



14:00 – 17:30, 19th October 2017

Poster Presentation

| Poster ID | Paper ID | Paper Title | Authors |
|-----------|----------|---|--|
| PO001 | 0014 | Over-voltage Modelling and Simulation Analysis of Offshore Wind Farm | Zhankui Zhang, Yan Li, Yongning Chi, Linjun Wei, Chao Liu |
| PO002 | 0046 | Wind Farm HVRT Capability Improvement Based on Coordinated Reactive Power Control Strategy | Yuandong Zhang, Qing Li, Jinping Zhang, Shiyao Qin |
| PO003 | 0103 | Phasor Model of Full Scale Converter Wind Turbine for Small-Signal Stability Analysis | Radu Gigha, Qiuwei Wu, Arne Hejde Nielsen |
| PO004 | 0153 | A Novel Simplified Method of Doubly Fed Induction Generator | G B Song, C H Zhang, X B Wang, W Huang |
| PO005 | 0171 | “HVDC Optimisation” – Driving down the cost of large scale offshore wind | K Siriwardhana, G Jackson, A Canelhas |
| PO006 | 0175 | Enhanced AC Voltage and Frequency Control on Offshore MMC Station for Wind Farm | Y Jing, R Li, L Xu, Y Wang |
| PO007 | 0190 | Study on detection of blade imbalance for DFIG wind turbines based on spectrum analysis of Hilbert modulus | Jixing Qiu, Guodong Xu, Junbing Tao, Jing Yang |
| PO008 | 0201 | Analysis for distribution network on holding capacity of distributed wind turbines considering additional income under procedure conditions | WANG YE, YU YUWEI, ZHANG JIE |
| PO009 | 0203 | Fault diagnosis of wind turbine planetary gearbox based on order analysis and divergence index | He Chengbing, Cai Shunkai, Sun Dakang, Song Lei |
| PO010 | 0213 | Analytical determination of stable droop loop gain for a DFIG participating in frequency regulation | Jinqiang Liu, Xiaoru Wang |
| PO011 | 0272 | Wind Power Curtailment Sequence Characteristic Analysis | Yongzhi Qi, Nan Zhang, Yuehui Huang, Yuefeng Wang, Weisheng Wang, Chun Liu |
| PO012 | 0289 | Stator Current Vector Control Strategy of Doubly-fed Induction Generator Using Proportional Resonant Regulators | Q Li, P Cheng, X J Hao, J P Zhang |
| PO013 | 0299 | Low voltage ride through capability enhancement of grid-connected permanent magnet synchronous generator driven by a variable speed wind turbine: a | Mohammed Qais, Hany Hasanien, Saad Alghuwainem |

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| | | review | |
| PO014 | 0300 | Output power smoothing of grid-connected permanent magnet synchronous generator driven by a variable speed wind turbine: a review | Mohammed Qais, Hany Hasanien, Saad Alghuwainem |
| PO015 | 0307 | A Method of Eliminating High Frequency Resonance of DFIG System Connected to Weak Grid | B Pang, H Nian, G D Xu, J X Qiu |
| PO016 | 0338 | The control for Offshore Wind Power Integration Based on Modular Multilevel Converter | C Lv, N L Tai |
| PO017 | 0343 | Research on VSC-HVDC control strategy based on large offshore wind power system | Q Sun, C J Fan, C Lv, L Y Qiao |
| PO018 | 0399 | Study on the Stability of Grid - Connected System of Two Types of Wind Turbines with UPFC | Haitao Liu, Xu Li, Gaofeng Qin, Sipeng Hao |
| PO019 | 0417 | Study on Compound Frequency Modulation Strategy of DFIG-Based Wind Turbines Dealing With Stator Winding Inter-turn Short Circuit Fault | Liling Sun, Lanqing Hu, Boqiang Xu |
| PO222 | 0858 | Wind Speed Optimization Method Of Numerical Prediction For Wind Farm Based On Kalman Filter method | Shenbing Hua, Shu Wang, Shuanglong Jin, Shuanglei Feng, Bo Wang |
| PO223 | 0777 | Thermal Analysis and Reliability Evaluation of Cascaded H-Bridge Multilevel PV Inverter for Grid connected Applications | G Ranjith kumar, Z Guo-Rong, L Jianghua, C Wei, L Bo |
| PO020 | 0157 | Modelling and Simulation of the Photovoltaic Power Station Considering the LVRT and HVRT | Shichao Fan, Pupu Chao, Feifei Zhang |
| PO021 | 0335 | Research on the Smart Modular Cascaded Solid State Transformer interfaced to Distributed Photovoltaic Power Generation System | Hengyang Zhao, Taiyun Zhu, Dengfeng Cheng, Binbin Li, Jinjin Ding, Yuanzhi Li |
| PO022 | 0358 | A Multilevel Switch-capacitor DC-DC Converter: Variable Voltage Gain Optimization Issues | S R Wang, K P Liu, L Qing, D Liu |
| PO023 | 0432 | Active Power Control Algorithm for Photovoltaic System Based on Operating Efficiency of Photovoltaic Generation Unit | rui bi, xianfang liu |
| PO024 | 0521 | Study on Photovoltaic Grid-connection Composite Control Strategy in Microgrid | Shuangjian PENG, Xin XUN, Kai SHENG, Xiaoxing ZHU, Fuping LIU, Zhijie WANG |
| PO025 | 0648 | Research on low voltage ride through control based on model predictive control | Jianhu Yuan, Yu Chen, Nan Chen, Yunlong Zhang, Yuliang Lin |
| PO026 | 0660 | Based on STATCOM Direct Current Full-order Terminal Sliding Mode Control | Xuemei Zheng, Ruobo Chen |
| PO027 | 0718 | Whale Optimization Algorithm for Photovoltaic Model Identification. | O S Elazab, H M Hasanien, M A Elgendy, A M Abdeen |

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| PO028 | 0737 | Reliability Evaluation of Photovoltaic Power Generation Systems with Consideration of Time-Varying Factors | Hongtao Li, Jie Ding, Jingsheng Huang, Yinghua Dong, Xiaoyan Li |
| PO029 | 0810 | Fault Diagnosis of PV Array Based on Optimized BP Neural Network by Improved Adaptive Genetic Algorithm | Y Liu, X Zhu, J Yang |
| PO030 | 0827 | Development Status and Demand Analysis of IEC Photovoltaic Standards | Zhen Li, Xiaodi Qin, Chenhui Niu, Zhilei Chen |
| PO031 | 0835 | Weather Type Partition Method Considering Sequential Features in Photovoltaic Forecasting | H Li, Z X Lu, Y Qiao, N B Wang, K Ding |
| PO032 | 0892 | A one-step MPPT method based on 5-parameter model of PV module | J R Miao, D Xie, R X Fan |
| PO033 | 0917 | Short-term power forecasting of distributed pv power systems for consideration its effect on load forecasting | Yu Liu, Zhi Li, Kai Bai, zhaoguang zhang, Xining Lu, Xiaomeng Zhang |
| PO035 | 0043 | Research of Reactive Power Control Strategy to Reduce the Reactive Power Exchange of AC&DC Power Grid | Renchuan Tu, chenggong Zhao, zhijun Liu, yong Cui, wei Xie, desheng Zhou, kaiyu Zhang |
| PO036 | 0052 | Distribution Fault Outage Cost Evaluation and Hotspot Area Recognition Based on Big Data | Jinming CHEN, Yi YANG, Ziyang WANG, Yan Li, Yajuan GUO, Jinli CUI, Daohua ZHU |
| PO037 | 0099 | Protection Principle for MMC-HVDC DC Lines Based on Boundary Signals | C Lv, N L Tai, X D Zheng |
| PO038 | 0100 | A Hierarchical Control Strategy Based on Bidding Mechanism in Active Distribution Network | Jiawei Zhou, Bingxing Yue, Jinrong Wu, Hua Huang, Chunliu Wang |
| PO039 | 0102 | Synergistic Dispatch of Generation and Network in Wind Power Integrated Power System | Donglei Sun, Jinhong Yang, Xiaoming Liu, Kuihua Wu, Xiangyang Cao, Qibin Bo |
| PO040 | 0115 | Coordination of Two-stage Surge Protective Device in Low Voltage System under Mixed Waves | Yiming ZHENG, Chunyan GONG, Wei HU, Zhengyuan ZHU |
| PO041 | 0116 | Research of Transmission delay test-method in Smart Substations | Gong Xinyue, Zhou Da, Teng Yun, Bu Qiangsheng, Gao Lei |
| PO042 | 0117 | An equivalencing-tracking-based method for incorporating distributed energy resources in transmission system economic dispatch | Z S Li, Q L Guo, H B Sun, T Xu |
| PO043 | 0119 | Abnormality in Power System Transient Stability Control of BESS/STATCOM | Jun Liu, Can Su, Xu Wang, Wanliang Fang, Shuanbao Niu, Ping Wei |
| PO045 | 0134 | Dynamic modelling of the VSC -HVDC for analytical studies | G B Song, T Wang, X H Huang, Y B Gu, Y K Liu |
| PO046 | 0135 | A Two-Phase Integrated Optimization Strategy for Network Restoration with Photovoltaic Generation | Z Q Jiang, F Xiao, Q Ai, Q L He, Q S |

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| PO047 | 0137 | Study on the Dynamic Stability of Weak Grid Connection of Large-scale DFIG Based Wind Turbines | Xinshou Tian, Haiyan Tang, Yan Li, Yongning Chi, Yuanyuan Shu |
| PO048 | 0138 | Multi-rate Electromagnetic Transient Simulation of Large Scale Power System Based on Multicore | Peng zhan, Shu-jun Yao, Hai-lin Zhang, Shuo Zhang |
| PO049 | 0139 | Study on HVDC Transient Reactive Power Characteristics during Commutation Failure and Impact of HVDC Control Parameters | Jingzhe Tu, Yan Pan, Jian Zhang, Bing Zeng, Junchuan Jia, Jun Yi |
| PO050 | 0141 | A Siloxane Injection Technology for Extending the Lifetime of the Operating Cable | Tao Wenbiao, Song Shuyong, Ma Zhenguo, Sun Ruihao, Zhang Yifan, Zhao Jin |
| PO051 | 0144 | Research on A New Scheme of LCC-HVDC Line Protection | G B Song, Y B Gu, X H Huang, T Wang, W Huang |
| PO052 | 0149 | Increasing the maximum penetration of distributed energy resource on the basis of multi-dimensional multi-resolution model | Shanshan Zhao, Xiaohui Song, Yajie Li, Fei Gao, Jianfang Li, Yu Zhang |
| PO053 | 0163 | Research on Technical Scheme of Outdoor-Layout/Miniaturization Relay Protection in Smart Substation | Shuang Song, Xingjin Qiao, Qiangsheng Bu |
| PO054 | 0169 | Optimal single phase smart meter design | N. T. Mbungu, R. C. Bansal, R. Naidoo, M Bipath |
| PO106 | 0170 | Frequency Characteristics of East China Power Grid after Bipolar Locking of UHVDC | X L WU, Q LAN, Z W LI, K Q ZHUANG, Y C MIAO, W LI |
| PO107 | 0178 | High accurate estimation method of subsynchronous and super-synchronous harmonic parameters on PMU | Y Tan, R Chen, M Wang, M Wang, M G Hou |
| PO108 | 0192 | Study of online electromechanical and electromagnetic hybrid simulation system | Dongyu Shi, Xujiang Chen, Yalou Li, Feng Wang, Dechao Xu, Chunjiang He, Gang Li |
| PO109 | 0199 | Comparing smart EV charging strategies from different stakeholder's perception | T Rawat, K R Niazi |
| PO110 | 0204 | New Look-up Table Approaches for TCSC Impedance Control Considering Thyristor Conduction Characteristic | Yi Yang, Xiaojun Zhu, Wei Yao, Lei Gao, Yubo Yuan |
| PO111 | 0214 | Optimal Reconfiguration of the Active Distribution Network with Distributed Generation and Electric Vehicle | Dongfang Zhang, Tao Zhang, Xueqin Xu, Yuanhua Zhou, Xiaolin Zhang |
| PO112 | 0221 | Improvement of HVDC Commutation Failure Response Based on Compound Phase-shifting Control | S Wang, S Lu, Y Hou, F Liu, Z Xu |
| PO113 | 0222 | Suppression Method and Effectiveness of STATCOM for Identical Multi-machine System | S Wang, S Lu, H Xiao, Z Xu, X Cui, X Wu |
| PO114 | 0228 | Protection of Microgrid Systems: A Comprehensive Survey | Xiaoning Kang, Carl Eli Kwakutse Nuworklo, Browh Serge Tekpeti, Mostafa Kheshti |

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| PO115 | 0241 | Multi-objective combined dispatch model of wind power accommodation based on thermoelectric unit with heat storage device and electric boiler | Xiaodan Wang, Hong Li |
| PO116 | 0245 | Analysis of pole-to-pole Fault Characteristics of Flexible DC System and Design of Current Limiting Device | Yan Xu, Jingyan Liu |
| PO226 | 0248 | Coordinated Control Strategy of Hybrid Energy Storage to Improve Accommodating Ability of PV | D.L. Zhang, J.B. Guo, J.L. Li |
| PO117 | 0263 | Research on Probabilistic Optimal Power Flow of Distribution System with Multilayer Structure Based on Energy Router | Weijie DONG, Lijuan HU, Wanxing SHENG, Keyan LIU, Xiaoli MENG, Pan DENG |
| PO118 | 0281 | A method to determine spinning reserve requirement for a grid with large scale wind power penetration | J T Liu, S H Feng, K Wang, X R Guo, L Z Xu |
| PO119 | 0286 | Wind energy prediction with LS-SVM based on Lorenz perturbation | Yagang Zhang, Penghui Wang, Chenhong Zhang, Shuang Lei |
| PO120 | 0306 | Collaborative Control Strategy of Power Electronic Transformer and Fault Current Limiter in DC Microgrid | L Kong, H Nian |
| PO122 | 0317 | Capacity Credit of Renewable Distributed Generation in Distribution Generation Systems Considering the Impact of Demand Response | B Zeng, X Wei, J Feng, Z Liu |
| PO123 | 0325 | Load Frequency Control in Multiple Microgrids Based on Model Predictive Control with Communication Delay | X Wang, Q Zhao, B He, Y Wang, J Yang, Q Zhou |
| PO124 | 0329 | Locating Optimal Support Generation Units Based on Polynomial Approximation of Post-contingency Static Stability and Security Region Boundaries | Y Qiu, Z Luo, B Chen, Q Zhao, B Xia, H Wu, Y Song |
| PO125 | 0332 | Identification of Vulnerable Lines in Large Power Grid Based on FP-growth Algorithm. | Shengbo Jiang, Xueli Pan, Yi Xiao, Qiangming Zhou, Miao Li, Jun Yang |
| PO126 | 0333 | Planning of Electric Vehicle Charging Station Based on Queuing Theory | Jie Zhu, Yixin Li, Jun Yang, Xianglong Li, Shuang Zeng, Yanxie Chen |
| PO127 | 0337 | Optimal scheduling of power system with photovoltaic power supply considering regional carbon trading | ZHANG Wei, SUN Po |
| PO128 | 0341 | Accurate fault location of complex distribution network with distributed generators | W J Li, C X Guo, Y Jin, X Gong |
| PO129 | 0350 | The Method of Calculating the Maximum Transmission Capability with Unified Power Flow Controller | Jiankun Liu, Ningyu Zhang, Xinyao Zhu, Ke Xu, Zhe Chen |

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| PO130 | 0363 | A PPSO Method for distribution network reconfiguration considering the stochastic uncertainty of WT, PV AND LOAD | Huayi Wu, Ping Dong |
| PO131 | 0368 | Capacity configuration optimization for stand-alone microgrid based on an improved binary bat algorithm | Siqing Sheng, Jingjing Zhang |
| PO132 | 0370 | Research on DC Infeed Ratio of Receiving Grids with Renewable Energy under Frequency Stability Constraint | Yingchun Qian, Dajun Si, Facai Xing, Huanfeng Dong, Mingyuan Guan, Zheng Xu |
| PO133 | 0382 | Emulating the features of conventional generator with virtual generator technology: an overview | Xiangping Kong, Jingjuan Pan, Xinyue Gong, Peng Li |
| PO134 | 0409 | A method of adapting to grid recovery in extreme weather conditions | Gang Luo, Chongru Liu, Yinguo Yang, Feng Qian, Qingang Duan, Yunhao Zhao |
| PO135 | 0410 | Study on Harmonic Transfer Characteristics of MMC-HVDC Systems | Li rong, Wen jun, Liu ruoxi, Yan han, Cui kangsheng |
| PO136 | 0413 | A Three-Phase Dynamic Phasor Model of HVDC Systems | Gang Luo, Chongru Liu, Feng Qian, Yinguo Yang, Junlei Liu, Yunhao Zhao, Wei Xu |
| PO137 | 0423 | Modelling of Multi Wind Farms Output Correlation Based on Copula Theory | Yang Pan, Libao Shi, Yixin Ni |
| PO138 | 0440 | A traveling-wave-based method for fault location in multi-terminal DC networks | Q Z Lin, G M Luo, J H He |
| PO139 | 0443 | Research on penetration of distributed generation considering fluctuation and load frequency characteristics | Jianfang LI, Xiaohui Song, Fei Gao, Shanshan Zhao, Yu Zhang |
| PO140 | 0453 | Design of a novel voltage regulating distribution transformer with a power electronic assisted booster system | Guiyang Jin, Keji Yang, Jun Liu |
| PO141 | 0483 | A New Adaptive Voltage Protection Scheme for Distribution Network with Distributed Generations | D S Wang, S L Zhao, S Zhang, S Z Song, J Ma, W B Zhang |
| PO142 | 0484 | A bilateral collaborative operation optimization model in integrated multi-energy system | Yueqiao Li, ChunXiao Wei, DaPeng Guo, WenXia Liu, XingLiang Chen |
| PO143 | 0500 | An improved modulation method of modular multilevel converter | P Qiu, F Xu, Y Lu, J H Li, G R Liu, H Q Xiao, S J Wang, Z Xu |
| PO144 | 0508 | Air Conditioner Fast Dispatching Model Based on Load Aggregator and Direct Load Control | X W Wang, Y F Gong |
| PO145 | 0517 | Application of MMC-UPFC in the 500kV Power Grid of Suzhou | Peng Li, Yiyu Wang, Changyou Feng, Jinjiao Lin |

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| PO146 | 0535 | A scheme to improve the load characteristics in dc distribution networks based on optimal allocation of energy storage systems | G B Song, X H Huang, T Wang, Y B Gu |
| PO191 | 1000 | Study of Demand Response Measures and Its Quantitative Effects in Promoting Renewable Energy Accommodation in High Proportional Renewable Energy Scenario | LI Xiaofei, HUANG Yuehui, YANG Shuo |
| PO219 | 0493 | A Bi-Level Two-Stage Stochastic SCUC for ISO Day-Ahead Scheduling Considering Uncertain Wind Power and Demand Response | NW Gong, XJ Luo, DY Chen |
| PO224 | 0918 | Research on Optimal Storage Capacity of DC Micro-grid System in PV Station | WU MING, SUN LIJING, ZHANG HAI, WANG WEI, LUO GUOMIN |
| PO055 | 0107 | Cross Coupling over Frequency and Sequence in Impedance Modeling of Grid-Connected Inverter | Y Y Xu, H Nian, G D Xu, J X Qiu |
| PO056 | 0229 | A Prediction Method of PV Output Power Based on Cloud Model | Zhong Chen, Songyang Che, Yan Xu, Dapeng Yin |
| PO057 | 0324 | A Representational Learning Approach for Power System Transient Stability Assessment Based on Convolutional Neural Network | Bendong Tan, Jun Yang, Xueli Pan, Jun Li, Peiyuan Xie, Ciling Zeng |
| PO058 | 0392 | Robust Optimization for AC-DC Power Flow Based on Second-Order Cone Programming | Y Zhou, Y Tian, K Y Wang, M Ghandhari |
| PO059 | 0463 | Research on Transformer Winding for Deformation Fault Diagnosis Based on K-fault Diagnosis Method | J J Lin, H Z Chen, X Y Gao |
| PO060 | 0530 | An Analysis Method of Feeder Partition Capacity Considering Power Supply Security and Distributed Generation | W F Wang, Z J Cao, K .Sun, D He, Y J Sun, C X Li, M Sun, S F Dong |
| PO061 | 0717 | Bifurcation Analysis of The Islanded Microgrid with Constant Power Loads | Yifan Hu, Yelun Peng, Zhikang Shuai |
| PO062 | 0770 | Controllable Powers Range and Control Method of DFIG for Transient Stability of Power System | D Zheng, J Ouyang, X Xiong |
| PO063 | 0818 | Equivalent modelling of wind farm for small signal stability analysis in weak power system | X He, H Geng, G Yang, X Zou, Y Li |
| PO064 | 0828 | Cooperative games based method to determine the weights of load forecasting solution incorporated with various algorithms | VietCuong Ngo, Wenchuan Wu, Yi Yang, Boming Zhang |
| PO065 | 0859 | The control of grid connected converter based on model prediction control under unbalanced grid voltage | Lifan Niu, Zhen Xie, Hui Yang, Xing Zhang |
| PO225 | 0702 | The Optimal Scheduling Model of Wind Power Generation Considering the Participation of Electric Vehicle Batteries | Feng Liang, Wu Kuihua, Wu Jian, Sun Wei, Yang Bo, Wang Jian, An Peng |
| PO227 | 0023 | A New HVDC Topology Structure Using Existing AC Cable Lines for Integrating Renewable Energy Sources | F Xu, X H Xuan, Y Lu, P Qiu, D Z Jiang, Q Chen |

09:30 – 13:00 & 14:00 – 17:30, 20th October 2017

Poster Presentation

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| PO066 | 0498 | Research on Five-phase Induction Motor System Control with Third Harmonic Current Injection | Zhu Peng, Qiao Mingzhong, Wei Yongqing, Xia Yihui |
| PO067 | 0529 | Study on fault characteristics of full power inverted sources and its short-circuit current calculation model. | C Zhang, J Zeng, W Zhao, G Zhong, W Zhang, W Li, M Dai |
| PO068 | 0564 | Design and research of modular permanent magnet DC generator based on magnetic integrated transformer for offshore wind farms | Kuigang Shen, Baochang Xie, Xu Cai |
| PO069 | 0591 | Study of Wind Power Fluctuation Characteristics of Three North Regions based on Clustering Algorithm | SHUO YANG, CHI LI, XIAOFEI LI, YUEHUI HUANG, CHUN LIU, WEISHENG WANG |
| PO070 | 0612 | Design and Multi-Object Optimization of Axial Flux Interior PMSM for EV and HEV Applications | Q X Chen, D L Liang, Y B Liu, Q S Wang |
| PO071 | 0664 | Modeling of Multi VSCs in DC-Link Voltage Control Timescale for Small Signal Stability Analysis | Yunhui Huang, Binyu Xiong, Aihong Tang, Haiyan Tang, Yan Li, Yong Huang |
| PO072 | 0669 | Modeling of wind speed correlation based on entropy weighted fuzzy comprehensive evaluation | Xu Y, Liu D, Zhang Y |
| PO073 | 0681 | Research on Variable Pitch Control Strategy of Wind Turbine for Tower Vibration Reduction | Yanhui Qiao, Shuang Han, Ying Deng, Yongqian Liu, Jian Dong, Lei Pan, RunXiang Li, Bin Zhao |
| PO074 | 0683 | Clustering Based Optimization for Maximum Wind Energy Extracting of Large Scale Wind Farm | Shaokang Ma, Hua Geng, Geng Yang, Jiangbei Xi |
| PO075 | 0687 | Reactive Power Optimization of Distribution Network with Dispersed Wind Farm | Bing Xue, Jiandong Duan, Lupeng Chen |
| PO076 | 0746 | Analysis of short circuit characteristic of hybrid wind farm group based on artificial short circuit test | Peng Zhao, Jia Jing, Ruiqi Wang, Fengkui Luan, Peng Yu, Xianqiao Zhao, Guanglei Li |
| PO228 | 0781 | Positive and Negative Sequence Control of DFIG based Wind Turbines and its Impact on Grid Voltage Profile Concerning Converter Control Capability | Lun Yan, Xiaoming Yuan |
| PO077 | 0819 | Build-up Steady-State Analysis of Wind-Driven Self-Excited Induction Generators | H Li, L Chen, X Zheng, Y Luo, X Peng |
| PO078 | 0829 | Research on Application of Superconducting Fault Current Limiter in MMC-MTDC | C Lv, N L Tai, Z J Jin, X D Zheng |

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| PO079 | 0882 | Optimisation of Offshore Wind Farm Collection Systems Based on Modified Genetic Algorithm | Yujing Zhang, Zongxiang Lu, Ying Qiao, Wentao Sun |
| PO080 | 0885 | A Multi-objective Reactive Power Optimization Approach for the Isolated Grid of New Energy Clusters Connected to VSC-HVDC | S L Yin, L L Wu, W Song, X Wang |
| PO081 | 0904 | Suppression method of parallel damping controller for DFIG | F. Zhao, L.L. Wu, J.A. Zhang, X.D. Gao, H. Liu, H.J. Wang, Y.J. Yang |
| PO082 | 0936 | AC and DC fault ride through of hybrid MMC integrating wind power | Shuai Cao, Wang Xiang, Liangzhong Yao, Bo Yang, Jinyu Wen |
| PO083 | 0956 | Experimental Analysis of Noise and Vibration for Large Brushless Doubly Fed Machines (BDFMs) | Salman Abdi Jalebi, Danilo Llano, Ehsan Abdi Jalebi, Paul Malliband, Richard McMahon |
| PO217 | 0617 | The impacts of PMSG on SSR of DFIG and series-compensated power system based on the impedance characteristics | Y Li, H Liu, W Ning, H Jiang, Y Li |
| PO218 | 0627 | Study of the impact on SSR in series-compensated wind farms from different structures of power grid | Y Li, H Liu, W Ning, X Xie, Y Li |
| PO084 | 0105 | Research on Self-starting Strategy of Variable Speed Pumped Storage Units based on Model Predictive Control | L JI, Y SHAO, J SUN, L SHI |
| PO085 | 0130 | Power grid planning Based on Differential Abandoned Wind Rate | Z R Song, F Shen, Z Nan, Y B Zhang, L Zhao, X Y Deng, N Zhang, H Li, Z X Zhang, Y Wang, T Q Lu |
| PO086 | 0131 | Control Strategy for the parallel-powered system | qian chen, peng qiu, jiayi wu, yi lu, kai tong, jiazhuo xuan, feng xu, xiaoming huang, haihong yu |
| PO087 | 0152 | AC Excitation Control Strategy of Variable Speed Pumped Storage Units based on Active Disturbance Rejection Control | L Ji, J Sun, M Zhou, W Tian |
| PO088 | 0224 | Optimal configuration of energy storage system based on frequency hierarchical control in ship power system with solar photovoltaic plant | Jinrui Tang, Binyu Xiong, Yunhui Huang, Chengqing Yuan, Guoxing Su |
| PO089 | 0233 | Research on Seamless Switching Control Strategy for T-Type Three-Level Energy Storage Inverter Based on Virtual Synchronous Generator | Dan Zhang, JianGuo Jiang, Liang Zhang, BaoNan Wang, Zhongzheng Zhou, HongLiang Li |
| PO090 | 0251 | Comprehensive Recourse Strategic Planning for the Integration of Variable Renewable Electricity | Xiao PAN, WenJuan LIU, YuFei JIN, XinYang DENG |
| PO091 | 0252 | An Advanced Microgrid and Its Multi-objective Regulation Strategy For Shore Supply | Moduo Yu, Wentao Huang, Nengling Tai, Xiaodong Zheng, Zhoujun Ma, Yong Wang |
| PO092 | 0283 | Evaluation the capacity of Power and energy balance for Cascaded H-Bridge Multilevel Inverter using different PWM Techniques | Abuzaid Saeed Gadalla, Xiangwu Yan, Sara Yahia Altahir, Hashim Hasabelrasul |

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| PO093 | 0339 | Optimal accommodation and management of high renewable penetration in distribution systems | Nand K. Meena, Anil Swarnkar, Nikhil Gupta, K. R. Niazi |
| PO094 | 0501 | Model Predictive Control Considering Scenario Optimization for Microgrid Dispatching with Wind Power and Electric Vehicle | Xiaogang Guo, Zhejing Bao, Hongji Lai, Wenjun Yan |
| PO095 | 0552 | An Energy Management Strategy for Microgrids Including Heat Pump Air-conditioning and Hybrid Energy Storage Systems | Jinxiao Shi, Wentao Huang, Nengling Tai, Peng Qiu, Yi Lu |
| PO096 | 0691 | A Modified Elephant Herding Optimization for Economic Generation Co-ordination of DERs and BESS in Grid Connected Microgrid | Sonam Parashar, Anil Swarnkar, Nikhil Gupta, K R Niazi |
| PO097 | 0719 | A Hybrid Cooperative Control Method for Microgrid with Large Generation or Load Fluctuations | Q Lv, G Yang, H Geng, X B Zhang |
| PO098 | 0728 | Accuracy Improvement of Remaining Capacity Estimation for Energy Storage Batteries | Cheng Xu, Guo'an Liu, Kangli Wang |
| PO099 | 0734 | Research on Smart Tracking Strategy of Wind Power and Energy Storage Combined Generation System based on Three Stage Rolling Optimization | Linlin Wu, Hui Liu, Kai Bai |
| PO100 | 0753 | Comparison of Centralised and Distributed Battery Energy Storage Systems in LV Distribution Networks on Operational Optimisation and Financial Benefits | Zhi Qiao, Jin Yang |
| PO101 | 0790 | Output Characteristics of LCC-S Compensation Network and Its Optimal Parameters Design in IPT System | Bo Li, Jiang-Hua Lu, Wen-Jing Li, Jin Wang, Guo-Rong Zhu, G Ranjith Kumar |
| PO102 | 0815 | An Improved Power Allocation Strategy of Hybrid Energy Storage System in DC Micro-Grids | Xiaoyong Chang, Fufeng Chen, Yuping Li, Yuting Wang, Chengji Xu |
| PO103 | 0836 | Coordinated Operation Strategy of Hybrid Storage System in Wind Power Peak Shaving Scenarios | Jun Wu, Ying Qiao, Zongxiang Lu, Wenqi Li, Liang Sun |
| PO104 | 0952 | Modeling and Control of Doubly-Fed Variable-Speed Pumped Storage Units for Grid Power Regulation | Guopeng ZHAO, Qiang ZHAO, Jiyun REN, Xiaofang SONG, Minxiao HAN |
| PO105 | 0953 | Power Requirement and Control Characteristics of Energy Storage Equipment in Microgrid operating in Island Mode | Guopeng ZHAO, Xinwei ZHOU |
| PO149 | 0545 | A dispatching approach for active distribution network considering PV generation reliability and load predicting interval | Yiqiang Ying, Yingjun Wu, Yiqiang Su, Rong Fu, Xinyi Liang, Hao Xu |

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| PO150 | 0547 | Situation awareness of power system based on static voltage security region | Fei Xiao, Ziqing Jiang, Qian Ai, Ran Hao |
| PO151 | 0548 | A Strategy to Smooth Tie-line Power of Microgrid by Considering Group Control of Heat Pumps | Jinxiao Shi, Wentao Huang, Nengling Tai, Qin Zhu, Dawei Liu |
| PO152 | 0554 | Research on Small-signal Stability of Hybrid Multi-terminal HVDC System and Control System Parameter Design | Zhang Hailin, Yao Shujun, Zhan Peng |
| PO153 | 0559 | Fault Recovery for Distribution Network with Distributed Generation | Wei Ba, Yuming Yan, Kangda Wang, Bingqing Wu, Zhenghong Chen, Xueying Wang |
| PO154 | 0563 | Control Strategy For Wind Power Integration Base on Energy Demand Respond and Distributed Energy Storage | Xu YAN, Xiqiao LIN, Lijuan QIN, Shuai HAN, Like GAO, Yiyun YANG, Bo ZENG |
| PO155 | 0566 | A Decentralized Method for Solving Multi-area Stochastic Dynamic Economic Dispatch Problem | W M Zhao, B R Zhou, M B Liu, W F Yao, S Y Lu, T Wang |
| PO156 | 0575 | Maximising wind generation through optimised operation of on-load tap changing (OLTC) transformers in active distribution networks | D Danzerl, S Gill, O A Lara |
| PO157 | 0608 | Research on the Demand Response Strategy of the Electricity Deviation Assessment | Sibo Song, Hongxia Guo, Ping Yang, Zhirong Xu, Ting He, Zhilin Lu |
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