RPG™ 2017 — International Conference on Renewable Power Generation

14:00 – 17:30, 19th October 2017

Poster Presentation (subject to change)

Session A

0014	Over-voltage Modeling and Simulation Analysis of Offshore Wind Farm
0103	Phasor Model of Full Scale Converter Wind Turbine for Small-Signal Stability Analysis
0153	A Novel Simplified Method of Doubly Fed Induction Generator
0175	Enhanced AC Voltage and Frequency Control on Offshore MMC Station for Wind Farm
0190	Study on detection of blade imbalance for DFIG wind turbines based on spectrum analysis of Hilbert modulus
0193	Solution of Wind Turbine Blade Doppler and Its Characteristic Analysis
0201	Analysis for distribution network on holding capacity of distributed wind turbines considering additional income under procedure conditions
0203	Fault diagnosis of wind turbine planetary gearbox based on order analysis and divergence index
0213	Analytical determination of stable droop loop gain for a DFIG participating in frequency regulation
0272	Wind Power Curtailment Sequence Characteristic Analysis
0289	Stator Current Vector Control Strategy of Doubly-fed Induction Generator Using Proportional Resonant Regulators
0300	Output power smoothing of grid-connected permanent magnet synchronous generator driven by a variable speed wind turbine: a review
0307	A Method of Eliminating High Frequency Resonance of DFIG System Connected to Weak Grid
0338	The control for Offshore Wind Power Integration Based on Modular Multileveral Converter
0399	Study on the Stability of Grid - Connected System of Two Types of Wind Turbines with UPFC
0417	Study on Compound Frequency Modulation Strategy of DFIG-Based Wind Turbines Dealing With Stator Winding Inter-turn Short Circuit Fault

Session B

0157	Modeling and Simulation of the Photovoltaic Power Station Considering the LVRT and HVRT
0335	Research on the Smart Modular Cascaded Solid State Transformer interfaced to Distributed Photovoltaic Power Generation System
0358	A Multilevel Switch-capacitor DC-DC Converter: Variable Voltage Gain Optimization Issues
0521	Study on Photovoltaic Grid-connection Composite Control Strategy in Microgrid
0648	Reasearch on low voltage ride through control based on model predictive control
0660	Based on STATCOM Direct Current Full-order Terminal Sliding Mode Control
0718	Whale Optimization Algorithm for Photovoltaic Model Identification.
0810	Fault Diagnosis of PV Array Based on Optimized BP Neural Network by Improved Adaptive Genetic Algorithm
0827	Development Status and Demand Analysis of IEC Photovoltaic Standards
0835	Weather Type Partition Method Considering Sequential Features in Photovoltaic Forecasting
0892	A one-step MPPT method based on 5-parameter model of PV module
0932	Utilization of photovoltaic systems for reactive power compensation in low voltage power systems

Session D

0043	Research of Reactive Power Control Strategy to Reduce the Reactive Power Exchange of AC&DC Power Grid
0102	Synergistic Dispatch of Generation and Network in Wind Power Integrated Power System
0115	Coordination of Two-stage Surge Protective Device in Low Voltage System under Mixed Waves
0116	Research of Transmission delay test-method in Smart Substations
0117	An equivalencing-tracking-based method for incorporating distributed energy resources in transmission system economic dispatch
0119	Abnormality in Power System Transient Stability Control of BESS/STATCOM
0129	Pre-synchronization Control Method of Virtual Synchronous Generator with Alterable Inertia
0134	Dynamic modelling of the VSC -HVDC for analytical studies

0135	A Two-Phase Integrated Optimization Strategy for Network Restoration with Photovoltaic Generation
0137	Study on the Dynamic Stability of Weak Grid Connection of Large-scale DFIG Based Wind Turbines
0138	Multi-rate Electromagnetic Transient Simulation of Large Scale Power System Based on Multicore
0139	Study on HVDC Transient Reactive Power Characteristics during Commutation Failure and Impact of HVDC Control Parameters
0141	A Siloxane Injection Technology for Extending the Lifetime of the Operating Cable
0144	Research on A New Scheme of LCC-HVDC Line Protection
0149	Increasing the maximum penetration of distributed energy resource on the basis of multi-dimensional multi-resolution model
0169	Optimal single phase smart meter design
0170	Frequency Characteristics of East China Power Grid after Bipolar Locking of UHVDC
0178	High accurate estimation method of subsynchronous and super-synchronous harmonic parameters on PMU
0199	Comparing smart EV charging strategies from different stakeholder's perception
0204	New Look-up Table Approaches for TCSC Impedance Control Considering Thyristor Conduction Characteristic
0214	Optimal Reconfiguration of the Active Distribution Network with Distributed Generation and Electric Vehicle
0222	Suppression Method and Effectiveness of STATCOM for Identical Multi-machine System
0228	Protection of Microgrid Systems: A Comprehensive Survey
0241	Multi-objective combined dispatch model of wind power accommodation based on thermoelectric unit with heat storage device and electric boiler
0245	Analysis of pole-to-pole Fault Characteristics of Flexible DC System and Design of Current Limiting Device
0263	Research on Probabilistic Optimal Power Flow of Distribution System with Multilayer Structure Based on Energy Router
0281	A method to determine spinning reserve requirement for a grid with large scale wind power penetration
0286	Wind energy prediction with LS-SVM based on Lorenz perturbation
0316	Study on the Large Power Shortage Island Self-healing Method of Smart Distribution Network Based on Status of Protection
0317	Capacity Credit of Renewable Distributed Generation in Distribution Generation Systems Considering the Impact of Demand Response

0325	Load Frequency Control in Multiple Microgrids Based on Model Predictive Control with Communication Delay
0329	Locating Optimal Support Generation Units Based on Polynomial Approximation of Post-contingency Static Stability and Security Region Boundaries
0333	Planning of Electric Vehicle Charging Station Based on Queuing Theory
0341	Accurate fault location of complex distribution network with distributed generators
0350	The Method of Calculating the Maximum Transmission Capability with Unified Power Flow Controller
0363	A PPSO METHOD FOR DISTRIBUTION NETWORK RECONFIGURATION CONSIDERING THE STOCHASTIC UNCERATAINTY OF WT, PV AND LOAD
0370	Research on DC Infeed Ratio of Receiving Grids with Renewable Energy under Frequency Stability Constraint
0382	Emulating the features of conventional generator with virutal generator technology: an overview
0409	A method of adapting to grid recovery in extreme weather conditions
0410	Study on Harmonic Transfer Characteristics of MMC-HVDC Systems
0413	A Three-Phase Dynamic Phasor Model of HVDC Systems
0423	Modelling of Multi Wind Farms Output Correlation Based on Copula Theory
0440	A traveling-wave-based method for fault location in multi-terminal DC networks
0443	Research on penetration of distributed generation considering fluctuation and load frequency characteristics
0453	Design of a novel voltage regulating distribution transformer with a power electronic assisted booster system
0483	A New Adaptive Voltage Protection Scheme for Distribution Network with Distributed Generations
0484	A bilateral collaborative operation optimization model in integrated multi-energy system
0493	A Bi-Level Two-Stage Stochastic SCUC for ISO Day-Ahead Scheduling Considering Uncertain Wind Power and Demand Response
0500	An improved modulation method of modular multilevel converter
0508	Air Conditioner Fast Dispatching Model Based on Load Aggregator and Direct Load Control
0517	Application of MMC-UPFC in the 500kV Power Grid of Suzhou
0535	A scheme to improve the load characteristics in dc distribution networks based on optimal allocation of energy storage systems

0536	Employing Electric Vehicles for Reactive Power Compensation in Distribution Network
0547	Situation awareness of power system based on static voltage security region
0548	A Strategy to Smooth Tie-line Power of Microgrid by Considering Group Control of Heat Pumps
0559	Fault Recovery for Distribution Network with Distributed Generation
0563	Control Strategy For Wind Power Integration Base on Energy Demand Respond and Distributed Energy Storage
0566	A Decentralized Method for Solving Multi-area Stochastic Dynamic Economic Dispatch Problem
0575	Maximising wind generation through optimised operation of on-load tap changing (OLTC) transformers in active distribution networks
0613	The architecture and security protection scheme for the distributed new energy public service platform with hybrid cloud system

Invited Sessions

0463	Research on Transformer Winding for Deformation Fault Diagnosis Based on K-fault Diagnosis Method
0733	Study on online under frequency load shedding strategy with virtual inertia control of wind turbine
0818	Equivalent modelling of wind farm for small signal stability analysis in weak power system
0853	Distributed generation planning in stand-alone microgrid considering stochastic characteristic
0864	A quantitative method to pre-assess vulnerability for microgrid based on probability theory

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

Poster Presentation (subject to change)

Session A

0498	Research on Five-phase Induction Motor System Control with Third Harmonic Current Injection
0529	Study on fault characteristics of full power inverted sources and its short-circuit current calculation model.
0564	Design and research of modular permanent magnet DC generator based on magnetic integrated transformer for offshore wind farms

0612	Design and Multi-Object Optimization of Axial Flux Interior PMSM for EV and HEV Applications
0664	Modeling of Multi VSCs in DC-Link Voltage Control Timescale for Small Signal Stability Analysis
0669	Modeling of wind speed correlation based on entropy weighted fuzzy comprehensive evaluation
0681	Research on Variable Pitch Control Strategy of Wind Turbine for Tower Vibration Reduction
0683	Clustering Based Optimization for Maximum Wind Energy Extracting of Large Scale Wind Farm
0746	Analysis of short circuit characteristic of hybrid wind farm group based on artificial short circuit test
0819	Build-up Steady-State Analysis of Wind-Driven Self-Excited Induction Generators
0829	Research on Application of Superconducting Fault Current Limiter in MMC-MTDC
0882	Optimisation of Offshore Wind Farm Collection Systems Based on Modified Genetic Algorithm
0885	A Multi-objective Reactive Power Optimization Approach for the Isolated Grid of New Energy Clusters Connected to VSC-HVDC
0904	Suppression method of parallel damping controller for DFIG
0936	AC and DC fault ride through of hybrid MMC integrating wind power
0956	Experimental Analysis of Noise and Vibration for Large Brushless Doubly Fed Machines (BDFMs)

Session C

0105	Research on Self-starting Strategy of Variable Speed Pumped Storage Units based on Model Predictive Control
0130	Power grid planning Based on Differential Abandoned Wind Rate
0131	I^2 Control Strategy for the parallel-powered system
0152	AC Excitation Control Strategy of Variable Speed Pumped Storage Units based on Active Disturbance Rejection Control
0224	Optimal configuration of energy storage system based on frequency hierarchical control in ship power system with solar photovoltaic plant
0233	Research on Seamless Switching Control Strategy for T-Type Three-Level Energy Storage Inverter Based on Virtual Synchronous Generator
0251	Comprehensive Recourse Strategic Planning for the Integration of Variable Renewable Electricity
0252	An Advanced Microgrid and Its Multi-objective Regulation Strategy For Shore Supply

0283	Evaluation the capacity of Power and energy balance for Cascaded H-Bridge Multilevel Inverter using different PWM Techniques
0339	OPTIMAL ACCOMMODATION AND MANAGEMENT OF HIGHRENEWABLE PENETRATION IN DISTRIBUTION SYSTEMS
0552	An Energy Management Strategy for Microgrids Including Heat Pump Air-conditioning and Hybrid Energy Storage Systems
0691	A Modified Elephant Herding Optimization for Economic Generation Co-ordination of DERs and BESS in Grid Connected Microgrid
0728	Accuracy Improvement of Remaining Capacity Estimation for Energy Storage Batteries
0734	Research on Smart Tracking Strategy of Wind Power and Energy Storage Combined Generation System based on Three Stage Rolling Optimization
0753	Comparison of Centralised and Distributed Battery Energy Storage Systems in LV Distribution Networks on Operational Optimisation and Financial Benefits
0790	Output Characteristics of LCC-S Compensation Network and Its Optimal Parameters Design in IPT System
0815	An Improved Power Allocation Strategy of Hybrid Energy Storage System in DC Micro-Grids
0836	Coordinated Operation Strategy of Hybrid Storage System in Wind Power Peak Shaving Scenarios
0952	Modeling and Control of Doubly-Fed Variable-Speed Pumped Storage Units for Grid Power Regulation
0953	Power Requirement and Control Characteristics of Energy Storage Equipment in Microgrid operating in Island Mode

Session D

0614	Study on System Commissioning Test and project application of Lingzhou to Shaoxing UHVDC Transmission Project
0622	Research on DC-Link Voltage Stabilizer for voltage source convertor as Connected to Weak Grid
0631	Research on user optimal aggregation based on demand response potential spectrum clustering analysis
0635	Impact of fault-ride-through strategy on dynamic characteristics of photovoltaic power plant
0652	DC Statcom in Multi-terminal DC Distribution Power System
0662	Distribution Network Reliability Investment Effectiveness Evaluation Based on Defect Data Mining
0668	A Partial discharge of White Noise Suppression Method Based on EEMD And Higher Order Statistics
0674	A Novel Generation Method for the PV Power Time Series Combining the Decomposition Technique and Markov Chain Theory
0682	Research on DC Voltage Class Series with AHP

0692	Optimal demand response aiming at enhancing the economy of high wind power penetration system
0693	Optimal selection of joint impoundment schemes of Xiluodu-Xiangjiaba-Three Gorges cascade reservoirs at the end of flood season
0713	DG Integration Capacity Analysis Under Harmonic Constraints
0759	Fast Optimal Power Allocation Algorithm for Multi-Terminal AC/DC Hybrid Grids With Wind Power Integration
0763	Bidding Strategy of Electricity Market Considering Network Constraint in New Electricity Improvement Environment
0784	Research on AC transmission line fault ride-through control strategy of MMC based unified power flow controller
0795	An Improved Extreme-Scenario Method for the Economic Dispatch of Active Distribution Networks
0799	THE EXPLORATION OF A DC WIND FARM INTEGRATED BY VARIABLE SPEED SCIGS
0812	Optimization and Dispatching strategy of Dynamic Reactive Power in Distribution Network with Distributed Generators
0813	Impact Analysis of DFIG Location on Low Frequency Oscillations in Power System
0830	Analysis Method and Empirical Research on Economic Benefit of Large Scale Consumptive Power Grid Investment
0874	Coordinated control strategy of reactive power for large-scale wind power transmission by LCC-HVDC links
0879	Identification on current transformer saturation based on the improved gradient mathematical morphology method
0883	HARMONIC SUPPRESSING CONTROL STRATEGY FOR MMC-HVDC
0886	On-line decentralized economical dispatch for power system with highly-penetrated uncertain renewables
0894	Harmonic Influence of Traction Locomotive on Hybrid DC Asynchronous Interconnection Project
0895	Analysis of the Impact of Distributed Generation on Grounding Method of Distribution Network
0897	Study on tolerance capability of converter-typed load for voltage fluctuation in system planning
0945	A discussion of positive fraction vector fitting for frequency dependent network equivalents
0947	Reactive power optimal design and fault ride through of MMC-PLUS
0948	Influence of back-to-back VSC-HVDC project on the operation characteristics of Hubei power grid

Session E&F

0127	Thermal management system of a water-cooled proton exchange membrane fuel cell
0158	Research on Scheduling Optimization for an Integrated System of Wind-Photovoltaic-Hydro-Pumped Storage
0176	Models for Microbial Fuel Cells: A Critical Review
0200	New type of ocean energy comprehensive utilization system of water-electricity cogeneration
0202	Research on Market Bidding Mechanism of Generation Rights Trade for Promoting New Energy Consumption
0259	Selective Harmonic Suppression Strategy by SAPF in Power Distribution System
0742	Decomposition- combination model with parallel computation and its application for optimal operation of cascade power stations
0743	Long -Term Reliability Evaluation for Small Hydro-Power Generations based on Flow Runoff Theory
0796	Coupling Analysis of Gas - Electric Hybrid System Based on Newton-Raphson method

Invited sessions

0107	Cross Coupling over Frequency and Sequence in Impedance Modeling of Grid-Connected Inverter
0108	Two Harmonic Analysis of Short Circuit Current in Wind Farm
0290	DC Power Collection System for PV Station Based on Impedance-source Multi-module DC-DC Step-up Converter
0304	Sub-synchronous oscillation analysis of complicated power grid incorporating wind farms with different types
0324	A Representational Learning Approach for Power System Transient Stability Assessment Based on Convolutional Neural Network
0364	Investigating SSO risks of large-scale photovoltaic generation with the series compensated transmission lines
0392	Robust Optimization for AC-DC Power Flow Based on Second-Order Cone Programming
0530	An Analysis Method of Feeder Partition Capacity Considering Power Supply Security and Distributed Generation
0538	Analysis of Subsynchronous Current Propagation Path of Subsynchronous Oscillation Induced by Renewable Energy Integrated to the Power Grid
0601	An Advanced Design of Microgrid Interface for Multiple Microgrids Based on MMC and Energy Storage Unit
0717	Bifurcation Analysis of The Islanded Microgrid with Constant Power Loads

0748	A new resistive DC fault current limiter
0770	Controllable Powers Range and Control Method of DFIG for Transient Stability of Power System
0808	Combination Strategy of DC Power Flow Controller for Multi-terminal HVDC System
0828	Cooperative games based method to determine the weights of load forecasting solution incorporated with various algorithms
0849	Optimized Design of DC-Side Smoothing Reactors in Meshed Multi-Terminal HVDC Systems Based on Symmetrical Bipolar Modular Multilevel Converter