Paper Post Session Details

Paper Poster Session 1: Oct.25th, Sunday 08:00 - 17:00, On line room 1

Paper Poster Session 1: Renewable Energy Grid Interconnection			
Time & Place: Oct.25th Monday 08:00 - 17:00, On line room 1			
Paper Number	Poster Number	Author	Title
9	PPA-001	Yu Li,Wenyu An,Lili Liu,Jianwen Ren,Chengcheng Kong,Anqi　Wang	Research on Electromechanical Transient Equivalent Modeling of MMC-HVDC Connected to Passive Network
29	PPA-002	Guanhua Li	Simplified Calculation and Analysis of Sea Grounding Electrode Temperature Rise
55	PPA-003	Yingjie Chen,Hui Liu,Qian Chen	Assessment of Reactive Power Reserve for DC Continuous Commutation Failure
59	PPA-004	Yuan Zheng	Power Oscillation Damping Control Design through VSC-HVDC Grid Using Cross-Gramian Based Model Reduction
86	PPA-005	Fujie Yang,Yichen Li,Zijian Qiu,Xin Zhou,Jin Liu	Fault Ride-through Control Strategy for Multi-terminal Flexible DC Integration of Wind Farm
91	PPA-006	Xiaohui Wang,Ming Zhang,Fei Fei,Haidong Shen,Haoen Li,Ruanming Huang	Discussion on optimization method of new power system planning considering short circuit ratio
110	PPA-007	Ligang Zhao,Sijia Tu,Chao Hong,Hongyue Zhen,Tinghui Zhou,Guanbiao Huang,Changxiang Wang,Ye Zhang	Research on DC power grid electromechanical transient modeling technology
156	PPA-008	Lin Zhu,Huaiguang Gu,Fangyuan Li,Longze Kou,Dong Liu	Analysis and Calculation of the Short-circuit current of Xiamen VSC-HVDC project
167	PPA-009	Jin Tian,Xiaozhi Gao,Huiqin Sun,Hexu Sun,Lei Wang,Jingran Song	Research on sliding mode control method of nonlinear DC micro-grid active power filter
259	PPA-010	Huiyuan Chen,Hua Zhang,Ning Xiong,Wei Wang,Junzhi Chen	Demand Response Potential Measurement Based on Adjustable Load Scale
298	PPA-011	Yongyi Luo,Xianguo Qing,Renyong Peng,Yuzhao Huangfu,Ao Cui,Zhaosu Wang,Zhiqiang Zhang,Ziheng Peng,Chengyu Liao,	Influence of Different Factors on Fault Current Under DC Side Fault of Photovoltaic Grid Connected System

327	PPA-012	Feng Yan	Calculation of power development scale based on carbon peak constraint and renewable energy consumption weight constraint
331	PPA-013	Yujie Du	Analysis and Suppression of 6.5kV SiC MOSFET Turn-on Current Overshoot
366	PPA-014	Xiaohui Wang,Yuchen Qi,Xinyu Xu,Ruanming Huang,Yingqin Ruan,Xiaoyan Bian	A mixed model- and data-driven approach for subsynchronous oscillation analysis of VSC-HVDC grid-connected offshore wind farm
368	PPA-015	Shilong Shu,Yiping Yu,Biao Jin,Chen Yang,Ruili Zhang	High Frequency Oscillation Analysis of Flexible DC Transmission System based on Modular Multilevel Converter
374	PPA-016	Dengbo Zhou,Qifan Lu,Yong Zhou,Shuoming Gu,Wei Peng	Multi-terminal DC line fault recovery with fault self-clearing and analysis of converter station online exit strategy
375	PPA-017	Ce Fang,Yong Shi,Lei Chen,Meiqin Mao,Zhong Chen,Jianhui Su	VSG Control and Parameter Selection Method for HVDC Converter Station Under Weak Grid
380	PPA-018	Weihan Bao,Bo Liu,Te Zhou,Qing Cheng,Chao Yang	The Impedance Design of Grid-connected MMC Converters in DC Distribution Systems
381	PPA-019	Xiong Li,Yao Li,Feng Zhou,Hongda Zhang,Lingjie Xu,Xinghui Jiang	Research and Design of Voltage Doubling Rectifier Circuit in High Voltage DC Power Supply
389	PPA-020	Tingwei Xu ,Sheng Lin,Dalin Mu,Liping Zhao	A Novel Fault Area Identification Scheme for Inverter Station of HVDC Based on Wavelet Energy Ratio
447	PPA-021	Ziwen Wei,Chen Wang,Yi Wang,Jianye Tao,Zhen Zhang,Tong Xu	A Novel Bypass MMC Sub-module Topology And Its Capacitor Voltage Balancing Strategy
492	PPA-022	Chunyi Han,Xuzhu Dong,Shang Lei,Bo Wang	Research on photovoltaic VSG control technology based on generation power reserve
494	PPA-023	Rui Li,Ting Wang,Sajia Lin,Guangjia Zhang,Weiguo Yu,Junjun Pan,Hanxing Luo	Research and Application of Distributed Stability Control Test System
507	PPA-024	Chen Zhang,Qing Xiong,Rui Li,Zhenguo Di,Ziqing Guo,Shengchang Ji	Characteristics and high frequency equivalent model of low voltage DC fault arc
521	PPA-025	Yuwen He,Limin Yang,Shaobo Lin,Yiying Zhu	Influence of stray parameters for high-frequency resonance of MMC-HVDC systems based on digital-analog hybrid simulation
532	PPA-026	Tu Yingang,Xiangyu Pei,Zhou Wandi,Li Pengzhi,Zhang Sheng,Liu Yuan	A Novel Multi-Port Hybrid DC Circuit Breaker for VSC-based DC Grids

534	PPA-027	Limin Yang,Yiying Zhu,Shaobo Lin,Yuwen He	Low-order Harmonic Suppressing Method of Renewable Energy Integration through VSC-HVDC
580	PPA-028	Jihan Deng,Gang Yu,Qiang Gan,Yujie Gao,Jianming Zhao,Chunhai Guo,Jun Deng,Zhicheng Pan,Qingsong Liu,Zhicheng Xie	Effect of foreign matters attached to the switching core of vacuum on load tap changer on oil gap breakdown voltage
581	PPA-029	Yingkun Zhou,Huadong Sun,Xiaoli Wang,Shiyun Xu,Bing Zhao,Deyang Guo,Chao Wang	Suppressing Overvoltage by Synchronous Condenser Based on Multiple Renewable Energy Stations Short Circuit Ratio(MRSCR)
584	PPA-030	Zezhou Wang,Gang Chen,Jnbo Zhang,Qingqing Huang,Jintao Ye,Yi Jiang	Research and Design of Online Monitoring Device for Operating State of GIS Isolating Switch Operating Mechanism
593	PPA-031	Fuqiang Xiong,Yue Yao,Yunfei Lei,Chaofeng Zhang,Haoran Liu,Tianhua Zhang	Research on the Control Strategy of Phase Modulator Based on Voltage Coordination
598	PPA-032	Shiyun Xu,Boyang Li,Yingkun Zhou,Xinyuan Liu,Chen Lv,Huiping Zheng	Influence of Fault Ride-Through Characteristics of Wind Turbines on Transmission Power of Ultra-High Voltage AC/DC Hybrid System
633	PPA-033	Fan Ding,Yunlong Lv,Jixing Sun,Jiayi Ren,Sibo Song	Research on Leakage Current Characteristics and Thermal Process of Gradient Valve Plates under High Frequency Voltage Conditions
689	PPA-034	Huaiguang Gu,Jian Zhang,Jiapei Zhou,Longze Kou,Lin Zhu,Dong Liu	A Simulation Error Analysis Method for HVDC Physical Dynamic Model Parameter Design
721	PPA-035	Xinxin Wu,Tao Jin,Zewen Li	Fault Location Method of Flexible DC Transmission System Based on End-to-End CNN-LSTM Parallel Network
733	PPA-036	Shengwen Liao,Deqiang Gan,Shibin Bai,Zhihao Tian,Hailiang Zhon,Gang Liu	Overvoltage Analysis of AC/DC System Utilizing Two-Time-Scale Separation
736	PPA-037	Likang Gu,Jianhui Meng,Xin Wang,Haining Sun	Research on Voltage Regulation Strategy of Multi-terminal DC Distribution Network
755	PPA-038	Wei Zhao,Bing Zhao,Yanjun Zhao,Zhiwen Xie,Wei Wang,Ning Xie	Simulation and Experiment Analysis of Opening Characteristics for High-current Fast Switch Based on Double-spring Permanent Magnet Operation and Electromagnetic Repulsion Double-acting Mechanism
770	PPA-039	Kaifan Hu,Meiqin Mao,Liuchen Chang	Parameters Inversion of Equivalent RLC Fault Circuit for MMC-HVDC Grid Based on BP Neural Network
773	PPA-040	Yuyu Zheng,Meiqin	Comparison of Different Parameter

		Mao,Liuchen Chang	Optimization Objectives under DCSCF for MMC-HVDC-Grid
774	PPA-041	Min Yuan,Meiqin Mao,Liuchen Chang	Analysis on Fault Current Evolution for MMC-HVDC Grid Considering Fault Current Limiter and Grounding Mode
784	PPA-042	Zhengguang Chen,Yizhen Wang,Fengliang Qiu,Shuyang Wang,Zeng Rui,Xingguo Wang	Comparative Analysis and Design of Inductive and Resistive SFCL for HB-MMC-HVDC Under DC Faults
795	PPA-043	Chao Xing,Xinze Xi,Xin He,Mingqun Liu,Shengnan Li,Zhi Xu	Analysis on Impedance Calculation and Simulation of HVDC Loop
874	PPA-044	Junyan Shao	Probabilistic Load Flow Calculation for AC/DC Power Grid Based on Polynomial Chaos Approach
1001	PPA-045	Xiaolin Li,Bing Luo,Xiaohan Li,Shuangshuang Tian,Yin Zhang	The quantitative detection of trace gas based on FLRDS
4	PPA-134	Jian Feng,Jianyu Hu,Yu Wang,Shaofeng Fang,Keke Yan,Ye Zhou	Distributed Robust Optimal Scheduling for Integrated Energy System Considering Source-Load Uncertainty
8	PPA-135	Junjie Xiong,Jianxi Wang,Yonghui Sun,Zhipeng Li,Guiyang Cui,Xinye Du	An Optimal Method of Regional Integrated Energy System Based on Two-stage Robust Model
11	PPA-136	Kaicheng Liu,Hongyin Chen,Siyuan Li,Dan Wang,Guixiong He,Huiping Zheng,Liu Xinyuan,Ying Zhang	Security and Energy Supply Valleys Assessment of Regional Integrated Energy System Based on Practical Security Region
12	PPA-137	Yongjie Zhong	Comprehensive Evaluation Strategy of Optimal Operation Mode of Integrated Energy System Based on Analytic Hierarchy Process
18	PPA-138	Rui Yang	Energy Optimal Operation Strategy of Ship Power Station with Multi Energy
24	PPA-139	Muchen Chen	Optimal Operation Strategy for Concentrating Solar Power toward Integrated Electricity-Gas-Heat System
28	PPA-140	Jianpeng Ren,Nan Jia,Cheng Wang	Robust Coordinated Dispatch of Integrated Electric-Gas System at the Distribution Level Considering Uncertainty of Wind
124	PPA-141	Mingchao Xia,Kerui Ma,Qifang Chen,Zhihao Hua	Economic optimal scheduling of integrated energy system considering integrated demand response
137	PPA-142	Xifeng Guo,Yang Yu,Baolong Yuan	Research on optimal scheduling of integrated energy storage of photovoltaic building based on improved CDKF method

159	PPA-143	Xuelin Wang,Zhang Junzhao,Xin Jiang	Research on Purchasing and Selling Energy Strategy of Virtual Power Plant
166	PPA-144	Hao Su,Yuqin Gao,Ruifeng Shi	Subjective-Objective Combination Weighted Integrated Energy System Evaluation System Considering Carbon Trading Market
214	PPA-145	Shunjiang Lin,Zhiqiang Tang,Xuan Sheng,Weikun Liang	Stochastic optimal dispatch of Integrated Energy Campus Microgrids considering the Time-delay of Pipelines
219	PPA-146	Yahong Xing,Jingsi Yang,Wenping Qin,Wei Song,Jianbin Wu,Haibo Zhao,Zeyuan Shen,Qi Li	Research on Optimal Control of Regional Integrated Energy System Based on Competitive Swarm Optimizer
227	PPA-147	Keyan Liu,Tianyuan Kang,Xueshun Ye,Dongjunming Yang,Muke Bai,Enbo Luo	Research on Hybrid Simultaneous Simulation Method of Multi-energy Coupling System under Multiple time Scale
261	PPA-148	Lei Wang,Wei Dai,Liuzhu Zhu,Xuli Wang,Chenxu Yin,Hao Cong	Expansion Planning of Park-Level Integrated Energy System Based on Dynamic Carbon Trading Model
262	PPA-149	Quanming Zhang,Quanni Lan,Wenjie Huang,Xue Cui	Research on Interaction of Generalized Demand Side Resources and Energy Interconnection System Based on System Dynamics
271	PPA-150	Jingbo Zhao,Wenbo Li,Yongyong Jia,Weiyuan Wang,Jinmin Cheng	Wind farm Planning Considering Output Uncertainty Under Carbon Emission Reduction Target
296	PPA-151	Shuyi Zhang,Qiuwei Wu,Jian Chen,Bo Pan,Gang Liu	Day-ahead two-stage stochastic scheduling of integrated energy system considering spatial-temporal correlated scenarios of wind power
320	PPA-152	Wang Cong,Yan Li,Yiwen Fan,Yongning Chi,Yu Xiao,Hongchang Qi	Study on Power Control Optimization Technology for Wind Turbines During Power Grid Transient Process
339	PPA-153	Ting Liu,Jin Wang,Shengnan Ren,Xiaoyue Zhang,Shuhao Zhao,Ting Leng	Low-carbon Economic Operation of the CHP System with P2G Heat Recovery and Heat Storage Tanks for Wind Power Consumption
362	PPA-154	Shuhao Zhao,Jin Wang,Luowen Gong,Xiaoyue Zhang,Ting Liu,Shengnan Ren	Economic Dispatch Of Virtual Power Plant Contained Wind-Photothermal Considering Integrated Demand Response
397	PPA-155	Xiaolong Xiao,Xinyao Si,Qing Xiong,Ting Li,Jisheng Li,Shengchang Ji	Arc Fault Risk Evaluation Based on Image Recognition
414	PPA-156	Yansheng Lang,Xiaochen Ma,Xiaonan Yang,Shangqiu	Robust State Estimation of Electricity-Gas Integrated Energy System Based on Multi-Time

		Shi,Hanyin Mao,Yanbo Chen	Scale Data Fusion
421	PPA-157	Yonggang Pang,Shengrong Zhu,Dianyi Deng,Kangping Xu,Cheng Wang	Machine Learning Based Optimal Energy Flow Calculation for Integrated Electric-Gas Systems
434	PPA-158	Hang Li,Lewei Zhu,Hou Kai,Hongjie Jia	Application of adjacency matrix in probabilistic energy flow calculation method considering coupling failure
438	PPA-159	Zihan Chen,Han Wu,Junyi Yang,Yue Yuan,Qiang Li	Research on Optimal Scheduling of RIES Based on Incentive Integrated Demand Response
466	PPA-160	Shan Ma,Xiaojun Sun,Ding Feng,Lin Sheng	Reliability evaluation of the external power supply system of electrified railways considering the access of PV power
481	PPA-161	Wei Chen,Jianing Li,Jin Li,Jianmei Zhang,Lijuan Liu,Ruixiao Zhang	Integrated Energy System Station-Network Coordinated Optimal Method for Facility Agricultural Park
513	PPA-162	Yang Bai,Qian Zhang,Huiqing Liu,Tian Liang,Chao Xue,Hualiang Fang	An Optimal Reconfiguration Scheme Searching Method with Consideration of Variation Characteristic of Generation and Load
528	PPA-163	Wenli Lin,Ling Zhu,Xuelian Wu,Xuemao Zhao	Research on the Acceptability of New Energy under the Constraint of Grid Transient Voltage
539	PPA-164	Xiaoyue Zhang,Jin Wang,Shengnan Ren,Ting Liu,Shuhao Zhao,Luowen Gong	Low-Carbon Economic Dispatching of Combined Heat and Power System Considering Electric-thermal Integrated Demand Response
547	PPA-165	Wanjia Ye,Hongmei Li,Tao Jin,Ye Xiao,Jian Wang,Xiaozun Li	Improved Virtual Synchronous Generator Control for Wind Storage System
563	PPA-166	Wenfeng Zhang,Renwu Yan,Ning Yu,Yunzhang Liu,Zheng Yang	Short-term Wind Power Predication Based on Feature Engineering and SOA-SVM
620	PPA-167	Xuejiao Han	Data Center New Energy System under the "Peak Carbon Dioxide Emissions and Carbon Neutrality" Background and Comprehensive Evaluation Analysis Thereof
622	PPA-168	Jun Yang,Mengyan Gao,Nannan Wang,Ziliang Chen,Zhike Guo,Zihan Hou	Accommodation of Distributed Photovoltaic Energy with Charging Strategy Optimization of Electric Vehicles
623	PPA-169	Keren Chen,Wanqing Chen,Changyong Lin,Siying Zhang,Dong Yu,Yue Yang,Zhangyan Chen,Longlong Lai	Integrated Energy System Day-ahead Dispatch Considering Supply-side and Demand-side Flexibility
632	PPA-170	Yuwei Liu,Bin Li,Youxiong	Real-time control strategy of hybrid energy

		Deng	storage to smooth out fluctuations in PV industrial parks
639	PPA-171	Zhigang Li	Optimal Scheduling of Integrated Electricity and District Cooling Systems with Ice Storage
671	PPA-172	Yangyang Liu,Wei Yao,Xiongming Zhou,Qihui Zhou,Chenzhou Li,Jinxia Gong	Optimal Planning of Park Integrated Energy System Considering the Resilience of Distribution Network
685	PPA-173	Wei Ding,Wei Zhao,Chuan Qin,Zixuan Zhao,Anni Jiang	Modeling and Simulation of the Grid-Connected Raft-Type Wave Energy Conversion System
686	PPA-174	Tao Xu,Shuqi Cai,Yuhan Wu,He Meng,Zuozheng Liu,Lingxu Guo	Optimal Sizing of Hybrid Energy Storage in Industrial Park Integrated Energy System
700	PPA-175	Zhigang Li	Review on Modeling and Optimal Scheduling in Integrated Energy Systems
712	PPA-176	Chunqiao Jin,Chunjuan Jia,Shicong Wang	Voltage Inertia Control and Parameter Design Based on Virtual Capacitor in DC Microgrid
716	PPA-177	Rixiao Zhao,Jiye Wang,Dong Yan,Xinying Wang,Wenbin Lin,Xiang Zhou	Analysis of some problems on transient modeling of electrothermal coupling system
718	PPA-178	Shidong Wu,Zhiwei Zhang,Zhenguo Duan,Chengliang Zhu,Hengrui Ma	Study on design scheme of port shore power system considering economic and environmental benefits
730	PPA-179	Zhigang Li	Multi-objective group search optimization of district cooling system considering both economic and efficiency aspects
737	PPA-180	Shizhi He,Qingbiao Lin,Yanjie Liang,Qixing Liu,Wenxuan Li	The Treatment of AC/DC Hybrid Connection in Interregional Power Market Clearance
738	PPA-181	Zhaoyi Zhang,Chengxi Liu,Qiupin Lai,Qing Zeng	Study on the Dynamics of Natural Gas System and Linepack Storage in Integrated Energy Systems
739	PPA-182	Zhong Zhang,Li Wang,Jiapeng Tong,Yongzhao Lao,Xinghui Wang,Yiyang Qiao,Changlong Tang,Yajun Li	A planning method of integrated energy system based on gas turbine installed capacity optimization
741	PPA-183	Xiaoli Huang,Haoran Zhao,Junjie Wang,Sixiao Xin,Hang Tian,Mengxue Wang	Fine Modeling in Thermal System of Integrated Energy System
742	PPA-184	Xiaoyi Qian,Haoran Zhao,Xiuchuan Sun,Hang Tian,Sixiao Xin,Mengxue Wang	Optimization Toolbox for Multi-regional Integrated Energy System
764	PPA-185	Zhibin Liu,Yunfei Mu,Xiangwei Guo,Hongjie Jia,Guoliang	Static Stability Analysis of Integrated Electricity and Gas System Considering Voltage and

		Wu,Guangxin Zu	Pressure
787	PPA-186	Ning Huang,Tian Chen,Yiming Xue	Day-ahead Dispatch of Smart Energy Aggregators Based on Regenerative Clean Heating and Demand Response
788	PPA-187	Difei Tang	Congestion Assessment in Electric Vehicle Fast Charging Stations for Coupled Traffic-Power Systems in Smart Cities
830	PPA-188	Youpeng Pan,Jiahao Wang,Peng Li,Linqing Wang,Jianyi Li,Yunxing Yin	Photovoltaic Power Forecasting Based on Similar Day Theory and CEEMDAN-CSO-BP
845	PPA-189	Jiandong Duan,Yerui Xia,Ming Zhao	Optimal Design of Park-Level Integrated Energy System Considering the Cost of Carbon Emissions
846	PPA-190	Linyuan Li,Jiahao Wang,Peng Li,Changxin Yan,Jianchun Wei,Wen Shi	Robust Optimization of Reactive Power for Voltage of Power Grids With a High Proportion of Distributed New Energy Access
852	PPA-191	Zhijun Liu,Haijun Liu,Shuai Wang,Bin Ge,Jiawei Li,Siwei Liu,Runhao Gao,Xiaoling Su	Fast Power Flow Calculation Method for Electricity Hydrogen Storage Integrated Energy Network
856	PPA-192	Wanqing Chen,Pengjia Shi,Yuanfei Li,Qiyuan Cai,Keren Chen,Kangli Xiang	Optimal Planning Method for Regenerative Electric Heating System Considering the Supply Capability of Distribution Network
862	PPA-193	Jiangang Lu,Ruifeng Zhao,Bo Li,Haobin Li,Huijuan Tan	Intelligent Fault Diagnosis Method of Power Grid Based on Multi-source feature Fusion
914	PPA-194	Yangyang Zhao,Linyu Wang,Lei Guo	Virtual Synchronous Control of PV-Building System by Utilizing Thermal Inertia
962	PPA-195	Tiancang Du	Research on Synergetic Effect of Multi-Subnet AC/DC Hybrid Microgrid Control Technology
969	PPA-196	Hua Zhang,Xueneng Su,Linsen Ma,Chengkuan Wan	Coordinated Control of Multi-Parallelled Retired Battery-Based Energy Storage Bank in DC Distribution Network
976	PPA-197	Ran Hu	Average-Value-Based Integrated Induction Machine-Rotor Side Converter System Model in EMTP-type Programs
985	PPA-198	Tao Xie,Chenglong Hao,Zhiwen Wang,Qi Li,Kesheng Wang,Yang Yang	The PV Inverter Main Circuit Fault Detection Based on Wavelet Packet Energy Analysis Technology
1024	PPA-199	Ye He,Nan Yang,Bangtian Dong,Li Ding,Tao Qin,Yuehua Huang,Chen Chen	Incremental Distribution Network Source-load-storage Collaborative Planning Method Considering Uncertainty and Multi-agent Game
1027	PPA-200	Xiaohui Wang,Mengyao Zhang,Mingze Zhang,Haoen Li,Yuchen Qi,Tianli Song,Jia	Random Expected Value Power Supply Reliability Evaluation of Typical Urban Medi-um-Voltage Distribution Network

		Ming Cai	Considering the Impact of Integrated Energy Supply

Paper Poster Session 2: Oct.25th, Sunday 08:00 - 17:00, On line room 2

Paper Poster Session 2: B.Smart Grid Security			
Time & Place: Oct.25th Monday 08:00 - 17:00, On line room 2			
Paper Number	Poster Number	Author	Title
20	PPB-053	Qiang Yi	Improved LSTM Memory Recursive Neural Network Precise Compensation and Prediction for Phase Selective Switching Device
31	PPB-054	Kang Sun,Manyun Huang,Fangwei Duan,Ruitong Liu,Zhinong Wei,Guoqiang Sun	Real-Time Recursive Correction State Estimation Utilizing Only SCADA Measurements
38	PPB-055	Wentao Jiang,Yuping Lu,Xu Li,Jiaqi Qin	A Directional Protection Scheme for Collector Lines of DFIG-Based Wind Farm Using Positive-Sequence Equivalent Impedance Comparison
44	PPB-056	Chen Li,Zhe Gong,Yunli Wang,Wenchuan Wu,Shan Ni	Analytical Stochastic Power Flow for Power Systems with High Penetration of Renewable Energy
50	PPB-057	Dongliang Xie,Zhaofeng Hang,Feng Zheng,Ran Pang,Yonggan Wan,Saijie Yuan,Zheng Zhang	Comparative Analysis of Reserve Configuration of Power System with Storage Considering the Uncertainty of New Energy
53	PPB-058	Jiexiang Han,Zhang Zhe,Qisheng Ran,Xianggen Yin	Principle and Implementation of Networked Protection in Active Distribution Networks
60	PPB-059	Lilong Xie,Yonghui Li,Jinxing Xiao,Jun Yang,Bingyan Xu,Ying Ye	Research on Autonomous Operation Control of Microgrid Based on Deep Reinforcement Learning
67	PPB-060	Baoming Zheng,Yao Liang,Hongkui Gong,Guanglei Wen,Chen Wang,Xiaoteng Ma	Frequency Emergency Control for Large-scale Disconnection of Renewable Energy
85	PPB-061	Yifan Zhang,Wei Li	Research on the Development and Testing Technology of Domestic Chip Relay Protection Devices
89	PPB-062	Luxi Hao,Mengfei Jia,Yangwu Shen,Ding Wang,Jian Zuo,Guo Hu	Research on Risk-Based Planning of Power Grid Considering the Access of New Energy
90	PPB-063	Yingqing Rao,Jun Yang,Jinxing Xiao,Bingyan Xu,Ying Ye,Yonghui	A frequency control technology based on improved virtual synchronous generator

		Li,Lilong Xie,Hongli Wang	
92	PPB-064	Xiaodong Yin,Shanpeng Pei,Xinyi Guo,Congzhou Xu,Rui Song	Study on the configuration strategy of energy storage in photovoltaic field stations
97	PPB-065	Fang Luo,Wei Jiang	DC Emergency Power Support Applied into Frequency Corrective Control
98	PPB-066	Wei Li	Analysis of Power Chip Failure in Busbar Protection
99	PPB-067	Yong Yan	The Discussion on the Replacement Strategy of Overrunning Protection In Smart Substation
101	PPB-068	Huan Pan,Xiao Li,Ruijia Cao,Chunning Na	Power Grid Nodal Vulnerability Analysis Combining Topology and State Information
125	PPB-069	Ling Zhu,Xuelian Wu	Research on the coupling performance of voltage and frequency for the power grid with highly penetrated photovoltaics generation
132	PPB-070	Xi Luo,Zhuoli Zhao,Jindian Xie,Shaoqing Gong,Keyu Zhou,Loi Lei Lai	Decentralized Grid-Forming Control Strategy of High-Penetration Wind Power Microgrids
136	PPB-071	Jun Ma,Dong She,Jingzhong Zhang,Fei Meng,Zheng Yan,Han Wang,Xiaoyuan Xu	Probabilistic Transient Analysis of Power System based on Nonlinear Auto-regressive Model
143	PPB-072	Kanghua Zhong,Yuan Tang,Shijian Zhang,Yongjun Zhang,Wenyang Deng	Rolling Optimization of Load Balancing in Low-voltage Active Distribution Network Based on Pre-decision Module
146	PPB-073	Wenan Lu,Zhaowei Li,Gan Li,Zhaohui Qie,Yiping Yu	Research on Suppression Strategies of Wind Farm Subsynchronous Oscillation
170	PPB-074	rmin Zhao ,Chenlong Song,Jianxing Xu,Chun Wei,Yuantian Xue,Congbin Liang	Repetitive Control for Current Harmonic Suppression of PMSG-Based Wind Turbines
197	PPB-075	Chen Li,Aihong Tang,Huiyuan Yang,Yuanling Wang,Tao Jia,Zheng Wang	Composite Power System Reliability Evaluation Considering Space-time Characteristics of Wind Farm
198	PPB-076	Jun Xiao,Zekai Qiu,Chenhui Song	Evaluation method of planning scheme in the distribution network based on the geometrical observation of security region
215	PPB-077	Ju Sheng,Jianjun Sun,Qingyan Jia,Yingjie Tang,Han Yan,Weihan Lin	Primary frequency regulation method for thermal power units based on multi-scale morphological filter
230	PPB-078	Dabo Zhang,Boxin Wang,Huaixin Guo,Zhuwei Chu,Mingdong Ye,Yuewen Jia	Power Flow Correction Strategy Based on Improved Comprehensive Sensitivity Index
251	PPB-079	Lifu He,Guoyong Zhang,Jing Luo,Wenqing Feng	Research and Application of Helicopter-based Wildfire Monitoring Technology for Transmission Lines
258	PPB-080	Kai Sheng	Model Parameter Identification of Wind Farm's

			Primary Frequency Control based on Actual Power Response Characteristic
263	PPB-081	Binkong Zhang,Moufa Guo,Zeyin Zheng	Active Optimization Arc Suppression Method Based on Cascaded H-Bridge Converter for Distribution Networks
268	PPB-082	Pu Huang,Dong Zhang,Xiaoyue Luo	Design and Simulation Analysis of Grid-connection of Superconducting Generator
283	PPB-083	Kaikai Wang,Yao Wang,Guanran Wang,Yongming Jing,Lihua Liu,Yingying Hu,Yan Liang,Jie Chen	Research on reactive power control of doubly-fed wind farm based on coordinated control strategy
293	PPB-084	Qian Zhou,Xinyao Zhu,Hongyu Zhou,Zhu Tianjiao,Jingbo Wang	Improved Atom Search Optimizer of Offshore Wind Power for Fault Ride-through Capability Enhancement
304	PPB-085	Hongyang Yu,Yanhui Xu,Yurou Geng	Research on Control Strategy of SSSC to Suppress Wind Power Subsynchronous Oscillation
305	PPB-086	Yingpei Wang,Yanhui Xu,Tianchu Gao	Evaluation Method of Wind Turbine Group Classification Based on Calinski Harabasz
313	PPB-087	Meiyi Li,Wentao Huang	Stability Analysis of the VSG Under Grid Voltage Drop and Current Saturation
315	PPB-088	Xuekun Cheng,Hui Liu,Linlin Wu,Li Yunhong,Dawei Sun	Artificial Short-circuit Test and Result Analysis of Ximeng UHV AC/DC transmission project
319	PPB-089	Hongchang Qi,Yan Li,Yiwen Fan,Yongning Chi,Wang Cong,Yu Xiao	Requirement of Generalized Modeling Technology and Parameter Identification for Wind Turbines
333	PPB-090	Jian Zhu,Jiangdong Liu,Shengbo Wang,Jinxin Zhu,Bojun Kong,Siyu Chen,Yatian Zhu,Kaixuan Ti,Xin Zhan,	Analysis of Static Stability of Virtual Synchronous Converter Based on Line Impedance Characteristics
341	PPB-091	Baoju Li,Yong Sun,Gangui Yan,Zhaorui Liu,Jiyue Fu,Yao Wang	Research on Dynamic coordination mechanism of DFIG based on inertia response
344	PPB-092	Yong Sun,Baoju Li,Zhaorui Liu,Youshi Cui,Jiyue Fu,Yao Wang	Frequency regulation strategy of wind farm based on frequency deviation regulation of parallel network
351	PPB-093	Chao Chen	General secondary equipment simulation drive system
359	PPB-094	Xuan Cui,Shan Xu,Lei Wang,Xinfang Zhang,Baifu Zhang	Neutral Current Suppression for a Common mode decoupling Three-phase Transformerless Converter
367	PPB-095	Song Li,Yongli Li	Multi-Functional Coordination Control for Bidirectional Interlinking Converters in

			Islanded Hybrid AC/DC Microgrid Cluster
369	PPB-096	Yanna Xi,Wei Li,Wang Chai,Hongyu Zhang,Baotong Song,Fangmin Wang	Investigation on distributed coordinated control method of DFIGs participating in power system frequency regulation
399	PPB-097	Jie Hao,Changsheng Zhu,Xiuting Guo	Short-term Wind Speed forecasting Based on Weighted Spatial Correlation and Improved GWO-GBRT algorithm
411	PPB-098	Kaixin Liu,Zhijian Zhang,Dunwen Song,Yang Xuetao,Yebai Qi	The Method of Circuit Breaker Interrupting Capacity Verification Considering Breaking Sequences
418	PPB-099	Jianzhong Hou,Guangqian Ding,Chunlei Wu,Zhiyuan Pan,Jing Wang	An Interharmonic Suppression Control Scheme in PV System Based on DC-Link Voltage Perturbation Reduction
441	PPB-100	Shengyong Ye,Jun Wei,Zihao Xu,Wentao Zhang,Xuna Liu,Changhua Zhang	Low Frequency Oscillation Damping Strategy for Virtual Synchronous Generator Based on Port Energy Function
442	PPB-101	Jiali Wang,Xiaoqing Han,Tianhao Song,Yanbing Jia	Reliability Assessment of Wind Farm with Wind Turbine Gearbox Fatigue
489	PPB-102	Kang Wang,Li Li,Qinglei Zhang,Mingxin Jin,Shilou Huang,Tong Wang	Parameter Optimization Strategy of Energy Storage-Based Virtual Synchronous Generator Considering Inertial and Damping Coordination
490	PPB-103	Chen Qi,Shiyao Qin,Fenglin Miao,Shaolin Li,Ruiming Wang	Test and Assessment of Grid Forming Wind Turbine based on Controller Hardware-in-the-Loop
535	PPB-104	Qiushi Xu,Bo Ruan,Hongsheng Zhao,Yuhong Fan,Aihong Tang,Wei Zhou	Research on Modeling and Simulation of Direct Drive Wind Turbine Based on ADPSS/ETSDAC
550	PPB-105	Yingjie Tang,Hu Yufei,Zhen Tian,Ju Sheng,Xiaoming Zha,Jianjun Sun,Xilin Li	Transient Stability Analysis for Grid-tied Virtual Synchronous Generator Based on T-S Fuzzy Modeling and LMI Approach
552	PPB-106	Qingyan Li,Lin Tao,Hui Du,Yu Yongqing,Xiyue Fu,Xialing Xu	Deep Reinforcement Learning-Based Fast Prediction of Strategies for Security Control
556	PPB-107	Ye Lin,Jinghao Zhou,Junxiang Jiang,Xiaolei Yang	Evaluation of Voltage Support Strength of Receiving Power Grid Considering Wind Power Injection
557	PPB-108	Yang Wu,Xiangyang Su,Shuangquan Liu,Yan Jiang,Qizhuan Shao	Electricity market clearing model considering uncertainty of wind power
558	PPB-109	Yuchuan Zheng,Xu Zhang,Yi Wang	Research on Alarm Information Oriented Fault Event Classification Method
559	PPB-110	Xiaoguang Chen,Yan Li	Study on Wind Power Accommodation Method Based on Controllable Electric Heating
567	PPB-111	Litao Guo,Zifeng Li,Weidong Li	Probabilistic Production Simulation Method for

			Frequency Response Capacity Planning
570	PPB-112	Xiaolong Wang,Mingdong Wang	Extension Controller for Wind Turbine Pitch System
592	PPB-113	Haiyang Yu,Lan Li,Jie Jin,Shengzhou Feng	Indirect Power Control of Doubly-fed Induction Generator
607	PPB-114	Xin Wei,Meng Li,Yi Lin,Zhangsui Lin	Evaluation method of system dominant instability form based on fuzzy evaluation function
621	PPB-115	Yunhong Li,Linlin Wu,Xiao Wang,Xuekun Cheng,Yanmin Sun,Dawei Sun	Research on Transient Power Characteristics of PMSG at Fault Clearing Time Considering Dynamic of Phase Locked Loop
663	PPB-116	Kaida Dong,Jianguo Qian,Zhenjie Wu,Yuantao Wang,Chen Hu,Wei Ma	Research on Detection Method of High-Impedance Grounding Fault for the Grounding Transformer
667	PPB-117	Zhifeng Chen,Rui Zhou,Jinwei He,Dengmin Mai,Zifan Zhang,Yihua Luo	Research on Unit Removal Method under Islanding Operation of Small Hydropower Microgrid
682	PPB-118	Xuan Wei,Xuanyuan Wang,Wang Bin,Bo Ning,Zhaoguang Pan,Hongbin Sun,Yinliang Xu	Stochastic Optimal Dispatch of Virtual Power Plants Considering Cyber Coupling
683	PPB-119	Xin Wei,Meng Li,Yi Lin,Zhangsui Lin	Research on Emergency Power Support Strategy for Multi-HVDC Transmission Network Based on Power Trajectory Sensitivity
703	PPB-120	Jingyi Zhang,Zhixian Li,Yan Zhang,Chongru Liu,Chenbo Su,Shuai Wang	Correlation Analysis of Wind and Photovoltaic Power Based on Bayesian Theory
717	PPB-121	Pan Xin,Ming Wen,Shuyang Pan,Kai Liu,Mengdi Dai,Lingyu Chen	Reactive Power Optimization in Distribution Networks with High Penetration of Renewable energy Based on Second-order Cone Programming
729	PPB-122	Bingyu Wang,Yan Xu,Boon Hee Soong,Ziming Yan	A Multi-Agent Deep Reinforcement Learning Based Multi-Timescale Voltage Control For Distribution System
744	PPB-123	Yinchi Shao,Dawei Sun,Xuekun Cheng,Xiaoxiao Wang	Simulation on Anti-islanding Protection of Distributed PV Inverter Based on RT-LAB and Smart TTU device
746	PPB-124	Zijiao Han,Shun Yuan,Jingyang Wang,Yannan Dong,Liu Gao,Yuqi Yang	Modeling and control of photovoltaic hydrogen production system adapting to power fluctuations
753	PPB-125	Zhihan Li,Man Gong	Multi element aggregation control strategy of wind-photovoltaic- storage-electric vehicle based on virtual power plant
758	PPB-126	Jun Ren,Guoqiang Qin,Pudong	An adaptive virtual inertia control strategy on

		Huang,Wenliang Lin,Yuhan Sun,Jianhui Meng	voltage regulation of DC microgrid
771	PPB-127	Bowen Ren,Laijun Chen,Xiaodai Xue,Hengrui Ma	A robust short-term wind power forecasting algorithm based on LSTM-XGBoost Model
809	PPB-128	Jindian Xie,Zhuoli Zhao,Shaoqing Gong,Xi Luo,Keyu Zhou,Loi Lei Lai	Design of Distributed Controller for Suppressing Oscillation in PV-Based Microgrids
810	PPB-129	Wenkang Dong,Tianyang Zhao,Yuxin Wu	Deep Reinforcement Learning Based Preventive Maintenance for Wind Turbines
818	PPB-130	Shaoqing Gong,Zhuoli Zhao,Xi Luo,Jindian Xie,Keyu Zhou,Loi Lei Lai	Improved FCS-MPC Control Strategy for PV-Based Microgrids
826	PPB-131	Minghui Tang,Zhaowei Li,Gan Li,Zhaohui Qie,Yiping Yu	Power Oscillation Characteristics of Large Power Systems under Random Disturbances
829	PPB-132	Qian Zhou,Yanli Zhang,Yalin Feng,Kunxiong Liu,Fei Wang,Wenqiang Song	Research of additional loss in 10kV distribution network under complex power quality disturbances
841	PPB-133	Jingtian Bi	Dynamic Stability Analysis of Sub-synchronous Oscillation Mode of Phase Locked Loop
844	PPB-134	Lei Jiang,Jiahao Wang,Peng Li,Xin Dai,Kanglin Cai,Jie Ren	Intelligent Optimization of Reactive Voltage for Power Grid With New Energy Based on Deep Reinforcement Learning
867	PPB-135	Changzhou Yu,Xu Haizhen,Qinglong Wang,Meimei Sun	Research on Voltage and Current Inner Control of Voltage-controlled Converters Under High Permeability System
883	PPB-136	Kaikai Wang	Research on reactive power coordination control of doubly-fed wind farms considering multiple reactive power sources
900	PPB-137	Yanfei Ru,Feng Zhao,Zhangtao Jin	A Fault Ride-through Method of Paralleled Synchronous and Virtual Synchronous Generators in Islanded Microgrids
906	PPB-138	Baoju Li,Wenting Wang,Yong Sun,Pupu Chao,Xueguang Zhang,Weixing Li	Short-term thermal load probabilistic forecasting considering electrical-thermal coupling characteristics
916	PPB-139	Lisheng Wan,Yanzhen Xu,Yang Cao,Xiaoqun Cao,Yonghong Xia,Yongkang Xiong	Research on Location and Capacity Planing of Data Centers Under New Energy Access
921	PPB-140	Wenshuai Cheng,Xi Ye,Le Zheng,Jing Wu	Conditional Mutual Information Based Interpretable Key Feature Selection Method for Power System Security Analysis
948	PPB-141	Heping Peng,Le Luan,Yong Wang,Wenxiong Mo,Zhong Xu	Decoupling method of short line based on characteristic line and its Simulation analysis
959	PPB-142	Shitao Wang,Hongwei Li,Xinxin	Forced Oscillation Suppression Method of

		Song,Jingwei Li,Guiping Zhou,Jianjun Fang	Renewable Energy High-Infiltration Power System Based on Kuramoto-like Model
965	PPB-143	Yuntian Lou	Research on Voltage Stability of HVDC Receiving-end System Based on Power Limit Trajectory
966	PPB-144	Hailiang Zhong,Wenchao Zhang,Shibin Bai,Yu Ke,Zhihao Tian,Moupeng Liu	Research on the influence of wind-fire bundling on power angle stability of sending end system
982	PPB-145	Jindong Si,Lijiao Gong,Zhaosen Chai,Hui Li,Xin Zhang	Analysis Of Dynamic Characteristics Of Doubly-Fed Induction Generator Under Different Drivetrain Vibration Suppression Strategies
983	PPB-146	Xin Zhang,Lijiao Gong,Bin Wang,Jindong Si	The optimal design of the second-order generalized integrator phase-locked loop under power voltage distortion conditions
995	PPB-147	Ran Tao	Optimal allocation of FACTS devices using improved differential harmonic search algorithm
1007	PPB-148	Mengxue Sun,Ruixin Gao,Yuhui Ji,Long Xin,Changzhi Yao,Fan Wu	Inside-wind-farm/Wind-farm-grid Sub-synchronous Oscillation Characteristics Analysis in Grid-connected System of Multiple DFIGs
1013	PPB-149	Yinhong Lin,Hui Liu,Huaichang Ge,Wang Bin,Licheng Sha,Qinglai Guo	Evaluation of Synchronous Generators Reactive Power Output During Transient Process
1015	PPB-150	Hualing Han,Ruoying Yu,Dawei Zhao,Fubao Wu,Ning Chen,Wang Xitian	Preliminary analysis on configuration scheme of power sources in future power system of China
1016	PPB-151	Zhicheng Li,Zhijun Tang,Dongyuan Zhang,Wujie Chao,Xiaoyan Peng,Yongjie Leng	High-performance Full Electromagnetic Transient Simulation System of Fujian Power Grid and its Application
1035	PPB-152	Junfeng Qi,Fei Tang,Jiarui Xie,Xinang Li	Effect of DFIG Under Droop Control on Center Migration of Out-of-Step Oscillation
1037	PPB-153	Jiarui Xie,Fei Tang,Xinang Li,Junfeng Qi,Mingyang Mei	Research on Harmonic Dynamic Interaction Analysis and Suppression Methods of Microgrid

Paper Poster Session 3: C.ICT Application in Energy Internet & B.Smart Grid Security			
Time & Place: Oct.25th Monday 08:00 - 17:00, On line room 3			
Paper Number	Poster Number	Author	Title
17	PPC-001	Shangfu Wei,Xiaoqing Bai	An Attention-based CNN-GRU Model for Resident Load Short-term Forecast
102	PPC-002	Dongchen Huang	Strong Wind Data Augmentation Based on F-DBSCAN and C-SMOTE for Wind Power Forecasting
130	PPC-003	Jinjin Zhang,Junyong Wu,Dong Lan,Tao Wang,Hainan Zhu,Fengshuo Li	Short-term load forecasting method based on artificial intelligence highway neural network
133	PPC-004	Dong Lan,Junyong Wu,Jinjin Zhang,Hainan Zhu,Fengshuo Li,Huazhong Sun	A Short-term load forecasting method of distribution network based on improved AlexNet-GRU deep learning network
142	PPC-005	Hao Zhang,Gang Li,Zongpeng Li,Yanan Qiao,Hui Cheng,Liangli Su,Mingzhu Zhang,Xin Shi	A Novel Method for Residents Indoor-outdoor Detection Based on Power Consumption Data
151	PPC-006	Ling Zhu,Shuo Cheng,Qi Wang	A method for predicting reactive voltage of photovoltaic transmission system based on double-RF
155	PPC-007	Longchuan Yan,Chen Zhiyu,Xingwen Wu,Xiaoyu Yuan,Jing Zhu,Jikai Li	Object Detection Method based on Improved SSD Algorithm for Smart Grid
177	PPC-008	Kaile Zhou,Dingding Hu,Fangyi Li	Exploring the impact of COVID-19 on travel behavior based on EV charging big data
179	PPC-009	Zhiyuan Chen,Bingxu Hou,Xuan Yang,Lu Gao,Jiayi Shang	Industry Community and Core Industry Detection Base on Electricity Consumption Data
209	PPC-010	Chenhao Ying	Fuzzy C-Means Clustering Algorithm for Non-Intrusive Load Identification Considering the Difference in Information Expression of the Features
223	PPC-011	Dabo Zhang,Huaixin Guo,Boxin Wang,Zhuwei Chu,Yuewen Jia,Mingdong Ye	Graph Convolution Network Considering Edge Node Feature Aggregation
224	PPC-012	Yude Yang,Xiu Zhang,Quan Wen	Small signal stability assessment of power system based on SaDE-ELM algorithm
234	PPC-013	Pengwei Feng,Jun Wu,Xin Yang,Weidong Zhang,Hongpei Guo	Design and Realization of LQR Course Keeping Control for Small Electric Unmanned Surface Vehicle
235	PPC-014	Binggang Peng,Leixin Qiu,Tao	Incorporating Knowledge Distillation Into

		Yu,Lipeng Zhong,Yikun Liu	Non-intrusive Load Monitoring for Hardware Systems Deployment
240	PPC-015	Siyan Liu,Bo Wang,Wenjie Zheng,Weijiang Lu	Nd-Net: Exploring Non-Defective Features for More Robust Inspection of Power Transmission Line Defect
279	PPC-016	Zhenfeng Xiao,Wenying Li,Zhou Hong,Yuan Zhong,Xu Chufan,Shuchen Luo,Xiaodan Liu,Guoquan Deng	Research on Estimation of Regional Housing Vacancy Rate Based on Electricity Big Data
288	PPC-017	Hao Jia,Shaojie Lin,Lu Wang,Zelin Niu,Yaping Deng	Research on Detection Methods of Foreign Objects and Component Defects in Transmission Lines Based on Deep Learning
294	PPC-018	Gang Wang,Lizhen Wu,Xuan Gan	A Load Forecasting Method of Electric Vehicles Charging Station Group Based on GAN-RF Model
303	PPC-019	Ming Zhong,Zhenlan Dou,Xinhe Zhang,Songcen Wang,Hongyin Chen	Cluster analysis of the electricity consumption of student dormitories in institutions of higher education located in the Hot Summer and Cold Winter region in China
353	PPC-020	Hongyan Jiang,Haibin Wang,Jie Ma,Xin Zang,Lei Xue,Pengjie Wei,Zheng Wang,Dongsheng Xie,Huixia Wang,	Power Grid Reactive Voltage Control Method Based on Improved Reinforcement Learning
415	PPC-021	Zhaoyan Liu,Binfa Chen,Zhen Li,Hui Li,Dengzheng Wang,Yang Lyu,Lu Gao,Bingxu Hou	Bitcoin Mining Recognition Based on Community Detection with Electricity Consumption Data
416	PPC-022	Huiting Zhang,Lixun Zhao,Zhipeng Du	Wind power prediction based on CNN-LSTM
432	PPC-023	Liuyun Qin,Junyong Wu,Baoqin Li	Transient Stability Self-Adaptive Assessment Based on Sample Enhancement of DCGAN
451	PPC-024	Xiaoyan Ma,Changgeng Zhang,Shurong Li,Xinsheng Yang	A Data-Driven Based Energy Consumption Modeling for Heterogeneous Servers in Data Centers
454	PPC-025	Xiaohua Yang,Xianliang Wang,Lin Ai,Yachao Zhang,Qiuhong Wang,Yao Hu	Distribution network reconfiguration method considering random access of electric vehicles in cloud environment
468	PPC-026	Bingchu Jin,Zesheng Hu,Mingrui Quan,Yuxin Wang,Jianhua Wang,Huang He	Short-term power load forecasting based on self-adaptation random forest
473	PPC-027	Shuaichao Lu,Xiaochen Ma,Li Li,Yan Lv,Yingyun Sun	An Online Power System Static Security Assessment Method Based on Convolutional Neural Network
478	PPC-028	Jingge Li,Wenlong Liao,Ruiqi Yang,Chen Zechun	A Data Augmentation Method for Distributed Photovoltaic Electricity Theft Using

			Wasserstein Generative Adversarial Network
515	PPC-029	Yufan Zhang,Ai Qian,Yun Chen,Jiayu Wang,Zhaoyu Li	An Ensemble Method for Aggregated Baseline Load Estimation: From Probabilistic Perspective
517	PPC-030	He Huang,Yaming Lv,Ran Dong,Lei Xue,Zeyuan Shen,Hongli Liu,Ende Hu	Power Grid Fault Diagnosis Based on Random Forest
518	PPC-031	Qingwu Hu	A tilt angle measurement method of power tower Using UAV LiDAR point cloud
541	PPC-032	Kai Wang,Mengji Ren,Tao Qian,Xuenong Li,Ligeng Pei,Xin Zhang	Renewable Scenario Generation Based on Improved Generative Adversarial Networks
562	PPC-033	Junwei Yan,Junlin Huang	Modeling method of dew-point temperature prediction in industrial workshop based on machine learning
576	PPC-034	Zishuai Liu,Bo Liu,Wenpeng Luan,Zun Wei	Non-intrusive television recognition based on harmonic current characteristics
600	PPC-035	Jingjing Jiang,Zhenlan Dou,Haitao Yang,Min Zhao	Small-sample load forecasting of smart buildings based on feature transfer learning
602	PPC-036	Bo Liu,Jinhao Zheng,Wenpeng Luan,Zishuai Liu	Appliance power pattern mining via motif discovery in unsupervised NILM
608	PPC-037	Jinquan Zhao,Zelin Zhao,Xue Xia,Wei Cui,Zhenan Zhang,Ruiqing Shan	A Survey: New Generation Artificial Intelligence and Its Application in Power System Dispatching and Operation
613	PPC-038	Zhuoxu Chen,Haotian Liu,Wenchuan Wu,Yaping Li,Jiangping Jing,Tao Da	Direct Thermal Load Control in Active Distribution Networks Based on Deep Reinforcement Learning
645	PPC-039	Qiyue Li,Yuxing Deng,Jinjin Ding,Wei Sun,Weitao Li	Time-Frequency Memory Recurrent Neural Networks Empowered Incipient Fault Detection in Power Distribution System
650	PPC-040	Donghai Han,Yaowen Yu,Dingxin He	Model-Based and Data-Driven Contingency Filtering for Real-Time Corrective Security-Constrained Economic Dispatch
677	PPC-041	Zelin Wu,Xinghua Wang,Peng Zhou,Fucheng Zhong,Haoliang Yuan	Transmission Line Fault Location Based On the Stacked Sparse Auto-Encoder Deep Neural Network
679	PPC-042	Xiaolong Chen,Lirong Sun,Yang Lu,Chang Fei,Chengren Zhang,Zhe Hu	A Novel Fault Diagnosis Method for High Voltage Circuit Breaker Based on Density Peak Clustering
688	PPC-043	Yi Zhang,Xiaoqing Han,Baifu Zhang,Chunguang Ren,Lei Wang,Yue Qin	Feature Recognition Technology of Substation Inspection Image
692	PPC-044	Yangjun Zhou,Weixiang Huang,Bin Zhang,Li Yu	Short-term Load Forecasting Based on Modified Locally Linear Embedding Using

			Multiple Weights
701	PPC-045	Shuyi Chen,Bochao Zhao,Wenpeng Luan,Mingjun Zhong	Load Disaggregation based on Sequence-to-point Network with Unsupervised Pre-training
704	PPC-046	Zheng Yu,Yuqing Bao	Data-Driven Power Flow Calculation Based on Deep Learning
705	PPC-047	Mengyan Zhu,Yuqing Bao	Data-Driven-Based Aggregate ACLs External Modeling and Load Tracking Control Strategy
706	PPC-048	Yizhuo Gao,Xinfeng Li,Chaohao Li,Weinong Sun,Xiaoyu Ji,Wenyuan Xu	VarASV: Enabling Pitch-variable Automatic Speaker Verification via Multi-task Learning
722	PPC-049	Yitong Shang,Hang Yu,Ziyun Shao,Linni Jian	ISCP-Data: a Vehicle-to-grid Dataset for Commercial Center and Its Machine Learning Application
725	PPC-050	Yifan Wang,Junqi Zhang,Yiping Wu,Ye Tian,Yunting Shao	A Deep Adversarial Diagnosis Method for Fault Line Detection with Imbalanced Small Sample Scenarios
732	PPC-051	Jiandong Duan,Shuai Fang,Xuan Tian,Wentao Ma,Zequan Hou,Peng Wang	Electricity Consumption Forecasting using Extreme Learning Machine with the Generalized Maximum Correntropy
743	PPC-052	Zhencheng Zhou,Bo Wang,Zonghe Gao	Information Extraction Method of Power Grid Operation Mode based on Double Layer Labeling Model
750	PPC-053	Jiandong Duan,Zequan Hou,Peng Wang,Shuai Fang,Xuan Tian	Short-term electricity consumption forecasting based on long short-term memory network
757	PPC-054	Qi Chen,Zhong Li	A Transformer Vibration Amplitude Prediction Method via Fusion of Multi-Signals
759	PPC-055	Li Du,Long Cheng,Cong Liu	Process Mining for Wind Turbine Maintenance Process Analysis: A Case Study
762	PPC-056	Guolong Liu,Gaoqi Liang,Huan Zhao,Junhua Zhao,Jinjie Liu,Zhanxin Wu	A Temporal Convolutional Neural Network with Attention Mechanism for Industrial Non-intrusive Load Monitoring
817	PPC-057	Cheng Jin,Laijun Chen,Hengrui Ma,Xiaodai Xue,Shengwei Mei	Intelligent Fault Diagnosis Approach for PV Arrays Based on Sparrow Search Algorithm Optimized Kernel Extreme Learning Machine
868	PPC-058	Zhihong Huang,Jiannan Zhou,Sha Li,Wei Huang,Shuai Liu,Xiangyan Gan	Superpixels Segmentation and Low-rank Matrix Recovery for Thermal Fault Diagnosis of Power Equipments
880	PPC-059	Lingtao Zhang,Guohui Tian,Shuo Tong,Corporation Limited,Duxi Zhang,Min Lu,Shanpeng Liang	Design of Micro-service Architecture for Lightweight Dispatching and Control System
938	PPC-060	Zun Wei,Bo Liu,Wenpeng	Non-intrusive inverter air conditioner

		Luan,Zishuai Liu,Wenqian Jiang,Haishen Liang	identification using general knowledge
940	PPC-061	Yefan Wu,Chao Xu,Xiaoxiao Liu,Chao Li	Industry Kinetic Energy Index Prediction via Stacked Transformer
955	PPC-062	Min Wang,Youchun Zhai,Ping Jiang,Yi Liang,Hongwei Xu,Tao Zhou,Xiaobin Dong	Short-time Passenger Flow Forecast of Urban Rail Transit Based on the CEEMDAN-BLSTM Model
960	PPC-063	Jiatong Li,Qiushuo Li,Xiaopeng Zhang,Shuo Wang,Dong Lin,Xianzi Pengcong	A Refined Multi-layer Partition User Power Demand Analysis Method based on Multi-source Information
968	PPC-064	Rongchen Zhou,Weiwei Liu,Shuya Lei,Wensi Zhang,Lin Huang	A Machine Learning Based Sameness Recognition Method for Power System Management Information
993	PPC-065	Shiyu Zhang	Frequency Modulation Parameter Identification of Wind Farm AGC System Based on Data Driven Technology
1002	PPC-066	Tianyao Zhang,Laijun Chen,Hengrui Ma,Xiaodai Xue	Power Generation Efficiency Prediction of Photovoltaic Panel under Dust Based on Convolutional Neural Network
1005	PPC-067	Shating Qu	Path planning of electric power inspection robot based on improved lion swarm algorithm
1020	PPC-068	Jihe Xu,Jian Han,Hongli Zhu,Qionglin Zheng	Study on the Prediction of Consumer Electricity Consumption Based on Hybrid Model
1031	PPC-069	Baoju Li,Lei Wu,Pupu Chao,Yong Sun,Weixing Li,Yifan Shang	Online matching method of wind farm unit-level data
1043	PPC-070	Dawei Li,Xuyang Yu,Chen Jian,Zhiyong Lin,Ying Yao,Shuyun He,Jun Liu,Yefan Wu	Typical Load Analysis and Forecast of a Provincial Power Grid in Mid-Southern China
94	PPC-071	Guoqiang Zu,Zheng Yue,Teng Li,Yao Ying,Chunhui Zhang	Online Monitoring System for Distribution Transformer Based on Internet of Things Using Cloud-Side Framework
323	PPC-072	Chao Jin,Weiwei Miao,Zeng Zeng,Zhejing Bao,Rui Zhang	A Nonlinear White-Box SM4 Implementation Applied to Edge IoT Agents
407	PPC-073	Shen Zhang,Yongxiang Li,Zhixiang Liu,Qingsong Chen	Performance Detection and Analysis of Built-in UHF Sensors for UHV GIS Equipment
443	PPC-074	Changqing Sun	Design of Over-the-Air Firmware Update and Management for IoT Device with Cloud-based RESTful Web Services
516	PPC-075	Jiaxin Liu,Shuai Wang,Xuchen Lu,Li Tong	Research on Online Status Evaluation Technology for Main Equipment of Power

			Transmission and Transformation Based on Digital Twin
734	PPC-076	Jiajia Song,Jinbo Zhang,Zezhou Wang,Xinnan Fan,Qingqing Huang	Partial Discharge in Cable Heads: Causes and Preventive Measures for a gas insulation ring-network cabinet
761	PPC-077	Zhenfeng Xiao,Shuyun He,Xuemin He,Xinze Guo,Chao Li	Research on perception layer architecture in differentiated application scenarios for power IoT:evidence from Hunan Province
934	PPC-078	Longbo Liu,Jiping Qiao,Ruping Liu,Zhiqiang Wang	Reseach on optimization of RFID indoor positioning algorithm based on RSSI
939	PPC-079	Yan Song,Chenyang Guo,Panfeng Xu,Jidong Wang	Design of Deterministic Transmission Framework for Distributed Power System Based on Digital Twin
984	PPC-080	Huichen Xu,Dayang Wang,Wei Li,Yong Dai,Chengling Jiang,Cheng Li,Guohui Yang	A Novel Mobility Management Scheme for UAV Inspection in 5G-empowered Smart Grid
1045	PPC-081	Xisheng Tang	Digital Twin Based BESS State Estimation and Operating Opimization
610	PPC-082	Yonghe Guo,Yan Longchuan,Chen Zhiyu,Ziyan Zhao,Dongxia Bai,Zhenquan Ding,Yongyuan He	Defending 5G IoT Terminals in Electrical PowerCommunication and Information System Against Cyber Threats
43	PPC-083	Wen Xiang,Ying Wang,Xiuyun Gao,Qun Zhang,Ran Sun,Zhenggang Gu,Qi-Rui Zhang	Design and Implementation of Internet of Things System Based on Customer Electricity Behavior Analysis
119	PPC-084	Hongbo Wei,Dagui Li,Zhihao Zheng,Xiongbao Zhang,Shidi Ruan,Yixuan Tang	Post Disturbance Review System based on Multi-Source Information
236	PPC-085	Qingfeng Wen,Songbo Wang,Longji Li,Xuegang Li,Zehui Liang,Wei Guo,Xin Guo,Qinghua Tang,Chun He,	Technical Requirements for Autonomous Point Cloud Collection and Autonomous Inspection of Unmanned Aerial Vehicle
255	PPC-086	Likun Chen,Xuzhu Dong,Jinglei Deng,Bo Wang,Shang Lei,Zhuhu Hua	Non-uniform Quantisation Current Differential Protection Algorithm Applied On Power Specific Integrated Circuit
505	PPC-087	Fangliao Yang,Pohuang Jiang,Jianwei Tian,Xiaohui Chen,Hongming Yang,Yibo Chen,Yusi Chen	An Edge Gateway Communication Load Balancing Method considering Service Timing Logic in Distribution Area
865	PPC-088	Ziling Wang,Mingze Zhang,Zhou Jinhui,Luan Wenpeng,Liu Bo,Li Tong,Zhida Sun	Single-phase grounding fault line selection in un-effectual grounding systems based on low-voltage measurements
937	PPC-089	Qin Li,Zhihan Zhu,Xuesong	A Novel Substation Networking Methodoloy

		Huo,Dehui Chen,Yang Gui,Dehui Wang,Huang Xin	with visulization and Supervision Support
30	PPB-032	Pengchao Yao,Weijie Hao,Bingjing Yan,Tao Yang,Jinming Wang,Qiang Yang	Game-Theoretic Model for Optimal Cyber-Attack Defensive Decision-Making in Cyber-Physical Power Systems
123	PPB-033	Peikai Li	Distributed Cooperative Clearing Model of Peak Regulation Ancillary Service Market Under Cyber-Physical Systems
191	PPB-034	Zhongwei Sun,Xiaohuan Zhou	An Authentication Scheme for Smart Charging of Electric Vehicles
199	PPB-035	Fan Zhou,Zhongyang Han,Jun Zhao,Wei Wang	A Dynamic Simulation Framework for Integrated Energy System
203	PPB-036	Xiaoyuan Luo,Bai Min,Xinyu Wang,Xueying Sun	Square-root Extend Kalman Filter-based Detection of False Data Injection Attack in Smart Grids
243	PPB-037	Xinyu Wang, Panpeng Chen,Xiaoyuan Luo,Xueying Sun	Detection of False Data Injection Attack in Smart Grid via Sliding-Mode Interval Observer
275	PPB-038	Feng Zhou,Shicheng Hu,Haoliang Hu,Dong Li,Jun Yang,Junchang Huang	Study on Self-Monitoring Scheme of the Accuracy Deviation for the Merging Unit
307	PPB-039	Bingjing Yan,Pengchao Yao,Tao Yang,Jinming Wang,Wei Ruan,Qiang Yang	Game Theoretical Dynamic Cybersecurity Defense Strategy for Electrical Cyber Physical Systems
422	PPB-040	Peng Li,Wei Xi,Xiaowen Jiang	Fault-tolerant design of power edge computing processor based on full-hardware dual-core lockstep
430	PPB-041	Kaishun Xiahou,Yang Liu,Qinghua Wu,Guoqing He	Analysis of Cyber Attacks on Wind Power Generation Systems in Damping Inter-area Oscillations of Power Systems
506	PPB-042	Fangliao Yang,Xin Huang,Xiaohui Chen,Shi Zhu,Hongming Yang,Yibo Chen,Yusi Chen	Design of Adaptive Power Distribution Protocol Conversion System based on MQTT Cloud Edge Interaction
561	PPB-043	Fang Cao,Jiatong Hu	Destination-driven EV Fast Charging Station Capacity Configuration
577	PPB-044	Qiang Lan,Shuyu Jia,Qinglai Guo,Peng Yang,Li He	A Cyber Risk Assessment and Detection Method for Power Systems Against Data Integrity Attack on Load Frequency Control
578	PPB-045	Shuyu Jia,Qinglai Guo,Luo Xu,Weihua Luo,Shu Zheng,Chengjiang Liu	An Active Defense Mechanism for Cyber-Physical Power Systems Against Data Integrity Attack on ADMM-Based Economic Dispatch
812	PPB-046	Yuqian Zhang,Minkun	Information-Flow-Based Cyber-Physical

		Wang,Qinglai Guo,Luo Xu,Quan Qing,Yan Wang	Testbed for Power System Considering Cyber Contingency
816	PPB-047	Zhukun Li	A security protocol for smart meters
946	PPB-048	Le Luan,Heping Peng,Wenxiong Mo,Yong Wang,Xu Zhong	Step size adjustment method of digital-analog hybrid simulation for complex active distribution network
953	PPB-049	Yude Yang,Shangneng Huang	Research on Coordinated Cyber-Physical Attack Without Network Topology Information
986	PPB-050	Guanchen Liu	Electromagnetic Protection Optimization of the Intelligent Electronic Devices Based on the Passive EMI Filter Design
1040	PPB-051	Wei Hu,Xianxu Li,Xueqin Gao,Tao Shang,Penglin Hou,Da Li	A Vulnerability Identification Method of Power System Based on Infomap Community Discovery Algorithm
1041	PPB-052	Xianxu Li,Wei Hu,Penglin Hou,Tao Shang,Xueqin Gao,Da Li	Optimal Attack Strategy of Power Grid based on Double Q-learning Algorithm

Paper Poster Session 4: Oct.25th, Sunday 08:00 - 17:00, On line room 4

Paper Poster Session 4: D.Market Mechanism and Policy Supporting Energy Internet & A.Renewable Energy Grid Interconnection

Time & Place: Oct.25th Monday 08:00 - 17:00, On line room 4

Paper Number	Poster Number	Author	Title
109	PPD-002	Kaiying Li,Xiuli Wang,Xuanyue Shuai,Zhenzi Song,Xianlong Chen,Jie Li	Modelling in Integrated Energy Trading System Under an Incentive-Compatible Market Mechanism
121	PPD-003	Yue Zhang	Research on Investment Management of Residential Power Supply Project
171	PPD-004	Bo Liang,Lei Xie,Hanqi Li,Shangwen Dai,Yang Yang,Guanting Chen	Analysis and Decision-making of Excess Renewable Energy Consumption Trading between Electricity Retailers Based on Evolutionary Game
314	PPD-005	Jiaqi Ruan,Shuyi Wang,Junhua Zhao,Gaoqi Liang	Customized Pricing Strategy of Residential Consumers in Retailers for Demand Response
396	PPD-006	Jing Liao,Ming Wen,Li Zhang,Hang Li	Energy Storage System Value Analysis and Value Recovery Mechanism Research
401	PPD-007	Liang Xu,Xiaoliang Dong,Honghai Tang,Yuge Sun,Yuqi Fan,Tao Ding	A Multi-Participant Dynamic Game Model in Electricity Market Under Renewable Portfolio Standard and Green Certificates Trading
431	PPD-008	Xin Ma,Han Wu,Junyi Yang,Yue Yuan,Qiang Li	An Analytical Long-Run Incremental Cost Pricing Model for Stochastic Power Flow
436	PPD-009	Junwei Fan,Jizhong Zhu,Wanli Wu,Hanjiang Dong,Haohao Zhu,Tengyan Luo	Revenues Allocation Model and Evaluation Method for Joint Transaction of Wind-Thermal Power Generation Rights Based on Cooperative Game
450	PPD-010	Meng Yang,Shiqian Wang,Dawei Song,Yao Lu,Yingqi Yang,Fuqiang Zhao	Pricing method in retail electricity market considering the fatigue life of wind turbine gearbox
452	PPD-011	Jianlin Li,Xingwu Guo,Xing Chen,Zhe Chai,Fuqiang Zhao,Yingqi Yang	Insurance Pricing in Electricity Retail Market Based On Reliability Analysis
453	PPD-012	Dawei Song,Meng Yang,Shuo Yin,Xingwu Guo,Yibo Li,Youxin Sang	Price Determination Method in Electricity Retail Market considering the Voltage-Related Distribution Network Reliability
456	PPD-013	Shuo Yin,Xing Chen, Zhe Chai,Jin Man,Youxin Sang,Yibo Li	A Power-Quality-Based Pricing Method Considering Resonance in Electricity Retail Market
499	PPD-014	Tao Zhou,Hanhan Qian,Wei Zhang,Tao Hu,Shenghu Li	Trading Interval Optimization Based on the Pricing Strategy of Adjustable Load

514	PPD-015	Lu Zhao,Xianglu He,Li Fan,Qing Gong,Yaowu Wu,Litao Ouyang,Yunhao Xiao	The Evaluation Index System and Method of Electricity Spot Market Based on SCP Theory
545	PPD-016	Jianbin Xu,Peibo Sun,Ming Zhou,Yikai Sun,Di Wu,Zhaoyuan Wu	Simulation analysis of imbalance settlement cost in real-time balancing market based on ABM model
605	PPD-017	Jinquan Zhao,Bo Cong,Yuhua Yang,Hongbo Ye,Xiaobo Ling,Xiaotian Wang	Two Stage Deep Peak Regulation Ancillary Service Market Clearing Model Considering Virtual Power Plant
638	PPD-018	Zhe Luo,Ye Guo,Hongbin Sun	Real-time Incentive-based Demand Response for a Virtual Power Plant: a Rolling-window Multistage Stochastic Programming Approach
724	PPD-019	Xu Zheng,Ye Guo,Hongbin Sun	On the Convergence to Nash Equilibrium in Retail Electricity Markets
819	PPD-020	Hongbo Wei	Research on System Architecture of Peak Regulation Ancillary Service Market for Guangxi Power Grid
843	PPD-021	Peiheng Duan	Research on transaction and settlement mechanism of new energy resources participating in Yunnan power market
848	PPD-022	Zihao Li,Wei Sun	The Future of GB Electricity Supply: Carbon Neutral Impact on Electricity Wholesale Price
853	PPD-023	Te Xiang,Peng Li,Gang Wang,Wang Nan,Xulu Fan,Yaru Zhao	Reliable Electricity Pricing Method of Distribution Network Considering Outage Loss Increment and Differentiated Demand
943	PPD-024	Gaoquan Ma,Bangcan Wang,Mengfei Xie,Tao Sun,Qian Zhang	Dynamic time-of-use discharging price strategy of electric vehicle participating in electricity market concerning users risk appetite
952	PPD-025	Peng Yu,Yunpeng Xiao,Chao Gong,Yu Yu	Spot trading scheme for realizing self-balanced operation in electrical power distribution networks
958	PPD-026	Sibin Lu,Kai Feng,Jianfeng Yang,Jingxin Luo,Qiang Song,Yu He,Na Rong	Investment Evaluation Index System for Pilot Projects of Incremental Distribution Network
981	PPD-027	Lu Tan,Nian Liu	A peer-to-peer energy sharing framework for prosumers considering network constraints and social preferences
1029	PPD-028	Shiyu Liu	"Energy Red Packet" Incentive-based Bidding Mechanism and Its Benefit Sharing in the Transactive Energy Market
1039	PPD-029	Chang Liu,Yong Sun,Yuan Jiang,Xing Wang,Kailin Zhang,Lei Zhang,Baoju	Transaction Mechanism of New Energy in Electricity Market

		Li,Liang Sun	
37	PPD-030	Jiajie Tang,Jie Zhao,Yiqin Tang,Hongliang Zou,Xu Jiang,Yuqin He	TIME SERIES UPDATING FORECASTING METHOD OF ENERGY CONSUMPTION BASED ON VMD-LSTM
100	PPD-031	Xuanyue Shuai,Xiuli Wang,Yutian Chen,Zhenzi Song,Bangyan Wang	A Hierarchical Optimization Model for Shared Energy Storage and Multiple PV Prosumers: A Heuristic Algorithm and Stackelberg Game Method
149	PPD-032	Ling Gao,Lihua Ma	Coordinated Energy Management of Networked Microgrids in the Distribution Market
168	PPD-033	Xin Peng,Bin Duan,Xiangxiang Xiao	Research on Transaction and Market Mechanism in Micro-grid Considering Matching Degree between Supply and Demand
302	PPD-034	Baorong Zhou,Lanfen Cheng,Peizheng Xuan,Xiangrui Su,Tang Chong,Hui Yu,Jingliang Wang	Simulation Analysis of the Hydro and Thermal Electricity Replacement Trading Model Between Yunnan and Guizhou Provinces Based on Prophet
340	PPD-035	Lei Wang,Zhengxuan Tao,Liuzhu Zhu,Xuli Wang,Chenxu Yin,Hao Cong	Optimal scheduling of integrated energy systems considering the resource trading among users
357	PPD-036	Zongyao Zhu,Xiuli Wang,Wang Yifei,Jing Huang,Xianlong Chen	Cooperative Operation for Rooftop Photovoltaic Distributed Generation and Residential Buildings
575	PPD-037	Changhai Yang,Jianjun Tuo,Zhengying Liu,Yongcheng Liu,Jichuan Yan,Fei Wang	Optimal Scheduling Strategy of Demand Response Aggregators Considering Customers' Complicated Response Characteristic
664	PPD-038	Xiuning Zhou	Dispatch of Pumped-hydro-solar Hybrid System in Day-ahead Market with Contract Energy Decomposition Constraint
670	PPD-039	Jingshu Yang,Bowen Chen,Ting Liu,Ting Leng,Rongwei Qin,Jingshu Yang	Optimization model of short-term positive deviation electricity assessment of power selling companies considering incentive demand response
720	PPD-040	Zekai Li,Yitong Shang,Ziyun Shao,Linni Jian	A Novel V2V Charging Mechanism based on Bargain Model within the Scheme of Internet of Smart Charging Points
190	PPD-041	Jinhuan Guo,Kaile Zhou,Jie Chong	A credit management mechanism for peer-to-peer electricity trading in blockchain environment
312	PPD-042	Lei Xue,Zhigang Wang,Chunhui Li,Yahong	Research on the application of block chain in promoting the consumption of renewable

		Xing,He Huang,Xin Zang,Hongyan Jiang,Yachen Wang,Liang Tian,	energy
1028	PPD-043	Bin Zhu,Zheng Chen,Ning Wang,Zheng Qiao	Research on Distributed Power Trading Based on Blockchain Technology
15	PPA-046	Linkun Han,Yanbin Qu,Tao Shi,Yichen Wang,Huihui Song	Clustering Method of Heterogeneous Distributed Units in Low Voltage Distribution Network
16	PPA-047	Yuxiang Wan,Cheng Lin,Helin Xu,Ning Qi,Liting Tian	Photovoltaic Generation Scenario Analysis Considering Irradiation Uncertainty and Output Derating Probability
34	PPA-048	Wenyang Deng,Ziwen Liu,Yongjun Zhang,Siting Dai	Analysis and Design of a Virtual-impedance of Capacitive Energy Router in Active Distributed Network
66	PPA-049	Wei Zhang	Grounding Characteristic Analysis of MVDC Distribution System Based on Matlab Simulink
74	PPA-050	Hui Duan,Huiwen Qi,Chunhui Li,Lianghong Zhang,Jingjing Wang,Jin Gao	Research on Reconfiguration Strategy of Distribution Network Based on Improved Group Search Optimization Algorithm
93	PPA-051	Lei Wang,Guoqiang Zu,Mingxiang Liu,Shiyong Feng, Chun He,Qinghua Tang	Influence of Distributed Generation and Demand Response on Security Region for Active Distribution Networks
96	PPA-052	Weijun Li,Dingmei Wang,Zhou Qiang,Haiying Dong	Energy Efficiency Evaluation of Photovoltaic Power Generation System Based on Analytic Hierarchy Process and Fuzzy Comprehensive Evaluation
103	PPA-053	Jiehui Zheng	Distribution network expansion planning with considering distributed generation and reliability index
118	PPA-054	Wei Lin,Wei Wu,Yi Lin	Toward the Reactive Power Compensation Optimization in Fujian Power System
120	PPA-055	Jasur Abdubannaev,Shuaichao Lu,Xin Ai,Yingyun Sun,Nilufar Makhamadjanova,Mansur Khasanov	Investigate the Use of Electric Vehicles to Improve Resilience for Active Distribution Network System
127	PPA-056	Fan Wang,Bin Ding,Shujun Zhao,Jie Liu,Yunhui Chen,Jiaming Cai	Research on Optimal Sizing and Location of Substation According to Point Load Forecast Based on BIM
131	PPA-057	Zhi Gao,Junyong Wu,Wensheng Li,Zhijie Zheng,Lujie Qi,Yang Yang	Reactive Power Optimization of Distribution Network Based on Deep Reinforcement Learning and Multi Agent System
134	PPA-058	Pengfei Han,Dan Zeng,Le Zhao,Xuejun Xiong,Yuyao	Comprehensive Evaluation of Various Linear Programming Solvers for SCED in Power

		Feng,Zheng Yan	Systems
135	PPA-059	Wang Lei,Siming Zeng,Tiecheng Li,Ziwei Cheng,Lianbing Li,Kaining Zhang	Active and reactive power coordination optimization method of distribution network based on improved PSO-GA algorithm
145	PPA-060	Fenyu Huangfu,Xi Zhang,Zhen Zhang,Jungang Huangfu,Jiacheng Lv,Haihang Liu,Qixin Zhao,Yujia Li	Optimized operation of Distribution Network with photovoltaic Power Generation
163	PPA-061	Hao Chen,Defei Yao,Yi Lin,Guilian Wu,Shiyuan Ni,Hongquan Li	Power Capacity Planning on Integrated Multi-Energy System of the Industrial Park
164	PPA-062	Ting Leng,Jingjie Huang,De Zhang,Haifeng Yu,Shiyao Jiang,Ting Wen	Optimal scheduling of price-based demand response in microgrid with classified load change rate
182	PPA-063	Xin Li,Yongping Chen, Shukai Zhang	Optimal Planning Method of Renewable power Distribution Network Based on Dynamic Wind and Photovoltaic Power Abandonment
183	PPA-064	Heping Peng,Wenxiong Mo,Yong Wang,Le Luan,Zhong Xu	Fault Location Algorithm for Multi-Terminal Transmission Lines of Distribution System Based on Loop-Analysis
184	PPA-065	Luo Li,Wen Li,Xing Li	A Power Grid Planning Method Considering Dynamic Limit of Renewable Energy Security Constraints
186	PPA-066	Luo Li, Shukai Zhang,Wensong Zhang	A New Comprehensive Planning Method of Transmission Network with Various Functional Attributes
194	PPA-067	Lv Yang	Comprehensive situation assessment method of regional distribution network considering massive renewable energy access
218	PPA-068	Xin Li,Yongping Chen,Xing Li	A New Wind Power System Coordinated and Complementary Control Strategy with Hydrogen Storage System
222	PPA-069	Yao Jin,Tianhao Wang,Yueqi Liu	Hierarchical State Estimation Method for Tree Structure Distribution Network
225	PPA-070	Hu Wei,Yu Shen,Zhichun Yang,Fan Yang,Lei Su,Xiaoyu Yang	Fast evaluation method of plug and play access capacity for distributed generation in distribution network
270	PPA-071	Jianyu Sun,Peng Wang,Shushan Li,Shuangkui Sun	Optimal Operation Scheme of Integrated Energy System With Wind Energy-Solar Energy-Hydrogen Storage
273	PPA-072	Junzhang Lv,Jianyu Sun,Shuangkui Sun	Optimal Robust Energy Management of Microgrid Based on Fuel Cell, Hydrogen Storage Unit and Response load

274	PPA-073	Junzhang Lv,Shuangkui Sun,Jianyu Sun	Application of Power Grid System Based on Hydrogen Energy in Improving Power Quality
280	PPA-074	Yao Wang,Zhe Yin,Yiming Kang,Kaikai Wang,Yingying Hu,Yongming Jing,Yan Liang,Jie Chen	Research and demonstration of planning and decision-making tools based on power grid full cost chain
281	PPA-075	Kaikai Wang,Hongli Liu,Fan Xue,Yao Wang,Yan Liang,Zhe Yin,Peng Wang,Jiaojiao Deng	Research on Full Cost Chain Model of Power Grid Development and Operation
282	PPA-076	Kaikai Wang,Yiming Kang	Research on Optimal Models and Methods for Coordinated Planning of Transmission and Distribution Networks Based on Quantitative Analysis of Power Network Full Cost Chain
292	PPA-077	Chen Ke,Wang Weidong,Sijia Liu,Chunsheng Feng,Zhenlin Wang,Xiuyuan Yang	Parabolic Rule Variable Filtering Time Constant Demand Response Method Considering SOC State of Wind Power Storage
299	PPA-078	Jianyu Zhou,Chen Xia,Linfang Yan,Jinyu Wen	Resilient distributed voltage control against destabilization attacks in DC microgrids
310	PPA-079	Fan Li,Fengxia Li,Kaixuan Yu	Optimal configuration of isolated DC microgrid capacity based on CBPIO algorithm
343	PPA-080	Huiqiang Zhi,Min Zhang,Rui Li,Jun Zhao,Jinhao Wang,Xiaobo Li,Jing Cao,Ran Li,Le Gao,	A Power-based Piecewise Probabilistic Harmonic Model of Secondary Residential System
373	PPA-081	Yu An,Lijuan Fan,Hongxin Li	An Adaptive Resilient Control Strategy of Multiple DERs Considering Unreliable Communication in Active Distribution Network
394	PPA-082	Hengyu Su,Zhiyu Mao,Peiqiang Li	Robust parameters based on VSG & Virtual inductor design considering power decoupling
395	PPA-083	Zhiyu Mao,Hengyu Su,Peiqiang Li	Active and reactive power coordination optimization of wind-light-storage and distribution network based on improved Gray Wolf algorithm
403	PPA-084	Wei Zhang,Yi Gu,Yi Zhang,Jialei Zhang,Fengzhang Luo,Xin Yang	A Carbon Emission Flow Analysis Model and Method of Active Distribution System Based on Power Flow Tracing
410	PPA-085	Zhi Xu,Risheng Qin,Hongsheng Ma,Jia Lu,Jianxiong Tang,Yongchun Yang	Research on the optimal regulation strategy of loop closing device based on phase shifting transformer
424	PPA-086	Peng Zhou,Xinghua Wang,Xiangang Peng,Zelin	A Practical Evaluation Method for Power Supply Capacity of Distribution Network

		Wu,Haoliang Yuan	
433	PPA-087	Hong Shao,Han Wu,Junyi Yang,Yue Yuan,Qiang Li	A Novel Pricing Method Based on Robust Optimization with EVA Participation
448	PPA-088	Fei Gao,Yajie Li,Yu Zhang,Jianfang Li,Lu Yin	Research on Optimal Operation of Energy Storage System for Improving Consumption of High Penetration Distributed Generation
465	PPA-089	Chao Wang,Jingyu Zhang,Liang Tian,Lei Xue,Yuming Zheng,Lin Liu	Short-term Load Forecasting Based on Kprototypes Clustering and Random Forest

Paper Poster Session 5: Oct.25th, Sunday 08:00 - 17:00, On line room 5

Paper Poster Session 5:E. Key Equipment of Energy Internet & A.Renewable Energy Grid Interconnection

Time & Place: Oct.25th Monday 08:00 - 17:00, On line room 5

Paper Number	Poster Number	Author	Title
731	PPE-002	Hang Yu,Yitong Shang,Ziyun Shao,Linni Jian	A Reconfigurable Hybrid AC/DC Microgrid Clustering Architecture with Decentralized Control for Coordinated Operation
996	PPE-003	Elena Sosnina,Evgeny Kryukov,Rustam Bedretdinov	The Effect of the Thyristor Energy Router on the Harmonics
329	PPE-004	Han Zhang,Baoquan Wan,Wei Hu,Xiongjie Xie,Zuoming Xu,Pengbo Yin	Moisture Content Evaluation Method of Resin Impregnated Paper Insulation for Dry-type Bushing Using Dielectric Modulus
347	PPE-005	Jiafu Wu,Songhuai Du,Juan Su,Yue Xia,Xun Du,Hongfei Zhang	Research on Double Active Clamping Single Staged Backward AC-AC Converter
405	PPE-006	Ping Liang,Tiannian Zhou,Baohui Chen,Chuanping Wu,Yu Liu	Experimental study on the effectiveness of water mist containing surfactant on extinguishing transformer oil fire
455	PPE-007	Chang Xiao,Le Gao,Min Zhang,Rui Li,Hao Zhang,Runquan Meng	Bidirectional Buck/Boost Converter Based on SiC MOSFET
459	PPE-008	Dingbang Zhang,Runquan Meng,Shaozhe Jiang,Hao Zhang,Yufeng Li,Rui Cao	Flexible control strategy for AC/DC bus interface Converter in hybrid microgrid
625	PPE-009	Jintong Nie,Yingchao Zhang,Taixun Bai,Yijun Shen,Zican Wang,Rui Li,Tianwen Zhan,Ruiwei Zhang	Blockchain Based Secure Decentralized Energy Management System for Interconnected Vehicular Power Electronic Transformer Microgrids
713	PPE-010	Jiaqi Li,Yi Ding,Zhe Chen,Min Le,Kangsheng Cui,Jian	Research on Isolation Scheme of A Distribution Power Network With

		Shi,Biao Zhao,Xiaoting Ma,Haibo Li,	MVDC-Flexible Interconnection Based on MMC
22	PPE-011	Shuxuan Song,Pengfei Zhang,Xudong Yao,Hongyuan Yin,Chao Lu,Boyang Li	Active Equalization Circuit and Control Design of Series Battery Pack Based on Single Inductance
64	PPE-012	Hua Huang,Xiaozhou Wang,Xiaopin Deng,Liu Bin	Molecular dynamics simulation on high temperature pyrolysis of transformer insulating oil under thermal stress
84	PPE-013	Jianlin Li,Yaxin Li,Yilin Cui,Yuqing Liu,Heng Xiao,Yiwen Wu	Consistency Evaluation of Retired Power Battery based on the Analytic Hierarchy Process Method
105	PPE-014	Guowei Zhou,Yiwen Shi,Qilong Wang,Xiangrong Chen	Research on AC and High Frequency Breakdown Characteristics of Oil-paper Insulation of 220 kV Current Transformers
106	PPE-015	Guowei Zhou,Qilong Wang,Yiwen Shi,Xiangrong Chen	Research on Deterioration Mechanism of Oil-paper Insulation of 220 kV Current Transformer
138	PPE-016	Jianlin Li,Yiwen Wu,Suliang Ma,Yaxin Li,Kai Xu,Yifeng Yan	Research on fault detection method of LiFePO4 battery based on two dimensional residuals
189	PPE-017	Ruhao Wu,Xinyu Wei,Xanwu Huang,Shaoming Jiang,Jianda Liu,Zhaolin Ni,Xiaoxing Wei,Zhidong Jia	The Effect of Salt Fog on Electric Joint Compound used in Southeast Coastal
200	PPE-018	Yue Zhang	Research on Economy of Electrochemical Energy Storage System under Peak-Valley Price Difference and Whole Value Mode
202	PPE-019	Jianlin Li,Yuliang Tan,Yaxin Li,Dezhi Xu,Suliang Ma	Electrochemical energy storage technology and its application analysis
278	PPE-020	Yuanfei Li,Nan Zheng,Jun Zhang,Qiyuan Cai,Xiaorui Qian	Planning Model for Electric Vehicle Charging Station Considering Battery Capacity
342	PPE-021	Ke Liu,Keshan Che,Xuan Wang,Han Yan,Jia Yang,Jinzhao Zhao,Yutong Liu,Pengfei Chen,Haimeng Chen,	Harmonic Modeling and Analysis of STATCOM Considering Frequency Coupling
363	PPE-022	Chutong Wang,Xiaoyan Zhang,Luyu Wang,Chuangxin Guo	Optimal configuration of energy storage system of multi-station fusion model considering renewable energy consumption
365	PPE-023	Tiannian Zhou,Chuanping Wu,Baohui Chen,Zhu Hongzhang,Yu Liu	Fire suppression and cooling effect of perfluorohexanone on thermal runaway of lithium-ion batteries with large capacity
378	PPE-024	Ning Xie,Bing Zhao,Wei Zhao,Zhao Yanjun,Zhiwen	High-frequency Isolated and Large Capacity Power Conversion System Based on SiC

		Xie,Wang Wei	MOSFET
384	PPE-025	Zhijun Wang,Jianying Zhong	Development of Temperature Rise Simulation APP for Three-phase Common Enclosure GIS/GIL
412	PPE-026	Guanjun Li,Haojie Yu,Zhao Liu	Research on zero sequence circulating current suppression of parallel inverter system with common AC and DC bus
445	PPE-027	Zhaobo Song,Linghui Meng,Zeliang Shu	Influence and Suppression Control Strategy of DC Voltage Ripple on Single-Phase Back-to-Back Three-level Converter
470	PPE-028	Pengjia Shi,Linyao Zhang,Zhenshan Zhu,Hailin Zheng,Zhimin Weng,Buying Wen	Optimal Energy Storage Allocation and Benefit Analysis for Electricity Retailers
484	PPE-029	Xu Li,Pengxian Song,Longji Li,Jing Fang,Mingzheng Zhu,Zhanpeng Wei	Influence of Humidity on Partial Discharge Characteristics of Cable Buffer Layer under Different Electric Fields
496	PPE-030	Jun Zhao,Yu Wen,Da Lei,Xiangyu Guo,Jun Yan,Lei Feng	A calculation method of energy storage allocation in Shanxi Power Grid Based on abandoned power
529	PPE-031	Qi Tengyun,Wu Qiren,Liu Jianping,Fei Xu,Yajing Li,Li He,Yiming Wang,Cuiping Li	Capacity and Power Allocation Strategy of Energy Storage Participating in Grid Peak Shaving
615	PPE-032	Junji Feng,Wei Wang,Xiaoguang Ma,Wang Nan,Ma Hao,Jufang Wei	Insulation Breakdown Failure Analysis of a 500kV Power Transformer in Lightning Impulse Test
658	PPE-033	Jiaqing Yang,Liu Zhao,Jianguo Lyu,Li Ding,Lu Yiyan	A Voltage Vector Superposition Based Control Strategy for High Voltage Capacitor Ageing Test Used Multilevel Cascaded Converter Fed with Single DC Source
676	PPE-034	Chenguang Gao,Zhijie Wang,Yadong Liu,Hongliang Zhang,Yinping Zhou	Research on Optimization Technology of turn to turn protection Considering Saturation of high voltage bus shunt reactor
747	PPE-035	Lulu Huang	Current Regulation of Grid-Forming Converters
768	PPE-036	Zhiwen Xue,Yanmei Xu,Yinghui Han,Feng Gao,Wenkun Jiang,Yongqi Zhu,Kaite Li,Qinglai Guo,Jiami Sun,	Energy Internet: A Novel Green Roadmap for Meeting the Global Energy Demand
769	PPE-037	Yabing Yan,Hui Li,Fan Ouyang,Wenwu Liang,Hao Xu,Wang Ding	Design of Basic Control Strategy for Energy Storage Type MMC
798	PPE-038	Fengchun Ye,Hui	Layout scheme of energy storage stations for

		Huang,Hongqiang Li,Zhaohui Qie,Chang Hai Jun,Yang Hu	multi-application requirements
839	PPE-039	Xu Yang,Jinyin Zhang,Mingyang Li,Gulin Xia,Jinzhuang Lv,Xiaoxing Wei,Zhicheng Xie	Research on Temperature Rise of ±800kV VSC-DC Wall Bushing Superposed By DC and AC Loads
878	PPE-040	Xiaoyun Song	Problems and Technology Development Trends of Hydrogen Production from Renewable Energy Power Electrolysis
917	PPE-041	Ming Yang,Wu Cao,Zhiyang Hu,Jianfeng Zhao,Jing Song,Li Wei	Fast Tracking Phase-Locked Loop Based on Complex Vector Form and Phase Difference Interval Judgment
954	PPE-042	Zhijun Han,Zhibo Yu,Dongfeng Han,Kesheng Wang,Jinwen Gao,Cunjun Bai	Design and Analysis of Universal Clamps for UHV Transmission Lines
1018	PPE-043	Ke Zhao	Research on the Movement and Partial Discharge Characteristic of Free Metal Particles in GIS
1019	PPE-044	Ke Zhao	Influence of Spacer on the Movement Law of Free Metal Particles in GIS
1025	PPE-045	Yalun Li,Jiuyu Du,Languang Lu,Minggao Ouyang	Analysis on Self-heating Process of Battery Modules in Energy Storage Station Based on Equivalent Circuit Model
1036	PPE-046	Wenjie Zhang,Jiancheng Song,Chunyu Xv,Hui Ren,Yunguang Gao	Implementation of constant current/constant voltage output based on switching circuit for Battery Charging Applications
469	PPA-090	Jianfang Li,Yu Zhang,Fei Gao,Yajie Li	Hierarchical optimization method of distribution network considering coordination and interaction of source-network-load
479	PPA-091	Shu Zhou,Zhipeng Xue,Lin Ai,Yuanyuan Hu,Anting Cao	Distribution network fault location method based on graph theory and deep learning under charging load access
487	PPA-092	Chengwei Lou,Jin Yang,Liang Min	Symmetrical Semidefinite Programming with Bifurcation Phase-Changing SOPs for unbalanced Power Distribution Networks
493	PPA-093	Xinwei Shen,Hongke Li	Large-scale Offshore Wind Farm Electrical Collector System Planning: A Mixed-Integer Linear Programming Approach
498	PPA-094	Hongxia Ma,Li Lai,Jianyu Sun	A New Coordinated Load Distribution Network Planning Method Considering Demand Response
502	PPA-095	Bo Zeng,Zhiwei Zhu,Hongwei Mu,Wenshi Wang,Zhe Zhang	Optimal Operation Management of Distribution System Based on Electro-Thermal Game

522	PPA-096	Lu Gao,Zhen Li,Pingfa Huang,Dengzheng Wang,Binghui Li,Zhiqiang Dai,Shaoting Feng,Fengzhang Luo	Design and application of electrical analysis and calculation module for integrated power grid planning
538	PPA-097	Tong Xu,Wenchuan Wu,Xuesong Zeng	Feedback-based Optimal Dispatch for Virtual Power Plants in Active Distribution Networks
546	PPA-098	Liu Yang,Zhang Junhong,Wu Xiaokang,Wang Xuming	Research on Small Signal Stability of Medium Voltage DC Shore Power System
587	PPA-099	Jinhao Wang,Shengwen Li,Le Yang,Wenping Qin,Chang Xiao,Yizhao Liu,Yang Yang,Yong Ren	Research on comprehensive index evaluation system of hybrid AC/DC distribution networks
590	PPA-100	Chunyu Cao,Wen Zhang,Chunyi Wang,Lei Liu,Xiaoting Yang	Multistage Optimal Allocation of Gas Turbines in Integrated Electricity and Natural Gas Systems
599	PPA-101	Qian Zhang,Yang Bai,Xiaoang Wang	Optimal Recovery Scheme of Power System Considering Available Resources in Micro-grids
618	PPA-102	Jiahui Yin,Xinhui Du,Hesheng Yuan,Meiqin Ji,Xiaoxi Yang,Shuang Tian,Qianchun Wang,Yaojun Liang	TOPSIS Power Quality Comprehensive Assessment Based on a Combination Weighting Method
629	PPA-103	Junshuang Li,Yuli Feng,Hu Yan	Load forecasting of 5g base station in urban distribution network
630	PPA-104	Yueshuang Bao,Xueting Cheng,Pi Jun,Zhang Yifan,Hou Chenjia,Yucun Guo	Selection strategy of virtual power plant members considering power grid security and economics of virtual power plant
634	PPA-105	Hsingtzu Wu,Dawei Wang	A new method to compare performance of forecasting models
636	PPA-106	Kefeng Yuan,Wanhai Wu,Liwei Du,Zhenhua Xie,Liang Du	Arc fault detection method based on high-frequency electromagnetic component
643	PPA-107	Ying Wang	Study on Evaluation of Renewable Energy Accommodation for Receiving Power System and Influencing Factors
647	PPA-108	Zhen Wang,Xinwei Shen,Hongbin Sun	An Integrated Energy Distribution System Planning Method with Multiple Energy Storage Systems
657	PPA-109	Yunhui Chen,Lingjie Cao,Fan Wang	Research on Optimal Configuration Method of Devices for Integrated PV Storage and Charging Station
674	PPA-110	Yahong Xing,Zhiwen Zhang,Jianbin Wu,Haibo Zhao	Evaluation System of Distribution Network Admission to Roof Distributed Photovoltaic Based on AHP-EW-TOPSIS

694	PPA-111	Nan Zheng,Qiyuan Cai,Yinan Li,Keren Chen,Yuanfei Li,Changyong Lin,Wenyue Cai	The Multi-stage Substation Coordinated Planning Method Considering the Overall Economy
695	PPA-112	Nan Zheng,Yinan Li,Qiyuan Cai,Keren Chen,Yuanfei Li,Changyong Lin	The Coordinated Planning of Distributed Generation Considering the Electric Price Optimal Strategy
708	PPA-113	Quanlin Tao,Ling Zhu,Fusuo Liu,Xuemao Zhao,Zhenlin Ni,Delong Zou	A Method for Optimizing Reactive Power Compensation Configuration Scheme Based on New Energy Low Voltage Ride Through Safety Assessment
727	PPA-114	Ming Wen,Xin Pan,Yun Zhang,Qinghong Guo,Jing Liao	A Joint Strategy of Air-Conditioning and Electrolytic Aluminum Participating in Primary Frequency Modulation
763	PPA-115	Yusheng Pan	Hybrid SVM-Sparrow Search Algorithm Based Method for Distribution System Topology Identification
777	PPA-116	Yucan Zhao,Miao Yu	A Novel Frequency-RoCoF Islanding Detection Method for Grid-connected Distributed Generation
825	PPA-117	Wei Zeng	Robust adaptive dynamic voltage control for distributed photovoltaic considering energy storage
838	PPA-118	Yaru Zhao,Peng Li,Mengke Gao,Boyan Niu,Cailong Hou,Te Xiang	Reliability Classification Standard and Evaluation Method of Distribution Network
854	PPA-119	Ye Xia,Wei Li,Zesen Wang,Peng Guo,Xiaoli Zhang,Huihai Liu	Research on Automatic Verification Technology of Information Specification of Relay Protection Device Based on Mature Domestic Storage and Isolated Power Supply
861	PPA-120	Xionghe Gui,Kaicheng Liu,Yanhua Guang	A joint Optimal Dispatch Method for Multi-Integrated Energy Systems Based on The Source-Load Adaptability
870	PPA-121	Xiong Xiong	Power Flat Management and Coordinated Control Under different operation modes for DC Distribution System Based on Voltage information coding
871	PPA-122	Ying Zhang	Voltage Control Strategy of Distributed Photovoltaic Cluster in Distribution Network
879	PPA-123	Wenxuan Liu	A method of physical grid partition division for distribution network based on heuristic algorithm
882	PPA-124	Fan Wang,Bin Ding,Shujun Zhao,Jie Liu,Yunhui Chen,Jiaming Cai	Optimal Sizing and Location of Substations with BIM Considering Load Distance Cost

890	PPA-125	Xiaoyin Qiu,Ke Zhou,Qingren Jin,Yi Song	Three-stage Voltage/Var Control for Distribution Systems with High Permeability Photovoltaic
892	PPA-126	Qingmeng Meng,Liang Wang,Yuxin Shi,Hao Wei,Huidong Guo,Weizhe Jing	Voltage Situation Awareness of Active Distribution Network Based on Grey Correlation Analysis
927	PPA-127	Kanghua Zhong,Yuan Tang,Shijian Zhang,Yongjun Zhang,Wenyang Deng	A Predictive Rolling Optimization Method of Load Balancing in Low-voltage Active Distribution Network
931	PPA-128	Yi Zhao,Zhaowu Li,Tan Wang,Penghui Li,Weizhong Hu,Xueting Cheng	Overview of research on distribution network fault prediction based on situation awareness
961	PPA-129	Jie Chen,Yong Li,Liwei Xie,Liang Hou,Lina Cheng,Yijia Cao	A novel fault location method for high impedance grounding fault in distribution network
967	PPA-130	Liangyu Li,Chaohui Ge,Yun Hao,Ji Zheng,Ziyao Deng,Jiang Li,Gao Yuan	Optimal Configuration of Sectional Switches in Distribution Networks consider Reliability and Economy
1000	PPA-131	Jasur Abdubannaev,Shuaichao Lu,Yingyun Sun,Xin Ai,Nilufar Makhamadjanova,Mansur Khasanov	Power Distribution System Resilience Investigation: Outfits for Effective Improvement
1038	PPA-132	Chang Liu	Injection Insulation Monitoring of Ship Shore Power System
1044	PPA-133	Dunlin Zhu,Fanglu Qin,Zhiyang Yao	Treatment method for series-type and parallel-type compensation equipment in voltage sags

Paper Poster Session 6: Oct.25th, Sunday 08:00 - 17:00, On line room 6

Paper Poster Session 6: F.Business Model of Energy Internet & A.Renewable Energy Grid Interconnection Time & Place: Oct.25th Monday 08:00 - 17:00, On line room 6			
Paper Number	Poster Number	Author	Title
231	PPF-002	Xuetong Chen,Huang Jie,Shuai Jin,Yifei Zhang,Hengyu Ling	A Hybrid Simulation Study of the Herding Behavior Effects in the China National Carbon Market
439	PPF-003	Lei Xue,Jianbin Wu,Changhong Meng,He Huang,Qi Li,Qiang Li,Jingyu Zhang,Yuming Zheng,Chao	Study on the Economic Optimization of Park Integrated Energy System with Electricity-Heat-Cooling-Gas under Carbon Trading

		Wang,	
655	PPF-004	Xin Sheng,Guozhong Liu	Strategic Bidding of Emission-Constrained Generation Companies with Incomplete Information in Day-Ahead Electricity Markets
884	PPF-005	Wenyue Zhang,Dongmei Zhao	Two-stage Bidding Strategy of Virtual Power Plant in Electricity and Carbon Emissions Trading Markets
27	PPF-006	Lu Liu,Kaile Zhou,Xinhui Lu,Junqing Yu,Shanlin Yang	Multi-objective charging scheduling model for electric vehicles considering urgent demand under different charging modes
49	PPF-007	Hongsheng Li,Guanghua Wu,Hongyu Li,Fei Gao,Xuemei Long,Lilong Xie	Electric vehicle user portrait considering market response potential
115	PPF-008	Pengjia Shi,Linyao Zhang,Mengting Zhu,Yibo Hua,Bin Nan,Shufeng Dong	Distributed Demand Response of the Integrated Energy System in an Industrial Park
212	PPF-009	Xingtong Chen,Lu Jing,Xi Kang	Matching Analysis of Synergic Development of the Energy Internet Industry System
334	PPF-010	Chunming Wang,Suxiu Li,Zhang Chen	Research on Investment and Operation Mode of Multi-station Integration Data Center Station
423	PPF-011	Shun Ouyang,Jingjie Huang,Ting Leng,Haijun Liu,De Zhang,Haifeng Yu	Market Participation of Virtual Power Plant with Renewable Generation and Waste Treatment under Incentive and Loss Mechanism
540	PPF-012	Xiu Ji,Qi Cheng,Mingyue Wang,Xiangping Meng,Chenglong Qi,Shuanghao Guo	Evaluation of New Energy Accommodation Capability Based on Renewable Energy Power Prediction under \"Double Carbon\" Goal
560	PPF-013	Wenxuan Liu,Junhua Zhao	Hybrid Experimental Learning on Trading Behavior Analysis in Electricity Markets
654	PPF-014	Zun Guo,Zhi An,Nan Wei,Siwei Liu,Qingru Qi,Dong Xing,Dongmiao Wang,Changyu Deng	Supply-demand Interactive Equilibrium Model of Multiple Multi-energy Parks Based on Aggregative Game Mechanism
760	PPF-015	Du Xili,Laijun Chen,Hengrui Ma,Xiaodai Xue	Community Charging Stations Planning under Shared Energy Storage Mode: A Stackelberg Game approach
833	PPF-016	Zhang Zhi,Xiaoyang Dong	Model Construction and Construction Key Issues for Energy Internet Ecosystem
58	PPF-017	Jifeng Li,Jinghua Li,Xingtang He,Hao Luo	Carbon-oriented Local Integrated Energy System Multi-energy Coupling Market Design
122	PPF-018	Wei Chen,Xubin Li,Lei Huan,Pei Xiping,He Qin	A photovoltaic array state evaluation method based on combined weight and MCMC
144	PPF-019	Jicheng Liu,Yunyuan Lu	Research on Risk Assessment of China\'s PV-Storage Charging and Exchanging Power

			Station Under the Environment of Energy Internet
376	PPF-020	Hao Xu	Research on Operation Mode of Integrated Energy Service System Adapting to Multi-station Integration
565	PPF-021	Zhenyu Wu,Mingyi Sun,Yu Liang,Xia Zhao	Chance-constrained Optimal Power-water Flow Considering Load Uncertainties
573	PPF-022	Muqin Tian,Qianqian Li,Chunyu Xv,Yubo Yang,Zhehua Li	Coal-rock interface recognition method based on GAF-deep learning
586	PPF-023	Lingqiao Zhang,Lin Zeng,Haiyan Wu,Hanlin Liu,Peng Liao,Yusi Chen	Optimal Scheduling of Load Aggregators Participating in Demand Response Market under Low-carbon Power System
891	PPF-024	Geng Niu,Lingfeng Kou,Xiaoyun Qu,Ying Zhang,Ming Wu,Xiaojuan Liu	Forms, Key Supporting Technologies and Business Models of the Integrated Energy Service Station
6	PPA-201	Kang Yang,Chunhua Li,Xu Jing,Wang Yuting,Yawei Huo,Haodong Ma,Yu Zhang	Energy Optimal Dispatching of Islanded Microgrid Based on Multi-Agent System and Improved Symbiotic Organisms Search
7	PPA-202	Shiyuan Ni,Jieyun Zheng	Generator-Grid-Load-Storage Coordinated Optimal Dispatch Considering CO2 Emission in Active Distribution Network
25	PPA-203	Yingying Hu,Tiezheng Huang,Liang Tian,Yongming Jing,Nan Wei	Optimal Models and Methods for Coordinated Planning of Power Networks Based on Power Network Full-Cost Chain
42	PPA-204	Siyang Sun,Nan Shang,Weiying Lin,Xiao Zhou,Man Chen,Zhi Rao,Zaimin Yang,Wenchuan Meng	A Scheduling Strategy of Vehicle-2-Grid based on Stackelberg Gaming Model
57	PPA-205	Yinan Wang,Chen Rui	Study on the Evolution Mechanism of Integrated Energy Systems
87	PPA-206	Hao Li,Yicheng Jin,Jingying Yang,Chengliang Hao,Lei Song,Xuefeng Gao	Strategy of Load Source Joint Wind Power Absorption Based on Mode Decomposition
88	PPA-207	Huan Long,Peikun Li,Chen Zhang	Two-Stage Robust Optimization of Microgrid Based on Adaptive Uncertainty Budget
95	PPA-208	Shixian Pan,Zhigang Li,Jiehui Zheng	A Non-iterative Solution Method for DC Optimal Power Flow Based on Holomorphic Embedding
139	PPA-209	Yuxi Zhang,Wen Zhang	A Multi-Layer Game Model for Commercial Air-conditioning Load Participating in Peak Shaving
140	PPA-210	Mingxing Guo,Jianyong Ding,Ran Lv,Ming Zhang,Su	Access point and capacity optimization planning method of virtual power plant

		Wang,Fei Fei,Ciwei Gao,Gujing Lin	
169	PPA-211	Huimeng Ma,Wentao Jin,Bei Li	Supplementary Planning of DESS in High Proportion of Distributed PV + EV
172	PPA-212	Xiaodong Wang,Hao Tang,Kai Lv,Qianli Zhang	Learning Optimization of Power Grid Dispatch Considering Load Aggregator and Uncertainty of Both Source and Load
176	PPA-213	Kaile Zhou,Zenghui Zhang,Xinhui Lu	Optimal operation of battery energy storage system in industrial park
192	PPA-214	Huiping Zheng,Yaoyu Ren,Yucun Guo,Xinyuan Liu,Weiru Wang,Qian Zhang,Dongmei Zhao	Coordinated charging of electric vehicles in distribution network with high proportion distributed photovoltaic
193	PPA-215	Kaile Zhou,Zhineng Fei,Xinhui Lu	Distributionally robust optimization for internet data center with renewable energy
195	PPA-216	Qingbin Yang,Lianghui Xu,Lie Xia,Zhilei Chen,Shuangqing Zhang,Rongrong Zhou	Performance Ratio Test and Uncertainty Evaluation of Photovoltaic Power Generation System based on Linear Regression
220	PPA-217	Guanghua Guo,Jiyan Liu,Qingqing Chi,Hedong Zhang,Qingfang Yu,Mingqiang Zhang,Feixiang Gong,Songsong Chen	Virtual Energy Storage Control Method of Electrolytic Aluminum Park Based on Production Data Driven
238	PPA-218	Min Zhang	Study on the Standard Calculation Model of Power Demand Response Incentive Subsidy Based on Master-Slave Game
286	PPA-219	Qiliang Liu,Yuqing Bao	Scheduling and control of massive electric water heaters based on equivalent energy storage model
290	PPA-220	Xiaohui Wang,Mengyao Zhang,Mingze Zhang,Haoen Li,Yuchen Qi,Tianli Song,Jia Ming Cai	Two Stage Symmetrical Fuzzy Modeling and Optimization for the Unit Commitment in Wind Power Systems
337	PPA-221	Jinling LuFulu LiYuyang Tian,Chenfei Zhu,Xiucao Han,Yaxin Du	Research on Optimal Dispatching of Active Distribution Network Based on Source Network Load Situation
348	PPA-222	Feng Wang,Hanyu Yang,Hao Yu,Canbing Li,Wanxin Ren	Coordinated Optimization Model of the Wind Power Plant with Hydrogen Storage System and Demand Response
350	PPA-223	Xin Zang,Jie Ma,Zheng Wang,Hongyan Jiang,Lei Xue,Dongsheng Xie,Zhihong Gu,Yuan Zhang,Jue Qiu,	A Green Energy-saving Dispatch Strategy of the Pumped-storage Hydropower Station following Coal-fired Units in Peak Shaving
377	PPA-224	Boyou Jiang,Huating	A Two-stage Maintenance-operation Robust

		Xu,Chuangxin Guo	Optimization Model Considering Line Forced Outage
402	PPA-225	Chang Ju,Tao Ding,Ziyu Zeng,Ming Qu,Yuankang He,Ruifeng Liu,Xiaofang Qi,Tianen Chen	A Stochastic Hydrothermal Dispatching Model of Cascaded Hydropower Systems Considering Renewable Energy Uncertainties
408	PPA-226	Jie Chen,Changchun Cai,Zengmao Cheng,Shenshen Zhuo,Tianqi Zhu,Mengrui Xi	Dynamic reactive power optimization of power system considering load demand side response
409	PPA-227	Qi Li,Qian Huang,Wenping Qin,Yahong Xing,Haibo Zhao,Xiaojun Song,Ende Hu,Zeyuan Shen	Resilience Lifting Method of Active Distribution Network Considering Charging and Discharging Scheduling of Electric Vehicles
420	PPA-228	Boyuan Jia,Haitao Wu,Yunbin Li	Flexible On-grid and Off-grid Control Strategy of Photovoltaic Energy Storage System Based on VSG Technology
427	PPA-229	Yuwei Chen	A Two-Step Quadratic-Convex Based Tightening Method for Electricity-Gas System Optimization Considering Current Margins
429	PPA-230	Junjie Xiong,Haijing Liu,Yonghui Liang	Research and case analysis on group electricity peak regulation technology of rural guesthouse
437	PPA-231	Wenqian Luo,Qing Yang,Han Wu,Ankang Miao,Yue Yuan,Zhenjie Li	Optimal Allocation of Capacity for Standalone Hydro-Photovoltaic-Storage Microgrid
449	PPA-232	Mingli Chen,Qinhao Li,Yuyao Yang,Yongjun Zhang	An Improved Strength Pareto Evolutionary Algorithm for Optimization of Residents' Load and Storage
457	PPA-233	Jiaojiao Deng,Xuxia Li,Peng Wang,Hongli Liu,Yaqin Zhao,Jue Qiu,Zhigang Ma	Research on Capacity Configuration of Wind/Solar/Thermal Power and Energy Storage Complementary for UHVDC Transmission System
472	PPA-234	Yuankai Shu,Wei Dong,Qiang Yang,Yinan Wang	Microgrid Energy Management using Improved Reinforcement Learning with Quadratic Programming
486	PPA-235	Jiaming Li	Energy Storage Requirement of Future Chinese Power System: Multi Scenario Analysis towards 2050
495	PPA-236	Jialin Lin,Meiqi Sheng,Liying Wang,Yuanfei Li,Ming Zeng,Xiaochun Zhang	Research on Incentive Subsidy Mechanism of Demand Response Based on System Dynamics
501	PPA-237	Yanghong Xia	An Improved Model for Hydrogen Production by Alkaline Water Electrolysis
503	PPA-238	Yanghong Xia	Inertial Response Improvement Method for

			Bidirectional Power Converter in Hybrid AC/DC Microgrid
504	PPA-239	Yanghong Xia	Optimal Dispatch for Integrated Energy Microgrid Considering Start-up and Shutdown of Hydrogen Production
512	PPA-240	Tao Jin,Hongmei Li,Keyong Jiang,Ye Xiao,Jian Wang	Wind Storage Microgrid Energy Managemet System with Integrated Improved VSG Control
551	PPA-241	Min Long,Meifang Wei,Lu Huang	Research on Operation Mode of \" Wind-Photovoltaic-Energy Storage-Charging Pile \" Smart Microgrid Based on Multi-agent Interaction
571	PPA-242	Yuting Xu,Songsong Chen,Shiming Tian,Feixiang Gong	Analysis of Adjustable Potential of Sewage Treatment System
591	PPA-243	Shuang Tian,Xinhui Du,Yaojun Liang,Xiaoxi Yang,Jiahui Yin,Meiqin Ji,Yiyao Chen,Tiangang Gong	Multi-objective optimized charging strategy for electric vehicles based on demand response
596	PPA-244	Yanan Lu,Guanzhong Gao,Yang Shengchun,Yaping Li,Jinbo Wu	Research on trading strategy of virtual power plant with distributed energy aggregation based on cooperative game
597	PPA-245	Meng Yang,He Mingkang,Wu Xiong	Risk-Constrained Day-Ahead Scheduling for Wind Power and Pumped Hydro Storage Based on Information-Gap Decision Theory
606	PPA-246	Mengjie Liu,Jian Lv,Yujie Sheng,Liang Li,Jingyun Chen,Qinglai Guo	The Subarea Aggregation Model of Fast Charging Electric Vehicles
631	PPA-247	Ran Li,Min Zhang,Shuquan Yan,Yinyu Zhou	Multi-Objective Planning of Thermal-Electric Coupling Micro-Energy System to Promote the Consumption of Renewable Energy
640	PPA-248	Baoju Li,Yue Yang,Bin Wang,Yong Sun,Jiyue Fu,Wenchuan Wu	Study on Decision Rule in Stochastic Economic Dispatch Considering Uncertainties of Renewable Energy and Power Load
656	PPA-249	Xin Tian,Laijun Chen,Tianwen Zheng,Xiaodai Xue	Capacity optimization for wind/photovoltaic prosumers and shared energy storage operator:A cooperative game approach
691	PPA-250	Yong Feng,Jian Duan,Xue Chen,Fengling Han	State-of-Charge and State-of-Health Estimation Algorithms of Lithium-ion Batteries using SMO
714	PPA-251	Yuan Zhu,Xiudong Zhou,Lan Zhang,Qingjun Huang,Xinguo Mao,Chuanping Wu	Research of Topology and Test on Charged Melting Ice
719	PPA-252	Jing Kuang,Lan Zhou,Jiting Gu,Kun Wang,Kangyuan Wang,Zeng Tao	Near-zero carbon coordinated control of renewable energy considering environmental costs

726	PPA-253	Hao Chen,Jieyun Zheng,Guilian Wu	Research on Benefit distribution in Coordinated Hydro and Wind Power Generation
748	PPA-254	Jingxian Yang,Shuai Zhang,Jichun Liu	Dynamic Dispatch of Hybrid Hydro-PV-PHS Complementary Power Generation System Based on Deep Reinforcement Learning
752	PPA-255	Meiqin Ji,Xinhui Du,Tiangang Gong,Jiahui Yin,Xiaoxi Yang,Shuang Tian,Yingying Wu,Hesheng Yuan	Optimal operation strategy of energy storage system considering wind uncertainty and power market
779	PPA-256	Dongxu Wang,Feng Guo,Qiulong Ni,Jianhui Meng,Yi Wang	Comparison And Analysis of Grid-forming Control Methods of Wind Turbine Converter Under Load Disturbance
780	PPA-257	Pengfei Zhang,Shunchao Wang,Zhao He,Xiaosong Fang,Ruiqing Zhang,Tuo Zhou,Hua Ye,Ning Zhang	Optimized Economic Dispatching Approach for Multiple Flexible Energy Facilities Combined with Coal-fired Power Units in Frequency Regulation Service Based on SDR and Gaussian Randomization
783	PPA-258	Yahong Xing,Zhiwen Zhang,Wei Song,Song Xiaojun,Zhang Jia	Intelligent Diagnosis of Distribution Network Faults and Construction of Digital Twin Coordination System
797	PPA-259	Jie Shi	Ultra-short-term photovoltaic power prediction based on Elman neural network and satellite cloud images
800	PPA-260	Shunbo Zhu,Yujie Sheng,Yuan Li,Bo Li,Mengjie Liu,Qinglai Guo	Bi-objective Power-Traffic Pricing Coordination: Incorporating User Choice Stochasticity
802	PPA-261	Jingbo Zhao,Chengtao Jiang,Qi Qin,Hang Xu,Zhi Zhang	A Coordinated Control of Hybrid Energy Storage System for Photovoltaic Power Smoothing
805	PPA-262	Zhenwei Zhang,Longwen Zhou,Yong Sun,Xiang Gao,Jinyue Liu,Yuntao Dong	Joint Optimal Dispatching Strategy of Pumped Storage and Thermal Power Units with Large-scale Wind Power Integration
851	PPA-263	Mengke Gao,Peng Li,Yaru Zhao,Nan Wang,Jiefei Liang,Junjie Li	Optimal Planning of Distribution Network Considering Reliability Demand Response
859	PPA-264	Hao Chen,Junyi Shi,Ruohe Liu,Lang Huang,Yanbing Jia,Han Wu	Optimal planning of primary frequency regulation capacity of wind-storage combined systems
872	PPA-265	Wenxuan Liu	An economic optimization method of energy storage based on source-storage collaboration
875	PPA-266	Qingjun Huang,Yuan Zhu,Xiudong Zhou,Lan Zhang,Xinguo Mao,Siguo Zhu	Research on Technology of ice melting with Load based on Dual SVG Flow Control
933	PPA-267	Miao Wang,Dongxun Wu,Wei	A Preliminary Study on the Construction of New

		Luo,Sui Yi,Zhuopeng Shi,Jiali Zhang,Yong Li,Zeyuan Shen	Rural Power Grid under the Dual-Carbon Target
987	PPA-268	Moyuan Lu,Yuqing Bao	Multi-objective optimization of distribution network based on on-load-tap changer
994	PPA-269	Shuang Zeng,Yifeng Ding,Dapeng Duan,Qijing Xing,Xianglong Li,Anqi Liang,Ji Li,Lin Ma,Qinfei Sun,Liping Jiang	Advanced microgrid energy management based on an improved ACPSO optimization
999	PPA-270	Yumin Zhang,Zizhen Yang,Xingquan Ji,Shuai Dong,Ziran Yang,Si Liu	Interval Optimal Dispatching of IES Considering Dynamic Characteristics of Natural Gas Network
1047	PPA-271	Yue Ma,Runquan Meng,Bin Wei,Rui Cao	Two-stage Robust Optimal Dispatch of AC/DC Hybrid Microgrid Considering the Influence of Converter

Paper Poster Session 7: Oct.25th, Sunday 08:00 - 17:00, On line room 7

Paper Poster Session 7: G.Demonstration of Energy Internet & B.Smart Grid Security
Time & Place: Oct.25th Monday 08:00 - 17:00, On line room 7

Paper Number	Poster Number	Author	Title
930	PPG-002	Teng Zhao,Qianmao Zhang,Yi Lin,Gengyin Li	Research on the implementation path of Hebei Energy Internet
1009	PPG-003	Zhang Zhi	A path analysis of electric heating technology based on entropy weight method
1042	PPG-004	Xinhe Zhang,Ming Zhong,Zhenlan Dou,Hongyin Chen,Kaicheng Liu	Energy Consumption Forecast of Building Models in College Town——A Case study in China
41	PPG-005	Yinan Wang,Xingtong Chen	Comparative Study of Domestic and Foreign Urban Energy Internet Demonstration Practice
175	PPG-006	Zhao Bingjie	Fault location of distribution network containing distributed power based on grouped differential particle swarm optimization
213	PPG-007	Suhan Zhang,Wei Gu,Yao Shuai,Shuai Lu,Suyang Zhou,Xiaogang Chen	An Analytical Model of Heating Networks for Dynamic Simulation in Integrated Energy Systems
328	PPG-008	Huang Xiaoying,Huang Minglei,Lei Liang,Qiu Yufan,Zhou Yayi	Review of the Application of Urban Multi-Source Big Data in Power System in China
1	PPG-009	Dai Wei,Jiangyi Jian,Xiaolin Chen,Jingyi Zhao,Chen Feng,Dongdong Zhang	Tie-line Feasible Region Characterization Method for Nonlinear Regional Power System
26	PPG-010	Jian Sun,Tao Wang,Jing	Distribution Network Fault Location Based on

		Xu,Li Wang,Wenbin Cao,Yuhang Sun	Time Reversal Considering Hybrid Power Network and Load
36	PPG-011	Jiaqi Qin,Yuping Lu,Xu Li,Wentao Jiang	Improved Voltage Compensation Method for Zero Sequence Directional Protection of Double-Circuit Transmission Lines in Open-Phase Operation
54	PPG-012	Xiaojie Sun,Yiding Zhao,Yuqian Zhao	Application of volume detection based on machine vision in coal and gangue separation
77	PPG-013	Junjie Wang,Haoran Zhao,Changnian Chen,Shuning Gao	Modeling of Electric - thermal Multi - energy System and Coupling Method under Different Time Scales
79	PPG-014	Haiying Dong,Yunyun Wang,ingjing Zheng ,Aijun Tian	Location optimization of electric vehicle time sharing rental network for electric power company exclusive
81	PPG-015	Jinbo Wu,Li Li,Ting Zhou,Li Liu,Zhihao Liu,Yusheng Gong	Study on Simple Field Test Method for Thyristor Control Performance of SVC
107	PPG-016	Kangli Xiang	Evaluation Model and Application of Electricity Price Policy Implementation Effect Based on Counterfactual Structure
147	PPG-017	Zelin Zhang	Aggregation Effect on Particle Motion and Electric field
148	PPG-018	Xiaoxue Su,Yanping Wen,Xiaojian Zhang,Xin Zhang,Huiwen Zheng,Weiyang Yan,Bin Li,Zhuowen Zuo,Pengfei Chang,	Study on Design Scheme of Overhead Transmission Line in Bauxite Landfill
150	PPG-019	Jiwu Liu,Kai Han,Zhuopeng Shi,Yachen Wang,Weiyang Yan,Xiaojian Zhang,Xin Zhang,Bin Li,Jiang Zhang,	Theoretical Study on Group Pile of Anti-liquefaction Micro-steel Pipe
158	PPG-020	Wei Wang,Yu Tao,Yupeng Huang,Yaxuan Han,Heping Jia,Dunnan Liu	Electricity demand and carbon emission forecast of China\'s civil vehicles under the background of electrification
173	PPG-021	Hongyin Chen,Tianheng Chen,Dezhi Li,Yan Qi,Ming Zhong,Ye Li,Xianxu Huo,Yi Ding	Simulation Investigation of Airflow Distribution in Data Center using the Field Synergy Principle
204	PPG-022	Bin Ding,Zhikun Xing,Bo Yuan,Fan Wang,Yuting Pan	Research on a New Method of Industrial Park Load Forecasting Based on Typical User Load Characteristics
233	PPG-023	Ruixiang Tao,Naiyi Li,Jiang Kaihua,Juliang Shan,Gao Qi,Junping Cao	influence factors on grounding current under cross-bonded mode of cable laid along bridge

237	PPG-024	Yangxi Min	Design of additional damping control for power system with high proportion hydropower units based on H-infinity robust control theory
244	PPG-025	Yi Du	Research on the Road Map of Fujian Province\'s Carbon Peak
249	PPG-026	Luyu Wang,Chutong Wang,Chuangxin Guo,Chao Mao,Bo Gao	Modeling Carbon Capture Plants (CCP) as Responsive Demands
260	PPG-027	Fengge Zhang,Jingyu Cao,Shijie Han,Yang Dexian,Wu Tong	Research of Teaching Experiment Platform for Flexible AC/DC Transmission System
266	PPG-028	Lingzhi Yi,Peng Jiang,Dake Zhang,Shitong Wang,Xiaodong Feng	Freight Train Speed Tracking Based on Optimal Preview Control
267	PPG-029	Qiang Gao	Study on Coupling Technology of Hydrogen Production by Electrolytic Energy of Volatility
301	PPG-030	Chentao Zhang,Yongkang Zheng,Jiping Lu,Zhi Yang,Honghai Xu,Hao Zhang	Graph Based Storage and Analysis of Secondary Circuits in Smart Substation
332	PPG-031	Hongqiang Zhang,Haiping Tian,Xibo Tang,Yike Zhang,Zhihong Huang	Analysis on Potential of Small Hydropower Increasing Power Generation in Mengdong River Basin
335	PPG-032	Yening Lai,Xuetong ChenHuang Jie,Shuai Jin	An Assessment Method of Carbon Emission Reduction Additionality in Grid Dispatching Model
338	PPG-033	Lei Wang,Chaoqun Ma,Liuzhu Zhu,Xuli Wang,Chenxu Yin,Hao Cong	Integrated demand response based on user comfort and consumer psychology
361	PPG-034	Qiang Guo,Bing Song,Congnan Guo,Jiajie Liu,Hao Chen,Yanbing Jia,Zihui Wang	Evaluation of the Performance of Energy Storage System Participating in Grid Frequency Regulation
393	PPG-035	Yumei Wang,Jinping Wei	Dynamic Evolution Mechanism of High-end Chemical Industry Based on System Dynamics
471	PPG-036	Chuanting Zhao,Shilin Liu,Baocheng Fan	State of Charge Balancing Control for Battery System Based on the Reconfigurable Converter
474	PPG-037	Chenxu Yin,Liuzhu Zhu,Bao Wang,Li Zhang,Li Liu,Yutong Ye,Zhengxuan Tao	Multi-timescale optimal scheduling of integrated energy systems based on wind/light to hydrogen
476	PPG-038	Minru Xu,Xiaoqing Han,Tianhao Song,Yan Liang,Jingyuan Tang	A Review: Comprehensive Effectiveness of Electric Vehicles in Market
488	PPG-039	Xiangyu Zhang,Xiangfeng Zhang	A Probability Measure Model for the Adaptability of Distribution Network Planning Considering

			Multiple Scenarios
491	PPG-040	Yitong Song,Donghua Xiao,Pengyu Pan,Haojie Chen,Haitao Hu,Zhengyou He	Intrinsic Parameter Estimation of Railway Traction Power System Based on Impedance Measurement
537	PPG-041	Yuqin Xu,Kehan Du	Optimization of Charging and Discharging of Electric Vehicles Considering Residents\' Travel Habits
543	PPG-042	Zan Zhang,Lan Li,Jinyu Zhu	Multi-objective Optimal Control of DFIG for Unbalanced Grid Voltage
544	PPG-043	Bo Zeng,Hao Xu,Changhao ZhangWenshi Wang	A Expansion Planning Method for Distribution Network Considering the Optimal Allocation of Data Center Demand Response Resources
555	PPG-044	Qingbo Zhang,Simin Wu,Hao Xu,Wei Huang,Deqiang Gan	An analysis method for the influence of governors and PSSs on low-frequency oscillation
564	PPG-045	Ran Hu,Jiayin Bian,Yuxiang Xu,Qinghua Zeng,Aopan Deng,Jiong Wu	Simulation analysis of electromagnetic protection for live operation robot control box
566	PPG-046	Xuemin He,Bingyang Luo,Xiangtian Deng,Guorong Zhu,Geng Zhang,Quanwen Wang	Research on Energy Management Strategy of Hybrid Energy Storage System for Electric Ship
569	PPG-047	Erlin Liu,Zhaoxu Hua	Research on Optimization Method of Cleaning Parameters of Insulator Dry Ice Cleaning Robot
603	PPG-048	Xuandong Li,Zhifeng Li,Xianyu Zeng,Shufeng Yang,Haoran Liang,Ziqiu Chen	Performance Test and Analysis of National Secret algorithm SM2 in Power data Protection
617	PPG-049	Wengang Chen,Hongtao Zai,Hongying He,Ke Zhang,Ruiyao Xi,Fangyu Fu	A fault diagnosis method for power transformer based on graph neural network
619	PPG-050	Longji Li,Xiaoguang Wang,Guoyong Zhang,Xin Guo,Xuegang Li,Chun He	Wind Area Distribution Map Plotting of Power Grid Based on Meteorological Data Fusion
646	PPG-051	Ming Zhong,Dezhi Li,Tianheng Chen,Hongyin Chen,Ye Li,Xuejun Shang,Chenyang Zhao,Chao Liu	Idle and Max Power Forecasting for Linear Server Power Consumption Model using Random Forests
651	PPG-052	Qingpu Xiao,Longyu Qin	Single Phase Grounding Fault Location Method based on the Change of the Zero Sequence Current along with Compensation Degree
652	PPG-053	Xiaojian Zhang,Xiaoxue	Research on Four Ground Wires Design

		Su,Jiwu Liu,Xin Zhang,Kai Han,Xiangyu Zhang,Liang Tian,Weiyang Yan,Bin Li,	Scheme for Tower of 220kV Double-Circuit Transmission Line
675	PPG-054	Zhiyuan Zhuang,Tao Jin	Capacity Configuration and Control Strategy of EV Charging Station with Integrated Wind Power and Energy Storage Based on SSA
684	PPG-055	Djikeussi Ghislain,Xuejin Li	COMBINATION RESULT OF TWO MPPT TECHNIQUES (FUZZY LOGIC AND PERTURB AND OBSERVE METHOD): COMPARISON WITH THE CONVENTIONAL PERTURB AND OBSERVE METHOD
690	PPG-056	Ye Qiu	Research on the Distribution Efficiency of Green Certificates in China Based on DEA Model
749	PPG-057	Wenhao Xue,Da Li,Xusheng Liu,Jingli Feng,Xiubin Huang,Kaiqiang Xian,Jingqiu Zhang	The One Network Oprerating Platform For E-vehicle Based on Blockchain
766	PPG-058	Yadong Liu,Yanjun Li	Smart Substation Configuration File Management and Verification Technology and System
776	PPG-059	Jincan Li,Chengliang Zhu,Dan Wang,Hengrui Ma	Research on Power Use Inspection Management System for High Risk Industry Users under the "Dual Carbon" Target
789	PPG-060	Qi Li,Li Yu	Research on electricity consumption behavior of coal to power equipment based on random forest method
790	PPG-061	Shuting Li,Qi Li,Li Yu	Joint optimal operation of cascade hydropower stations in Yandu River Basin in dry season under the background of dual carbon target
791	PPG-062	Li Huixin	Experimental Verification of Energy Conversion Efficiency of Doubly Fed Wind Turbine
792	PPG-063	Shuting Li,Qi Li,Li Yu	Research on control strategy of grid connected interface converter for optical storage microgrid
796	PPG-064	Sun Chao,Meiqin Mao,Liu Yufan	Comparison of Current-limiting Control Algorithms Based on Double-ended Half-bridge MMC-HVDC DC Fault
799	PPG-065	Shang Chen	Experimental Research on New Circuit Breaker based on True Type Test Platform of 10kV Distribution Network
806	PPG-066	Yu Wang,Junliang Wang,Guijun Liu,Lin Dong,Zhongqing Sun,Jie Lei	An Emergency control method of AC/DC hybrid power system considering the risk of DC commutation failure under AC fault
820	PPG-067	Qingjun Huang,Yanjun	Study on melting ice current characteristics

		Tan,Xinguo Mao,Siguo Zhu,Xiudong Zhou	under low temperature and high wind speed
822	PPG-068	Gang Wang,Peng Li,Mingzhe Li,Hexian Wu,Zehao Xia	Optimal Configuration of Off-Grid Microgrid Considering the Uncertainty of Photovoltaic Power Generation
827	PPG-069	Wenyu Liu,Hongju Mao,Yujie Cao,Wenrui Tan,Zhaohao Ding,Peng Wang	Long-term Energy Consumption Forecasting for Data Center Industry in China
828	PPG-070	Zijian Shen,Peng Li,Ruyu Shi,Zehao Xia,Gang Wang	Optimization allocation strategy of distributed generation in grid-connected microgrid based on economic dispatch
837	PPG-071	Zehao Xia,Peng Li,Yu Ji,Zijian Shen,Gang Wang	Optimal Configuration of Grid-connected Microgrid Considering Real-time Electricity Price
847	PPG-072	Yongji Ma	Research on Electromagnetic Protection Strategy of Smart Grid Against Abnormal Damage
850	PPG-073	Miao Wen,Peng Li,Junjie Li,Zhuoran Li,Xulu Fan,Yunxing Yin	Multi - objective Planning of Distributed Generation With Coordination of Economics and Reliability
886	PPG-074	Shaonian Hu	Research on automatic cache of PCBA board based on welding machine
887	PPG-075	Chao Xue,Xiong Ma,Chunhui Li,Huiqing Liu,Liang Tian,Zhuowen Zuo,Zhao Chao,Zesheng Hu,Jianhua Wang,	Research on Creep and Shrinkage Characteristics of Bidirectional Geogrid in Transmission Line Engineering
889	PPG-076	Ruifeng Zhao,Bo Li,Wenjie Zheng,Jiangang Lu,Shiming Li	A Fast Fault Simulation Method of Distribution Network with Distributed Geration Based on Neural Petri Net
897	PPG-077	Yuwei Li,Difan Wu,Peng Li	Multi-Objective Optimal Dispatching Algorithm for Park Integrated Energy System Considering Starkberg Game and Energy Cascade Utilization
903	PPG-078	Ruifeng Zhao,Bo Li,Jiangang Lu,Zhiwei Chen,Haobin Li	Adaptability Evaluation Method of Distribution Terminal Based on AHP and CRITIC
924	PPG-079	Pei Cao,Yiping Ji,Shaojing Wang,Kai Gao,Peng Xu,Wenlong Tan,Yongji Ma,Xiaohan Shi,Lijun Jin,	Modeling and Analysis of Smart Grid Security Against Abnormal Damage
935	PPG-080	Qiuping Chen,Fusuo Liu,Hongli Zhang,Xuelian Wu,Jianliang Gao	Identification Method of Load Model Static Characteristic Coefficients Based on Disturbance Data
977	PPG-081	Jiang Yun	Optimized Design of a V-Type Interior

			Permanent Magnet Synchronous Machine for New Energy Vehicles
990	PPG-082	Chao Fan,Haiqing Li,Meifang Lv,Yuying Guo,Tan Wang,Xueting Cheng	Summary of cost management analysis of power grid enterprises based on transmission and distribution price reform
1023	PPG-083	Bin Ding,Zhikun Xing,Fan Wang,Bo Yuan,Yuting Pan	Research on load forecasting method of typical users in park
1033	PPG-084	Jinxiong Liu	Investigation on Differentiated Transformation Strategy of Coal to Electricity based on Big Data Statistical Analysis
2	PPB-001	Muqing Wang,Fei Gao	Research on Energy Control Optimization of Intelligent Building Based on Two-stage Information Collection
48	PPB-002	Wang Lei,Qiusha Wang,Cheng Ziwei,Shaobo Yang	A synthetic power quality evaluation based on principal component analysis and information entropy
69	PPB-003	Jiangfeng Zhang,Jiandong Sun,Weiwen Chen,Jay Young,Yuanqiang Hao,Libin Dong	Research and Realization of Management System of Generator Set Frequency Regulation Capability Based on Parallel Control Platform
72	PPB-004	Fanlin Meng,Lili Li,Puxin Shi,Li Chang,Shanshan Tu,Yue Leng	Large-scale Security Constrained Unit Commitment Optimization Method Based on Multiple Strategy Combination of Model Dimension Reduction
117	PPB-005	Haipan Li,Heng Nian,Haijiao Wang,Lingxiao Wei	Resonance Stability Analysis based on Impedance Network for Large-Scale Wind Power Bases Considering Frequency Coupling Characteristic
174	PPB-006	Haiyun Wang,Xijuan Yu,Zaichi Zhang,Yidi Yao	Calculation, Measurement and Engineering Application of Loop Closing Current in Power Grid
178	PPB-007	Nan Dong,Xiao Zhou,Tianying Xiao,Siyang Sun	Industry Electricity Demand Forecast by Integrating Multiple Correlation Analysis Methods
208	PPB-008	Yichao Wang,Hao Tang,Dongming Peng,Daohong Fang	Comprehensive evaluation method of power grid operation considering index correlation
210	PPB-009	Tengda Zhang,Qi Li,Xiangran Meng	Research on Modeling of Heating Substations Based on LSTM
239	PPB-010	Bei Li,Jiangchen Li	Using mobile hydrogen trucks to improve energy supply system resilience
247	PPB-011	Yajie Li,Fei Gao,Jianfang Li	A Fault Diagnosis Method for Single Phase Break in Distribution Network Based on Multi-Voltage-Level Information Fusion

256	PPB-012	Zuowei Wang,Zhang Kanjun,Fan Xiao	Evaluation Method of Substation Weak Link Based on Power Grid Risk Severity Index
297	PPB-013	Zhanlong Zhang,Wei Li,Linkun Chen,Jinian Pang,Hengdong Song	A Robust Distribution State Estimation Algorithm for Weakly Looped Distribution Network
385	PPB-014	Xiaodong Yu	A stability verification method for initial paths in the early stage of black-start progress
387	PPB-015	Qingsheng Zhao,Yifeng Liu	Dynamic phasor estimation method considering false data injection attack
390	PPB-016	Meng Yu,Chenguan Xu,Wenjun Ruan,Yao Wang,Jiaji Liu,Xi Wang,Weilin Li	Research on influencing factors of air-conditioning electricity demand flexibility for nearly zero energy commercial buildings
392	PPB-017	Shanglai Li	Reliability evaluation method of power grid dispatching automation software based on double model under malicious data attack
400	PPB-018	Yuxi Wang,Kun Qian,Minghao Wen	Short-Circuit Current Calculation Method for Power System with Renewable Energy Source and HVDC System
510	PPB-019	Jie Chen,Jie Guo,Jiamin Zhang,Kai Gao,Zhe Chen,Yang Liu	A Novel Capacitance Determination Method of Metal Oxide Arrester Blocks when Excited by VFTO
511	PPB-020	He Huang,Yaming Lv,Lei Xue,Xiangyu Zhang,Zeyuan Shen,Bingchu Jin	Power Grid Fault Diagnosis based on Support Vector Machine
519	PPB-021	Zhong Liu,Fan Yang,Shengmin Tan,Zhelin Ye,Hengmen Liu,Guanxiong Yin	Analysis of the Impact from the Parameters on the Flow Calculation for the District Heating System
642	PPB-022	Qinghua Lai,Zhang Zhe,Jiexiang Han,Xianggen Yin	Short Circuit Calculation Method of Power System with Renewable Energy sources and Experimental Verification
709	PPB-023	Runye Shi	The optimal energy flow of combined heat and power systems considering users' comfort
740	PPB-024	Darui Zhu,Haifeng Wang,Jiandong Duan,Wenji Cheng,Jing Bai	Identification of cascading fault sequences in AC/DC hybrid power system
745	PPB-025	Zhiyi Zhou,Guanxiong Yin,Hongbin Sun,Wei Wang,Zhaoguang Pan,Bin Wang,Cheng Gong	Gas Pipe Leak Detection Based on Circuit-analog Tide Calculation
835	PPB-026	Yongji Ma	Research on electromagnetic protection of smart grid against abnormal damage
866	PPB-027	Lili Li,Yue Leng,Feng	Security Margin Assessment for Electricity Spot

		Zhang,hang Li,Ziqing Zhou,Shanshan Tu	Market Clearing based on Active Power Steady-state Security Distance
901	PPB-028	Hu Benran,Wenbo Hao,Zhao Leilei	Power System Modal Identification Based on Prony Levenberg Marquardt
915	PPB-029	Pei Cao,Yiping Ji,Shaojing Wang,Kai Gao,Peng Xu,Wenlong Tan,Yongji Ma,Lijun Jin	Modeling and Analysis of Electromagnetic Defense for Resilient Power Grid Against Abnormal Damage
942	PPB-030	Zhengcheng Wang,Huangfu Yao,Wang Bin,Yanzhen Zhou,Gang Qian,Hongbin Sun	Identification of the Transmission Sections for Power System based on the Breaking Power Flow and Cut Set Filtering
974	PPB-031	Linghao Zhang,Yong Tang,Te Zhou,Chao Tang,Bo Pang,Huihui Liang	Research on Short-term Power Load Forecasting in Distribution Station Area and Adjustable Load Participating in Demand-side Cluster Control