

# Paper Oral Session Details

Paper Oral Session 1: Oct.24th, Sunday 15:00 - 19:00, On line room 1

Paper Oral Session 1: A.Renewable Energy Grid Interconnection			
Time & Place: Oct.24th Sunday 15:00 - 19:00, On line room 1			
Paper Number	Oral Number	Author	Title
345	POA-001	Lei Zhang, Baifu Zhang,Xiaoqing Han,Yi Zhang,Chunguang Ren,Lei Wang,Jiansheng Kong,Bin Wei	Resonance Characteristics and Resonance Suppression Method for Multi-Parallel LCL-Type Inverters
352	POA-002	Canbing Li,Jin Wang,Long Zeng,Xing Zhang,Ran Li,Wentao Huang	Coordinated Frequency Control Strategy of PMSG-Based Offshore Wind Farm via VSC-HVDC Transmission System
1012	POA-003	Yang Hu,Fusuo Liu,Wei Li,Zhaohui Qie,Zhongqing Sun,Hui Huang,Jianjun Zhu,Jinyou Meng	Research on Stability Control Strategy of AC/DC Parallel Transmission System Based on the uncertainty analysis of transient shock fault shape
1026	POA-004	Meng Li, Jiaxing Ning, Jinghan He	Model Recognition Based Arc Extinction Time Recognition Strategy for True Bipolar Flexible HVDC Systems
1030	POA-005	Shengwen Li,Jinhao Wang,Xiaoqian Chen,Wenping Qin,Yizhao Liu,Zhongjie Wang,Yang Yang,Yong Ren	Research on protection method of medium voltage DC distribution network
23	POA-006	Guanghui Sun,Siyuan Wang,Xiaobu Jia,Wenchuan Wu,Shaobo Li	Evaluating Stochastic Flexibility Model of Vehicle Charge Stations in Distribution Network
70	POA-007	Bin Ding,Zhikun Xing,Fan Wang,Bo Yuan,Jiaming Cai	Diversified Connection Cascade Planning for Intelligent Medium Voltage Distribution Network in Xiongan New Area under High Reliability Positioning
80	POA-008	Fan Wang,Bin Ding,Shujun Zhao,Jie Liu,Jiaming Cai,Yunhui Chen	Bi-level Planning Model of Urban Diamond-type Distribution Network Considering Load Uncertainty
196	POA-009	Lingming Kong,Hongcai Zhang,Ningyi Dai	Spatial-temporal Optimal Scheduling of Electric Bus Transit System for Active Distribution Network with Soft Open Point
325	POA-010	Ke Wang,Wenping Qin,Yu Zhang,Zhilong Zhu,Shaokai Xue,Xiang Jing	Mechanism of the Influence of Inertia Control Scale Factor of Doubly-Fed Induction Generator on System Power Angle Stability
330	POA-011	Qiyuan Cai,Nan Zheng,Keren	Collaborative Planning of Distributed Generation

		Chen,Wanqing Chen,Yuanfei Li,Jiawei Cai	and Distribution Network Considering Dynamic Reconstruction of Grid
346	POA-012	Chen Yutian,Xiuli Wang,Xuanyue Shuai,Zhenzi Song	Peer-to-Peer Electricity Trading for Prosumers in Distribution Network: A Nash Bargaining Approach
386	POA-013	Qigang Wu,Fei Xue,Xiaoliang Wang,Shaofeng Lu,Bing Han,Lechuan Piao	Planning of Virtual Microgrids by Integrated Partition and DER Allocation
413	POA-014	Sicheng Liu,Libao Shi	A Solution of Distribution Network Reconfiguration with Wind Power Using Improved ACO Algorithm
440	POA-015	Hongxing Wang	A DC-collector Topology and its Application for Wave Energy
628	POA-016	Xinfang Zhang,Hao Li,Lei Wang,Yizhao Liu,Fangda Wang	Comprehensive evaluation of AC-DC distribution network in photovoltaic-energy storage charging station based on AHP-TOPSIS method
702	POA-017	Jiawei Zhao,Hayang Yu,Guangchao Geng	TransOS-ELM: A Short-term Photovoltaic Power Forecasting Method based on Transferred Knowledge from Similar Days
832	POA-018	Qian Xiao,Wenbiao Lu,Yu Jin,Huiqiao Liu,Yunfei Mu,Xiaodan Yu,Hongjie Jia	An Improved Master-Slave Control Strategy for Medium Voltage DC Distribution System
864	POA-019	Ke Liu,Yanli Liu	Spatial-Temporal Distribution Characteristics of Electric Vehicle Charging Load Considering the Traffic-side Intersection Delay
905	POA-020	Mingchao Xia,Te Wang,Qifang Chen,Fangjian Chen,Liu Yang	Real Time Operation Strategy Of Charging Station Based On Electric Vehicle Schedulable Time
936	POA-021	Lyu Cheng,Youwei Jia,Mengge Shi,Zhao Xu	Integrating Peer-to-Peer Energy Trading of Microgrids into Deregulated Electricity Market by Cascaded Model Predictive Control
950	POA-022	Bangyan Wang,Xiuli Wang,Zhenzi Song,Likai Zhang,Shuai Wang,Chaoshan Xin	Fault State Operation Analysis for Offshore Wind Farm with Ring-Topology Collector System: An OPF and Topology Optimization Method

## Paper Oral Session 2: Oct.24th, Sunday 15:00 - 19:00, On line room 2

Paper Oral Session 2: B.Smart Grid Security			
Time & Place: Oct.24th Sunday 15:00 - 19:00, On line room 2			
Paper Number	Oral Number	Author	Title
114	POB-008	Botao Hou,Guo Yuling,Xi Bo,Yuqian Zhang,Qinglai Guo,Hongbin Sun	Information Flow Based Cyber-Physical Power System Modeling and Simulation
129	POB-009	Jie Hu,Qiuye Sun,Meina Zhai,Danlu Wang	Privacy-preserving Voltage Consensus Control for Heterogeneous Energy Storage Systems in Islanded Microgrids Based on Virtual Node Mechanism
626	POB-010	Keyan Liu,Dongli Jia,Ruikai Song	Simulation of Battery Energy Storage in Cyber Physical Systems Using Different Converter Models
793	POB-011	Xiaoxin Sun	An Efficient Security Scheme for Charging Piles
165	POB-012	Yihua Zhu,Dongxu Chang,Qi Guo,Hengdao Guo,Binjiang Hu,Mingkang Wu,Yukun Zhu,Duo Yu	Research and Implementation of Real-time Accurate Simulation Platform for Large-scale Stability Control System
181	POB-013	Peng Sun,Jun Yao,Sen Huang,Luo Yi,Xin Fang	Dynamic Stability Analysis and Improved Control Strategy of DFIG System during LVRT
207	POB-014	Meng Li,Heng Nian,Bin Hu,Yuming Liao,Jun Yang,Lingxiao Wei	Research on the Influence of Phase Locked Loop Nonlinearity on Impedance Measurement for Stability Analysis
272	POB-015	Guannan Wang,Jun Zhang,Wenchao Zhang,Haitao Liu,Xiwen Cui	Research on Transient Stability Analysis of Wind-Photovoltaic-Thermal-bundled Power Transmitted System
277	POB-016	Tingyi He,Shengnan Li,Lei Chen,Kaibin Li,Cheng Guo,Wei Huang	Distinction and Conversion Between Frequency Oscillation Mode and Rotor Angle Oscillation Mode
309	POB-017	Zhe Lv,Huaichang Ge,Qinglai Guo,Hongbin Sun,Bin Wang,Wei Chai	Impact Evaluation of HVDC System Control on Short-term Voltage Recovery Characteristics of Receiving-end Grid
460	POB-018	Yu Zhang,Wenping Qin,Wang Ke,Zhilong Zhu,Shaokai Xue	DFIG Multi-time Scale Control Characteristics and Simplified Modeling
548	POB-019	Zhilong Zhu,Wenping Qin,Yu Zhang,jiayu Li	Stability Analysis of DFIG Grid-connected Based on Variable Gain Inertia Control
568	POB-020	Ziniu Wu,Runquan Meng,Rui Cao	Research on Multi-peak MPPT of Photovoltaic Array Based on Quantum Genetic Algorithm
589	POB-021	Dundun Liu,Hongcai Zhang,Yonghua Song	Robust Transmission Expansion Planning Considering Massive N-1 Contingencies with

			High Proportion of Renewable Energy
612	POB-022	Jinquan Zhao,Zelin Zhao,Yaoliang Zhu,Ersheng Pan,Weiyong Jiang,Fei Wang,Decao Xu	Optimal Configuration of Synchronous Condenser to Suppress High Voltage Tripping of Renewable Energy Generators in DC Sending-End Power System
627	POB-023	Yanjie Hu,Hanwen Gu,Zaibin Jiao	Online Assessment Method of Switching Overvoltage Risk Using the Participation-Factor-Based Reduced-Order State-Space Model
637	POB-024	Wenkai Yuan,Laijun Chen,Tianwen Zheng,Xiaodai Xue	Distributed Optimal Dispatch for Power System Considering Privacy Preservation and Transient Stability Constraint
907	POB-025	Yiming Wang,Huadong Sun,Shiyun Xu,Jingtian Bi,Shuyan Wang,Xinyuan Liu	Key Influence Factor Analysis Related to the Transient Process of Grid-Connected VSC System
973	POB-026	Chenyong Xu,Yang Liu,Zehui Lin,Zhongyang Chen,Yanshan Chen,Kaishun Xiahou	Frequency Stability Enhancement Of Wind Power Penetrated Power System By Switched Control of Battery Energy Storages
988	POB-027	Guangzeng You,Peng Sun,Yanming Zhu,Zheng Yan,Xiaoyuan Xu,Wang Han,Pengfei Han	Correlation-based Bad Data Detection of PMU Measurements for Improving Network Structure with High Penetration of Renewable Energy
998	POB-028	Xing Zhang	EMT Modelling and Overvoltage Analysis of Renewable Energy Generation Grid-connected System
1008	POB-029	Qiong Liu,Ye Guo,Lirong Deng,Wenjun Tang,Hongbin Sun,Wenqi Huang	Robust Offline Deep Reinforcement Learning for Volt-Var Control in Active Distribution Networks

### Paper Oral Session 3: Oct.24th, Sunday 15:00 - 19:00, On line room 3

Paper Oral Session 3: C.ICT Application in Energy Internet & B.Smart Grid Security			
Time & Place: Oct.24th Sunday 15:00 - 19:00, On line room 3			
Paper Number	Oral Number	Author	Title
104	POC-001	Zhewen Niu	A Data-Driven Method for Electricity Theft Detection Combing ConvGRU and K-means Clustering
152	POC-002	Keyan Liu,Xueshun Ye,Qunfei Wang,Muke Bai,Tianyuan Kang,Li Zhao	Single Phase Arc Grounding Fault Line Selection Method for Distribution Network Based on Random Forest Algorithm
391	POC-003	Jie Sheng,Kun Zhang,Xihui Wang,Jinhao Hu,Xinrui Yao,Hualin Huang	Application and Prospect of Deep Learning in New Energy Power System
660	POC-004	Bo Liu,Yufan Hou,Wenpeng Luan,Zishuai Liu	Online load data compression and reconstruction based on segmental SAX
821	POC-005	Yibin Guan,Yihang Gao,Peng Li,Xiaochun Xu,Xian Xu,Youwei Li	Grid voltage control with new energy, energy storage, and flexible load based on combined model and improved MPC
949	POC-006	Zhong Xu,Heping Peng,Le Luan,Yong Wang,Wenxiong Mo	Sensitivity Analysis of Influencing Factors of Power Failure in Distribution Network based on Big Data of Distribution Network
997	POC-007	Wei Hu,Qiuting Guo,Wang Wei,Weiheng Wang,Shuhong Song	Research on User- transformer Relationship Based on Improved Dynamic Time Warping Algorithm
1010	POC-008	Yi Wang,Chunwei Ma,Bochao Zhao,Wenpeng Luan	Non-intrusive Electric Vehicle Charging Load Disaggregation based on Independent Component Analysis with Reference
32	POC-009	Hailong Zhang,Xuan Liu,Enguo Zhu,Li Ran,Yi Ren,Yingjing Zhang	Efficient Application of CSMA in HPLC Networks for Energy Internet
264	POC-010	Zhiyuan Li,Mo Chen,He Liu,Wei Zhou,Hui Yu,Yuqiu Lei	Development of Leakage Current Monitoring Senors of MOV for UHV/EHV Series Capacitors
673	POC-011	Song Miao,Zhanxia Wu,Benhai Wei,Yunhui Yi,Anhui Leng,Xiaorong He	An Autoencoder-OFDM Power Line Carrier Communication System Based on Deep Learning
785	POC-012	Zhichun Yang	Analysis on the construction and application of intelligent distribution transformer terminal in Hubei Province
926	POC-013	Fei Jiao,Xinying Wang,Rixiao Zhao,Fengkui Liu,Qingkai Sun,Xiaojun Wang	Unit output optimization of integrated energy system based on digital twin and reinforcement learning

972	POC-014	Jin Gao,Jiping Qiao,Zichen Yue	Power quality compression method based on improved observation matrix
153	POC-015	Jun Lin,Xujie Wang,Xiangwei He,Jing Shi,Hao Li	Sectionalizer-Recloser Feeder Automation Approach Based on 5G Communication
116	POB-001	Yang Jun,Heng Nian,Hu Bin,Li Meng,Liao Yuming,Libin Yang	Stability Analysis and Comparison of DC Power System with Different Droop Control Methods
446	POB-002	Long Zhao,Yuan Wang,Peifen Cheng,Wensheng Li,Qingzhi Jian,Hao Zhu,Haipeng Xie	A Component Reinforcement Method Based on DAD model for Transmission Systems
531	POB-003	Fengshuo Yu,Wei Wang,Hongbin Sun,Qinglai Guo,Zhaoguang Pan,Wang Bin,Cheng Gong	Emergency Control Strategy of Gas-electric Coupling System Based on Dynamic Valve Model
549	POB-004	Zhiwen Cai,Yongguang Ye,Weiwen Li,Zhe Chen,Ying Gao,Jie Zeng	Research on Grounding Methods of DC Microgrid Based on Power Supply Connectivity and Reliability
696	POB-005	Rui Li,Ting Wang,Sajia Lin,Guangjia Zhang,Weiguo Yu,Junjun Pan,Hanxing Luo	Design and Application of Virtual Stability Control Device Platform
944	POB-006	Xuetao Yang,Dunwen Song,Kaixin Liu,Shiying Ma,Yong Chen	Design and Development of Power System Configuration Simulation Platform and Its Application in Intelligent Mode Arrangement
964	POB-007	Yirui Zhao,Yijia Cao,Yong Li	A Substation-based Defender-Attacker-Defender Model for Robust Substation Hardening Resouce Allocation

## Paper Oral Session 4: Oct.24th, Sunday 15:00 - 19:00, On line room 4

Paper Oral Session 4: D.Market Mechanism and Policy Supporting Energy Internet &A. Renewable Energy Grid Interconnection			
Time & Place: Oct.24th Sunday 15:00 - 19:00, On line room 4			
Paper Number	Oral Number	Author	Title
40	POD-001	Nan Shang,Siyang Sun,Xiang Zhang	Optimal Dispatch Model considering Flexible Demand Resources and Bidding Uncertainty of Distributed Generation
187	POD-002	Hengguang Fan,Xiaoqing Han,Kejiang Li,Tianhao Song	Electricity price prediction based on empirical mode decomposition and minimum gated memory network quantile regression
252	POD-003	Peipei Yu,Hongxun Hui,Hongcai Zhang,Chao Huang,Yonghua Song	Frequency Regulation Capacity Offering of District Cooling System based on Reinforcement Learning
284	POD-004	Jiangfeng Zhang,Jiantao Shi,Ye Su,Min Lu,Xinwei Shen,Liling Gong,Ye Guo	A Co-optimization Mechanism of Energy and Multiple Ancillary Services with High-Penetration Renewables
836	POD-005	Bohong Wang,Qinglai Guo,Hongbin Sun,Qiang Li,Yongqing Liu,Xuan Wang	Comprehensive Analysis of Data Value and Its Properties in Electricity and Data Transactions
899	POD-006	Longfei Tian,Jinqiu Liu,Zhao Bochao,Wenpeng Luan	An investigation on electricity consuming features for user classification in demand-side management schemes
992	POD-007	Songnan Yu,Nian Liu	Coordinated Optimization of Energy Sharing and Voltage Regulation Service for PV prosumers in the Distribution Network
291	POD-008	Xingyue Jiang,Sun Chuan,Lingling Cao,Ngai Fong Law,Ka Hong Loo	Review and Comparative Study of Energy Routing Algorithms for Energy Internet
919	POD-009	Yue Feng	Analysis and Design of a Novel Single-Sided Flux Pad for Dynamic WPT System
975	POD-010	Yubin He,Yongquan Nie,Chaoyi Peng,Mingtao Liu,Xionghua Shi,Jun Xie	Carbon Trading Based Short-Term Production Simulation of Wind Power Integrated System
1011	POD-011	Kaicheng Shen,Can Wan,Changfei Zhao,Biao Li,Yanbo Jia	Peer-to-Peer Energy Trading Considering Security Constraints in Distribution Networks
35	POA-040	Xiaodong Zheng,Baorong Zhou,Yiping Chen	Extremal-Distribution-Based Cutting Plane Algorithm for Efficiently Solving Two-Stage Distributionally Robust Unit Commitment Problems
68	POA-041	Guorong Wang,Haibo	Optimal Configuration of Energy Storage Systems

		ZhangKai Wei,Xianfu Gong	Considering the Risk of Insufficient Flexibility
180	POA-042	Yuting Li,Hao Su,Xiaoxi Chen,Jiahua Liu,Ruifeng Shi	A V2G Scheduling Strategy Based on Electric Vehicle Users' Willingness Model
257	POA-043	Zhenzi Song,Xiuli Wang,Tao Qian,Yifei Wang,Xuanyue Shuai,Kaiying Li	Economic Dispatch of Low-Carbon Energy Center based on CO2 Electrolysis Technology
360	POA-044	Liang Huang,Hao Chen,Dong Xie,Yanbing Jia,Feng Tian,Yun Bai	Control Strategy of hybrid Energy Storage in Large-scale Wind Farm
641	POA-045	Shuwei Xu,Wenchuan Wu,Yong Sun,Baoju Li,Jiyue Fu,Bin Wang	MIQP Reformulation and Reliable Solution of Stochastic Economic Dispatch

### Paper Oral Session 5: Oct.24th, Sunday 15:00 - 19:00, On line room 5

Paper Oral Session 5: E.Key Equipment of Energy Internet			
Time & Place: Oct.24th Sunday 15:00 - 19:00, On line room 5			
Paper Number	Oral Number	Author	Title
662	POE-001	Ruoqi Zhang	A Novel Load Recognition Strategy Embedded in Power Control Loop for Multi-Port Energy Router
857	POE-002	Guanfei Hao,Chunguang Ren,Baifu Zhang,Jiansheng Kong,Dongxin Guo,Xiaoqing Han	A Control Strategy for T-Type Three-Level Converter to Suppress Neutral Point Voltage Fluctuation
991	POE-003	Yumeng Shao,Sizhao Lu,Chen Ma,Yaqi Liu,Siqi Li	A New Power Electronic Transformer for 10kV Distribution Grid Based on Three-phase Four Arms H-bridge Modular Multilevel Converter
462	POE-004	Yingying Ding,Runquan Meng,Baifu Zhang,Yufeng Li,Tao Zhang,Rui Cao	Resonance suppression method for multi-parallel inverters
894	POE-005	Jiansheng Kong,Chunguang Ren,Xinwei Wei,Yue Qin,Dongxin Guo,Baifu Zhang,Yifan Wang,Xuejin Li,Guanfei Hao,	A Control Strategy of CLLLC DC Transformers under Unbalanced AC Voltage Conditions in Hybrid Microgrids
925	POE-006	Zhuoyan Guo,Runquan Meng,Rui Cao,Hao Zhang	A novel closed-loop control for flexible interconnecting switches
13	POE-007	Chongbo Sun,Kai Yuan,Yi Song,Shigong Jiang,Qingxi	The decay characteristics based capacity configuration method for user side battery energy



		Li,Danlei Hu	storage
82	POE-008	Hongrui Wu,Song Zhao,Bei Li,Meng Niu	Control method of electric vehicle virtual energy storage participating in power grid peak shaving based on predictive modeling
112	POE-009	Dongxin Guo,Jinjie Tian,Yanbing Jia,Panbao Wang,Chunguang Ren,Yue Qin,Jiansheng Kong,Xiangqi Meng,Zeqi Wang,	An Advanced Control Strategy for Bidirectional Isolated Three Phase AC/DC Dual-Active-Bridge Converter in Hybrid Microgrid
154	POE-010	Hongdong Xiong,Teng Li	Joint Control Based on Virtual DC Machine and Predictive Model for Hybrid Energy Storage System
157	POE-011	Jianlin Li,Zhe Wang,Suliang Ma,Yaxin Li,Yi Wen Wu,Dezhi Xu	Estimation of battery state of health based on Random weight PSO-ELM
242	POE-012	Hao Cong,Chenxu Yin,Xuli Wang,Liuzhu Zhu,Bin Ye,Lei Wang,Yichao Ma	Modeling and Optimal Control of Hydrogen Fuel Cell Cogeneration System
246	POE-013	Quanyi Chen,Xuan Zhang,Pengbo Nie,Siwei Zhang,Guodan Wei,Hongbin Sun	A Thermal Simulation and Prevention Control Framework for Lithium-ion Batteries
287	POE-014	Shuran Liu	Benefits of Variable Speed Pumped Hydro Storage Technology for Increasing Renewable Integration in Regional Power Grids
485	POE-015	Han Wu,Yanbing Jia,Xiangqi Meng,Pei Zhao,Junyi Shi,Hao Xue	An Innovative Deep Reinforcement Learning Controller for DC/DC DAB Converters Based on Deep Deterministic Policy Gradient
530	POE-016	Tian Mao	An Economic Evaluation Method for New Energy Station Configuring with Energy Storage
697	POE-017	Xiaoming Zheng,Chunhui Li,Yunfeng Ma,Liang Tian	Overview and Prospect Analysis of the mechanical elastic energy storage technology
699	POE-018	Haibiao Chen,Songyan Niu,Ziyan Zhao,Linni Jian	Wireless Power Transfer in Over-Coupled Region:Analysis on Frequency Splitting and Multi-Mode Frequency Selection Methods
863	POE-019	Shaofeng Bai,Xingsheng Liu,Taoyong Li,Yuanxing Zhang,Lili Wu,Deji Geng,Bowen Li	Comprehensive evaluation of the large-scale charging pile based on the cloud platform
978	POE-020	Yifan Xu,Fushuan Wen	An Opportunity Cost Based Replacement Strategy for Transformers
1006	POE-021	Yongji Ma,Xiaohan Shi,Leiyu Ni,Kexin Yang,Wendi Ding,Lijun Jin	Design of Cold Chain Container Energy Storage and Conversion System Based on Modularization

1032	POE-022	Yi Yang	Design and Implementation of FPGA based Boost Half Bridge DC-DC Multiphase Converter
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**Paper Oral Session 6: Oct.24th, Sunday 15:00 - 19:00, On line room 6**

Paper Oral Session 6: F.Business Model of Energy Internet & A.Renewable Energy Grid Interconnection			
Time & Place: Oct.24th Sunday 15:00 - 19:00, On line room 6			
Paper Number	Oral Number	Author	Title
824	POF-001	Chen Chen,Laijun Chen,Hengrui Ma,Xiaodai Xue	A Bilayer Daily Load Curve Clustering Method Based on Short-Time Cross-Correlation
858	POF-002	Tylor Slay	Incentivizing Distributed Energy Resource Participation in Grid Services
232	POF-003	Weijian Qin,Tao Zhang,Zhichao Shi,Hong Huang,Huihui He,Wenhua Li	Scheduling and Routing of Mobile Charging Vehicles for Unmanned Aerial Vehicles Charging
300	POF-004	Bin Zou,Hongcai Zhang,Ge Chen	Optimal Power Scheduling of Data Centers with Deferrable Computation Requests
572	POF-005	Yong Wei,Zhengying Liu,Tingting Yang,Jianjun Tuo, Meiyi Li,Jichuan Yan,Fei Wang	Day-ahead Probabilistic Forecasting of Achievable Incentive-based Demand Response Potential for Load Aggregator
912	POF-006	Hao Hu,Fuyou Sun,Guo Wei,Lei Wang	Net-Zero Intelligent Energy System based on Multiple Energy Integration
46	POA-023	Yuchun Li,Jinkuan Wang,Lulu Dong,Yinghua Han	Robust optimal operation of multiple energy systems with high wind power penetration considering thermal inertia of district heating network and carbon emissions
126	POA-024	Danman Wu,Wei Wei,Shengwei Mei	Efficiency Analysis of AA-CAES Based Energy Hub Considering Combined Cooling, Heating and Power
128	POA-025	Ziwei Wang,Wenliang Yin,Lin Liu,Cunshan Zhang	Improved sliding mode control for low-voltage ride through of hybrid drive wind turbine
248	POA-026	Xuli Wang,Yu Wang,Hao Cong,Tiancheng Shi,Xin Yang,Ruosi Zhang	A Data-driven Robust Planning Method for Integrated Energy System Considering Uncertainty of Renewable Energy
276	POA-027	Xin Zhou,Xiaoqing Han,Tingjun Li,Hengguang Fan	Cost Optimization of Park Integrated Energy System Considering Combined Demand Response and Multiple Different Operating Scenarios
336	POA-028	Zhi Rao,Zaimin Yang,Wenchuan Meng,Lifeng Li,Siyang	Research of Wind Power Generation Characteristics in Southern China Based on Improved Non-parametric Kernel Density Estimation

		Sun,Wenzhi Lin	
358	POA-029	Dong Xie,Lihong Kang,Yanbing Jia,Hao Chen,Feng Tian,Yun Bai,Baifu Zhang,Xuan Cui	Low-carbon Economic Dispatch of Integrated Energy System Considering Hydrogen Mixing in Natural Gas Pipeline
398	POA-030	Tai Guo,Tian Xia,Qiang Li,Feng Zhao,Di Liu	Standardized modeling of integrated energy system for multi-scenario interaction
425	POA-031	Jinning Wang,Fangxing Li,Hantao Cui,Qiwei Zhang	Impacts of VSG Control on Frequency Response in Power Systems with High-Penetration Renewables
483	POA-032	Ankang Miao,Yue Yuan,Han Wu,Zhenjie Li	Coordinated Operation of Electricity and Natural Gas Integrated Energy Distribution Systems Considering Combined Electricity-gas Demand Response
553	POA-033	Hanbin Diao,Peiqiang Li	Robust Coordinated Operation of an Integrated Electricity-Heat System With Multi-Energy Microgrids Considering Uncertain Interactive
611	POA-034	Zhiyuan Bao,Zechun Hu,Dongyua Zhao	Optimal Multi-period Pricing and Operating of Hydrogen Refueling Stations Considering the Coupling of Transportation and Power Systems
765	POA-035	Congshan Wang,Yunfei Mu,Qingzhu Zhang,Zhipeng Tang	Planning of Park-Level Integrated Energy System Considering Uncertain Carbon Trading Price Based on Information Gap Decision Theory
778	POA-036	Wangyi Guo,Jinhui Liu,Zhanbo Xu,Jiang Wu,Kun Liu,Xiaohong Guan	Hydrogen-Based Integrated Energy System Planning Considering Temperature-Based Heat Supply and Demand Model
831	POA-037	Jianli Zhao,Zhuofan Tang,Benyuan Zhao,Peichao Zhang	Tapping the Potential in Air-conditioning Loads at Telecommunication Base Stations: A Semi-Markov Control Method
842	POA-038	Siqing Sheng,Jiaxin Zhang,Te Xiang	Comprehensive Evaluation Index System and Improvement Method for Integrated Energy System
970	POA-039	Tingzhe Pan,Yong Xiao,Lin Weibin,Jin Xin,Hongxuan Luo,Feng Junhao	Research on reactive power and voltage equalization control strategy of photovoltaic inverter cluster

## Paper Oral Session 7: Oct.24th, Sunday 15:00 - 19:00, On line room 7

Paper Oral Session 7: G.Demonstration of Energy Internet & A.Renewable Energy Grid Interconnection			
Time & Place: Oct.24th Sunday 15:00 - 19:00, On line room 7			
Paper Number	Oral Number	Author	Title
678	POG-001	Jing Liu,Xiandong Xu,Hongjie Jia,Zhaoheng Sun	A Case Study on Integrating Offshore Wind Power to Islanded Offshore Oil and Gas Field
83	POG-002	Shuyu Wang,Zhenpeng Luo,Zhang Siqing,Han Yue,Wang Xiaolong	Improved feedback compensated closed loop stator flux observer
162	POG-003	Mianzhuo Ma	Simulation study of photovoltaic array MPPT based on improved CS algorithm
428	POG-004	Huan Zhao,Gaoqi Liang,Guolong Liu,Junhua Zhao,Yan Xu	Cooperative Wind Farm Control with Hybrid-Model-Based Deep Deterministic Policy Gradient and Model Selection
527	POG-005	Bo Li,Kai Liao,Jianwei Yang,Zhengyou He	An Improved Differential Protection Strategy of DC Distribution Network with Current Limiting Reactor
585	POG-006	Yue Hui	Embedding Data Signals into Power Control Loop of Inverters for Power Line Communication in AC Microgrids
876	POG-007	Yuting Xu,Yan Shi,Kai Liu,Li Xue,Ke Chen,Weidong Wang	Analysis of Demand Response Development Situation in China
888	POG-008	Jinyu Zhu,Lan Li,Zan Zhang	Research on FL-SMC of DFIG Grid-Side Converter under Unbalanced Power Grid
929	POG-009	Yi Sui,Wang Zheng,Nannan Li,Yan Liang,Miao Wang,Yaju Wang	Research on Evaluation Model of Success Degree of Power Grid Infrastructure Project Based on Entropy Weight Method
941	POG-010	Weiwei Chai,Xinghong Liu,Guosheng Li,Haiying Dong	Research on Automatic Reclosing Device of Low-Voltage Circuit Breaker
1003	POG-011	Jun Wang,Hongyan Li	Optimal Operation of Gas-Electricity Integrated Energy Systems with Demand Response
644	POA-046	Minjian Cao,Yuhong Chang,Min Wei,Feng Zhao,Hebao Li,Zechun Hu	Dispatch Strategy for the Union of Renewable Energy Generation and Pumped-storage Hydropower Plant Considering Water Head Effects
653	POA-047	Bin Wei,Xiaoqing Han,Chunguang Ren,Baifu Zhang	Two-stage optimal dispatch for AC/DC hybrid microgrid based on model predictive control
680	POA-048	Haotian Zhao,Xuanyuan Wang,Bin Wang,Bo Ning,Zhaoguang	Cloud-Cluster Hierarchical Dispatch for Large Scale Demand-Side Distributed Resources

		Pan,Hongbin Sun,Yixun Xue	
711	POA-049	Xiang Jing,Wenping Qin,Hongmin Yao, Jiayu Li,Qian Huang,Zhilong Zhu	Optimal Configuration of Isolated Wind / Photovoltaic / Storage DC Microgrid Power Supply based on Improved Multi-Objective Spider Monkey Algorithm
918	POA-050	Ruipeng Lu	Ele-gas Coupled Integrated Energy System Power Flow Calculations For Large Scale New Energy Access
922	POA-051	Tingting Li,Runquan Meng,Bin Wei,Yinke Dou,Rui Cao	Optimal Configuration of Comprehensive Power Supply System of Zhongshan Station in Antarctica Considering Low Temperature Characteristics of Batteries