	Blue	Switchgear	800 kV Dead Tank Circuit Breaker Free of SF<sub>6</sub> Gas	2026TD-000464	Michael Lane, Carl Kurinko, Tim Schulze-Koenig, Chen-chen Yang, Robert Voss, Sami Kotilainen and Markus Bujotzek
3032	Blue	Transformers	Dielectric Dissipation Factor (Tan delta) of liquids: how to avoid incorrect measurements	2026TD-000052	Fabio Scatiggio and Giorgio Campi
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3034	Blue	Transformers	Continuous Thermal Monitoring for Transformer Radiator Diagnostics: A Case Study at Ozarks Electric Cooperative <br clear="all">	2026TD-000099	Edgar Sotter and Daren Spurlock
3035	Blue	Transformers	Parameters Impacting magnitude of GIC in Power Transformers	2026TD-000104	Ramsis Girgis and Mats Bernesjo
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3040	Blue	Transmission and Distribution	An AC Contingency Reliability Based Method for Energy Storage Sizing and Placement	2026TD-000113	Alexandre Nassif, Kishan Guddanti, M Al Mamun, Alok Kumar Bharati, Patrick Maloney, Marcelo Elizondo, Estefania Alfaro Mejia, Daniel Haughton, Oscar Garzon Rivera and Taisha Rosa Ramirez
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3048	Blue	Transmission and Distribution	Real-time Load Current Monitoring of Overhead Lines Using GMR Sensors	2026TD-000170	Md Mahfuzur Rahman Chy, Md Rifat Al Amin Khan, Md Sultan Mahamud, Anwarul Islam Sifat and Fiona J. Stevens McFadden
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3050	Blue	Transmission and Distribution	Latest in 765 kV Transmission Line Electrical Design	2026TD-000190	Rob Schaerer and Makena Leonard
3051	Blue	Transmission and Distribution	Responsible Adoption of Artificial Intelligence (AI) in Electric Grid Operations	2026TD-000275	Remy Stolworthy, Emma Stewart and Megan Culler
3052	Blue	Transmission and Distribution	Dynamic Line Rating for Offshore Wind Submarine Cables: Case Studies in Selected U.S. Locations	2026TD-000292	Mucun Sun, Alexander W. Abboud, Shafiu S M Alam and Jake P. Gentle
3053	Blue	Transmission and Distribution	Accurate Representation of Distribution System Dynamics with DERs for Bulk System Studies	2026TD-000334	Kiran Kumar Challa, Amar Sagar Reddy Ramapuram Matavalam and Venkataramana Ajjrapu
3054	Blue	Transmission and Distribution	Next-Generation Grid Resilience: Unlocking <b><b>Black Start Potential through Virtual Power </b></b>Plants and Vehicle-to-Grid	2026TD-000353	Elihu C.Y Nyemah, Ahmed A. Mohamed and MOHAMED K. KAMALUDEEN
3055	Blue	Transmission and Distribution	Achieving Organizational Resilience through Human and Organizational Performance	2026TD-000384	Paul Huryz, Asher Balkin, Ashley Tolton, David Kerk and Conner Cox
3056	Blue	Transmission and Distribution	Operational Risks from Wholesale DER Participation amid Regulatory Shifts	2026TD-000410	Joshua Yip, Shiva Poudel, Alexandre Nassif and Jaime Kolln
3057	Blue	Transmission and Distribution	Towards Planning and Procurement of Grid Services from Customer Assets for Enhanced Resilience	2026TD-000443	Akshay Kumar Jain, Manisha Maharjan, Monish Mukherjee, Min Gyung Yu, Shiva Poudel and Trevor Hardy

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4002	Yellow Section	Grid & Emerging Technologies Coordinating Committee	Data-Driven Modeling of Sub-Cycle Dynamics of Inverter-based Resources Using Real-World Synchro-Waveform Measurements	2026TD-000125	Hossein Mohsenzadeh Yazdi, Fatemeh Ahmadi-Gorjaji and Hamed Mohsenian-Rad
4003	Yellow Section	Grid & Emerging Technologies Coordinating Committee	Directed Graph Signal Processing Approach for Analyzing Interdependence of Electric Power and Natural Gas Systems	2026TD-000160	Mihir Malladi, Daniel Lau and Yuan Liao
4004	Yellow Section	Grid & Emerging Technologies Coordinating Committee	IBR Responses During a Real-World System-Wide Disturbance: Synchro-Waveform Data Analysis, Pattern Classification, and Engineering Implications	2026TD-000199	Hossein Mohsenzadeh Yazdi, Hamed Mohsenian-Rad and Chester Li
4005	Yellow Section	Grid & Emerging Technologies Coordinating Committee	Evaluation of Distribution System Operator (DSO) Models for Enabling DER Grid Services	2026TD-000236	Abrez Mondal, Ahmed Saad, Ibrahim Krad, Nikita Singhal and A H M Jakaria
4006	Yellow Section	Grid & Emerging Technologies Coordinating Committee	Evaluating the Risk to Bulk Power System Reliability from Large Load Induced Oscillations	2026TD-000250	Shuchismita Biswas, Antos Varghese, Kaustav Chatterjee, Sameer Nekkallapu, Brett Ross and Jim Follum
4007	Yellow Section	Grid & Emerging Technologies Coordinating Committee	Post-Fault Impacts of the IEEE 2800 Standard's LVRT Requirements: Frequency Response	2026TD-000263	Ali Azizi, Reza Salehi, Sam Maleki and Hasan Bayat
4008	Yellow Section	Grid & Emerging Technologies Coordinating Committee	Networking Customer-Owned Assets to Enhance Distribution System Resilience	2026TD-000294	Min Gyung Yu, Monish Mukherjee and Manisha Maharjan
4009	Yellow Section	Grid & Emerging Technologies Coordinating Committee	Managing Risks from Large Digital Loads Using Coordinated Grid-Forming Storage Network	2026TD-000298	Soumya Kundu, Kaustav Chatterjee, Ramij Raja Hossain, Sai Pushpak Nandanoori and Veronica Adetola
4010	Yellow Section	Grid & Emerging Technologies Coordinating Committee	Microgrid Controller Implementation Considering DER and Protection	2026TD-000382	Michael Starke, Namon Kim, Maximiliano Ferrari, Benjamin Dean and Madhu Chinthavali
4011	Yellow Section	Grid & Emerging Technologies Coordinating Committee	Supercapacitor Assisted Power Conditioning System to Enhance Ride-through Functionality of Datacenter Loads	2026TD-000450	Sang Won Seo, Sanjeev Pannala, Bidur Poudel and Rob Hovsapien
4012	Yellow Section	Grid & Emerging Technologies Coordinating Committee	Demonstrating the Need for Adaptive Droop Control for Grid-Forming Inverters in Islanded and Grid-Connected Modes	2026TD-000454	Jing Wang, Subhankar Ganguly, Abu Hasan, Soham Chakraborty and Benjamin Kroposki