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B5 Protection and automation	10472	Data Sources for AI Applications in IEC 61850 Based Digital Substations	Apostolov, Alexander	OMICRON electronics	United States of America
B5 Protection and automation	10494	Application of Redundancy Techniques for Resilient Digital IEC 61850 Protection and Automation Systems	Boukadi, Atef	GE Vernova	Canada
B5 Protection and automation	10513	Wildfire Protection Challenges and Mitigation on Distribution Feeders: Practices and Experiences	Ng, Mathias	Danovo Energy Solutions	Canada
B5 Protection and automation	10530	Protection System Resilience Assessment using Automated Wide-Area Protection Stress Testing	Webster, Gary	Danovo Energy Solutions	Canada
B5 Protection and automation	10556	Upgrading High-impedance Bus Differential Protection	Ransom, Daniel	GE Vernova	United States of America
B5 Protection and automation	10565	Low Power Instrument Transformers for Advanced Power Quality Metering Applications	Baig, Mirza Danish	ABB Inc.	Canada
B5 Protection and automation	10584	Applications of digital twins in overcurrent protection systems in electrical networks in response to the integration of distributed energy resources.	Londoño Vilegas, Mario Andres	Universidad del Valle	Colombia
B5 Protection and automation	10596	Automating multi-vendor Substation Data Collection: standardised COMTRADE and SOE Retrieval at national Scale	Hamdon, Ameen	SUBNET Solutions Inc.	Canada
B5 Protection and automation	10598	Travelling-Waves fault detection and location estimation using conventional protection-class CTs	Vijayan, Vibin	Altalink	Canada
C1 Power system development and economics	10171	Strategic Transmission Network Investments for Renewable Energy and Demand Uncertainty in Sarawak	Goh, Wei Chiun	Sarawak Energy Berhad	Malaysia
C1 Power system development and economics	10176	Coordinated Shunt Reactor Planning for Light-Load Overvoltage Mitigation in the Northern Thailand Transmission System Using Sensitivity-Based and Multi-Location Optimization	Saengsukon, Bhuwadon	EGAT	Thailand
C1 Power system development and economics	10208	Modernizing Voltage Security Planning for HighGrowth Systems: An Automated Risk-Based Assessment Framework	Chutiampaiwong, Prem	EGAT	Thailand
C1 Power system development and economics	10250	Variable Renewable Energy Siting for Transmission System Planning: A Case Study of Thailand's draft Power Development Plan (PDP) 2024	Chanpum, Thanispong	Electricity Generating Authority of Thailand (EGAT)	Thailand

C1 Power system development and economics	10281	Impact of Generator Operating Constraints on Resource Adequacy and Resource Accreditation	Ihle mann, Maren	EPRI International	Canada
C1 Power system development and economics	10287	A hierarchical optimization framework for resilience-oriented transmission planning under extreme weather events	Ghawash, Faiq	Hitachi Energy Research	Germany
C1 Power system development and economics	10297	Flexibility Oriented Power System Development under Energy Transition – the Case of Thailand	Kunasirin, Thamolwan	Electricity Authority of Thailand (EGAT)	Thailand
C1 Power system development and economics	10362	Large Loads in Modern Power Systems: Fundamentals, Modelling Practices, and International Experience	Vera, Gabriel	PSC Consulting	Canada
C1 Power system development and economics	10364	Economics of HVDC refurbishment: A commercial perspective on asset life extension in India	Jacob Joseph, Vipin	Power Grid Corporation of India Limited	India
C1 Power system development and economics	10445	Impacts of Large Computing Loads on Power System Resource Adequacy	Huang, Dange	Manitoba Hydro	Canada
C1 Power system development and economics	10459	Risk-Efficient Capacity Mechanisms for Battery and Pumped-Storage Assets	Victor, Francisco	Energy Research Office - EPE	Brazil
C1 Power system development and economics	10502	Integration of Large Loads to the Ontario Power System	Shamseldeen, Mohamed	IESO	Canada
C1 Power system development and economics	10512	Accelerating BESS Siting and Sizing for Transmission Grid Support Through Geospatial Optimization	Grassi, Stefano	Gilytics	Switzerland
C1 Power system development and economics	10535	An AI-Assisted Scalable Optimization Toolbox for the Optimal Deployment of Grid-Enhancing Technologies	El-Hamalawy, Abdallah	York University	Canada
C1 Power system development and economics	10570	Standardised Contractual Frameworks for Large Scale BESS Deployment	Mittal, Himanshu	POWER GRID CORPORATION OF INDIA LIMITED	India
C2 Power system operation and control	10140	Comparing Application of GFM STATCOM and GFM Battery to support transient Voltage Stability	Lederman, Lenna	Electric Power Research Institute (EPRI)	United States of America
C2 Power system operation and control	10156	Adapting Voltage Stability Assessment for Modern Power Systems with High Renewable and BESS Penetration: A Thailand–Lao Interconnection Case Study	CHAROENPHAN, BUNDID	Electricity Generating Authority of Thailand (EGAT)	Thailand
C2 Power system operation and control	10180	Enhancing Blackout Restoration Capability through Simulation-Based Operational Evaluation Exercises: A Case Study from Northeastern Thailand	NARINNORK, CHUTCHAYA	Electricity Generating Authority of Thailand (EGAT)	Thailand
C2 Power system operation and control	10181	Field-Based Evaluation of BESS Frequency and Voltage Response in Thailand: Lessons Learned from Pilot Testing	Thiravirojana, Rawit	Electricity Generating Authority of Thailand	Thailand
C2 Power system operation and control	10182	Closed-Loop Voltage and Reactive Power Control in Transmission Systems with Support from Active Distribution Systems	Schwenke, Manuel	Technical University of Darmstadt	Germany
C2 Power system operation and control	10185	Operational Impacts of Reactive Power Reserve Management on Voltage Stability in Manitoba's Transmission System	Zhu, Lana	Manitoba Hydro	Canada
C2 Power system operation and control	10186	A Novel Coordinated Control Strategy of Grid-scale BESSs to expand the Capacity of Transmission Grids	Mansouri, HamidReza	NirouTrans Co.	Iran, Islamic Republic of
C2 Power system operation and control	10190	Enhancing Grid Operation through Automated Reactive Power Optimization: OPENVQ with Voltage Profile	Wongcharee, Boonyarit	Electricity Generating Authority of Thailand (EGAT)	Thailand
C2 Power system operation and control	10194	Operational Experience of Integrating Breaker Rating Monitoring into Day-Ahead and Real-Time Operations	Zhu, Lana	Manitoba Hydro	Canada
C2 Power system operation and control	10196	Determining relative fault severity for real time transient stability analysis	Aderinto, Obasemilogo Victor	Manitoba Hydro	Canada
C2 Power system operation and control	10223	Operational Coordination between Transmission Rapid Load Shedding and Distribution ATS to Preserve Voltage Stability under N-2 Conditions	Kaweewat, Chaowalit	Electricity Generating Authority of Thailand	Thailand
C2 Power system operation and control	10230	Fault Current Level Optimization of Tata Power	Chandrakar, Akhilesh	Tata Power	India
C2 Power system operation and control	10236	Robust Reactive Power Control at the TSO-DSO Interface Using Data-Driven Sensitivity Estimation	Ruppert, Johannes Kai	Technical University of Darmstadt	Germany

C2 Power system operation and control	10237	Real-time System Inertia estimation from Ambient PMU data using Advanced System Identification Technique	NARENDRA, Krish	Electric Power Group LLC	Canada
C2 Power system operation and control	10238	Real-Time System Strength Estimation Using Ambient PMU Data, Real-Time Thevenin Equivalents and Feeder-Wise Short-Circuit Contribution Analysis	NARENDRA, Krish	Electric Power Group LLC	Canada
C2 Power system operation and control	10294	Proposed Operational and Compensation Framework for Electricity Curtailment of Renewable Power Producers under Bilateral Power Purchase Agreements in Thailand	Piromjit, Pittayut	Electricity Generating Authority of Thailand	Thailand
C2 Power system operation and control	10312	Optimal Coordination of Quadrature Boosters to Maximise the Power Transfer Capacity of Transmission Boundaries	Nassaj, Amin	University of Manchester	United Kingdom
C2 Power system operation and control	10313	Online tracking of static voltage stability limits in large-scale power systems using a physics-guided reinforcement learning framework	Wu, Yijiang	Zhejiang University	China, People's Republic of
C2 Power system operation and control	10318	A Physics-Informed Neural Kalman Filter for Dynamic State Estimation	Zhang, Liangyu	Zhejiang University	China, People's Republic of
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C2 Power system operation and control	10344	An Advanced Real-Time Monitoring and Control Support Platform for Improved Generator Performance and Grid Stability	Sultan Ahmed, Fahad	ABB Switzerland Ltd	Switzerland
C2 Power system operation and control	10354	Decision-Support Algorithms for Year-ahead Outage Planning Optimisation	Hanot, Maxime	N-SIDE	Belgium
C2 Power system operation and control	10355	Evaluation of dynamic line Rating as innovative grid Technology to increase the operational flexibility by a DSO	KAPTUE KAMGA, ALAIN	SEI Automotive Europe GmbH, Sumitomo Electric Group	Germany
C2 Power system operation and control	10365	Empowering Control Centers: a data-driven Framework integrating Anomaly Detection and optimized exponential Smoothing for Scada Enhancement and Load Forecasting	Taksana, Radomboon	Electricity Generating Authority of Thailand	Thailand
C2 Power system operation and control	10370	Analog Ensemble Framework for Month-Ahead Solar Power Forecasting in Thailand	Odthanu, Chonnathat	Electricity Generating Authority of Thailand	Thailand
C2 Power system operation and control	10381	Grid Impact Assessment based on Probabilistic Large-load Forecasting using Open Source Platforms OpenSTEF and PowSyBl	Chawda, Darshan	Hitachi, Ltd.	Japan
C2 Power system operation and control	10442	Hybrid Storage Control Strategies for Large-Scale Renewable-to-Ammonia Systems	Backer, Martijn	Elia Group	Belgium
C2 Power system operation and control	10464	Challenges of low inertia isolated grid operation of Yukon Integrated System with Inverter-Based Resources	AC, Mahendra	ATCO Electric	Canada
C2 Power system operation and control	10533	Grid Challenges and Opportunities in the Era of Large Scale Data Centres	Abdelsamie, Ahmad	University of Toronto	Canada
C2 Power system operation and control	10542	Field Experience with a Grid-Wide Network of Synchronized High-Resolution Optical Waveform Recorders to Enhance Grid Operations and Resiliency	Rahmatian, Farnoosh	NuGrid Power Corp	Canada
C2 Power system operation and control	10552	Enhancing power system scenario analysis and operations planning using multi-agent Large Language Models	Aderinto, Obasemilogo Victor	Manitoba Hydro	Canada
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C3 Power system sustainability and environmental performance	10159	Decarbonization Pathways and Technical Readiness for Hydrogen Cofiring in GE 9HA.02 Gas Turbines in Thailand.	Chalaeypoj, Natthawat	Electricity Generating Authority of Thailand	Thailand
C3 Power system sustainability and environmental performance	10264	Temperature-Driven Electricity Demand in Ghana	Kusi, Gilbert Kwarteng	Volta River Authority	Ghana

C3 Power system sustainability and environmental performance	10285	Valuing the residual Life of PV Modules: an econometric Approach to foster circular Economy in emerging solar Markets	Wongraksa, Apantree	Electricity Generating Authority of Thailand	Thailand
C3 Power system sustainability and environmental performance	10345	Characterizing Extreme Heat Event Risks for Alberta's Thermal Power Plants Using Public Data	Gao, Sherry	University of Calgary	Canada
C3 Power system sustainability and environmental performance	10589	Electricity Affordability and Social Sustainability in Canada's Power Systems	Wilson, Sarah	Veolia WTS	Canada
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C4 Power system technical performance	10125	Fully Electronic Tap-Changing Transformers for Individual Data Centers up to 10 MW, A New Paradigm for Voltage Regulation and NERC-Compliant Load Integration	Babaei, Abolfazl	RMS energy	Canada
C4 Power system technical performance	10157	Accelerating Large-Scale Power System Studies Through Optimization-Driven Voltage Profiling	Ahmadzadeh, Masoud	Alberta Electric System Operator (AESO)	Canada
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C4 Power system technical performance	10232	Ensuring Accurate Billing Through HAER Core Innovation	Medeiros, Thayane	ARTECHE	Brazil
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C4 Power system technical performance	10251	Enhancing Operational Efficiency and Maintenance Performance of Rooftop Photovoltaic Systems through Industrial Engineering-Based Optimisation	TANUPHOL, PATCHARIN	Electricity Generating Authority of Thailand	Thailand
C4 Power system technical performance	10277	Asymmetric Fault Response of Grid-Following IBRs in Integrated Transmission-Distribution Systems: Comparative Evaluation Under IEEE 1547 and IEEE 2800	Vivas, Jose	OPAL-RT technologies	Canada
C4 Power system technical performance	10280	Transmission Hosting Capacity for Datacenters with Co Located Generation	Ohaeri, Josephine	Dominion Energy	United States of America
C4 Power system technical performance	10283	An Analytical Approach for Grid-Forming Device Capacity Sizing to Ensure MRSCR Compliance	Yang, Huiyuan	Sieyuan Electric Co.,Ltd	China, People's Republic of
C4 Power system technical performance	10299	Assessment of Frequency Stability Using Center-of-Inertia Metrics and Optimal Grid-Scale BESS Deployment in High-IBR System	Ket-urai, Varaporn	Electricity Generating Authority of Thailand (EGAT)	Thailand
C4 Power system technical performance	10331	Detailed review and analysis of harmonics impact on temporary overvoltage phenomena on offshore wind farm operations in power systems	Koo, Kah Leong	PSC UK Ltd	United Kingdom
C4 Power system technical performance	10332	Detailed review and analysis of Sub-Synchronous Oscillation phenomena encountered in Offshore Wind Farm operations in power systems	Koo, Kah Leong	PSC UK Ltd	United Kingdom
C4 Power system technical performance	10338	Transient Overvoltages and Protection Coordination in LV Networks with EV Chargers, Data Centers and BESS	Vaseghi, Babak	Create Power Solutions	Canada
C4 Power system technical performance	10342	Beyond Misoperation Rate Improving Protection System Performance and Risk Metrics	Kasmarzik, Brian	Danovo Energy Solutions	United States of America
C4 Power system technical performance	10361	Load Forecast for Dawson City Distribution System Upgrades	Xu, Sheng	ATCO Electric	Canada
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C4 Power system technical performance	10441	Implementation of a TRV High-Voltage Circuit Breaker Model Using MODELS for ATP A Comprehensive Analysis	Melendez Campis, Camilo Andres	IM3	Colombia
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C4 Power system technical performance	10468	Applications of Synchronous Condensers for Inertia and Voltage Support of Power Systems with Significant Renewable Generation Connections	Rifaat, Rasheek	Rifaat Engineering Inc	Canada
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C4 Power system technical performance	10545	A Comparative Assessment of Voltage Ride Through Testing Profile Definition in PRC-029-1 for Inverter Based Resources	Kaffashan, Iman	PSC Consulting	Canada
C4 Power system technical performance	10558	State-Space Modeling of Long Transmission Lines Using the Cayley–Hamilton Theorem for Technical Performance Assessment.	Ceron Sandoval, Ernesto Javier	Hitachi Energy	Sweden
C4 Power system technical performance	10573	Comprehensive Large Load Modeling for Power System Studies and Reliable Operation	Vandaei, Ash	IESO	Canada
C4 Power system technical performance	10594	A Laboratory-Based Workflow for Dynamic Fault Validation and Grid-Code Compliance of Inverter-Based Resources	Teimourzadeh, Hamid	Danovo Energy Solutions	Canada
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C5 Electricity markets and regulation	10290	AI-Driven Load Disaggregation for Smart Meter Consumers	Shetty, Vineeth	Tata Power Co. Ltd	India
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C5 Electricity markets and regulation	10444	Electric Vehicle Flexibility In Energy Markets And Reliable Grid Operations	moeini, ali	Hydro-Quebec	Canada
C5 Electricity markets and regulation	10452	International Trends for Connecting Large Load to Transmission Grid in Interconnection Practice and Regulatory Consideration, Case for Elia Group	Zindovic, Bojana	Elia Grid International	Germany

C5 Electricity markets and regulation	10481	Designing Market and Regulatory Structures for Large-Scale Battery Storage in Renewable-Dominant Power Systems	Duarte Barbosa, Barbara	ABEEólica – Brazilian Association of Wind Energy and New Technologies Brazil	Brazil
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C6 Active distribution systems and distributed energy resources	10298	Sensitivity-Driven Flexibility Provision in Active Distribution Networks with TSO–DSO Coordination	Anvari-Moghaddam, Amjad	Aalborg University	Denmark
C6 Active distribution systems and distributed energy resources	10314	Research on Economic Dispatch of Integrated Electricity-Heat-Gas System Based on High-Precision Power Prediction	Wang, Xiaoxue	Wuhan University	China, People's Republic of
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C6 Active distribution systems and distributed energy resources	10451	Overcoming power exclusion in the Brazilian Amazon by deploying cost-efficient, stand-alone 700 W solar generation units for individual households	Sanchez Castan, Daniel	im3 group	United States of America
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C6 Active distribution systems and distributed energy resources	10461	Case Study of a Resilient Hospital-Grade Microgrid Control System	Phillips, Kelli	Schweitzer Engineering Laboratories, Inc.	United States of America
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D1 Materials and emerging test techniques	10284	A Field-Based Condition Monitoring Approach for Enhancing the Reliability of Condenser Bushings	SINGKHAWAT, PONGPON	Electricity Generating Authority of Thailand	Thailand
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D2 Information systems telecommunications and cybersecurity	10592	Toward Secure, Scalable IED Management in Canadian Power Systems	Hamdon, Ameen	SUBNET Solutions Inc.	Canada
D2 Information systems telecommunications and cybersecurity	10601	Cybersecurity Monitoring in Power Substation Automation Systems	Sarkar, Sajal	Power Grid Corporation of India Ltd	India
D2 Information systems telecommunications and cybersecurity	10602	Cybersecurity of Time Synchronization in Power Grids	Sarkar, Sajal	Power Grid Corporation of India Ltd	India
D2 Information systems telecommunications and cybersecurity	10603	Cybersecurity for Wi-Fi in Power Substations	Sarkar, Sajal	Power Grid Corporation of India Ltd	India
D2 Information systems telecommunications and cybersecurity	10604	Secure Transfer of Information in OT Networks using Data-Diode	Sarkar, Sajal	Power Grid Corporation of India Ltd	India