

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



Please note that the programme is only valid at the time of posting and might be amended later. The final event programme will be available after the modification deadline (currently 28th April 2016)

Poster Session on Saturday, 28 May 2016

Zhonghua Hall 2 (1st floor)

Poster ID (Paper ID)	Title	Author(s)
Session A		
Recent important projects		
PO001 (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
PO002 (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
PO003 (0050)	Study on the Influence of the Insulated Ground Wire on the Shunt Coefficient of the Substation Grounding System	Mingming TIAN, Xiaobin CAO
PO004 (0051)	The Research on the Lightning Overvoltage of Substation in Ice-Melting Insulated Ground Wire System	Xiaobin CAO, Mingming TIAN
PO005 (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
PO006 (0085)	Study on Frequency Oscillation Controlling Strategies for Islanded Operation Mode of HVDC Transmission Systems	Y Liwen, W Yuhong
PO007 (0092)	Investigation on simulation method of gaps discharge characteristic under fire conditions	Tian Wu, Kai Liu, Ting Liu, Bin Xiao, Yong Peng, Ziming Su
PO008 (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
PO009 (0105)	Transmission Fixed Cost Allocation Method Based on AR-DEA and Cooperative Game Nucleolus Solution	X F Meng, J F Wang, Zh Wang, L X Yang
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
Session B		
Future innovation and international projects		
PO027 (0003)	Impact of Fault Current Limiters on VSC-HVDC DC Protection	B Chang, O Cwikowski, X Pei, M Barnes, R Shuttleworth, A.C Smith
PO028 (0044)	MATURITY ASSESSMENT IN LARGE SCALE POWER SYSTEM BASED ON DAMPING TORQUE ANALYSIS	Yi Ge, Yue He, Zhen Jian Xie, Haifeng Wang, Bixing Ren

PO029 (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
PO030 (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
PO031 (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
PO032 (0129)	Network Topology of Urban Grid Considering N-1-1 Criterion	Qiqi Zhang, Gang Shentu, Yuyao Feng, Yun Su
Session C		
Real implications and applications		
PO040 (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
PO041 (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
PO042 (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
PO043 (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
PO044 (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
PO045 (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
PO046 (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
PO047 (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
PO048 (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
PO049 (0057)	The influence of the 500kV insulating aerial device on minimum approach distance in live working	ting liu, pan tang, binglin zhou, kai liu
PO050 (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
Poster Session on Sunday, 29 May 2016		
Session A		
Recent important projects		
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
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, Q Lv, Z Xu
PO014 (0165)	Study on bird damage risk region of ± 400 kV DC transmission	Ruiying Huang, Daochun

	line	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 (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		
PO033 (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
PO034 (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
PO035 (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
PO036 (0180)	Research Overview of optimization of multi-source and energy Storage in microgrid	Peng Zhang
PO037 (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
PO038 (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 (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
PO052 (0148)	Power Equipment State Diagnosis Based on Multi-source Monitoring Data Mining	Yiming ZHENG, Xiang SUN
PO053 (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
PO054 (0158)	Research on Detection of Lightning Protection Facilities in	X X Li, L L Xing, S Yan, Y Z

	Gas Station	Zhang, X W Wang, H W Mei, L M Wang
PO055 (0164)	Study on the Application of Conductor De-icing Technology for DC Transmission Line	Jun Lu, Ming Liang, Quan Hu, Huaneng Wu, Jing Xie
PO056 (0166)	A novel control strategy of VSC-HVDC for offshore platforms	S Q Lu, Z Xu
PO057 (0178)	Novel Method and apparatus for wireless power transmission in a seawater environment	Huan GAO, Nianhua ZHANG, Gongshu LEI, Hongxi XUE
PO058 (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
PO059 (0209)	Study on Transient modelling and simulation of Fiber Optic Current Transformer	Hongxing Wang, Yuanpeng Guan
PO060 (0210)	Temperature error suppression and compensation technology of the fiber optic current transformer	Hongxing Wang, Yuanpeng Guan, Zhifang Xu, Weidong Liu