

Overall Tentative Schedule for the Oral & Poster Presentations

| | | | |
|---|-----------------------------|-----------------------------|-----------------------------|
| Day 2 8 th December 2025 09:00 - 10:30 | Session-I Session-IV | Session-II Session-V | Session-III Session-VI |
| Day 2 8 th December 2025 16:15 - 17:45 | Poster Presentations | | |
| Day 3 9 th December 2025 09:00 - 10:30 | Session-VII Session-X | Session-VIII Session-XI | Session-IX Session-XII |
| Day 3 9 th December 2025 16:15 - 17:45 | Session-XIII Session-XVI | Session-XIV Session-XVII | Session-XV Session-XVIII |

Papers for which no registrations have so far been made are presently not included in the oral/poster presentation schedules. However, once the registration for such a paper is completed, it will be included in an appropriate session.

| Session - I | | |
|--|---|---|
| Subject Area - Smart Grid and Power Systems | | |
| Venue - TBA | | |
| 8 th December 2025 & 09:00 am to 10:30 am | | |
| Paper ID | Paper Title | Authors |
| 63 | An IoT-Enabled Framework for Real-Time Smart Metering with Dynamic Tariff Pricings | S Gayathri, M Monisha, Anant Kumar, K Shanti Swarup |
| 64 | Generative Artificial Intelligence Enabled Smart Metering Framework For Predictive Energy Sharing | M Monisha, S Gayathri, Anant Kumar, K Shanthi Swarup |
| 68 | Assessment of Unbalance in Tata Power Mumbai Network due to Single-Phase Railway Loads | Santosh V. Singh, Prashant V. Navalkar, Anil M. Kulkarni, Girish T. Jawale |
| 123 | Impact of Cyber Vulnerabilities on Automated BESS Mode Transitions in Smart Microgrid | Suhani Baru, Khwrmndao Basumatary, Anup Shukla |
| 255 | Impact of ToD Charges and Power Factor on Total Energy Costs of BVRIT Campus Distribution Grid | VSB Chaitanya Duvvury, Josna Goud G, G Bhanu Ganesh, Pradeep Kumar Yemula |
| 288 | Data-Driven Fault Classification and Localization in Smart Grids for Accurate Self-Healing Using Multifaceted Machine Learning Techniques | Praneeth N, P Swati Patro, STP Srinivas |

| Session - II | | |
|---|---|---|
| Subject Area - Security-Constrained Economic Dispatch | | |
| Venue - TBA | | |
| 8 th December 2025 & 09:00 am to 10:30 am | | |
| Paper ID | Paper Title | Authors |
| 26 | SECED Pilot Study - For Emission-Constrained Economic Dispatch for India's ISGS thermal fleet | Debasis De, Sushil K Soonee, Deb Chattopadhyay |
| 54 | SCED in India: The Duals Behind Dispatch | Debasis De, Sushil K Soonee, R S Abhishek, Deb Chattopadhyay, Saumen Majumdar |
| 59 | Addressing Infeasibilities in SCED Optimization | Debasis De, Sushil K Soonee, Abhishek R S, Deb Chattopadhyay, Saumen Majumdar |
| 110 | Ramping in States Power System in India: Harnessing Flexibility through Integrated SCED | Debasis De, Abhishek R S, Sushil K Soonee, Deb Chattopadhyay |
| 118 | Optimizing Regional Power Trade in South Asia: A SECED Based Emission-Constrained Economic Dispatch Framework | Anita Prajapati, Richa Parmar, Khadiza Umme Tahera, Phuntsho Choden, et al. |
| 173 | Scheduling vs Despatch in the Indian Power Sector: The Statutory Role of Load Despatch Centre | S K Soonee, Dr. Deb Chattopadhyay, Dr. Sushanta Chatterjee, Debasis De |

| Session - III Subject Area - Power Systems Protection, Stability, and Optimization Venue - TBA | | |
|--|--|---|
| 8 th December 2025 & 09:00 am to 10:30 am | | |
| Paper ID | Paper Title | Authors |
| 78 | Modular Open-loop Eigen-sensitivity Analysis for Computation-efficient Stability Assessment | Aditya Pandey, Lokesh Kumar Dewangan |
| 109 | Impact of Droop Control on Impedance Trajectories under Stable Power Swings in Grid-Forming Converter-Integrated Power Systems | Sreenath B, Balabhaskar S S, Manas Kumar Jena |
| 171 | Transient Response Analysis in IBR-Dominated Power Systems Based on Short Circuit Ratio | Koduri Gowtham, Kiran Teeparthi, Pavan Kumar Yadala |
| 225 | Loss of Synchronism during Grid Disturbances in India | Mithila Aithagani, Anil M. Kulkarni |
| 229 | Virtual Inertia vs Physical Inertia for Improving the Stability of a Heavily Renewable Driven Power System | Ravi Reddi, Deepak Kumar Soni, Vaskar Sarkar |
| 273 | Modal Controllability and Observability Estimation of Critical Power System Modes From MIMO Frequency Scans | Kaustav Dey, Anil M. Kulkarni |

| Session - IV Subject Area - Grid Resilience and Security Venue - TBA | | |
|---|--|---|
| 8th December 2025 & 09:00 am to 10:30 am | | |
| Paper ID | Paper Title | Authors |
| 56 | A Novel Image-Based Watermarking Method for Detecting False Data Injection in Line Current Differential Relays | Swati Agarwal, Kondety Tony, Manish Pandit, Ranjana Sodhi |
| 73 | Evaluating Cascading Failure for Grid Resilience under Extreme Weather Events | Chandan Chaudhary, Alaaeldein Abdelkader, Mohammed Benidris, Joydeep Mitra |
| 83 | Hybrid IWSOA-ANN Approach for Load Stability During Cyber-Attack Blocking Controller Access | Arti Singhal, Ashu Verma, Rabindra Mohanty |
| 88 | Effective Graph Resistance based Vulnerability Assessment Framework for Cyber Resilient CPPS | Jigyasa Singhai, K Shanti Swarup |
| 217 | Reduced effective voltage control by shunt reactors in renewable rich grid – Experience of Western Region of India | Naresh Mhalas, Vishal Balram Puppala, Raj Shailendra Mudliar, et al |
| 274 | Analyzing Risk in Power Substations through an Automated Vulnerability Assessment Tool | Shashank S, Nayan Aahladh, Sridevi P Rao, Gurunath Gurralla, et al |

| Session - V Subject Area - Renewable Energy Systems Venue - TBA | | |
|---|--|---|
| 8 th December 2025 & 09:00 am to 10:30 am | | |
| Paper ID | Paper Title | Authors |
| 75 | Hydrogen-Based Offshore Wind Farm Energy Storage: Simulation and Sensitivity Analysis | Sree Vyshanvi Mamilla, K Shanti Swarup |
| 85 | A Data-Driven Framework of PV Hosting Capacity Assessment for a Military Garrison | Ujjawal Srivastava, P Amritansh Naidu, Ankit Singhal |
| 135 | Wind Power Forecasting using Auto-Regressive QRF for Operational Reserve Management | Girraj Raigar, Naveen Kumar Thokala, Swathi Battula, Abheejeet Mohapatra |
| 167 | Comparative Assessment of Feedforward and Sequence-Based Neural Networks for Solar Radiation Prediction Model | Bongoni Naresh, Amit Kumar Yadav, Ch Vineeth |
| 177 | Hybrid Energy Storage-Based Power Management Strategy for Stand-alone DC Microgrid | Krishnakant, Chuskit Dolma, Pravin Kumar, Prabodh Bajpai |
| 222 | Sector Coupling between Green Hydrogen and Steel: Machine Learning-based Estimation of Levelized Cost of Steel | Pratham Goel, Naran Pindoriya |

| Session - VI | | |
|--|---|---|
| Subject Area - Power System Planning and Operations | | |
| Venue - TBA | | |
| 8 th December 2025 & 09:00 am to 10:30 am | | |
| Paper ID | Paper Title | Authors |
| 94 | Tariff Impact Analysis on Peer-to-Peer Energy Sharing in Residential Communities | Gopalji S. Kalojiya, Anupama S. Kowli |
| 117 | A Comprehensive Design Framework for AT-Fed Railway Traction Power Systems | Archita Vijayvargia, Abhijit Abhayankar |
| 120 | Fast Jacobian Evaluation for Islanded Microgrid Load Flow Using Compact Matrix Operations for Composite Load Models | Rasmita Muduli, Debapriya Das |
| 125 | Deep Analysis for Selective Control and CO2 Emission in Power Systems | Suresh Varwandkar |
| 130 | Insights and Analysis from Black Start Mock Drill Case Studies using Synchrophasor Technology | Praveen Tripathy, Subhash Kumar, Sachin Singh, Kishore Kalita, Saksham Rithe, Sharmistha Dutta |
| 202 | Impact Analysis of Zero-Sum False Data Injection Attacks on Peer-to-Peer Energy Trading | V.V.N Prasad Thota, Kiran Teeparthi, Sri Phani Krishna Karri |

| Session - VII Subject Area - Electric Vehicles and Drives Venue - TBA | | |
|---|--|--|
| 9 th December 2025 & 09:00 am to 10:30 am | | |
| Paper ID | Paper Title | Authors |
| 91 | Power Electronics Converter Topologies and Control Methods for On-Board and Off-Board Electric Vehicle Charging Systems: An Overview | Jajjala Kashyap, E S N Raju P |
| 93 | Decentralized Smart EV Charging with Multi-Agent System Communication and Energy Coordination | Priyansh Dwivedi, Himanshu Tiwari, Pradhyumna Yadav, Murari Kumar, K Shanthi Swarup |
| 128 | Electric vehicle battery charger based on DC-001 charging standard | Vaishnavvignesh G Iyer, Cilaveni Satish Chandra, Ravindranath Adda, Sreenath J G, Praveen Tripathy |
| 223 | Light Load Efficiency improvement of Dual Active Bridge Converter for EV Fast Charging Application | Nagasai G, Ravikumar Bhimasingu |
| 261 | High-Efficiency SIDO-SEPIC with Improved Cross-Regulation for EV Charging Systems | Kamalesh MS, Prabha S Umaphathy, Bharatiraja Chokkalingam, Sanal Kumar S, et al |
| 266 | Electrifying Mobility : Dynamic Charging for Next-Generation Electric Vehicles | Mahendar Reddy Peddolla, Sanjeeva Reddy B R |

| Session - VIII Subject Area - Power System Planning and Operations Venue - TBA | | |
|--|---|--|
| 9th December 2025 & 09:00 am to 10:30 am | | |
| Paper ID | Paper Title | Authors |
| 126 | Co-optimized Flexibility Market Framework for DSO Enabled Market Operations | Manu Ranjan Sharan, Abhijit R. Abhyankar, Ankit Singhal |
| 142 | Cost Allocation Mechanism for Shared Battery Storage Systems: A Game-Theoretic Approach | Anchal Maurya, Harshit Dhiman, Agam Jain, et al |
| 191 | BIBC-Based Distribution Network Reconfiguration with Optimal Placement and Sizing of Renewable DGs under a 24-Hour Load Profile | Astamita Mishra, Manish Tripathy, Papia Ray |
| 228 | A Hybrid Clustering-PSO Framework for Reliable Islanded Microgrid Expansion Planning | Rasmita Muduli, Debapriya Das |
| 230 | Operational Strategies for Enhancing RE Integration into the Grid using Existing Transmission System | Minnakuri Venkateswara Rao, Priyam Jain, Vishal Puppala, et al |
| 262 | Primary Frequency Response by Renewable Energy Plants: Regulatory Framework and Compliance Analysis in India | Mohit Kumar Gupta, Aman Gautam, Rahul Shukla, et al |

| Session - IX Subject Area - Smart Grid and Power Systems Venue - TBA | | |
|--|--|--|
| 9th December 2025 & 09:00 am to 10:30 am | | |
| Paper ID | Paper Title | Authors |
| 106 | Digitizing Electrical Panels with MQTT and Multi-Network Raspberry Pi Gateways | Anmol Sardhalia, Sheraza Bashir, Ayush Yadav, et al |
| 131 | Impacts of fast voltage boosters with current limiters of droop controlled grid forming inverters during delayed voltage recovery events | Upendran Mukundarajan, K. Shanti Swarup |
| 195 | Performance Assessment of Inverter-Fed Autonomous Microgrid with Uniform and Non-Uniform Delay Utilizing Internal Model Controller | Sneha Goneguntla, Gnana SaiSree Boppudi, Naresh Kumar Vemula, Pratikanta Mishra, Kiran Kumar N |
| 200 | Improving Stability of GFL Inverter in Weak Grid using Paralleled GFM Inverter: Hardware Validation | H R Sai Kiran Pandit, Sarasij Das |
| 258 | An Improved Differential Admittance Based Fault Detection Algorithm for Low Voltage AC Microgrid | Joy Narayan Das, Dr. Biswajit Sahoo, Sandeep Banik |
| 286 | Short-Term Load Forecasting for Energy and Cost Savings: A Case Study | T. Praneeth, Gajangi Arun Kumar, P. Ram Kishore Kumar Reddy, Pradeep Kumar Yemula |

| Session - X Subject Area - Power Systems Protection, Stability, and Optimization Venue - TBA | | |
|---|---|---|
| 9th December 2025 & 09:00 am to 10:30 am | | |
| Paper ID | Paper Title | Authors |
| 61 | Advanced Power Grid Feeder Protection and Control Functions for Wildfire Mitigation and Control | Srujana Yenigalla, Nagarjuna Koppakula, Sai Pramod Tati, Priya Kumari, Balakrishna Pamulaparthi |
| 70 | An Integrated Approach for Fault Diagnosis and Localization in DC Microgrid | Anu Bhalla, Bhavesh R. Bhalja |
| 136 | Sequence Component-Based Protection Strategies for Fully Inverter-Dominated Microgrids | Arjita Pal, Rabindra Mohanty, Bijaya Ketan Panigrahi |
| 170 | Transmission Networks Connected With GFM Inverters: Protection Challenges and Opportunities | OD Naidu, Aarthi V, Neethu George, Vedanta Pradhan |
| 236 | Analysis of Grid Protection in the North-East Regional Network of India Using Actual Fault Data Under High Solar PV Penetration | Subhash Kumar, Karan Katariya, Sachin Singh, Subhra Ghosh, et al |
| 237 | A New Facile Time-Voltage-Current Characteristics for Numerical Distance Relay Coordination in Modern Power Grids and FPGA Implementation | Praneeth N, STP Srinivas, Alivelu Manga Parimi |

| Session - XI | | |
|--|--|---|
| Subject Area - Artificial Intelligence and Data Analytics in Power Grids | | |
| Venue - TBA | | |
| 9th December 2025 & 09:00 am to 10:30 am | | |
| Paper ID | Paper Title | Authors |
| 102 | Optimized Hybrid CNN-Transformer-LSTM Architecture for Accurate Solar Irradiance Forecasting under Variable Weather Conditions | Shanker M, Vikram Kulkarni |
| 124 | Efficient Wide Area Data Compression- A Ramanujan's Sum-Based Approach | Manish Pandit, Ranjana Sodhi |
| 144 | Sectoral Disaggregation of India's Peak Day Load Curve: A Pathway to Demand Flexibility | Pallavi Buwa, Anupama Kowli |
| 172 | OTC Platforms in Indian Power Markets – Driving Digitalization and Data Analytics for Economy, Efficiency, and Transparency | Vinod Kumar Agrawal, Kapil Dev, Ashish Shrivastav, et al |
| 183 | Cybersecure Line Differential Relay Based on Transient Signatures and Decision Tree Classification | Suryanarayana Gangolu, Rakesh Kumar Panda, Suman M, CH Venkateswarlu |
| 187 | Constrained Loss Function Optimization based Short-Term Load Forecasting | Murari Jha, Ankit Singhal |

| Session - XII | | |
|--|--|--|
| Subject Area - Control in Power Systems/Power Electronics | | |
| Venue - TBA | | |
| 9th December 2025 & 09:00 am to 10:30 am | | |
| Paper ID | Paper Title | Authors |
| 82 | Cyber-Physical Vulnerabilities of Distributed Secondary Control in DC Microgrids: The Role of DoS Attacks and CPLs | Bazila Rashid, K. Shanti Swarup |
| 129 | Controller design for Three level boost converter with single-phase inverter load | Vaishnavvignesh G Iyer, Cilaveni Satish Chandra, Ravindranath Adda, Sreenath J G, Praveen Tripathy |
| 193 | LVRT-Enabled Virtual Synchronous Generator Control for Grid-Forming Inverter-Based Resources | Supriya Sharma, Yashasvi Bansal |
| 198 | A 3-phase 2-level inverter with AC side boost and CMV mitigation scheme | S S Phaniram Musti, Ravikumar Bhimasingu |
| 220 | Modified Control Strategy to Improve the CC-CV Mode Transition Performance in Variable DC-Link Voltage On-Board Chargers | Cilaveni Satish Chandra, Vaishnavvignesh G Iyer, Ravindranath Adda, Sreenath J G, Praveen Tripathy |
| 226 | Controller Output Dynamic Limiting Technique for Overshoot Suppression in Current-Controlled Grid-Following PV Systems | Ajay Jena, Arun Rahul S |

| Session - XIII | | |
|--|--|--|
| Subject Area - Power System Planning and Operations | | |
| Venue - TBA | | |
| 9 th December 2025 & 04:15 pm to 05:45 pm | | |
| Paper ID | Paper Title | Authors |
| 185 | Decentralized Energy Exchange: A Blockchain-Based Smart contract Pricing Model for Sustainable Distributed Energy Markets | Tharun Tejavath, Surendra Srinivas |
| 207 | Utilization of Spinning Reserves in Largest Hydro Electric Power Plant in India-A Base Case | Rajesh Kumar, Absar Ahmad, Pavitra Malik, B. Raviteja |
| 233 | Optimal reliability planning of radial distribution network considering hourly energy availability with renewables integration | Dharmendra Trivedi, Naveen Jain, Umesh Agarwal, Manoj Kumawat |
| 259 | Real-Time Oscillation Analytics for Power Grids: A Wavelet-Assisted Matrix Pencil Approach in SLDC Operations | Raja Shekar Nalluri, Bhanu Ganesh Ganta, Pradeep Kumar Yemula, Chandra Sekhar Maragoni, Nataraj Pathri |
| 287 | Markov Modeling Based Reliability Evaluation of Compressed Air Energy Storage in Grid Operations | Abhishek Harit, Perna Jain, Satish Sharma |

| Session - XIV | | |
|--|--|---|
| Subject Area - Control in Power Systems/Power Electronics | | |
| Venue - TBA | | |
| 9th December 2025 & 04:15 pm to 05:45 pm | | |
| Paper ID | Paper Title | Authors |
| 127 | A Soft-Switched Dual Active Push-Pull Converter | Jabi Ali, Mandeep Singh Rana |
| 252 | Remaining Useful Life Prediction of Boiler Feed Pump Motor: A Statistical and Condition Monitoring Approach for Industry 5.0 | Koti Reddy Butukuri, Hari Preetham Golla, Pradeep Kumar Yemula, Gali Sridhar, Tadiparti Koti Reddy |
| 253 | Multilevel Inverter for Grid Connected and Standalone applications | Shoubhik Mukherjee, Dr. Rupesh Wandhare, Deepak Gehlot, A.S Krishnapriya |
| 269 | Unbalanced Reference Voltage generation for Grid Forming Inverter Control During Asymmetrical Faults | Sunil Gajula, Ravikumar Bhimasingu |
| 271 | Modified Direct Power Control of Photovoltaic to Grid tied Voltage Source Converter with Active Filtering Capability | Praveen Vankadari, Korivi Yogananda Reddy, Sree Hari J B, Akshay Chabukswar, Avinash Naramu, Rupesh Wandhare |

| Session - XV Subject Area - Electric Vehicles and Drives Venue - TBA | | |
|---|---|--|
| 9th December 2025 & 04:15 pm to 05:45 pm | | |
| Paper ID | Paper Title | Authors |
| 49 | Implications of induction of Electric Vehicles in India | Goutam Bhaskhar, Saumen Majumdar, Debabrata Chattopadhyay, S.K. Soonee, Debasis De |
| 69 | Swarm-Based EV Fleet with Grid-Aware Charging and Traffic-Adaptive Routing in Urban Networks | Greeshma Potnuru, K Shanti Swarup |
| 256 | Assessing Impact of Dynamic Parameters on Electric Vehicle Energy Consumption using Parameter Perturbation Analysis | Bhanu Ganesh Ganta, Raja Shekhar Nalluri, V S B Chaitanya Duvvury, Pradeep Kumar Yemula |
| 263 | Physics-Guided Indicators with PSO-Tuned Regression for EV Battery SOH Estimation | V.Yashwanth, Y.Likhith, B. Nikhil, C. Priyanka, K. H. Phanishree |
| 267 | Optimal EV Charging under Marginal Emission Factors and Time-of-Use Tariffs: Comparison of Telangana and Karnataka | Aishree Boruah, Gaddam Vardhan, Parmar Aryan Jasvantkumar, Pritha Chatterjee |
| 279 | Real-time Monitoring of Energy Dynamics in Electric Vehicles | Bhanu Ganesh Ganta, Pradeep Kumar Yemula, Koti Reddy B |

| Session - XVI | | |
|--|--|---|
| Subject Area - Electric Vehicles and Drives | | |
| Venue - TBA | | |
| 9 th December 2025 & 04:15 pm to 05:45 pm | | |
| Paper ID | Paper Title | Authors |
| 10 | Real-Time Fault Analysis and System Optimization in EV Controllers with Field-Oriented Control: A Practical Investigation on Monitoring Diagnostics and Enhancements | Suganya R, L.M.I. Leo Joseph, K Sreedhar |
| 181 | Multilayer Winding Configuration for Variable Pole Induction Motor Drives | Monika Jain, B Prathap Reddy |
| 265 | A Constant Switching Controller based DTC Scheme for Speed Control of Five-Phase Open End Winding Induction Motor | C Venkata Subba Reddy, Sabavath Akhila, Nalla Akshitha, Gunji Poojitha, Yadlapalli Ragini |
| 270 | Robust Optimal Non-Linear Control Technique for Efficient EV Drive Applications | Akshay Chabukswar, Sree Hari J B, Ponnaganti Sirisha Devi, Korivi Yogananda Reddy, Chekka Supriya, Rupesh Wandhare |
| 272 | Simulink-Based Modeling of Regenerative Braking with Energy Recovery Optimization for Electric Vehicles | Sadia Begum, Ujwala Gajula, Gouthami Eragamreddy, Swapna Raghunath |

| Session - XVII | | |
|--|---|---|
| Subject Area - Smart Grid and Power Systems | | |
| Venue - TBA | | |
| 9 th December 2025 & 04:15 pm to 05:45 pm | | |
| Paper ID | Paper Title | Authors |
| 44 | Design and Implementation of Blockchain-Enabled P2P Energy Trading Testbed | Shweta Arvind Kadam, Debasmita Panda, Ashutosh Yadav |
| 84 | Operational Analysis of Shipboard DC Microgrid Integrated with Advanced Storage Solutions | Ayush Bhatia, Rabindra Mohanty, Avanish Tripathi |
| 86 | Hybrid Islanding Detection in Grid-Connected PV-Battery Microgrid | Suraj Mishra, P Amritansh Naidu, Bijaya Ketan Panigrahi |
| 190 | Identification and Exploitation of Critical Lines through Targeted LR Attacks | V. Bharat Kumar, Satish Sharma |
| 194 | Practicing Advanced Technology Implementation for Indian Transmission Grid | Dr. Amit R. Kulkarni |
| 210 | Experimental Validation of Online Frequency Response Estimation of a Multi-port LTI Apparatus using Power System Ring-down Events | Santosh Singh, Anil Kulkarni |

| Session - XVIII | | |
|--|---|--|
| Subject Area - Renewable Energy Systems | | |
| Venue - TBA | | |
| 9 th December 2025 & 04:15 pm to 05:45 pm | | |
| Paper ID | Paper Title | Authors |
| 50 | Fault Detection in Unequal-Rated PV Strings Using Normalized Power and Snapshot Median Filtering | Jayakumar J, Justin Salamon M, Aswin Kumar M, et al |
| 79 | Techno- Economic Modeling of a Renewable Hybrid Energy System | Kavya E M, Monisha M, Pasela Ramtej, K Shanthi Swarup |
| 96 | Next-Gen Offshore Wind Year Ahead Forecasting Aided Modelling for Techno-Economic Feasibility | Nidhi Gummaraju, Shri Varshini C, Sree Vyshnavi Mamilla, Greeshma Potnuru, K Shanti Swarup |
| 218 | Impact of High Temperature on Wind Turbine Performance in India and Need for Climate-Resilient Design | Abhijeet Prakash, Priyanka Meena, Lav Kumar Khandelwal, et al |
| 247 | Capacity credits for renewable energy and value of cross-border transmission in South Asian power systems | Suruchi Uppal, Srishty Jain, Puneet Chitkara, Sushil Kumar Soonee |
| 281 | Techno-Economic Feasibility Analysis of a Building Integrated Agrovoltatics Model | Alan Sam, Bhanu Ganta, Pradeep Kumar Yemula, Rayudu Katuri |

| Poster Presentations | | |
|--|---|--|
| Venue - TBA | | |
| 8 th December 2025 & 04:15 pm to 05:45 pm | | |
| Paper ID | Paper Title | Authors |
| 41 | Intra state SCED, dispatch using LP optimization in Maharashtra – A case study | Debasis De, Sushil K Soonee, Prof. Zakir Hussain Rather, Shashank Jewalikar, Akhilesh Panwar, Dr. Deb Chattapadhyay |
| 62 | Data-Driven Inertia Estimation using BiLSTM and XGBoost for RES Integrated Power Networks | Magam Vasista Sai, Shahbazuddin Syed, Altaf Q. H. Badar, Prachi Salodkar |
| 65 | Study of Dielectric Performance of Insulating Stand-offs Under Lightning Impulse | Gyanendra Kumar Kurmi, Basanta Kumar Gautam |
| 66 | Experimental study of the surface dielectric strength of insulating tubes on basis of geometry under lightning impulse voltages | Akrit Acharya, Basanta Kumar Gautam |
| 74 | Review of Mathematical Modeling and Scheduling Strategies of an Electric Vehicle Aggregator | SSSR Sarathbabu Duvvuri, Bala Sai Kiran P, Pinnamraju Sathvika, Kukkala Varshini, Majji Vaishnavi, Jillabathula Pavithra, |

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| 76 | Adaptive Electric Vehicle EMS with Secure V2G Energy Transactions using Blockchain | C Shri Varshini, Nidhi Gummaraju, K Shanthi Swarup |
| 92 | A Survey on Fault Location, PMU Deployment, and Fault Behavior of Distributed Generators and Active Loads in Medium-Voltage Distribution Networks | Anchal Maurya, E S N Raju P |
| 100 | Multi-part Innovative Tariff Framework for the Renewables for ambitious Net Zero targets | Sushil Kumar Soonee, Dr Amit Kumar Singh Parihar, Ghansham Thakkar, Himanshu Mishra |
| 104 | Improving Wind Energy Forecast Accuracy Using Machine Learning | Tirunagaru V Sarathkumar, T Sanjeeva Rao, Arup Kumar Goswami, T Venkata Prasad |
| 116 | Virtualization of Protection in Distribution Substation: An Object-Oriented Approach | Bhaskar Sahu, K. Shanti Swarup |
| 119 | Impact of Filters on Grid Connected BESS: Experimental Analysis and Validation | Nivedika Kher, Sonam Gupta, Anup Shukla |
| 137 | Key Insights from Security-Constrained Economic Dispatch: A Case Study for Uttar Pradesh | Nishant Kumar, Abheejeet Mohapatra, Prabodh Bajpai, et al |

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| 143 | Detection and Localization of Low-Frequency Oscillations in North Eastern Region of India in the Presence of Inverter Based Resources | Karan Vasudev Katariya, Subhash Kumar, Palash Jyoti Borah, et al |
| 192 | Optimising Power Despatch: Security Constrained Economic Despatch Initiative in Gujarat | Divya Sharma, Vatsalkumar Bhatt, Pandya Darshan Dilipkumar, et al |
| 196 | Directional Overcurrent Relay Coordination in a Microgrid Environment by using Genetic Algorithm, and Breeder Genetic Algorithm | Ravindra Mankar, Pranav Darji |
| 205 | A Novel Development of a Single Switch DC DC Circuit for Fuel Cell Systems | Gurijala Sreedhar, CH Hussaian Basha, Likhitha R, Prathibha E, Muralikrishna Boddu |
| 212 | Impact of Different Current Limiting Strategies on Stable Power Swing Trajectories in Grid-Forming Converter–Integrated Power System | Balabhaskar S S, Sreenath B, Manas Kumar Jena |
| 219 | Shock-Proofing the Grid: Readiness of Indian Electricity Markets for Futures-Based Hedging Instruments | Ribhu Shankar, Dr. Parminder Kaur Bajaj |

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| 250 | An Enhanced VMD-DT-Based Fault Protection Scheme for AC Microgrid | Sandeep Banik, Dr. Biswajit Sahoo, Prof. Jyoti Prakash Mishra |
| 264 | A Hybrid Symmetrical Optimum-Pattern Search tuned PI Based Three-Phase SRF PLL Synchronization System Under Grid Irregularities | Bibhuti Prasad Sahoo, Adityansu Pati, Raseswari Pradhan |
| 278 | Security Constrained Economic Despatch for TGS LDC: Architecture, Data Pipeline, and MOD Benchmarking | Avik Ghosh, Pradeep Kumar Yemula, P. Suresh Babu, B. Raja Thirupathi, L. Sarveswar |
| 280 | Adaptive Distance Relay Protecting Transmission Lines Connecting Inverter Based Resources | Chandra Panda, Deepak Pullaguram, Ashok Kumar Pradhan |
| 285 | Remaining Useful Life Estimation of Aged Power Transformers: A Case Study Using Degree of Polymerisation and Furan Analysis | Koti Reddy B, Pradeep Kumar Yemula, Vishal Devulapalli, Rammohan Rao Vemula, Bhanu Ganesh Ganta |

| Online Presentations Presentation Link - TBA | | |
|--|--|--|
| 9 th December 2025 & 09:00 am to 10:30 am | | |
| Paper ID | Paper Title | Authors |
| 81 | Design and Modeling of Campus Microgrid for Future Sustainable Energy Operations | Mahmuda Akter, Jannatul Ferdous, Samiul Hasan Emon, Shah Mohazzem Hossain |
| 138 | Comparative Analysis of Flywheel and Battery Energy Storage Systems for Smoothing Photovoltaic Power Output | Anil Bhatt, Bipin Subedi, Nita Kumari Phuyal, Aashish Yakami, Gaurav Tamrakar |
| 141 | Space Vector Pulse Width Modulation Inverter Based Indirect Field Oriented Control for Induction Motor | Aayush Bhatta, Sandip Timsina, Ritesh Basnet, Urusha Kisi, Rojan Tamang, Hari Bhusal, Mensun Lakhemaru |
| 244 | Techno-Economic and Environmental Assessment of On-Grid Rooftop Solar Integration for Diesel-Dependent Urban Markets | Md. Sabbir Alam, Shah Mohazzem Hossain |
| 245 | Exploring a Hybrid Renewable Energy System to Meet Bangladesh's Future Energy Needs | Md. Aminul Hoque, MD. Nahid Billah, Shah Mohazzem Hossain |