

Study Committee C2 Poster Session 1 (14:00-16:00)

Poster Locations

PS1

Advanced decision support, training and skills for control room personnel

ID	Title	Station
10129	Constraints for congestion-based Transmission Topology Optimization	5
10298	Enhancing Congestion Forecast for TSOs: a Probabilistic Approach	6
10718	Advanced Decision Support for Grid Operators Using High-Resolution Optical Sensing and Wide-Area Synchronized Measurements in Puerto Rico	8
10923	Integrated Framework for Advanced Voltage Management in High Renewable Penetration Systems: From Reactive Power Coordination to Look-Ahead Optimization	9
10955	Utilization of Artificial Intelligence for Voltage and Reactive Power Control and Its Operational Results	10
11248	Performance Management Strategies for Power System Operation: the Application of Overall Equipment Effectiveness (OEE) to the Operation of the Italian Transmission System	13
11320	A Multi-Criteria Method for Continuous PMU Data Quality Evaluation	14
11332	System Operator Training using Simulators in Steady-State and Transient Regimes	15
11347	The Reality of Power System Operation in the Era Where Weather Becomes Fuel : The Fierce Battle of PV Curtailment in Korea's Spring of 2025	16
11419	Development of Electricity Demand Forecasting System in Korea Considering the Volatility of Photovoltaic Power Generation	19
11665	Strategic operational management of GB National Energy Transmission System during extreme events: Storm Éowyn	20
11741	SIPS – the Unknown Superheroes of the Power System	21
12108	Towards Automated Fault Diagnosis in Power Transmission Lines Using AI: From Data to Real-Time Decision	22
12301	Risk-based probabilistic System Security Assessment: Swissgrid's Approach from Operational Planning to real-time System Operation	23
12310	OPTESO: An innovative Approach for Optimality with limited Exchange between Transmission and Distribution System Operators	24
12353	Operational Security Challenges in the Western Balkans: Lessons Learned from the 2023 and 2024 Regional Grid Incidents	25

Study Committee C2 Poster Session 1 (14:00-16:00)**Poster Locations****PS1****Advanced decision support, training and skills for control room personnel**

ID	Title	Station
12459	Advanced decision support for operation of converter-dominated grids with low inertia utilizing a modular development and testing framework	26
12535	Bridging Behind-the-Meter Data Gap: A Nodal Approach to Estimate Embedded Solar Generation in Real-Time	27
12538	ALLarMa - Large Language Model Based Application for Operational Data, Alarms, and Network Analysis	29
12550	Impact and Mitigation of Extreme Weather Events in Ireland	30
12566	Open-Source State Estimation in 50Hertz MCCA Project	31
12600	A Roadmap Toward Process Excellence And Digital Integration Shaping The Next Generation Of Operating Procedures	32

Study Committee C2 Poster Session 1 (14:00-16:00)

Poster Locations

PS2

Maintaining operational reliability through flexibility

ID	Title	Station
10435	Enhancing Resource Adequacy Monitoring in the Indian Power Sector through Real-Time Day-Ahead and Intra-Day Decision Support Tools	33
10455	Dynamic Islanding Readiness Scheme (DIRS): Real-Time Grid Resilience through Automated Load Balancing	34
10579	Simulation Based Comparative analysis of STATCOM, Grid forming, Grid following and Synchronous Condenser Technologies for Renewable integration in the Indian Grid	35
10670	Leveraging grid flexibility for enhanced system restoration in South Africa: A Black-Start operational framework	38
10850	A probabilistic congestion signal for optimal management of battery storage systems	39
10853	Modeling Prospective Reserve Requirements: A Probabilistic Framework Applied to the French Power System	40
10855	Dynamic Reserve: Data-Driven and Market-Based Uncertainty Management for Grid Operations	41
11204	Using RES Generation to Control the Frequency and Active Power Flows of the UPS of Russia for Developing of Flexibility Services and Power System Reliability Improvement	42
11317	Strategies for Inertia Assessment and Provision in Power Systems with High Renewable Sources	43
11326	An Innovative Special Protection Scheme with Energy Storage and Demand Response in LCC Bipoles	44
11335	Special Configurations and Transmission Limits for the Operation of the Brazilian Interconnected Power System During Periods of Extreme Drought	47
11373	Flexibility assessment from the operational perspective in the Finnish Transmission Network	48
11434	Design considerations for Fast Frequency Control in the Nordic Synchronous Area	49
11650	Automatic Generation Control in a Renewable Era: A GCCIA Perspective	64
11732	Providing FCR-N with BWR in a Nordic context	65

Study Committee C2 Poster Session 1 (14:00-16:00)**Poster Locations****PS2****Maintaining operational reliability through flexibility**

ID	Title	Station
11917	Probabilistic Assessment of Seasonal Power System Reliability in Jordan Integrating Renewable Variability	66
12062	A Case Study of Addressing Challenges of Renewable Energy Integration in Thailand	60
12135	An Optimization-Based Framework for Real-Time Power System Operation: The Colombian Experience	67
12429	Increasing Offshore Wind Infeed Using HVDC Dynamic Capacity in Transmission Capacity Management	68

Study Committee C2 Poster Session 2 (16:00-18:00)

Poster Locations

PS3

Power system dynamics and control in operations

ID	Title	Station
10103	Online Dynamic Security Assessment – A Key to Enhancing Observability and Stability in IBR-dominated Power Systems	5
10216	Fast Online Stability Monitoring Trough Identification of Weak Interfaces in Bulk Power Systems	6
10342	Managing South Australia's Power System Under Non-Credible Contingencies with two AC Interconnectors	8
10462	Assessing the Impact of Increasing Non-Synchronous Generation on Frequency Stability in the Indian Power System using Measurement-Based Inertia Estimation	9
10465	A Study on System behaviour During Different Operating Conditions of Offshore Wind Farm – In Context to the First EHVAC Grid connected Offshore Wind Farm of India	10
10723	Power System Dynamic State Tracking Under Normal and Disturbance Conditions	13
10739	Operational Experience with Synchrophasor-Based Oscillation Monitoring at RTE France	14
10745	Detection and Analysis of Oscillation Events with SCADA-Based Statistical Algorithms	15
10812	Deployment and Operational Experience of an Adaptive Wide-Area Damping Controller at the Italian Power Grid to Mitigate Continental Europe North-South Mode Oscillations	16
10854	Lessons learnt on the EEAC method for fast contingency screening on RTE use-cases	19
10957	Frequency Quality Degradation and Measures in Western Japan	20
10958	Development of Cross-border Load Frequency Control for the Japanese Power System	21
11124	Offset-Free Model Predictive Control for Secondary Voltage Regulation: Field Validation on the Italian Transmission Network	23
11125	Wide-area damping control schemes with grid-forming as actuators	24
11203	The Experience of Wide-Area Automatic Centralized Emergency Control System Coordination in Power Systems of Different Countries to Improve the Power System Stability	25

Study Committee C2 Poster Session 2 (16:00-18:00)

Poster Locations

PS3

Power system dynamics and control in operations

ID	Title	Station
11205	Methods and Techniques for Ensuring the Oscillatory Stability of the Russian Power System	26
11206	Monitoring the Power System Operating State using 3D Visualization based on PMU Data	27
11307	Innovative Data Analytics of Low Voltage Frequency Measurements for the Detection of Power System Oscillations	30
11322	Dynamic Security Assessment of Bulk Transmission Using PMUs	31
11323	Monitoring Effective Inertia via Ambient Synchronized Phasor Measurements	32
11325	Optimal PMU Allocation for a WAMS-Based EMS in the Brazilian Power Grid	33
11331	Impacts of electromechanical oscillations on the operation of the Itaipu 50Hz interconnected power system	34
11686	Optimal Restoration of the Power System in case of Black Start Using Genetic Algorithm	36
11797	Hybrid Phase Angle Monitoring Using PMU and Power Flow Models	38
11822	Early Warning of System Oscillation Events based on Precursory Signs	39
11948	Maximum Loadability Index Adapted for Dynamic Scenarios to Anticipate the Voltage Collapse Events	40
11950	Recent ENTSO-E Continental Europe Synchronous Area Extensions for Systems of Ukraine/Moldova (2022) and Systems of Lithuania/Latvia/Estonia (2025) – Continental Europe Perspective	41
12182	Integrating Battery Energy Storage Systems for Primary Frequency Control: A Practical Implementation and Transformation Outlook from the Colombian Power System	43
12311	Power Transfer Capacity Optimization of a Radial Network using Battery Energy Storage Systems	44
12395	Balancing Cellular Autarky and System Frequency: An Inertia-Conscious Dispatch Concept	49

Study Committee C2 Poster Session 2 (16:00-18:00)**Poster Locations****PS3****Power system dynamics and control in operations**

ID	Title	Station
12428	Possible contributions of MT-DC systems with grid-forming properties to AC system stability by providing inertia	64
12433	Online Oscillation Detection based on PMU-Data in the Control System	47
12605	Dynamic Power System Areas Formation for Continuous Inertia Estimation	66
12629	Comparative Study of Model Order Reduction Criteria for Interaction Studies in Converter-Dominated Power Systems with Cable Networks and Partial Black-Box Subsystems	60
12632	A Preliminary Exploration of Standardized Modular Modeling Methodology for Renewable Generation Suitable for Power System Security and Stability Analysis	67
12645	Assessing the dynamic stability of the Slovenian power system	68