

The 12th IET International Conference on AC and DC Power Transmission



Poster Session on Saturday, 28 May 2016

Zhonghua Hall 2 (1st floor) 09:30 --- 17:30

Poster ID Title Author(s)
(Paper ID)

Session A Recent important projects		
PO001 (0028)	Research on Reactive Voltage Characteristics and Control Strategy of Offshore Wind Farm	LI Yan, WEI Linjun, CHI Yongning, LIU Chao, ZHANG Zhankui
PO002 (0038)	A Novel Method for Preventing Mal-Operation of the Zero-sequence Directional Component	H Y Xu, Z F Fan, G B Song, X H Huang, W Huang
PO003 (0043)	Surface and interface charge behaviour in multi-layer oil–paper insulation under DC voltage application	B X Du, J Li, X X Kong, J G Zhang
PO004 (0053)	Mechanism Analysis and Control Measures of Wind Turbine Generators Tripping caused by HVDC Contingencies	Jingzhe Tu, Jian Zhang, Shicong Ma, Mingsong Liu, Jun Yi, Xuzhi Luo, Qing He
PO005 (0054)	Anti-interference Measures and Discharge Location for UHVDC Converter Transformer Partial Discharge Test	Wei Jiang, Liang He
PO006 (0065)	The influence of UHV hybrid reactive compensation and its stray capacitances on the interrupting characteristics of circuit breaker at out-of-phase fault.	R Li, H Liu, J Lou, B Li, T LV, W Li, H Liu
PO007 (0085)	Study on Frequency Oscillation Controlling Strategies for Islanded Operation Mode of HVDC Transmission Systems	Y Liwen, W Yuhong
PO008 (0092)	Investigation on simulation method of gaps discharge characteristic under fire conditions	Tian Wu, Kai Liu, Ting Liu, Bin Xiao, Yong Peng, Ziming Su
PO009 (0100)	Review of three types of oscillations in wind farms with other power system components	Hao Jiang, Hui Liu, Linlin Wu, Yunhong Li, Haojing Wang
PO010 (0136)	Optimal Redundancy Configuration Method of Wave-shaping Circuits and Director Switches in Hybrid Multi-level Converters	C Zhao, Y Xu, J Xu, P Zhao
PO011 (0146)	Study and Application on the Starting Test Technology for Series Transformer of UPFC Project	Peng Li, Yuting Wang, Haosheng Huang, Xiangping Kong, Lei Gao
Session B Future innovation and international projects		
PO023 (0003)	Impact of Fault Current Limiters on VSC-HVDC DC Protection	B Chang, O Cwikowski, X Pei, M Barnes, R Shuttleworth, A.C Smith
PO024 (0044)	MATURITY ASSESSMENT IN LARGE SCALE POWER SYSTEM BASED ON DAMPING TORQUE ANALYSIS	Yi Ge, Yue He, Zhen Jian Xie, Haifeng Wang, Bixing Ren

PO025 (0047)	A new scheme for connecting a VSC-MTDC to an AC power system	Q Fu, W Du, C Chen, H F Wang, S Q Bu
PO026 (0048)	Dynamic interactions between a VSC-MTDC and an AC power system - a comparative study of vector and power synchronizing control	Q Fu, W Du, C Chen, H F Wang, L L Fan
PO027 (0063)	The Optimal State Number Selection of Wind Power Series Generated Through MCMC Method	S Z Xu, X M Ai, J M Li, J K Fang, L F Xia, J Y Wen
PO028 (0129)	Network Topology of Urban Grid Considering N-1-1 Criterion	Qiqi Zhang, Gang Shentu, Yuyao Feng, Yun Su
PO029 (0147)	A Shunt Type Power Flow Controller for Meshed DC Grids.	F Xu, H H Yu, Y Lu, P Qiu, K Tong, J Z Xuan, Q Chen, X M Huang, B L Lou
Session C		
Real implications and applications		
PO036 (0010)	Reliability analysis and redundancy protection of a new busbar differential protection method in a smart substation	Feng Liu, Mostafa Kheshti, Wen Sen Wang, Fengyuan Qiu, Ming Lei
PO037 (0021)	Electromechanical-electromagnetic hybrid modelling of ± 800 kV Jinsu UHVDC based on real-time digital simulation device	Peng Wei, Qian Zhou, Jian kun Liu, Cheng gen Wang, Ning yu Zhang
PO038 (0022)	Analysis on Submodule Monitoring Strategy of Nan'ao Multi-terminal VSC-HVDC transmission System	Daqing Fan, Xiaoyan He, Xuesi Gao, Dongpeng Wang
PO039 (0026)	Research on Routine Test of Thyristor Level with TCU in HVDC Converter Valve	Ke Yue, Longchen Liu, Dezhi Kong, Shaobin Li, Lei Pang, Qiaogen Zhang
PO040 (0029)	Analysis of Power Flow Control Capability of a Unified Power Flow Controller installed in a Real Chinese Power Network	B X Ren, H Cai, W J Du, H F Wang, L L Fan
PO041 (0030)	Dynamic Performance of a Vector-current Controlled Unified Power Flow Controller Installed in a Real Chinese Power Network	B X Ren, H F Li, W J Du, Z Chen, H F Wang, S Q Bu
PO042 (0031)	Wind-thermal-bundled Power Transmission by AC/DC System and Coordinated Control - A Review	H W Xiao, W J Du, Y T Song, Q Wang, J Ding, D Z Chen, H F Wang, S Q Bu
PO043 (0032)	Coordinated damping control of phase angle controlled and vector controlled UPFC – a comparative study	Y Zhang, H F Li, W J Du, Z Chen, H F Wang, S Q Bu
PO044 (0033)	Control interactions between the HVDC and UPFC by use of the RGA	X F Wang, L Yang, W J Du, H F Wang, L L Fan
PO045 (0034)	Dynamic interactions of multiple functions of a power-angle controlled and vector-current controlled UPFC	X F Wang, H F Li, W J Du, H F Wang, S Q Bu
PO046 (0035)	Damping torque comparison and analysis of UPFC based on phase angle control and vector control	J P Zhang, X Wang, W J Du, H F Wang, L L Fan
PO047 (0037)	A practical algorithm for UPFC project location based on DC power flow	J Chen, J K Liu, Q Zhou, N Y Zhang, X Y Zhu, H Y AN
PO048 (0046)	Prototype Design and Experimental Verification of an Isolated Modular DC/DC Converter System	Yi Zhang, Zhongxu Wang, Binbin Li, Dianguo Xu
PO049 (0057)	The influence of the 500kV insulating aerial device on minimum approach distance in live working	kai liu, ting liu, pan tang, binglin zhou
PO050 (0062)	Parameter Designing of DC Reactor for MMC-HVDC	Zheng XIN, Dengjiang XING, Jinlong WU, Li ZHANG, Shumin SUN, Xianwei WANG

**Poster Session on Sunday, 29 May 2016,
09:30 --- 17:30**

Session A

Recent important projects

PO012 (0150)	Fault ride-through strategy for fully rated converter wind turbines connected to the grid via MMC-HVDC transmission	Y Yu, Z Xu, T An
PO013 (0153)	HVDC Modulation Principle and Supplementary Controller Design Method of Non-Parallel AC/DC System	X Guo, Y Lv, W Li, B Li, Q Lv, Z Xu
PO014 (0165)	Study on bird damage risk region of ± 400 kV DC transmission line	Ruiying Huang, Daochun Huang, Jun Zhou, Yunjian Ding, Zhiyong Dong, Jiangjun Ruan
PO015 (0169)	Research Overview of Sub-Synchronous Oscillation in DFIG-Based Wind Farms Connected to Grid	M L Zhang, H T Liu, X B Wang
PO016 (0170)	A protection scheme based on polarity comparison for VSC-MTDC grids	Q Feng, G B Zou, C H Xu, H L Gao, Y Y Ma
PO017 (0183)	Research on Optimized Coordinated AGC-AVC Control Strategy With the Background of UHV	J Qian, W Y Zhang, X Z Liu, X Y Liu, G T Xiang
PO018 (0189)	The Influence Factors of Pin Corrosion Rate of Disc Suspension Type Porcelain and Glass Insulators on UHVDC Transmission Lines	L Luo, Z Li, Z Hou, W Li, J A Cui, H Y Ding, L M Wang, Z C Guan
PO019 (0192)	A control strategy of STATCOM for suppressing subsynchronous oscillation	Shijia Wang, Zheng Xu, Xinbao Wang
PO020 (0198)	Study on the influence factors of power transformer DC magnetic bias	Wenjie Xu, Yongcong Wu, Fangjie Wu, Xiaolin Shen, Jiangjun Ruan
PO021 (0201)	Experimental Study on minimum approach distances and complex gaps for Helicopter Live-Line Work on 1000kV Transmission Line	Yong Peng, Ting Liu, Ziming Su, Kai Liu, Bin Xiao, Tian Wu, Pan Tang, Xinglie Lei
PO022 (0206)	Overview about the Discharge Performance of Air Gaps with the Presence of the Dust Particles	Chang Liu, Yujian Ding, Fangcheng Lv

Session B

Future innovation and international projects

PO030 (0152)	A NOVEL THREE-PHASE PARALLEL POWER FACTOR CORRECTION	Qian CHEN, Hai Hong YU, Yi LU, Peng QIU, Kai TONG, Jia Zhuo XUAN, Feng XU, Xiao Ming HUANG
PO031 (0155)	A medium voltage hybrid AC/DC distribution network and its economic evaluation	Lu Zhang, Wei Tang, Jun Liang, Gen Li, Yongxiang Cai, Tao Yan
PO032 (0180)	Research Overview of optimization of multi-source and energy Storage in microgrid	Peng Zhang, Haitao Liu, Sipeng Hao, Minglu Zhang, Shuang Lu
PO033 (0194)	Investigation of Black Start Capability of LCC HVDC System with Controllable Capacitors	Y Xue, C Yang, X P Zhang
PO034 (0208)	Research on the Topology and Control Strategy of Bidirectional DC-DC Converter used in the Power Electronic Transformer	Lin Li, Lin Zhang, Haijun Liu

PO035 (0216)	Adaptive Damping Control Strategy of Virtual Synchronous Generator for Frequency Oscillation Suppression	T W Zheng, L J Chen, R Wang, C L Li, S W Mei
Session C		
Real implications and applications		
PO051 (0071)	Sub-module Fault Analysis and Faulty-Tolerant Control Strategy for Modular Multilevel Converter	Z.H Lu, Z.M Chen, Y.F Gong, J. Cao, H.F Wang
PO052 (0076)	Coordinated Scheme for Automatic Voltage Control of DC Distribution System	Xiaoning Kang, Xiuda Ma, Hao Wang, Xuze Zhang, Chao Zhang, Shuai Jiang, Xiaoyun Qu
PO053 (0138)	Simulation and Analysis of Power Cable Harmonic Loss and Temperature Rise	Chenyong Li, Jie Chen, Libin Hu, Jingying Cao
PO054 (0148)	Power Equipment State Diagnosis Based on Multi-source Monitoring Data Mining	Yiming ZHENG, Xiang SUN
PO055 (0154)	Fault diagnosis model of power transformer based on improved grey relation method with combined weight	Tusongjiang kari, Wensheng Gao, Guojun Lu, Yong Wang, Le Luan, Li Liang, xu Xiaotong
PO056 (0158)	Research on Detection of Lightning Protection Facilities in Gas Station	X X Li, L L Xing, S Yan, Y Z Zhang, X W Wang, H W Mei, L M Wang
PO057 (0164)	Study on the Application of Conductor De-icing Technology for DC Transmission Line	Jun Lu, Ming Liang, Quan Hu, Huaneng Wu, Jing Xie
PO058 (0166)	A novel control strategy of VSC-HVDC for offshore platforms	S Q Lu, Z Xu
PO059 (0172)	Automatic suppression of single-phase arcing fault in AC distribution systems	B Zhang, Q Yang, W X Sima, M Yang, J Q Ran
PO060 (0178)	Novel Method and apparatus for wireless power transmission in a seawater environment	Huan GAO, Nianhua ZHANG, Gongshu LEI, Hongxi XUE
PO061 (0184)	Study on Brillouin Scattering Based OPGW Equivalent Icing Thickness Conversion	QIN Zhao-yu, PAN Zhe-zhe, SHI Hui-xuan, CHEN Yong, WANG Long-hua, LIU Xiao-bo
PO062 (0190)	A novel on-load de-icing method for distribution lines	S F Yu, Y B Gao, Y Z Hu, Z Y Zheng, D F Ke
PO063 (0209)	Study on Transient modelling and simulation of Fiber Optic Current Transformer	Hongxing Wang, Yuanpeng Guan
PO064 (0210)	Temperature error suppression and compensation technology of the fiber optic current transformer	Hongxing Wang, Yuanpeng Guan, Zhifang Xu, Weidong Liu
PO065 (0219)	Wide-band model of HVDC converter transformer and its application on fault analysis.	Yunchao WANG, Zhanqing YU, Jun HU, Jinliang HE, Shuiming CHEN
PO066 (0090)	Study on Reverse Recovery Characteristics of Thyristors Used in HVDC Converter Valve	W F Li, D Z Kong, K Yue, S B Li, Q G Zhang, X D Liu, L Pang, W Sun, J Peng, K Wang, X Y Tan