

The 14th IET International Conference on AC and DC Power Transmission (ACDC 2018)



Date	Time	Activity	Programme	Location				
27th June	All DAY	10:00-17:00	Registration	Conference Registration, collecting delegate pack				
	Evening	18:00-19:30		Welcome Buffet				
28th June	Morning	08:00-08:30	Registration	Conference Registration, collecting delegate pack				
		08:30-09:00	Opening Ceremony	Opening Remark by Professor Rong ZENG, ACDC 2018 Conference Chair -10 mins Opening Remark by the representative from Chengdu Management Committee of Tianfu New Area, Sichuan -5 mins Opening Remark by Mr. Joseph Du, IET China Country Manager -10 mins				
		9:00-10:40	Plenary Session 1	Speech 1 - 25 mins Farhad Rachidi Speech 2 - 25 mins Guanglu Tang Speech 3 - 25 mins Licheng Li (TBC) Speech 4 - 25 mins Ram Adapa Electromagnetic Time Reversal: From Theory to Applications in Power Systems Research on Key Technology and Equipment for 500kV DC Grid Wudongge three terminal DC project (TBC) Role of HVDC and FACTS in Future Smart Electric Grid				
		10:40-11:00		Refreshment Break				
		11:00-12:40	Plenary Session 2	Speech 5 - 25 mins Boon Teck Ooi Speech 6 - 25 mins Christian Franck Speech 7 - 25 mins Ramon Blasco-Gimenez Speech 8 - 25 mins Dongli Lee MMC Coming of Age? In search of next generation gases for high-voltage gas-insulated switchgear Integration of large wind farms into HVDC grids Introduction of KOREA's HVDC Development				
	12:40-13:40		Lunch Break					
	Afternoon	13:40-15:30	Location Theme Conference Room 1 A1. Converter 1 Li RAN Qiang SONG A1.0. 1016 Keynote Talk by Li RAN Report Session A A1.1 (0026) A1.2 (0027) A1.3 (0074) A1.4 (0103) A1.5 (1004)	Conference Room 2 A2. Circuit Break 1 Zheng XU Zhao YUAN A2.01. Keynote Talk by Zhao YUAN A2.1 (0482) A2.2 (0564) A2.3 (0567)	Conference Room 3 A3. Medium & Low Voltage 1 Qianjin LIU Magnus Callavik A3.0 Keynote Talk by Magnus Callavik A3.1 (0001) A3.2 (0095) A3.3 (0118) A3.4 (0820)	Conference Room 4 A4. DC/DC Transformer Boon Teck Ooi Biao ZHAO A4.0 Keynote Talk by Biao ZHAO A4.1 (0080) A4.2 (0129) A4.3 (0578) A4.4 (0630) A4.5 (0701)	Conference Room 5 A5. Renewable Energy Integration 1 Zongxiang LU Lu QU A5.0 Keynote Talk by Zongxiang LU A5.1 (0036) A5.2 (0106) A5.3 (0165) A5.4 (0339) A5.5 (0374) A5.6 (0647)	Poster AB
			15:30-15:50	Refreshment Break & Poster Display				
		15:50-17:40	Conference Room 1 B1. Converter 2 Qiang SONG Report Session B B1.1 (0134) B1.2 (0282) B1.3 (0305) B1.4 (0359) B1.5 (0378)	Conference Room 2 B2. Control & Protection 1 Shukai XU B2.0 Keynote Talk by Shukai XU B2.1 (0057) B2.2 (0067) B2.3 (0072) B2.4 (0091) B2.5 (0158)	Conference Room 3 B3. Medium & Low Voltage 2 Magnus Callavik Qianjin LIU B3.0 Keynote Talk by Qianjin LIU B3.1 (0475) B3.2 (0537) B3.3 (0572) B3.4 (0577)	Conference Room 4 B4. AC Transmission Technology & System Simulation 1 Ramon Blasco-Gimenez Junyong LIU B4.0 Keynote Talk by Junyong LIU B4.1 (0068) B4.2 (0094) B4.3 (0110) B4.4 (0172) B4.5 (0250)	Conference Room 5 B5. HVDC Projects 1 Bo ZHANG Bangwook Lee B5.0 Keynote Talk by Bangwook Lee B5.1 (0082) B5.2 (0093) B5.3 (0097) B5.4 (0163) B5.5 (0182)	All Poster ID start with POAB
			18:30-20:00	Banquet Dinner				
29th June	Morning	9:00-10:40	Conference Room 1 C1. Converter 3 Ani Gole Chengyong ZHAO C1.0 Keynote Talk by Chengyong ZHAO Report Session C C1.1 (0397) C1.2 (0417) C1.3 (0458) C1.4 (0496) C1.5 (0517)	Conference Room 2 C2. Circuit Break 2 Yi WU Zhanqing YU C2.0. 1009 Keynote Talk by Yi WU C2.01 Keynote Talk by Zhanqing YU C2.1 (1002) C2.2 (1005) C2.3 (0592)	Conference Room 3 C3. Medium & Low Voltage 3 Yuming ZHAO Jie ZENG C3.0 Keynote Talk by Yuming ZHAO C3.01 Keynote Talk by Jie ZENG C3.1 (0688) C3.2 (0692) C3.3 (0728) C3.4 (0758)	Conference Room 4 C4. AC Transmission Technology & System Simulation 2 Guangning WU C4.0 Keynote Talk by Guangning WU C4.1 (0368) C4.2 (0455) C4.3 (0612) C4.4 (0618) C4.5 (0202)	Conference Room 5 C5. Renewable Energy Integration 2 Wei ZHAO C5.0 Keynote Talk by Wei ZHAO C5.1 (0516) C5.2 (0438) C5.3 (0548) C5.4 (0201) C5.5 (0390)	Poster CD
		10:40-11:00	Refreshment Break & Poster Display					
		11:00-12:40	Conference Room 1 D1. Converter 4 Chengyong ZHAO Ani Gole D1.0 Keynote Talk by Ani Gole Report Session D D1.1 (0520) D1.2 (0521) D1.3 (0538) D1.4 (0561) D1.5 (0767)	Conference Room 2 D2. Control & Protection 2 Zhichang YUAN D2.0 Keynote Talk by Zhichang YUAN D2.1 (0171) D2.2 (0244) D2.3 (0270) D2.4 (0320) D2.5 (0353)	Conference Room 3 D3. Material & Equipment 1 Jinliang HE D3.0 Keynote Talk by Jinliang HE D3.1 (0351) D3.2 (0394) D3.3 (0448) D3.4 (0483) D3.5 (0497)	Conference Room 4 D4. AC Transmission Technology & System Simulation 3 Dongli Lee Bo ZHANG D4.0 Keynote Talk by Bo ZHANG D4.1 (0619) D4.2 (0624) D4.3 (0661) D4.4 (0719) D4.5 (0720)	Conference Room 5 D5. HVDC Projects 2 Jinzhong LI D5.1 Keynote Talk by Jinzhong LI D5.1 (0311) D5.2 (0394) D5.3 (0396) D5.4 (0425) D5.5 (0509)	All poster ID start with POCD
	12:40-13:40	Lunch Break						
	Afternoon	13:40-15:30	Conference Room 1 E1. Renewable Energy Integration 3 Zedong ZHENG Report Session E E1.1 (0627) E1.2 (0653) E1.3 (0665) E1.4 (0700) E1.5 (0958)	Conference Room 2 E2. AC Transmission Technology & System Simulation 4 Shuqi ZHANG E2.0 Keynote Talk by Shuqi ZHANG E2.1 (0081) E2.2 (0130) E2.3 (0153) E2.4 (0356) E2.5 (0469)	Conference Room 3 E3. Material & Equipment 2 Qi LI E3.0 Keynote Talk by Qi LI E3.1 (0551) E3.2 (0556) E3.3 (0606) E3.4 (0640) E3.5 (1039) E3.6 (0770)	Conference Room 4 E4. AC Transmission Technology & System Simulation 5 Guangning WU Chijie ZHUANG E4.0 Keynote Talk by Chijie ZHUANG E4.1 (0723) E4.2 (0734) E4.3 (0735) E4.4 (0737) E4.5 (0738) E4.6 (1031)	Conference Room 5 E5. HVDC Projects 3 Jian LI Jinzhong LI E5.0 Keynote Talk by Jian LI E5.1 (0511) E5.2 (0580) E5.3 (0590) E5.4 (0659) E5.5 (0769)	Poster EF
15:30-15:50		Refreshment Break & Poster Display						
15:50-17:40	Conference Room 1 F1. Converter 5 Biao ZHAO Report Session F F1.1 (0024) F1.2 (0607) F1.3 (0638) F1.4 (0714) F1.5 (0730)	Conference Room 2 F2. Others 1 Chijie ZHUANG F2.0 Keynote Talk by Chijie Zhuang F2.1 (0040) F2.2 (0232) F2.3 (0233) F2.4 (0247) F2.5 (0322) F2.6 (0346)	Conference Room 3 F3. Others 2 Jun HU F3.0 Keynote Talk by Jun HU F3.1 (0459) F3.2 (0499) F3.3 (0384) F3.4 (0660) F3.5 (0726) F3.6 (0745)	Conference Room 4 F4. AC Transmission Technology & System Simulation 6 Shuqing ZHANG F4.0 Keynote Talk by Shuqing ZHANG F4.1 (0746) F4.2 (0764) F4.3 (0837) F4.4 (0838) F4.5 (1015)	Conference Room 5 F5. HVDC Projects 4 Jian LI Zhichang YUAN F5.1 Keynote Talk by Jian LI F5.1 (0691) F5.2 (0704) F5.3 (0721) F5.4 (0724) F5.5 (0754)	All poster ID start with POEF		
30th June	9:00-12:00	Technical Visit to Sichuan Energy Internet Research Institute Tsinghua University & Chengdu Tianfu New Area Exhibition Hall						

Oral Presentation (Session A)



Session A	Location	Time slot	Oral ID	Paper ID	Title	All authors (first, last)
Session A1	Conference Room 1	13:40 -- 14:00	A1.0	1016	Power Module with Large Short Term Current Capability by Using Phase Change Material	Weihua Shao, Li Ran, Huaping Jiang, Debaprasad Kastha, Prabodh. Bajpai, Ruizu Wu, Philip A Mawby and Zheng Zeng
		14:00 --15:30	A1.1	0026	Power conditioning system control strategy for cascaded H-bridge converter battery energy storage system	Hashim Hasabelrasul, Xiangwu Yan, Abuzaid Saeed Gadallah
			A1.2	0027	Power and Energy Balance for Cascaded H-bridge Multilevel Inverter based on Virtual Synchronous Generator	Hashim Hasabelrasul, Xiangwu Yan, Abuzaid Saeed Gadalla
			A1.3	0074	Design, analysis and testing of PP-IGBT based submodule stack for the MMC VSC HVDC with 3000A DC bus current	Huifeng Chen, Frank Wakeman, Julian Pitman, Gangru Li
			A1.4	0103	Stability Analysis of Distributed Generation Grid - connected Inverter	xuemei zheng
A1.5	1004	The Dc Fault Current Calculation Method in MMC-HVdc Grid Considering Current-limiting Devices	Jianzhong Xu, Sicheng Zhu, Chengyu Li, Chengyong Zhao			
Session A2	Conference Room 2	13:40 -- 14:20	A2.0	1013	Two Basic Ways to Realize DC Circuit Breakers	Zheng Xu, Huangqing Xiao, Yuzhe Xu
			A2.01	N/A	Development of Mechanical High-voltage DC Circuit Breaker	Keynote talk by Zhao YUAN
		14:20 -- 15:30	A2.1	0482	Research on the fitting method to describe the mathematic expression of VFTO in GIS	Almenweer Reem, xin Su, Xiu Wu
			A2.2	0564	Research of SF Circuit Breaker Based on Similarity Theory	Hai Chen, Yaqian Zhang, Liying Li, Wei Liu, Xiaoming Liu
			A2.3	0567	Experimental Research of Arc Characteristics for 40.5kV Vacuum Circuit Breaker	X H Zhan, X M Liu, L N Li, G J Zhu, P Y Li
Session A3	Conference Room 3	13:40 -- 14:00	A3.0	N/A	TBC	Keynote talk by Magnus Callavik
		14:00 -- 15:30	A3.1	0001	The paramount importance of using distributed extra-low direct current voltage in the built environment	Moshe Kinn
			A3.2	0095	A Review of the DC Voltage Coordinated Control Strategies for the Multi-terminal VSC MVDC Distribution Network	Patrobers Simiyu, Ai Xin, Girmaw Teshager Bitew, Muhammad Shahzad, Wang Kunyu, Luu Kim Tuan
			A3.3	0118	Analysis of DC Voltage Oscillation Mechanism in AC/DC Hybrid Distribution System	L Y Li, W Pei, H Xiao, W Deng, L Kong
			A3.4	0820	Research on the Transformerless Connection Mode For DC Power Distribution System	Y Yu, D Z Jiang, Y Q Liang, J T Chen

Session A4	Conference Room 4	13:40 -- 14:00	A4.0	N/A	DC transformer for MVDC power distribution application	Keynote Talk by Biao ZHAO
		14:00 -- 15:30	A4.1	0080	Benefit Analysis of Using Multi-port and Multi-function Power Electronic Transformer Connecting Hybrid AC/DC Power Grids	Yanhong Yang, Wei Pei, Wei Deng, Shizhong Zhang
			A4.2	0129	Input-Parallel-Output-Series Control Strategy for Three-level MVDC Grid Type Converter	Faisal Mehmood shah, Wenqiang xie, WenLi Yan, Rui Li, Han Minxiao, Girmaw Teshager Bitew
			A4.3	0578	Hybrid-wave Modulation for Modular Multilevel High-frequency DC Converter in DC Distribution Application	Yu Wang, Yuewu Wang, Guidong Zhang, Sizhe Chen, Yun Zhang
			A4.4	0630	DIRECT POWER CONTROL OF DUAL-ACTIVE-BRIDGE DC-DC CONVERTERS BASED ON UNIFIED-PHASE SHIFT CONTROL	F An, W S Song, K X Yang
			A4.5	0701	A Novel High-Conversion-Ratio Bidirectional Three-Phase DC–DC Converter	F Wang, Y B Wang, F Y Zhang, C P Teng
Session A5	Conference Room 5	13:40 -- 15:30	A5.0	N/A	A Coordinated Strategy for VSC-HVDC Integrated Offshore Wind Farms to Enhance Two-Stage Frequency Regulation Capability	Keynote Talk by Zongxiang LU
			A5.1	0036	Optimal configuration of battery energy storage systems using for rooftop residential photovoltaic to improve the voltage profile of distributed network	Jinrui Tang, Defu Cai, Chengqing Yuan, Yuanchao Qiu, Xiangtian Deng, Yunhui Huang
			A5.2	0105	research on the self-discipline control strategy of dispersed wind power	jing wang, jiangdong duan, lupeng chen
			A5.3	0165	Low Frequency Oscillation Analysis of AC/DC System with Offshore Wind Farm Integration via MMC-based HVDC	Zhongrui Nie, Libao Shi, Yue Zhao, Yixin Ni
			A5.4	0339	Influence of wind turbine blade modeling on echo Doppler characteristics	Bo Tang, Bin Hao, Li Huang, Jiawei Yang
			A5.5	0374	A NOVEL MPPT METHOD BASED ON LARGE VARIANCE GA-RBF	Zhang Jing, Liu Ning, Xu Jiabin, Zhao Shengfang, Xu Yan
			A5.6	0647	DISTANCE PROTECTION AND FAULT LOCATION OF THE PV POWER PLANTS DISTRIBUTION LINES	E K Mohammedsaeed, M A Abdelwahid, K Jia

Oral Presentation (Session B)



Session B	Location	Time slot	Oral ID	Paper ID	Title	All authors (first, last)
Session B1	Conference Room 1	15:50 -- 17:40	B1.1	0134	An Improved Hybrid Modular Multilevel Converters with DC Short-Circuit Fault Ride-Through Capacity	Yuhang Lei, Gangquan Si, Jianwei Zhu, Yanbin Zhang
			B1.2	0282	Hierarchical Control of Parallel Voltage Source Inverters in AC Microgrids	Zhongwen Li, Zhiping Cheng, Yali Xu, Yifan Wang, Jing Liang, Jinfeng Gao
			B1.3	0305	The Sub-module Voltage Balanced Control Strategy of MMC-HVDC Based on Model Prediction	M. Zhang, B. Li
			B1.4	0359	Calculation Method of Critical Voltage Drop of DC Commutation Process considering AC system three-phase fault moments	Jingqiu Zhang, Yongli Li, Jingzhao Song, Xiaolong Chen, Yunke Zhang
			B1.5	0378	An Iterative Design method of LCL Filter for Grid-Connected Converter to Achieve Optimal Filter Parameter Combination	Li Tong, Chao Chen, Xianjun Shao, Qicheng Zhao, Jianping Zhang
Session B2	Conference Room 2	15:50 -- 16:10	B2.0	N/A	TBC	Keynote Talk by Shukai Xu
		16:10 -- 17:40	B2.1	0057	A fault location scheme for meshed MMC-MTDC grids based on current traveling waves	Shuo Zhang, Guibin Zou, Chenjun Sun, Jie Zhang, Qiang Huang
			B2.2	0067	A fast single-end line protection method for the meshed multi-terminal HVDC Grid	Q Huang, G B Zou, C H Xu, J Zhang, S Zhang
			B2.3	0072	Identification method based on correlation analysis for SPTG fault in MMC-MVDC system	Yu Zeng, Guibin Zou, Chenjun Sun, Shan He, Lingtong Jiang
			B2.4	0091	PRINCIPLE OF ULTRA-HIGH-SPEED PROTECTION FOR DC TRANSMISSION LINE BASED ON INVERSION TRANSFORMATION OF WAVE FRONT	Chenhao Zhang, Guobing Song, Wei Han, Guang Shi, Chao Liu
			B2.5	0158	Study on the suppression measures of commutation failure in MIDC transmission systems	qing wang, kaipei liu, ling wang

Session B3	Conference Room 3	15:50 -- 16:10	B3.0	N/A	TBC	Keynote Talk by Qianjin LIU
		16:10 -- 17:40	B3.1	0475	Real-time Diagnosis of High Speed Rail Traction Transformer in Different Topologies	Ming Tu, Wei Yan, Yang Zhao, Enrong Wang, Chunxiao Fu, Runqing Ma, Jiaming Zhu
			B3.2	0537	A Novel Architecture of Urban Rail Transit Power Supply Based on PET Braking Energy Feedback	Hao Liu, Zedong Zheng, Zheng Xu
			B3.3	0572	Comprehensive Inertia Control for Hybrid AC_DC Distribution System	Li He, Yong Li, Ming Wen, Yijia Cao, Jingrong Shi
			B3.4	0577	Network Reconfiguration and Operation Optimization of Distribution System with Flexible DC Device	Yanhong Yang, Shizhong Zhang, Wei Pei, Jianjun Sun, Yi Lu

Session B4	Conference Room 4	15:50 -- 16:10	B4.0	N/A	TBC	Keynote Talk by Junyong LIU
		16:10 -- 17:40	B4.1	0068	Study on Characteristics of Slow-front Overvoltage of ± 1100 kV UHVDC Transmission Lines	Jiqun Zhong, Qinya Qi, Hengxin He, Huiwen He, Ting Ding, Junjia He
			B4.2	0094	Multi-Layer Power System Tearing Methodology for EMT-TS Hybrid Parallel Simulation	Qing Mu, Xing Zhang, Chunming Gong, Yu Chen
			B4.3	0110	The study on the calculation of shielding failure for DC transmission lines	Jinbo Wu, Wei Cao, Shuai Wan, Shanqiang Gu, Jian Wang, Jinliang He
			B4.4	0172	Modelling and Control of a back to back MMC-HVDC system using ADPSS	Pucheng Cai, Wang Xiang, Jinyu Wen
			B4.5	0250	Study on the lightning overvoltage protection of a 500kV unified power flow controller station	Ting Ding, Fengbo Tao, Hengxin He, Jiqun Zhong, Junjia He, Huiwen He

Session B5	Conference Room 5	15:50 -- 16:10	B5.0	N/A	Overvoltages experienced by HVDC cables in LCC & MMC HVDC systems	Keynote Talk by Bangwook Lee
		16:10 -- 17:40	B5.1	0082	Singular Value Decomposition-based Dynamic Response Analysis of VSC-MTDC/AC Systems for Renewable Energy Integration	hua ye, Wei Pei, Li Kong, Yao Liu, Yanan Tang
			B5.2	0093	Novel Reclosure Scheme of MMC-HVDC System Based on Characteristic Signal Injection	Ting Wang, Guobing Song, Lei Wu, Wei Han, Guang Shi, Chao Liu
			B5.3	0097	Small-Signal Stability Analysis for the Multi-terminal VSC MVDC Distribution Network; A Review	Patrobers Simiyu, Ai Xin, Girmaw Teshager Bitew, Muhammad Shahzad, Wang Kunyu, Peter Mutegi Kamunyuu
			B5.4	0163	A Dual-Loop Supplementary Frequency Control Scheme for Back-to-back VSC-HVDC Interconnecting Asynchronous AC Grids	L Zeng, D Li, W Yao, J Sun, J Wen
			B5.5	0182	A hybrid ultra HVDC system with LCC and cascaded hybrid MMC	R Z Yang, W Xiang, Weixing Lin, Jinyu Wen

Oral Presentation (Session C)



Session C	Location	Time slot	Oral ID	Paper ID	Title	All authors (first, last)
Session C1	Conference Room 1	09:00 -- 09:20	C1.0	N/A	The Source-side Dc-fault Current-limiting in Bipolar HVdc Grid Using Hybrid MMC	Keynote Talk by Chengyong ZHAO
		09:20 -- 10:40	C1.1	0397	Switching Frequency Regulation in Sliding Mode Control for Synchronous Buck Converter	S B Liu, Z Y Feng, Y Cai
			C1.2	0417	Fuzzy Quasi-PRD Control for the Photovoltaic Inverter with LCL Filter	Like Cao, Yongjin Yu, Qingchun Han
			C1.3	0456	The Influence on Energy Conservation of Power System By Introducing UPFC	F Chen, B W Wang, H Q Lu, W W Xu, J Wu, C Y Lu
			C1.4	0496	A multi-hierarchy control strategy in abc coordinate for modular multilevel matrix converter in fractional frequency transmission system	Zhujian Ou, Guangzhu Wang
			C1.5	0517	Loss Reduction Analysis and Control of AC-Voltage-Boosted FBSM MMC by Injecting Second Harmonic Circulating Current	Muchao Xiang, Jiabing Hu, Zhiyuan He
Session C2	Conference Room 2	09:00 -- 09:40	C2.0	1009	A Review of HVDC Breakers	Yi Wu, Yifei Wu, Fei Yang, Mingzhe Rong, Yang Hu, Qiang Yi
			C2.00	N/A	DC breaker used in flexible DC power system	Keynote talk by Zhanqing Yu
		09:40 -- 10:40	C2.1	1002	Research on Temperature Rise of High Current Switchgear in Distribution Power System	Suxiong Cai, Xiaorui Wang, Zhaowei Peng, Zhanqing Yu, Shisen Gao, Zerong Huang, Yonggang Guan, Heqian Yin, Peng Zeng
			C2.2	1005	CLOSING PERFORMANCE OF THOMSON-COIL ACTUATOR FOR 110KV FAST MECHANICAL SWITCH	Yannan Zhou, Yulong Huang, Weijie Wen, Keke Sun, Bo Men, Jibin Zhu
			C2.3	0592	Study on Voltage Distribution Characteristic of a 363kV Fast Multi-break Vacuum Circuit Breaker	Ai Shaogui, Yu Xiao, Huang Yongning, Yang Fan, Fan Yiping, Li Xing

Session C3	Conference Room 3	09:00 -- 09:40	C3.0	N/A	TBC	Keynote Talk by Yuming ZHAO
			C3.01	N/A	A hybrid AC/DC Distribution Power System	Keynote Talk by Jie ZENG
		09:40 -- 10:40	C3.1	0668	Impact Analysis of Traction loads on Power Grid Based on Probabilistic Three-Phases Load Flow	Yulong Che, Xiaoru Wang, Xiaoqin Lv, Yi Hu, Longyuan Li, Haoyue Chen
			C3.2	0692	Research on Influencing Factors and Improving Methods of DC Power Distribution System	X S Zhao, K Peng, X H Zhang, J S Liu, Y L Zhao, J J Chen
			C3.3	0728	A service restoration strategy of AC/DC hybrid distribution networks	Chengwei Lou, Lu Zhang, Xiaohui Zhang, Pengwei Cong, Wei Tang, Jun Liang
C3.4	0758	Control scheme for multi-terminal VSC-based medium-voltage DC distribution networks	Yirun Ji, Zhichang Yuan, Jianfeng Zhao, Yuming Zhao, Yan Li, Guoxiang Li			
Session C4	Conference Room 4	09:00 -- 09:20	C4.0	N/A	TBC	Keynote Talk by Guangning WU
			C4.1	0358	Researches on Reradiation Interference from UHV Power Lines with the	B Tang, Y.W Li, H.S Hhuang
		09:20 -- 10:40	C4.2	0455	EMI Radiation noise Suppression Technology by inductor current recoil on Boost PFC	Zhou Shen, Yang Zhao, Yan Wei, Jin Yu, Mengxia Zhou, Tao Chen, Jianming Zhu
			C4.3	0612	A simulation of drag reduced conductors based on a new accurate model using FEM	P J Wang, Y C Gao, H W Wang, M Qiao, M Xia, Q Q Li
			C4.4	0618	Modeling of the two-dimensional scattering center of the wind turbine based on FEKO	Bo Tang, Hao Chen, Li Huang, Haobang Liu
			C4.5	0202	Application of Short-Time Fourier Transform for Harmonic-Based protection of Meshed VSC-MTDC Grids	Mani Ashouri, Filipe Faria Da Silva, Claus Leth Bak
Session C5	Conference Room 5	09:00 -- 10:40	C5.1	0516	Risk assessment of demand response considering wind power generation	Min Lei, Shuangye Mo, Wuqing Wei, Yifei Hua, Bolun Zhang
			C5.2	0438	A Day-ahead Optimal Energy Dispatch Schedule for Integrated Energy System Based on AC/DC Interconnected Infrastructure	Aidong ZENG, Sipeng HAO, Qingshan XU, Yujun LIU, Ling JIANG
			C5.3	0648	Islanding Detection Method of Distribution Generation System Based on Logistic Regression	Chen H R, Xu J Y, Li H, Chen G Q, Jiang Y Y, Cai S W, Chen J B
			C5.4	0201	Construction of an example system for AC / DC hybrid power grid with high proportion renewable energy	Dawei Zhao, Minhui Qian, Jin Ma, Lingzhi Zhu, Liangzhong Yao, Kun Ding, Hualing Han
			C5.5	0390	Zero-Sequence Circulating Currents Inhibition of Microgrid Based on MPC and Droop Control	XH Yang, XQ Han, PX Wang

Oral Presentation (Session D)



Session ID	Location	Time slot	Oral ID	Paper ID	Title	All authors (first, last)
Session D1	Conference Room 1	11:00 -- 11:20	D1.0	N/A	High-speed Simulation and Modelling of modern VSC based HVDC Converters	Keynote Talk by Ani Gole
		11:20 -- 12:40	D1.1	0520	Study on pre-charging process and pre-insertion resistors selection of VSC-HVDC system with different MMC topologies	Lu Yuxin, Huang Ying, Zhao Xiaobin, Xu Dizhen, Guo Long, Qin Kang
			D1.2	0521	Influence of the Clamping Force on the Power Cycling Lifetime Reliability of Press Pack IGBT Sub-module	E P Deng, J W Zhang, Z B Zhao, J Chen, J Y Li, Y Z Huang
			D1.3	0538	An Optimal Reactive Power Control Scheme for Rectifier Station Considering the Coordination Control of Low-voltage Reactor and AC System	Z J Hui, Z G Hao, Y Zhang, H S Zou, X J Yu, Z Y LIU
			D1.4	0561	Research on the voltage regulation strategy of AC distribution network based on distributed PV grid-connected inverter	Xiangqian Tong, Minghang Zhong, Xiaoqing Zhang, Jun Deng, Zhihua Zhang
			D1.5	0767	A novel seven-level inverter with switched capacitors	X Z Wu, Y X Zhao, F Liu, J D Liu, J Wang, J C Jiang
Session D2	Conference Room 2	11:00 -- 11:20	D2.0	N/A	Control technologies of 10kV MTDC power distribution grid	Keynote Talk by Zhichuang YUAN
		11:20 -- 12:40	D2.1	0171	DC fault detection and identification of a four-terminal MMC based DC grid using ANN method	Saizhao Yang, Wang Xiang, Jinyu Wen
			D2.2	0244	Independent-Phase Current Control of a Three-Phase VSC under Unbalanced Operating Conditions	Xianghua Shi, Shaahin Filizadeh
			D2.3	0270	Alternate Arm Modular Multilevel Converter Energy Balancing via Overlap Onset Control	Steven Howell, Haiyue Wang, Shaahin Filizadeh
			D2.4	0320	Diagnostic analysis and protective measures of transient ground potential rise in a 1000 kV UHV Substation	Fubin PANG, Qiangsheng BU, Yu LIU, Yubo YUAN
			D2.5	0353	Research on Substation-area Breaker Failure Protection Based on Principle of Current Differential	Baowei Li, Minghao Wen, Pengfei Lv, Junchao Zheng, Yaxin Su

Session D3	Conference Room 3	11:00 -- 11:20	D3.0	N/A	TBC	Keynote Talk by Jinliang HE
		11:20 -- 12:40	D3.1	0351	COMPARISON OF NATURAL CONTAMINATION ACCUMULATION CHARACTERISTICS BETWEEN COMPOSITE ROD INSULATORS AND STANDARD SUSPENDED INSULATOR STRINGS	Te Li, Shaohua Wang, Haojun Liu, Yangyong Xu, Yuntu Jiang, Peng Jiang
			D3.2	0394	Impact of Variable DC Reactor on VSC-MTDC Transmission Systems	H Li
			D3.3	0448	Application of tower grounding device equivalent circuit model in the calculation of transmission back-flashover	H F Chen, H S Cai, Y Ni, L Jia, H L Lu, G Liu, L Lan
			D3.4	0483	Study on the reliability of a new kind of ± 1 100 kV DC Voltage Divider under the action of impulse voltage	pu Wu, Long Pang, Ning Yang, Jie Zhang, Xiu Wu
			D3.5	0497	The research of Non-destructive Testing for Aluminium Sheaths of HV Cables Using Ultrasonic Guided Waves	C Junping, J Hang, W Shaohua, Y Yong, Z Luyao, J Peng

Session D4	Conference Room 4	11:00 -- 11:20	D4.0	N/A	Influence of Rainfall on DC/AC Corona Discharge Characteristics	Keynote Talk by Bo ZHANG
		11:20 -- 12:40	D4.1	0619	Simulation and analysis of EMP transient electromagnetic effect of aircraft	Chen Chen, Wei Yan, Yang Zhao, Enrong Wang, Chunxiao Fu, Runqing Ma, Jiaming Zhu
			D4.2	0634	Analysis on Structural Parameters and Electrical Performance of DC Deep Well Grounding Electrode	Y Teng, H S Cai, L Jia, G Liu, S M Hu, H L Lu, X S Wen
			D4.3	0661	Comparison and analysis of the fault arc characteristics of flexible DC transmission lines	B T Li, H Q Cui, Y C Liu, B Li
			D4.4	0719	Study on the Aging of Insulators Based on Surface Charge accumulation process	YC gao, PJ wang, S Ma, QQ Li, A Reng, ZR Zhao, ZT Wang
			D4.5	0720	Aging Condition Assessment of Oil-Paper Insulation by using Near Infrared Spectroscopy Detection and Analytical Technique.	Feng Tang, Yin Zhang, Bin Yuan, Yuan Li, Wen-Bo Zhang, Guan-Jun Zhang

Session D5	Conference Room 5	11:00 -- 12:40	D5.1	0311	A Review of Oscillations In VSC-HVDC Systems Caused by Control Interactions	Congqi Yin, Xiaorong Xie, Shukai Xu, Changyue Zou
			D5.2	0326	Research on the Design Principle of the Contact Terminals in Large DC Current Loop of $\pm 800\text{kV}$, 10000MW UHVDC Converter Station	Peng Chen, Dongsheng Lu, Liang Ma
			D5.3	0386	Real-time Optimization of Emergency DR and HVDC Power Modulation to Improve Short-term Frequency Stability of the Receiving-end Power Systems	Luping Wang, Xiaorong Xie, Long Peng, Yinghong Hu, Yuan Zhao
			D5.4	0425	Research on Coordinated Reactive Power Control Strategy of Hybrid-HVDC	Ying Huang, Chunhua Li, Tao Liu
			D5.5	0509	Impacts on Operational Characteristics of AC/DC System with Different Grid Integration Modes of Offshore Wind Farm via MMC-based HVDC Transmission	Zhongrui Nie, Libao Shi, Yue Zhao, Yixin Ni

Oral Presentation (Session E)



Session E	Location	Time Slot	Oral ID	Paper ID	Title	All authors (first, last)
Session E1	Conference Room 1	13:40 -- 15:30	E1.1	0627	Influence of electric vehicle access mode on the static voltage stability margin and accommodated capacity of the distribution network	Xiangqian Tong, Qiao Ma, Kaiyu Tang, Huakun Liu, Cheng Li
			E1.2	0653	Zonotope based quantification of the impact of renewable power generations on hybrid AC/DC distribution system	Jianing Gao, Bei Han, Chenbo Xu, Lijun Zhang, Guojie Li, Keyou Wang
			E1.3	0665	An Available Transfer Capability Analysis Method of AC-DC Power System Based on Security Region	Sicheng Wang, Shan Gao
			E1.4	0700	Optimal Control of Hybrid Energy Storage System Design for Wind Power Balancing	Guannan WU, Jianyuan XU, Jun XU, Yi SONG, Gaole YU, Yuxiao WANG, Xianguo WANG
			E1.5	0558	SSO ANALYSIS AND SSDC PARAMETER OPTIMIZATION BASED ON THE WIND FARM CONNECTED TO HVDC TRANSMISSION SYSTEM	Yang Xu, Xitian Wang, Dawei Zhao, Minhui Qian, Bingdeng Yang, Shiyu Liu

Session E2	Conference Room 2	13:40 -- 14:00	E2.0	N/A	Hybrid simulation of large HVAC/DC transmission system and its application	Keynote Talk by Shuqi ZHANG
		14:00 -- 15:30	E2.1	0081	A contingency-constrained optimization method for operating urban power grids with flexible switching stations	J Liu, H Z Cheng, Q Xu, Z Lan, P L Zeng, L Z Yao
			E2.2	0130	The WIDE AREA INTER-AREA OSCILLATION CONTROL SYSTEM IN GB ELECTRIC POWER SYSTEM	Deyu Cai, Lei Ding, Xin Zhang, Vladimir Terzija
			E2.3	0153	A Novel Methodology Solving Distribution Network Reconfiguration with Distribution Generation Placement	Zhiyun Gong, Qing Chen, Kongming Sun
			E2.4	0356	Study on the Influence of Transition Resistance and Fault Moment on DC System Commutation Process Caused by Two-Phase Fault of AC System	Jinzhao Song, Yongli Li, Yunke Zhang, Jingqiu Zhang
			E2.5	0469	Distributed Coordination Optimization Control Strategy for Active Distribution Network Based on Combine-Then-Adapt Diffusion Algorithm	L Z Wu, L B Jiang, X H Hao

Session E3	Conference Room 3	13:40 -- 14:00	E3.0	N/A	Ferroelectric Polymer-Based Hybrids and Nanocomposites for Electric Energy Storage	Keynote Talk by Qi LI
		14:00 -- 15:30	E3.1	0551	Development of Magnetic-wedge Linear Adjustable Reactor	Ruiyang Guan, Xinlao Wei, Qingguo Chen
			E3.2	0556	A NOVEL PROTECTION METHOD FOR VSC-HVDC TRANSMISSION LINES	L T Jiang, Q Chen, L Wang, P Zhao, Y Zeng, W D Huang
			E3.3	0606	Power cable stresses caused by transmission line faults in next generation VSC-MMC systems	P Tünnerhoff, P Ruffing, R Puffer
			E3.4	0640	Temperature Field Simulation and Ampacity Optimization of 500kV HVDC Cable	Boda Zhou, Yanjie Le, Yalin Fang, Fan Yang, Tao Dai, Lu Sun, Jiapeng Liu, Lekai Zou
			E3.5	1039	The Impulse Dielectric Behavior of Dry-Air in Sphere-Plane Gap	Zilu Jin, Feng Li, Wu Lu, Yuan Gao, Wenbin Zhao
			E3.6	0770	Study on Pollution Flashover Characteristic of Insulators on 500kV AC Transmission Lines in High Altitude Area	Ruiping Huang, Jun Zhou, Yueneng Xu

Session E4	Conference Room 4	13:40 -- 15:30	E4.1	0723	Preliminary study on the structure design of 330kV GIS with three phase in one tank	Wenlong PANG, Xixiu Wu, Shimin CHENG, Shipu WU
			E4.2	0734	Power System Stabilizer PSS4B-W Parameters Optimization and RTDS Test Verification	S Y Guo, S S Zhang, W J Zhu, L Li, H Li
			E4.3	0735	Electric field calculation and grading ring design for 750 kV four circuits transmission line on the same tower with six cross-arms	Feng Huo, Peng Zhang, Yiliang Yu, Qin Liu, Lei Chu, Xuezhong Wang
			E4.4	0737	Study on electric field distribution characteristics of maintenance area when UHV AC transmission line crossing 220 kV tower	Feng Huo, Wei Lu, Zhibin Qiu, Daochun Huang, Congpeng Huang
			E4.5	0738	Study on the breakdown characteristic of conductor-plane gap under vegetation fire condition based on the combustion features	Daochun Huang, Wei Lu, Tao Yao, Peng Li
			E4.6	1031	Steady-State Model of Multi-Port Electric Energy Router (EER) and Power Flow Analysis Method of AC/DC Hybrid System Considering Control Strategies	Yu Shen, Fengju Zhu, Chunpeng Zhang, Weiqian Cai, Liqiang Yuan, Kai Li, Zhengming Zhao

Session E5	Conference Room 5	13:40 -- 14:00	E5.0	N/A	TBC	Keynote Talk by Jian LI
		14:00 -- 15:30	E5.1	0511	Study on overvoltage of hybrid LCC-VSC HVDC transmission	Dizhen Xu, Xiaobin Zhao, Yuxin Lu, Kang Qin, Long Guo
			E5.2	0589	Influence factors and reasonable arrangement of corridor width of 750kV HVAC and ± 800 kV HVDC hybrid transmission lines	Qian Zhang, Yinfei Li, Xuebao Li, Tiebing Lu
			E5.3	0590	Seismic Evaluation of ± 800 kV UHVDC Disconnect Switch by Shake Table Test	J Y Wen, Q Xie
			E5.4	0659	Application of UPFC in Fujian 500kV Power Grid	M LI, Z S LIN, W WU, Y LIN, P B JIANG, Z D HU, R YE, Y DU
			E5.5	0769	Analysis of Power Transmission Limit for VSC-HVDC Feeding Weak Grid.	Aijun Wu, Zhichang Yuan, Hong Rao, Baorong Zhou, Hongxin Li

Oral Presentation (Session F)



Session F	Location	Time Slot	Oral ID	Paper ID	Title	All authors (first, last)
Session F1	Conference Room 1	15:50 -- 17:40	F1.1	0024	Pumped energy storage system technology and its AC-DC interface topology, modelling and control analysis: A review	Girmaw Teshager Bitew, Minxiao Han, Patrobers Simiyu, Zmarrak Wali Khan, Luu Kim Tuan
			F1.2	0607	Reliability evaluation and thermal design of medium voltage converter for underwater long-distance high-voltage direct current transmission system	Siyuan Ma, Jinbo Zhao, Cheng Luo, Qiong Chen, Ming Zha, Qiaopo Xiong, Zhiqing Luo, Qing Liu, Lei Cheng, Jie He, Heng Wang
			F1.3	0638	Multiple Modular DC Transformer for Flexible HVDC Application	Q Sun, B Zhao, Q Song, R Zeng, Y wang
			F1.4	0714	Time-sharing control of multi-inverter-module parallel system for frequency multiplication	ZHANG YANXIAO, LI SHOUZHI, CAO XIAOGE, XU WEI
			F1.5	0730	Coordination Control Strategy for LLCL-Filter Based Grid-tied Inverter with Indirect Sliding Mode Power Control and Virtual Impedance	L Z Wu, T F Liu, X H Hao

Session F2	Conference Room 2	15:50 -- 16:10	F2.0	N/A	Transient Voltage Measurements for Overhead Transmission Lines and Substations by Metal Free and Contactless Integrated Electro-optic Field Sensors	Keynote Talk by Chijie Zhuang
		16:10 -- 17:40	F2.1	0040	Transmission congestion management considering energy internet zones' integration	YY Liu, HB Lian, XW Tang, ZQ Shen, JR Li, L Liu
			F2.2	0232	Analysis on SSR Frequency Components by Studying Two-dimensional Modulation of Synchronous Generator's Flux Linkage	Juan Li, Xiaoming Yuan, Meiqing Zhang, Zhihao Liu
			F2.3	0233	Analysis of the Influence of Dynamic Components of AC / DC Systems on Transient Voltage Stability Based on Energy Function Method	Zhang W Q, Du Z B, Huang C S, Xia C J, Zhang Y
			F2.4	0247	Fast Frequency Response for Effective Frequency Control in Power Systems with Low Inertia	Q Hong, M Nedd, S Norris, I Abdulhadi, M Karimi, V Terzija, B Marshall, K Bell, C Booth
			F2.5	0322	The Improved Travelling Wave Protection for EHV/UHV Transmission Lines	Youyi Li, Jianping Wang, Kai Liu
			F2.6	0346	Assessment Method and Metrics of Power System Resilience after Disasters	Han Zhang, Zhaohong Bie, Gengfeng Li, Yanling Lin

Session F3	Conference Room 3	15:50 -- 16:10	F3.0	N/A	A novel method to monitor steady-state and transient currents in DC systems with giant magnetoresistive (GMR) effect sensors	Keynote Talk by Jun HU
		16:10 -- 17:40	F3.1	0459	Estimation of State-of-Charge Based on Unscented Kalman Particle Filter for Storage Lithium-ion Battery	Shengwei Gao, Mingren Kang, Longnv Li, Xiaoming Liu
			F3.2	0499	Dynamic Interaction between Synchronous Machine and DC-Power-Modulated LCC in Electromechanical Timescale	Jiazu Hou, Shicong Ma, Xuan Gong, Jiabing Hu
			F3.3	0384	Analysis of Wireless Power Transfer Based on Metamaterial Using Equivalent Circuit	C C Rong, C H Lu, Z Y Hu, X T Huang, X Tao, S M Wang, B Wei, S C Wang, M H Liu
			F3.4	0660	A Novel Method of Wireless Power Transfer Identification and Resonance Decoupling Based on Frequency Hopping Communication	Y Li, W H Dong, Z Liu
			F3.5	0726	A Novel Coil Structure with High Power Density in Wireless Power Transfer System	Y Li, L Liu, C Zhang, J T Zhao, Q X Yang
			F3.6	0745	Study on typical transmission sections searching method considering geographical attributes for large power grids	Bing Xue, Jiandong Duan

Session F4	Conference Room 4	15:50 -- 16:10	F4.0	N/A	DC bias withstand characteristic test and electromagnetic calculation for power transformer	Keynote Talk by Shuqing ZHANG
		16:10 -- 17:40	F4.1	0746	Monitoring of the contact state of GIS switch based on infrared sensing technology	C Chen, Z Lei, W Liqiang, L Qi, S Tao, W Wei
			F4.2	0764	Simulation Analysis of Bird Excretion's Falling Trajectory on High Altitude Area	H Q Wang, S H Wang, G H Yang, F C Lv, B Han, X Y Wang
			F4.3	0837	Effects of Humidity in Variation of DC Corona-generated Space Charge in Rod to Plane Electrode	Xingming Bian, Zichen He, Junyu Zhu, Xinan Pi, Shuwei Wan, Lei Qi
			F4.4	0838	Corona Characteristics of Conductor with TiO ₂ Hydrophilic Film subjected to DC High Voltage	Xingming Bian, Yaoyu Lin, Xinan Pi, Tiebing Lu, Feifei Xu, Haibing Li, Yanxiang Ma
			F4.5	1015	STUDY ON SURFACE ELECTRIC FIELD AND GROUND NOMINAL ELECTRIC FIELD OF HVDC TRANSMISSION LINE ON SLOPE TERRAIN	Chenguang Gao, Yuanqing Liu, Jiangtao Zhao, Xirun Zhang, Wenyu Li, Hui Han, Jingchen Zhang

Session F5	Conference Room 5	15:50 -- 17:40	F5.1	0691	Application of 500kV UPFC in Suzhou southern power grid	X Wang, H Wang, J Yang, Z Xu, W Sun, C Wu, C Li
			F5.2	0704	Characteristic Investigation of MMC-HVDC System Under Internal AC Bus Fault Conditions	Shuo Ma, Jianyuan Xu, Guannan Wu, Yuxiao Wang, Yi Song, Gaole Yu, Ziyi Liu
			F5.3	0721	Electric field analysis and structure design of the box of bird guard used in 220 kv transmission line	Y J Kuang, Y L Li, Y Q Deng, D C Huang, Z B Qiu
			F5.4	0724	Calculation and control of DC-bias current distribution in AC Power System around a typical ± 800 kV DC grounding electrode	Wu Fangjie, Yu Shifeng, Zhao Zheng, Quan Wanlin
			F5.5	0754	Economic dispatch of power system containing UHVDC with direct power purchase by large consumers	H H Qian, Y T Jiang, W Xiang, Y B Li, Y T Hua, Z M Lin, K Wang

Poster AB (POAB)

13:40 -- 17:40, 28th June 2018



Poster ID	Paper ID	Title	Name
POAB0001	0004	Development of ± 660 kV DC Transmission Line Arrester	Shanqiang GU, Wei CAO, Shuai WAN, Jiahong CHEN, Jin Tan, Jian WANG, Jun Lv
POAB0002	0005	Cascading failure risk assessment in power grid considering the line outage rate	song shuang, zhou weiping, xu peidong, feng jing
POAB0003	0006	Development and Application of Lightning Flashover Limited Equipment for 220kV AC Transmission Line	Wei CAO, Shuai WAN, Shanqiang GU, Heng Xu, Jiahong CHEN, Jian WANG, Jun Lv
POAB0004	0007	Study on Quick Judgment of Power System Stability Using Improved k-NN and LASSO Method	Dongyu Shi, Fang Tian, Tie Li, Xianbo Meng, Junci Tang, Yanhao Huang, Dai Cui, Yushi Zhang, Hui Zeng
POAB0005	0008	A novel pilot protection scheme for transmission line of hybrid HVDC system based on polarity characteristics of current and voltage fault	Y Wang, B Zhang, S Cheng
POAB0006	0009	The overhead transmission line protection scheme for the VSC-based HVDC grids	Y Wang, B Zhang, X Fan
POAB0007	0011	Pre-processing Approach for De-noising On-line Oil Chromatography Data Based on Self-adapting Wavelet Analysis	Chunyan GONG, Wei HU, Xiaohong WU, Bin LU, Yiming ZHENG
POAB0008	0012	A Novel Optimal Approach for 550kV AC Resin Impregnated Paper (RIP) Oil-SF Immersed Bushings Design	Shiling Zhang, Qiang Yao
POAB0009	0013	Analysis of Application Effect of 220kV UPFC Demonstration Project in Shanghai Grid	Cui Yong, Yu Yinghui, Feng Yuyao, Bao Wei, Guo Qiang, Xie Wei, Jin Minjie
POAB0010	0014	SSO of DFIG-Based Wind Farm Integrated by Hybrid Series Compensator	Xinyao Zhu, Qian Zhou, Ningyu Zhang, Zhe Chen, Jingbo Zhao, Meng Jin
POAB0011	0015	Analysis on Characteristic of DC Short-Circuit Fault in Multi-Terminal AC/DC Hybrid Distribution Network	X M Qi, W Pei, L Kong, L Y Li, H Xiao, G Niu
POAB0012	0016	Novel Method for Restraining 35kV Shunt Reactor Switching Overvoltage--Phase Controlled Breaker	Yiming ZHENG, Bin YU, Wenlin HE, Dong YAN, Xianliang LI, Hua XU
POAB0013	0017	Case Based Power Transformer Diagnose Model Using Nonlinear Mapping of Oil Chromatography	Yiming ZHENG, Hui YAO, Jun SHENG, Wenlin HE, Xiang SUN, Wenhao WANG, Jiangyang ZHANG
POAB0014	0019	Research on Interaction Between Continuous Commutation Failure of UHVDC and AC System Fault	Peng wei, Jiankun liu, Qian zhou, Ningyu zhang
POAB0015	0020	Restart Progress of Fault in UHVDC After Blocking	Peng wei, Qian zhou, Jiankun liu, Chenggen wang
POAB0016	0021	Fault section locating method and recovery strategy of pole-to-ground fault for MVDC distribution network	Shan He, Guibin Zou, Chenjun Sun, Shiming Liu
POAB0017	0586	PARALLEL OPERATION OF VIRTUAL SYNCHRONOUS GENERATORS AND SYNCHRONOUS GENERATORS IN A MICROGRID	X Yan, S Y Altahir, D Li, A S Gadalla

POAB0018	0028	Control of a synchronverter-based soft normally open point in a distribution network	R Wu, L Ran, G Weiss, J Yu
POAB0019	0031	Probabilistic analysis of payback period for ACDC transmission and distribution asset expansion projects	L Bin, M Shahzad, Q Bing, M U Shoukat, N A M Fahal, P Simiyu, R Islam
POAB0020	0035	Calculation method of short-circuit current and voltage considering the interaction of different ports in DC system	Yan Xu, Hui Yang, Jingyan Liu
POAB0021	0037	Digitally Controlled Modular Multilevel Converter (MMC) with Improved Predictive Control	M L Zhu, L J Hang, G J Li, H Guo, Y X Xing
POAB0022	0038	An improved method of VDCOL to Mitigate the Commutation Failure for Conventional HVDC	Yong CUI, Mingnian LI, Xiu YANG, Dandan ZHAO, Hua HUANG, Danzhen GU
POAB0023	0039	A Double-port Network Model with Fault Flag based on Multi-terminal DC System	Yuan Fu, Jingyan Liu, Yan Xu
POAB0024	0041	Sub-synchronous resonance mitigation by STATCOM in DFIG-based wind farm connected to series compensated transmission network	B F Gao, Y T Hu
POAB0025	0043	Performance of the Battery Energy Storage Systems Based on the Modern Cascaded Multilevel Converter	Abuzaid Saeed Gadalla, Xiangwu Yan, Hashim Hasabelrasul
POAB0026	0046	Analysis and Assessment Standards of Power Stability of Multi-Send HVDC Systems	Zheling Xu, Zheng Xu, Liang Xiao
POAB0027	0048	Start Control of Modular Multilevel Matric Converter Based Fractional Frequency Transmission System	X L Zhang, X F Wang, X L Wang, Q H Huang, J J Fan, Q Zhou
POAB0028	0050	Detailed Modeling and Simulations of an All-DC PMSG-based Offshore Wind Farm	TianYu Shi, LiBao Shi, LiangZhong Yao
POAB0029	0051	The Effect of Cascade STATCOM on Stabilizing Voltage in HVDC	J Q Li, J Wen, H L Liu, S Y Yu
POAB0030	0052	Study on Working Condition of AC Filter Breaker in $\pm 1100\text{kV}$ UHVDC System	Zexin ZHAO, Jie GUO, Fang YU, Xuni Rao, Xiaoke Wu
POAB0031	0053	Exploration of structural model of energy-internet distribution network	Shanshan Zhao, Xiaohui Song, Yajie Li, Fei Gao, Jianfang Li, Yu Zhang
POAB0033	0056	A voltage pole-wave protection scheme for multi-terminal DC grid	Zhongrun Xie, Guibin Zou, Lei Gao, Jie Zhang, Houlei Gao
POAB0034	0058	Research on Segmented Control of Motor Operating Mechanism for High Voltage Circuit Breaker	Y Feng, H Y Wan, J W Wu, J Lan, Y Deng
POAB0035	0059	Study on Characteristics of Wind Power Transmission System with Series Compensation	Yan Li, Yongning Chi, Haiyan Tang, Chao Liu
POAB0036	0060	Study on Fault Ride-through of VSC-HVDC Connected with Islanded Wind Farms Based on Forced Short Circuit of AC-side Bus of the VSC	Yan Li, Chao Liu, Xinshou Tian, Zhibing Wang
POAB0037	0063	Study on Quick Judgment of Small Signal Stability using CNN	Dongyu Shi, Jianfeng Yan, Bo Gao, Mei Xie, Jinxiu Hou, Gang Li, Zhihong Yu, Ying Lv, Guangming Lu
POAB0038	0064	Engineering Practice of Large Scale Millisecond Accurate Load Control System of Jiangsu Power Grid	H M Hu, Q Zhou, N Y Zhang, P Wei, Z F Cui
POAB0039	0066	Discussion on infrared accurate temperature measuring technology of composite insulators for overhead lines	R Liu, Q H Shen, H Liu, Y B Duan, Y Zhang, C Zhou

POAB0040	0070	Research on detection technology of wire clamp on overhead lines	R Liu, X L Hu, H Zhang, R Jia, Y Zhang, C Zhou
POAB0041	0071	DC Line Soft Reclosing Sequence for HVDC Grid based on Hybrid DC Breaker	Xinkai Fan, Baohui Zhang
POAB0042	0075	Additional Reactive Power Control and Emergency Control of ± 1100 kV UHVDC System with Hierarchical Connection Mode	Y.X. Xiong, W. Yao, J.Y. Wen
POAB0043	0076	Energy Storage-based Control of Multi-terminal DC Grid to Eliminate the Fluctuations of Renewable Energy	J.J. Nan, W. Yao, J.Y. Wen
POAB0044	0077	Design and Implementation of the Integrated Experiment Cabinet for Micro Transmission Lines	Hao Li, Yi Lu, Hengxu Zhang, Zewen Zheng
POAB0045	0078	Error Assessment Method of Electromechanical-Electromagnetic Hybrid Simulation	Zewen Zheng, Hengxu Zhang, Weijie Zheng, Hao Li
POAB0046	0084	Modelling and Analysis of the UHVDC transmission Receiving System Considering 300Mvar Novel Synchronous Condenser	Y Ma, L Ruan, Y Xiao, L Zhou, J Wang, Q Tao
POAB0047	0086	study on operation characteristics of DC transmission system with large scale renewable energy integration	minhui qian, dawei zhao, jin ma, lingzhi zhu, rongrong ju, mei chen
POAB0048	0087	Mechanism and Characteristics Analysis of Subsynchronous Oscillation Existing in Grid Integration of DFIG-based Wind Farm with VSC-HVDC System	K Sun, W Yao, J Wen
POAB0049	0089	Motor-Generator Pair: A Novel Technology to Transmit Stable and High Quality Power for Power System with High Penetration of Renewable Energy	X Zhang, A N Li, Y Z Huang
POAB0050	0090	A Directional Element Using High Frequency Transient Energy in Distribution Network with Distributed Generation	Ran Tao, Guobing Song, Liming Yang, Chenhao Zhang, Wei Han, Guang Shi, Chao Liu
POAB0051	0092	Engineering Application Architecture Study on LCC Parallel Multi-Terminal DC Transmission System	Liu Xinyang, Yin Weiyang, Jia Hongjie, Wang Ling
POAB0052	0096	Simulation and analysis of ± 1100 kV UHVDC transmission system with hierarchical connection mode based on PSCAD/EMTDC.	Ziyuan Ren, Jiangtao Li, Fang Yu, Jiixin He, Yuhao Liu, Yi Sun
POAB0053	0101	Fractional Modeling and Simulation for Single-Phase PWM Rectifier	P F Zhu, Y F Wei, Z Zheng, X W Wang, F J Ma
POAB0054	0102	A Steady-State Control Strategy of VSC-HVDC Transmission System Based on Full-order Terminal Sliding Mode Control Method	xuemei zheng
POAB0055	0108	Power System Stochastic Transient Stability Assessment Based on Monte Carlo Simulation	Jiayu Liu, Jun Liu, Jie Zhang, Wanliang Fang, Longchu Qu
POAB0056	0109	Reliability and Economy Assessment of Offshore Wind Farms	Q Huang, X Wang, J Fan, X Zhang, Y Wang
POAB0057	0112	Reliability Assessment of DC Series-Parallel Offshore Wind Farms	Q Huang, X Wang, T Qian, L Yao, Y Wang
POAB0058	0114	CALCULATION OF MAIN CIRCUIT STEADY STATE PARAMETERS FOR S-MTDC TRANSMISSION SYSTEMS	Shiyu Yu, Jun Wen, Jiaqi Li, Helin Liu
POAB0059	0115	Research on Protection Block Strategy of Grounding Faults in HVDC Converter Station	Y Liu, X Zhu, J Deng, J Guo, F Yu, J Li
POAB0060	0117	Study on the resonance stability problem of wind power base with MMC-HVDC system	Facai Xing, Shijia Wang, Feng Zhang, Heng Wang, Zheng Xu, Huangqing Xiao

POAB0061	0119	Analysis of Resonant Characteristics of Yunnan Power Grid Under Different Operating Modes of AC / DC Hybrid System	H L Liu, J WEN, S Y YU, J Q LI
POAB0062	0120	A Bidirectional Solid Current Limiter for HVDC Grids	Jiantao Li, Xiaoming Zheng, Gang Wang, Chao Hong, Yan Chen
POAB0063	0122	Transient Stability Analysis of One Special Type of AC Microgrids With a Gas Reciprocating Generator Unit	Jun Liu, Huiwen Sun, Can Su, Jun-hui Wu, Gui-quan Han, Jian He
POAB0064	0123	Related elements method to evaluate power quality of AC-DC converter substation	Ye Yuan, Daming Zhu, Jinxing Jie
POAB0065	0126	A Novel Optimal Approach in the EMS of Microgrids Based on Online Forecasts	Die Wang, Gui-quan Han, Su-min Pang, Ming-fei Wang, Guo-hui Han, Xudong Hao, Hang Song, Jun Liu
POAB0066	0127	VBR Electromagnetic Transient Fast Simulation Model of Synchronous Machine Based on Time Scale Transformation	Shu-jun Yao, Peng Zhan, Shuo Zhang, Wan-hua Guo
POAB0067	0128	A novel fault current-limiting scheme for MMC based flexible HVDC system	Y Y Ma, G B Zou, S L Song, Z J Gao, J B Guo
POAB0068	0131	STUDY ON THE ELECTROCHROMIC LABEL FOR HIGH-VOLTAGE EQUIPMENT WITH WO ₃ /Cu ₂ /Cu ₂ O	L N Wang, E W Li, B Song, S L Jian, J C Gao
POAB0069	0136	A Modified Electromagnetic Transients Model of Transmission Line Based on Rotation Transformation	Shujun Yao, Shuo Zhang, Peng Zhan, Wenerda Huang
POAB0070	0137	The Influence of Temperature on the Growth Characteristics of Water Tree in XLPE Cable	Tao Wenbiao, Song shuyong, Zhang Wei, Bai Rui, Duan Weinan, Wang Wei
POAB0071	0138	Development Characteristics of Partial Discharge Channels in the Power Cable Termination	Tao Wenbiao, Hou Shaojian, Wan Li, Wang Jinhao, Zhang Wei, Hao Wei
POAB0072	0139	Analysis of the equivalent fault characteristics of DC system and its impact on distance protection based on power-frequency variation	Dongxiao Cai, Haifeng Li, Xinchu Zhu
POAB0073	0143	Research for Shielding Effect of 3-Phase Air-Core Reactors in Substation by Using Different Materials	Tao Wenbiao, Wang Jinhao, Ma Zhenguo, Duan Weinan, Wang Wei
POAB0074	0144	Interpolation algorithm considering simultaneous solution and instantaneous solution for power electronics electromagnetic transient simulation	H Y Peng, M Liu, Q Mu, L X Sun, X Zhang
POAB0075	0145	A Novel Harmonic Compensation Method Using Single-Phase Cascaded H-Bridge Converters	Ruiqi Wang, Wei Xu, Xin Shi, Sun Li, Chao Wang, Weilong Lyu, Jian Liang, Liyang Du
POAB0076	0146	Study on Overvoltage Characteristics and Arrester Configuration Strategy for ± 110 kV HVDC Transmission Lines	Xiaoguang Zhu, Yichen Liu, Junbo Deng, Fang Yu, Jiangtao Li, Jie Guo, Guanjun Zhang
POAB0077	0147	Influence of Solid Oxide Fuel Cell on Power System Transient Stability	J Liu, C Su, C Wang, L Zhu, J He
POAB0078	0148	Simplified Calculation of Maximum Ground-level Electric Field when Two HVDC Transmission Lines run across at Any Intersection Angle	F Xiao, J Yan, B Zhang, Y Wang
POAB0079	0150	Grid-Connected Control Strategy of Modular Multilevel Converter-Battery Energy Storage System Based on VSC	Dan Zhang, JianGuo Jiang, Liang Zhang, ZhongZheng Zhou
POAB0080	0151	Alleviating Congestion of Hybrid Urban Grid by VSC-Control and Ac-Line Switching	Qian Xiong, Yong Li, Hai Peng, Youbo Liu, Xi Zhang, Xianglong Liu
POAB0081	0154	Improved Sensitivity Analysis Method and Decision Error Discussion for Limiting Short-circuit Current of Power Grid	Shixiong Qi, Xiuli Wang, Shijun Tian, Ruogu Wang

POAB0082	0155	Analysis for DC Transmission Line Harmonics Originated from AC Transformer Inrush Current and Improved Method for DC Harmonic Protection	Wenbin Cao, Xinaggen Yin, Xuanwei Qi, Yuxue Wang, Wei Liu, Yuanlin Pan
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POAB0088	0164	CHARACTERISTICS OF ELECTROSTATIC DISCHARGES BETWEEN METALLIC OBJECTS IN ION FLOW FIELD UNDER HVDC LINE	Xueshan Li, Donglai Wang, Tiebing Lu
POAB0089	0166	Applicability Analysis of Traveling Wave Protection for Hybrid HVDC System	Shaojie Cheng, Yanting Wang, Baohui Zhang, Hongyue Ma
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POAB0091	0170	Comparative Research of Harmonic Suppression Algorithm of Three - level NPC Converter	Ning LI, Tong GAO, Hui ZHANG, Ping YANG
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POAB0093	0174	A Subjective-Objective Methodology on Selection of Power Quality Compensation Technology in AC-DC Network with Electrified Railways	Yizheng Xu, Weijie Zheng, Dechao Xu, Xing Zhang
POAB0094	0176	Research of independent DC electric field sensor with wireless power supply circuit	J Z When, Z Q Yu, C Zhang, Y Mou, Y S Huang, Z M Zhen
POAB0095	0177	Real-time price responding method in distribution network based on smart loads.	YX Chen, G Ma, Y Wang
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POAB0113	0218	Modeling and simulation of Yidu-Huaxin HVDC transmission system based on PSCAD	Zou Jian, Huang Hua, Cui Yong, Jin Minjie, Gu Danzhen, Zeng Jian, Dong Mingrui
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POAB0126	0246	FREQUENCY REGULATION PARTICIPATION OF OFFSHORE WIND FARM INTEGRATED BY DIODE-RECTIFIER HVDC SYSTEM	Lijun Xie, Liangzhong Yao, Yan Li, Lie Xu, Zhibing wang, Chunxia Wei, Fan Cheng
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POAB0128	0249	Characteristics of commutation failure based on fault recording	Han Zheng, Zhu Jing-kai, Zou Jian, Chen Jia, Huang Hua, Jin Heng, Zhao Dandan
POAB0129	0253	A Novel Correction Control Approach for AC/DC Hybrid Network Considering PQ Decoupling Property	Yi Lin, Meng Li, Zhi-nan Qi, Liu-qing Qiu, Yong-hua Zhang
POAB0130	0254	Research on Application of FDNE based on RTDS and Comparison Analysis of Fault Transient of Shanghai Sijing AC-HVDC Hybrid Power Grid	Zou Xiaofeng, Yang Shihao, Zhou Desheng, Song Jie
POAB0131	0255	A Coordination Control of Medium-voltage Hybrid AC/DC Distribution	Yini Xu, Zhangliang Zhai, Xiaoning Kang, Mingda Guo, Xiuda Ma
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POAB0133	0257	Estimating Lower Probability Bound of Power System's Capability to Fully Accommodate Variable Wind Generation	Bin Liu, Bingxu Zhai, Mengchen Liu, Feng Liu, Haibo Lan
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POAB0141	0269	Fault Distance Estimation Based Protection Scheme for DC Microgrids	Lin Zhang, Nengling Tai, Wentao Huang, Yanhong Wang
POAB0142	0271	FPGA IMPLEMENTATION OF IMPEDANCE-COMPENSATED PHASE-LOCKED LOOP FOR HVDC CONVERTERS	Yue Yi, Ajinai Ajinai, Aniruddha Gole
POAB0143	0272	Wavelet-based EMTR Method for Fault Location of VSC-HVDC Transmission Lines	Xipeng Zhang, Nengling Tai, Xiaodong Zheng, Wentao Huang
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POCD0146	0278	Application of Emergency Control of Central Air Conditioning in Safe and Stable Operation of Large Power Grid	Meng Liu, Qiwei Guo, Guohui Zhang
POCD0147	0281	Influence of moment of inertia on electric power system security and stability control	Xiaoguang Ma, Dahai Yu, Ming Nian, Zhenhua Xu
POCD0148	1038	Shockwave Phenomena in an Inhibited Gas-to-Liquid Hydrocarbon Transformer Oil under Lightning Impulse	Wu Lu, Feng Li, Yuan Gao, Wenbin Zhao
POCD0149	0283	Electromagnetic Transient Modeling and Simulation of Power Converters Based on A Piecewise Generalized State Space Averaging Method	Lei Wang, Xinchang Deng, Junxian Hou, Tiezhu Wang
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POCD0160	0301	Coordinated Control of Independent DC Micro-grid Based on Fuzzy-PI Algorithm	Zhiping Cheng, Yali Xu, Zhongwen Li, Hannian Zhang, Jinfeng Gao
POCD0161	0309	A Scheduling Model of Power System with Renewable Energy and Transaction Mode of Direct Electricity Purchase by Large Consumers Considering Network	Yan Li, Xiuli Wang, Wentao Zhang, Yu Zuo, Qianwen Zhang
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POCD0163	0312	Frequency Deviation Peak Calculation of Sending-end Network in Large Asynchronous Interconnected Power Grid	Wei Sheng, Zheng Xu, Xiangyang Guo
POCD0164	0313	A Novel Unified SVPWM Algorithm for Six-phase Voltage Source Inverter	Lei Yuan, Ke-yin Wei, Ying Lin, Shu Chen

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POCD0239	0468	Tower Air-gaps Discharge Characteristics and Insulation Coordination for UHV AC Double-circuit Line	F. Huo, J. Nan, Q. M. Ye, Y. M. Ma
POCD0240	0615	Research on the strategy of cooperative control between photovoltaic grid-connected and reactive power compensation technology	Z G Li, Y L Peng, F Yao, M Y Liu
POCD0241	0471	Power Integrity Technology Based on Decoupling Network in Switching Power Supply	Yihe Geng, Wei Yan, Yang Zhao, Enrong Wang, Chunxiao Fu, Runqing Ma, Jiaming Zhu
POCD0242	0472	Research on Current-mode Damping Impedance Interface Model Based on Adaptive Impedance Matching	Liu Keyan, Meng Xiaoli, Sun Yanshi, Zhong Gaowen, Kang Zhongjian, Liu Ruiying, Zhao Zhendong
POCD0243	0473	Study on Aging of DC Cable Jacket	SL MU, Q FU, Z ZHENG, YZ HAN, YQ WANG
POCD0244	0485	Research of bi-directional DC/DC converter topology based on super capacitor energy storage system in IP Transmitter	zhihui zeng, xiaowei wang, yanfang wei, yangxiao yu
POCD0245	0487	Design of the fuzzy PI control system for load voltage in hybrid distribution transformer	M K Zhang, D L Liang, Y B Liu, Y Liang
POCD0246	0490	A New Solution to Reduce Voltage Stress of Sub-Module in LCC-MMC Transmission System at the Condition of Communication Fault	D J Xing, J J Su, D W Hu, S M Sun, Y Chen, X W Wang, J Zhang, W Z Yao, J L Wu
POCD0247	0492	The Realization of a DC/DC High Power and Large Current Combined Power Supply for Airborne Radar	Y Y Zhang, S Q Xu, Z W Chen, X Li, B B Dong, Q W Luo, B Li, Y G He
POCD0248	0494	Loop stability analysis of boost circuit under globally dynamic compensation strategy	Xiaofan Wang, Yingna Guo, Weibin Cheng, Mingquan Leng
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POCD0251	0501	Calculation and Protection on the Lightning Intruding Waves of 550kV GIS Substation	Sui Dongpeng, Huang Fucun, Chi Danyi, Wang Yanan, Kang Jiyang, Zhao Dan
POCD0252	0507	Control Strategy of UPFC Based on Power Transfer Distribution Factor	J CHEN, J G TAO, C G WANG, P WEI, J K LIU, Q LI, Q ZHOU
POCD0253	0510	The simulation and research on over-voltage suppression for high voltage transmission line	Y Q, S C, J Y
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POCD0256	0515	Fault Case Analysis and Simulation Research of Neutral-bus Arresters Multicolumn Parallel Connected in Converter Station	Dianlang Wang, Guogen Li, Long Jiang, Xiaowei Yang, Tianman Pi, Zhongkang Huang, Dong Li, Jie Zhang, Xiangyu Yao, Pengyu Su, Libui Zhong
POCD0257	0518	Calculation Method for Equivalent Model of AC Filters in HVDC Transmission System	WT Lv, ZY Xu, CL Wang, C Shen, DZ Jiang
POCD0258	0524	Research on the Accommodation Capability Assessment of HVDC with Large-Scale Wind Power Integration System Based on Risk Constraints of Sub-	Zhang Xiaoyu, Liu Chao
POCD0259	0527	Optimal Design of the Mechanical Switch Suitable for the Automatic Transfer Switch	Jian Wu, Jindong Xu, Dong Lv
POCD0260	0528	Fault Location in AC Transmission Lines with Back-to-Back MMC-HVDC using Convolutional Networks	Beier Zhu, Haozong Wang, Xinzhou Dong, Shenxing Shi
POCD0261	0530	Control Strategy for Hybrid LCC-C-MMC HVDC System under AC Fault at Rectifier Side	Yinglin Xue, Fenglei Ge, Zheng Zhao, Zheren Zhang, Facai Xing

POCD0262	0535	Outputting/storage dual mode PV storage system based on virtual synchronous generator	X W Yan, X Y Zhang, B Zhang
POCD0263	0540	Coordinating fault ride through strategy for connection of offshore windfarms using VSC-HVDC under single polar fault	Siyang Ge, Kaipei Liu, Liang Qin, Gang Li, Qingxin Pu, Dong Liu
POCD0264	0541	A self-energy device for HVDC breakers and its control strategies	F Xu, Y Lu, X H Xuan, H H Yu, P Qiu, D Z Jiang
POCD0265	0542	The Large-scale Source-Grid-Load Friendly Interactive System Introduction and Real Load Shedding Verification Test Technology	Hucheng Li, Huawei Liu, Yubo Yuan, Qi Zhou
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POCD0268	0546	Research of Controlled Switching Strategy to Restrain Inrush Current during the Energization of Converter Transformer	Duo Wang, Zhiguo Hao, Zijia Hui, Ke Wang, Guocheng Ding
POCD0269	0547	Fault Section Identification Method for the UHV GIL-overhead Hybrid Line	B T Li, T F Gu, Z Q Li, B Li
POCD0270	0550	Coordination Control of Positive and Negative Sequence Voltages of Cascaded H-bridge STATCOM Operating Under Imbalanced Grid Voltage	Hao LIANG, Hanliang SONG, Liancheng XIU, Anling LIU, Bin ZHANG
POCD0271	0554	System Design for Nanjing HVDC Flexible Transmission Project	Fei Mei, Li Wang, Shengsen Zha, Jianyong Zheng
POCD0272	0557	Parameter Identification of Subsynchronous Resonance based on FastICA and MP Algorithm	Kuan Li, Wanjie Zhang, Hong Wang, Yudun Li, Meng Liu
POCD0274	0560	Control of Central Air Conditioning Loads to Respond the Fault on the HVDC Transmission Line	D Wang, G Zhang, Y Jing, M Liu, J Li, D Cheng
POCD0275	0563	Constrained Operation Zone of Virtual Synchronous Generator Considering the DC-side Power Margin	chang yuan, dan yang, jiayao feng, chang liu
POCD0276	0565	Research of Chaotic Characteristics of Low Voltage Air Arc	H Chen, P Li, X Leng, X Liu
POCD0277	0566	Optimization of Commutation Circuit Parameters for DC Vacuum Circuit Breaker	Hai Chen, Wei Liu, Deen Yu, Xiaoming Liu
POCD0278	0569	Modelling and Analysis on short-circuit failure for press-pack IGBT devices used in VSC-HVDC Converter	Li Hui, Yao Ran, Lai Wei, Kang Shengyang, Deng Jili, Long Haiyang, Zheng Meimei, Li Jinyuan, Li Yaobang
POCD0279	0570	Simulation Of the Magnetic Coupling Phenomena in Electric Vehicle Wireless Charging	Zhong ZHENG, Ruya SONG, Xiaohua HUANG, Jinxing XU, Chao GAO
POCD0280	0571	Study on the interaction influence of harmonics in MIDC transmission systems	ling wang, dong chen, yinglin xue, fangjie wu
POCD0281	0573	RESEARCH of CONTROL STRATEGIES of MMC BASED on FULL BRIDGE SUB MODULES	Jianpo zhang, Chuan Jiang, ChongChong Chen
POCD0282	0574	MODULAR MULTIVEL CONVERTER COMPOSITE SUBMODULE TOPOLOGY AND CONTROL	Jianpo zhang, Chang Jiang, Yanan Han
POCD0283	0575	Topological study on electrode wells of vertical grounding electrodes of UHVDC	W Chen, S D Li, Y Sun, H L Lu, X S Wen
POCD0284	0580	Influence of different time-series on load recovery following faults in the vessel regional distribution system	Qingsong Yan, Zhihao Ye, Feng Ji, Xueping Gao
POCD0285	0581	Fault Location for MMC-MTDC Transmission Lines based on Least Squares-Support Vector Regression	M Zhang, H Wang

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POCD0288	0584	Analysis and Control on Sub-synchronous Oscillation(SSO) of HVDC Transmission for Large Scale Permanent Magnet Synchronous Generators(PMSG)-	Zhang Xiaoyu, Liu Chao, Wang Zhibing
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POEF0298	0605	Research on a Novel STATCOM Based on Hybrid Cascaded Multilevel Converter and its Coordination Control Strategy	Yi Du, Pengfei Hu, Jungpeng Deng, Hongyang Lin, Meng Li
POEF0299	0609	An auto-reclosing scheme for DC circuit breaker in VSC-HVDC transmission system	Y Wang, Y H Wang, C Z Liu, L W Yang
POEF0300	0613	Influence of Nozzle Expansion Angle on the Breaking Performance of Ultra-high Voltage SF ₆ Circuit Breaker	Hao Zhang
POEF0301	0614	Research on Overvoltage and Minimum Air Clearance on 1000 kV AC Side of Converter Transformer in ±1100 kV Guquan Converter Station	L Ying, L Zhenqiang, X Liang, W Lei
POEF0302	0616	Research on Optimization of Minimum Air Clearance of 1000 kV UHV AC Substation	L Zhenqiang, X Liang, L Jing, H Huiwen
POEF0303	0620	ARC EXTINCTION OF DC SIDE LOW-VOLTAGE BREAKER OF CHARGING DEVICE FOR BATTERY PACK IN POWER PLANT BASED ON IGBT MODULE SERIES TECHNOLOGY	F Yao, W W Zhao, Z G Li, J Wang
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POEF0305	0625	Protection and Post-Fault Recovery of Large HVDC Networks Using Partitioning and Fast Acting DC Breakers at Strategic Locations	Md Habibur Rahman, Rui Li, Liangzhong Yao, Lie Xu
POEF0306	0626	Analysis on frequency and impulse characteristics of grounding grid	M M Su, Y H Lin, Z Z Li, S Wang
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POEF0309	0635	MULTI-SCALE AC-DC SYSTEM VOLTAGE SECURITY REGIONS	Ge Huiyang, Wang Bin, Sun Hongbin
POEF0310	0636	Optimal Reactive Power Control in a Converter Station During Low Power Operation of HVDC	J S Mo, W Yan, F Xiao, T Wang, H Wang, Y B Zhou
POEF0311	0637	A Comprehensive Fault Ride-through Scheme for Double-fed Induction Generator	Fan Cheng, Liangzhong Yao, Yan Li, Lijun Xie, Chunxia Wei
POEF0312	0639	Fault direction identification for wind power integration system	Yu Chen, Minghao Wen, Xianggen Yin, Xuanwei Qi, Junchao Zheng, Zhen Wang
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POEF0314	0643	Research on the Internal Modal Decoupling Control of VSC-MTDC	Shuai Song, Ling Sun

POEF0315	0644	Detection of weak monocycle sinusoidal signals with a low constant false alarm rate based on the support vector machine	B Tan, J B Guo, G Chang
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POEF0317	0646	An Examination on the Parameter Stability Region of the VSC Control System in VSC-HVDC Transmission Systems	Long Xu, Guoyun Su, Wenjuan Du, Chen Chen, Bixing Ren, Haifeng Wang
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POEF0322	0654	Analysis on Operation Situation and Main functions of Pumped-storage Power Plants in China Southern Power Grid	G Z Liu, F L Zheng, Y F Xia, L Kang, Z Y Zhang
POEF0323	0656	A SHORT SWITCH FAULT DIAGNOSIS METHOD FOR POWER CONVERTER USING A MODEL-BASED APPROACH IN SWITCHED RELUCTANCE MOTOR DRIVES	Wenhao Yang, Bin Gou, Yu Lei, Jun Wang
POEF0324	0657	Analysis and Design of Carbon Fiber Clamping Apparatus for Replacement of Insulator Strings in UHV Transmission Line	B Zhang, RZ Dai, WX Ma, HJ Wu, L Jiang, C Yan, YJ Zhang
POEF0325	0662	Reliability Modelling and Analysis on MMC for VSC-HVDC by considering the Press-pack IGBT and Capacitors Failure	H Li, M M Zheng, R Yao, J L Deng, W Lai, H Y Long, H T Qu
POEF0326	0663	Charge Transport and Accumulation around the Cone-Type Insulator in SF ₆ -Filled 550kV DC GIL	B Zhang, Y J Guo, Y Q Yao, Z J Wang, H Zhang, G Y Jin
POEF0327	0664	Multi-stage Coordination Optimization Control in Hybrid AC/DC Distribution Network with High Penetration Renewables based on SOP and VSC	Pengwei Cong, Wei Tang, Chengwei Lou, Bo Zhang, Xiaohui Zhang
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POEF0338	0680	Modeling of DFIG-Based Wind Turbines for Low Frequency Oscillation Analysis of Power Systems with High Penetration of Distributed Energy	Yunhui Huang, Weihao Chen, Xiangtian Deng, Jinrui Tang, Guorong Zhu, Haitao Zhang
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POEF0396	0814	Effect of CT Transient Characteristics on Transfer of Inrush	Y X Wang, Y L Pan, W Liu, X G Yin, Z C Wang, W B Cao
POEF0397	0818	DAB based PET in MVDC traction and shipboard applications with distribution and redundant control	You Wang, Zedong Zheng, Yongdong Li
POEF0398	0819	Analysis and research on the fault-tolerant performance of the high-frequency isolated energy conversion link for an integrated distribution transformer system	Qingshan Wang, Deliang Liang, Yibin Liu, Qixu Chen, Mingkang Zhang
POEF0399	0821	A Multi-objective Optimal Scheduling Strategy for Wind Power, PV and Pumped Storage Plant in VSC-HVDC Grid	M Xu, L Wu, H Liu, X Wang

POEF0400	0822	The Electromagnetic Effect Study of GIS Enclosure under High Frequency Electromagnetic Pulse	Shu CHEN, Jie GUO, Chengbo HU, Fengbo Tao, Tianxi Xie, Yang Xu, Jun Jia
POEF0401	0825	Simulation of Electric Field Distribution for $\pm 1100\text{kV}$ Smoothing Reactor	Tianyu Wei, Zhanqing Yu, Yunchao Wang, Chijie Zhuang, Rong Zeng, Yong Ju, Yuanqing Liu, Yuehua Zhang
POEF0402	0828	ENERGY STORAGE DEVICE LOCATING AND SIZING BASED ON POWER ELECTRONIC TRANSFORMER	Qi Geng, Yan Hu
POEF0403	0833	Faulty Feeder Detection Based on Mixed Atom Dictionary for Arc Suppression Coil to Ground System	Xiaowei Wang, Jie Gao, Zhuihui Zeng, Yanfang Wei, Xiangxiang Wei
POEF0404	0835	Power Oscillation Coordination Damping Control Strategy of DFIG for Fault Ride Through after Clearing the Fault	H Y TANG, Y N CHI, X S TIAN, Y LI
POEF0405	0836	Research of Stability Control Strategy at the Sending End of UHVDC After Block Fault	xia ZHOU, Ming NI, Xiqiang CHANG, Xinyu LIU, Jun GU, Yi TANG
POEF0406	0839	A DC Fault Ride-Through Method for Full-Bridge MMC Based MTDC Systems	Yongjie Luo, Yi Pu, Xiaofu Xiong, Wang Jiang, Yonghui Song
POEF0407	0843	Analysis of factors influencing the parameters of electromagnetic environment	ZQ Yu, XR Wang, R Zeng, Y Fu, M Li, L Liu
POEF0408	0844	Multi-level bus voltage compensation of droop control with enhanced load sharing capability for DC microgrid	Sucheng Liu, Zhongpeng Li, Wenjie Liu, Xiaodong Liu
POEF0409	0845	A coordinating harmonic suppression strategy of a DC microgrid	H L Xu, Y P Feng, J W Xu, Y F Zhang, S N Wang
POEF0410	0846	The Design and Application of the Condition Monitoring for Power Transmission and Transformation Equipment Based on the Smart Grid Dispatching Control System	ZHOU Guiping, LUO Huanhuan, GE Weichun, MA Yiling, QIU Shi, FU Lina
POEF0411	0847	Study on the Application of Micro-grid Control System in Smart Park	Zhang Zhaoyun, Zhao Wenjun, Yang Mei, Kang Li, Zhang Zhi, Zhao Yang, Liu Guozhong, Yao Na
POEF0412	1001	Long-term statistics of corona loss of HVDC transmission line	Zhanqing Yu, Xiaorui Wang, Rong Zeng, Lei Liu, Min Li
POEF0413	1003	RESEARCH ON TOPOLOGICAL STRUCTURE AND SIMULATION OF HYBRID DC CIRCUIT BREAKER	CHU Zhuang, XU Bing, YU Zhanqing, WANG Nianhua
POEF0414	1006	Electric Environmental Test of HVDC 500kV Double Bi-Pole Overhead Transmission Line with Return Overhead Conductor Line	K.Y. Shin*, G.M.KWON*, Y.H. Kim*, D.I. Lee**
POEF0415	1007	Study on the Operating Characteristics of a Compound Automatic Transfer Switch based on Forced Current Commutation	QU Lu1, YU Zhanqing1, WEI Tianyu1, CHEN Zhengyu1, LIU Bin2, ZENG Rong1*
POEF0416	1008	The Lightning Overvoltage Waveforms Measured By Integrated Electro-optic Sensor	She Wang, Gang Liu, Chijie Zhuang, Yong Ouyang, Yinan Geng, Haisheng Cai, Rong Zeng
POEF0417	1011	Design and Test of a Magnetic Saturation-type Fault Current Limiter	Lu Qu1*, Rong Zeng1, Zhanqing Yu1, Ge Li
POEF0418	1012	ELECTROMAGNETIC TRANSIENT ANALYZING OF NEUTRAL BUS IN UHVDC	Yunchao Wang1, Zhanqing Yu1*, Ya Mou1, Fan Liu2, Shijun Xie1, Chen Shuiming 1, Rong Zeng1*, Jinqiang He
POEF0419	1014	Analysis of the Effect of Explosion Grounding Electrode on Grounding Resistance Reduction	Yongli Wang, Sen Wang, Jian Zhang, Zhizhong Li, Li Xu
POEF0420	1017	CALIBRATION OF SENSOR FOR ION ELECTRIC FIELD UNDER HVDC TRANSMISSION LINES	Mou Ya1, Zhanqing Yu1*, Yazhou Fan2, Bo Zhang1, Chao Zhang2, Xiaorui Wang1, Rong Zeng1*, Jinqiang He1
POEF0421	1018	A NOVAL HYBRID CONTROL METHOD FOR APF BASED ON PI AND FRC	NING Xie, QI Xu, JIE Zeng, XIN Liu, WEI Zhang, CHI zhang

POEF0422	1019	Improved droop control strategy of energy storage converter under grid side power fluctuation	Chi Zhang, Jie Zeng ,Yifan Hu ,Jinling Meng,Wei Zhang, Xingyu Pei, Zongbao Guo
POEF0423	1020	Research on Islanding Partition Algorithm for the Multi-Microgrids	Jie Zeng , Jiajun Peng, Chi Zhang, Wei Zhang, Shaoxiong Zhou
POEF0424	1021	Development of On-line Monitor for Substation 10 kV MOA	Xinming Song 1, Yunfeng Xia1 , Jianzong He1, Zhidong Jia2, Xilin Wang2
POEF0425	1022	Resarch on Antenna for Detecting the Corona Discharge of Transmission Line	Yunfeng Xia, Xinming Song, Zhidong Jia, Xilin Wang, Jinfeng Qi, Zheng Xu
POEF0426	1023	Simulation and partial discharge detection for typical defects of 10kV cable the joint	Yunfeng Xia1 , Xinming Song 1, Jianzong He1, Zhidong Jia2, Xilin Wang2
POEF0427	1024	PREDICTION AND ANALYSIS OF ENERGY DEMAND OF HIGH ENERGY DENSITY AC/DC PARK BASED ON SPATIAL STATIC LOAD FORECASTING METHOD	Xiang Xiao, Wenjing Xie, Yongyan Zhou, Wei Zhao, Xin Liu, Chi Zhang
POEF0428	1025	RESEARCHES ON GROUNDING MODES OF THE AC/DC HYBRID SYSTEM WITH VARIOUS DISTRIBUTED RENEWABLE ENERGY	Qi Xu, Jianzong He, Songbo Huang, Jie Zeng, Chunju Fan, Wei Wang
POEF0429	1026	Reliability Calculation of AC/DC Hybrid Distribution Network with Solid State Transformer	Xinxing Xu, Nengling Tai, Yan Hu, Wei Wang, Fenglei Zheng, Wenzhi He
POEF0430	1027	Frequency domain based complete loss model for 10kV1MW solid state transformer	Tao Liu, Xiang Hao, Weizeng Liu, Zhi Li, Xiangen Yu, Jie Zeng, Jianzong He
POEF0431	1028	Research on AC & DC Hybrid Power Supply System with High Proportion Renewable Eenergy of Data Center	Wenzhi HE, Feng XUE, Fenglei ZHENG, Yongyan ZHOU, Kun LIU, Yipan TIAN
POEF0432	1029	New AC & DC Hybrid Power Supply System and Its Reliability Analysis in Data Center	Jianzong HE, Xiang XIAO, Rongfu ZHONG,Weixiong HUANG, Donghui LI, Qingqi CHEN
POEF0433	1032	Comprehensive comparison and analysis of non-inverting buck boost and conventional buck boost converters	Xing Weng, Xiang Xiao, Weibin He, Yongyan Zhou, Yu Shen, Wei Zhao, Zhengming Zhao
POEF0434	1033	Temperature Rise Test and Analysis of High Current Switchgear in Distribution System	Haotian Xia, Yonggang Guan, Zhanqing Yu, Suxiong Cai, Xiaorui Wang, Zhaowei Peng, Shisen Gao, Zerong Huang
POEF0435	1034	FEASIBLE PROTECTION STRATEGY FOR HVDC SYSTEM BY MEANS OF SFCL AND PASSIVE RESONANCE DC BREAKER	Ho-Yun Lee, Mansoor Asif, Kyu-Hoon Park, Bang-Wook Lee
POEF0436	1035	PARAMETER IDENTIFICATION OF DC BLACK-BOX ARC MODEL USING NONLINEAR LEAST SQUARES	Kyu-Hoon Park, Ho-Yun Lee, Mansoor Asif, Bang-Wook Lee
POEF0437	1036	Transient Characteristics Analysis of the Line Fault on DC Side of the DC Distribution System	Chi Zhang, Jie Zeng ,Wei Zhang,Wei Zhao, Qi Xu,Ning Xie,Xingyu Pei, Zongbao Guo, Dawei Yao, Lu Qu
POEF0438	1037	Effect of Temperature on Flow Electrification Under DC electrical Field	Yuan Gao, Feng Li, Wu Lu, Wenbin Zhao