

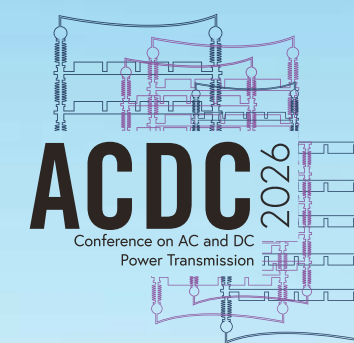
The 24th IET International Conference on
AC and DC Power Transmission
第二十四届IET交直流输电国际会议（ACDC 2026）



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The 24th IET International Conference on
AC and DC Power Transmission
第二十四届IET交直流输电国际会议（ACDC 2026）

PROGRAM

10-13 July, 2026 | Sunrise Kempinski Hotel Beijing, China
2026年7月10-13日 | 中国·北京日出东方凯宾斯基大酒店

CONTENTS

第一章 Introduction 会议简介	01
第二章 Conference Organization 会议组织	
1.Organizing Unit 组织单位	02
2.Conference Chairman 大会主席	04
3.Advisory Committee Chairs 顾问委员会主席	06
4.Technical Programme Committee（TPC）技术委员会	07
5.Organizing Committees 组织委员会	11
第三章 Conference Information 会议信息	
1.Agenda Overview 日程概览	12
2.Venue Layout 会场布局	14
3.Live Stream Link 直播链接	18
4.Useful Information 会务信息	18
第四章 Program 会议日程	20
1.Keynote speakers 主旨报告嘉宾	27
2.Invited Forums 专题研讨	31
3.Oral Presentation &Invited Sessions 论文口头报告&邀请报告	45
4.Poster Presentation 海报张贴	61
5.Technical Visit 技术参观	73
第五章 Sponsor Information 企业信息	

Introduction 会议简介

IET交直流输电国际会议 (ACDC) 作为电力系统领域久负盛名的国际性输电会议, 已成功举办了二十三届。历届ACDC会议多在欧洲举办, 获得了专业技术人员、研究机构学者、高校研究人员及业界专家的普遍认可与广泛关注。

随着中国近年来电力研究的发展特别是多个大型特高压输电项目的完成, 中国在输电技术领域的成就举世瞩目。自2016年来, IET中国联合清华大学首次将ACDC会议引入中国, 得到了国内能源电力领域广大学者及相关企业的热烈响应, 在多次成功经验的基础上, IET将再次联手清华大学、怀柔实验室共同举办第二十四届交直流输电国际会议ACDC 2026, 会议于2026年7月10-13日在中国北京举行。

The IET International Conference on AC and DC Power Transmission (ACDC), a prestigious international transmission conference in the power system field, has been successfully held for 23 sessions. Previous ACDC conferences were mostly hosted in Europe, gaining widespread recognition and attention from professional technicians, scholars of research institutions, university researchers and industry experts.

With the development of China's power research in recent years, especially the completion of multiple large-scale UHV transmission projects, China's achievements in the field of power transmission technology have attracted worldwide attention. Since 2016, IET China, in collaboration with Tsinghua University, has first introduced the ACDC Conference to China, which received enthusiastic responses from a vast number of scholars and relevant enterprises in the domestic energy and power sector. Building on many successful experiences, IET will once again co-host the 24th International Conference on AC and DC Power Transmission (ACDC 2026) with Tsinghua University and Huairou Laboratory. The conference is scheduled to be held in Beijing, China, from July 10 to 13, 2026.

Conference Organization 会议组织

Organizing Unit 组织单位

一、主办单位 Hosted by

英国工程技术学会（IET） The Institution of Engineering and Technology (IET)
清华大学 Tsinghua University
怀柔实验室 Huairou Laboratory

二、承办单位 Organized by

IET 工程技术咨询（北京）有限公司
IET Engineering Technology Consulting (Beijing) Co., Ltd.

清华大学电机工程与应用电子技术系
Department of Electrical Engineering and Applied Electronic Technology, Tsinghua University

怀柔实验室新型电力系统研究中心
Next Generation Power System Research Center, Huairou Laboratory

内蒙古电力（集团）有限责任公司
Inner Mongolia Power (Group) Co., Ltd.

泰开集团有限公司
Taikai Group Co., Ltd

思源电气股份有限公司
Sieyuan Electric Co., Ltd.

新型电力系统运行与控制全国重点实验室
State Key Laboratory of Operation and Control of New Power Systems

清华大学能源互联网创新研究院
Energy Internet Innovation Research Institute, Tsinghua University

清华四川能源互联网研究院
Sichuan Energy Internet Research Institute, Tsinghua University

南方电网新型电力系统（北京）研究院
China Southern Power Grid New Power System (Beijing) Research Institute

中国电机工程学会高电压专业委员会
High Voltage Professional Committee, China Society for Electrical Engineering

三、协办单位 Co-organized by

北京四方继保自动化股份有限公司
Beijing Sifang Automation Co., Ltd.

西安派瑞功率半导体变流技术股份有限公司
Xi'an PERI Power Semiconductor Converter Technology Co., Ltd.

北京成晔电子有限公司
Beijing Chengye Electronics Co., Ltd.

赛晶科技集团有限公司
Sun.King Technology Group Co., Ltd.

来恩伟业（鹤壁）电子科技有限公司
Lion Great Exploit (Hebi) Electronic Technology

四、支持单位 Supported by

北京电力设备总厂有限公司
Beijing Power Equipment Group Co., Ltd.

特变电工西安柔性输配电有限公司
TBEA Xi'an Flexible Power Distribution Co., Ltd.

荣信汇科电气股份有限公司
Rongxin Huiko Electric Co., Ltd.

正泰电气股份有限公司
Chint Electric Co., Ltd.

新华都特种电气股份有限公司
Newonder Special Electric Co.,Ltd.

国电南京自动化股份有限公司
Guodian Nanjing Automation Co., Ltd.

深圳青铜剑技术有限公司
Shenzhen Bronze Sword Technology Co., Ltd.

江阴市赛英电子股份有限公司
Jiangyin Saiying Electronics Co., Ltd.

南京瑞为新材料科技有限公司
Nanjing Realway new material technology Co., Ltd

宁波碧彩实业有限公司
Ningbo Bicai Industrial Co., Ltd.

毫厘机电（苏州）有限公司
Haoli (Suzhou) Thermal Technologies Co., Ltd.

上海麟荣电子技术有限公司
Shanghai Linrong Electronic Technology Co., Ltd.

北京龙腾蓝天科技有限公司
LonTen Technology (BeiJing) Co., Ltd.

株洲时代热磁科技有限公司
Zhuzhou Times Thermal-magnetic Technology Co., Ltd.

Conference Chairman 大会主席



Guangfu TANG 汤广福

Director of Huairou Laboratory, Academician of Chinese Academy of Engineering

怀柔实验室主任、中国工程院院士

Guangfu TANG is an academician of the Chinese Academy of Engineering and the director of Huairou Laboratory. He has long been engaged in researching power electronics technology in power system, and has successively completed the development of high-end power equipment including static var compensators, controllable series compensation thyristor valves, $\pm 800\text{kV}$ LCC-HVDC converters, VSC-HVDC converters, and HVDC circuit breakers. He has successively implemented major projects with parameters at the forefront of the world, providing new means for realizing flexible and controllable power grid, long-distance large-capacity power transmission, and efficient integration of renewable energy. He has won 2 second prizes in the National Technological Invention Award, 1 first prize and 1 second prize in the National Science and Technology Progress Award, and 5 first prizes of the Provincial and Ministerial Science and Technology Awards. He has been granted 77 invention patents, including 1 China Patent Gold Award and 3 Excellence Awards. He has published 4 books and 137 academic papers. He is also the recipient of the 9th China Engineering Science and Technology Guanghua Youth Award.



Bob Cryan CBE CEng FIET

The Emeritus President of The IET

英国工程技术学会 (IET) 名誉主席

Bob Cryan is the Emeritus President of The Institution of Engineering and Technology (The IET). He is President and Vice-Chancellor of the University of Huddersfield, an institution of 22,000 students from 120 countries and the recipient of the Queen's Anniversary Prize and the Times Higher Education University of the Year Award.

He holds six degrees including two first-class honours (engineering, mathematics), an MBA and two doctorates. He is the recipient of the inaugural Guardian Inspiring University Leader of the Year Award and the Daily Telegraph Educate North Leadership Award. Bob was awarded a CBE in the Queen's 2014 Birthday honours for services to higher education and later that year invited to become a Companion of the Chartered Management Institute.

Bob is a Chartered Engineer, a Fellow of the Royal Academy of Engineering and a Fellow of the Institution of Engineering and Technology. His subject area is Telecommunications and he has co-authored over 200 journal and conference publications. In addition to engineering, Bob is interested in leadership and entrepreneurship and sits on the Board of the Chartered Management Institute, the Peter Jones Foundation and iDEA, an initiative that aims to engage one million young people in digital enterprise.

Advisory Committee Chairs 顾问委员会主席



Licheng LI
李立涅

Director of the Expert Committee of China Southern Power Grid,
Academician of Chinese Academy of Engineering
中国南方电网公司专家委员会主任委员、中国工程院院士



Hong RAO
饶宏

Chief Technical Expert of China Southern Power Grid,
Academician of Chinese Academy of Engineering
中国南方电网公司首席技术专家、中国工程院院士



Frede Blaabjerg

Professor at Aalborg University, Denmark,
and Member of the Royal Danish Academy of Sciences and Letters
丹麦奥尔堡大学教授，丹麦皇家科学与文学院士，IEEE会士



Jinliang HE
何金良

Professor at Tsinghua University,
IET Fellow, IEEE Fellow, CIGRE Fellow
清华大学教授，IET 会士，IEEE 会士，CIGRE 会士

Technical Programme Committee (TPC) 技术委员会

TPC Chairs 技术委员会主席



Rong ZENG
曾嵘

Professor , Executive Vice President of Tsinghua University
清华大学常务副校长、教授



Dushan Boroyevich

University Distinguished Professor , Virginia Tech
Member of the National Academy of Engineering,
IEEE Life Fellow
弗吉尼亚理工大学杰出教授，美国国家工程院院士，IEEE终身会士

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(in alphabetical order)

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Drazen Dujic	École Polytechnique Fédérale de Lausanne (EPFL)
Lee Banguk	Hanyang University
Marcio Szechtman	CIGRE
Nirmal Nair	University of Auckland
Richard ZHANG	Virginia Tech University (VT)

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(in alphabetical order)		
Biao ZHAO	(赵彪)	Tsinghua University/Huairou Laboratory
Bin CUI	(崔彬)	Tsinghua University
Binbin LI	(李彬彬)	Harbin Institute of Technology
Bo ZHANG	(张波)	Tsinghua University
Caiping ZHANG	(张彩萍)	Beijing Jiaotong University
Chaohai ZHANG	(张潮海)	Nanjing University of Aeronautics and Astronautics
Chijie ZHUANG	(庄池杰)	Tsinghua University/Huairou Laboratory
Chong GAO	(高冲)	China Electric Power Research Institute
Chongqing KANG	(康重庆)	Tsinghua University
Duanjiao LI	(李端姣)	Guangdong Power Grid Co.,Ltd
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Guo XU	(许国)	Central South University
Huanhai XIN	(辛焕海)	Zhejiang University
Hui LI	(李辉)	Chongqing University
Jia XIE	(谢佳)	Huazhong University of Science and Technology
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Jinliang HE	(何金良)	Tsinghua University
Jinpeng WU	(吴锦鹏)	Tsinghua University/Huairou Laboratory

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Kai WANG	(王凯)	Institute of Electrical Engineering, Chinese academy of sciences
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Lu QU	(屈鲁)	Tsinghua University/Huairou Laboratory
Makan CHEN		Hitachi Energy
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Qing WANG	(王庆)	State Grid Corporation of China
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Wuhua LI	(李武华)	Zhejiang University

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Xiaoming ZHA	(查晓明)	Wuhan University
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Yang JIN	(金阳)	Zhengzhou University
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Yi WU	(吴翊)	Xi'an Jiaotong University
Ying HUANG	(黄莹)	Zhejiang University
Yongjian LI	(李永建)	Hebei University of Technology
Yunhui MEI	(梅云辉)	Tianjin Polytechnic University
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Zhao YUAN	(袁召)	Huazhong University of Science and Technology
Zhichang YUAN	(袁志昌)	Tsinghua University/Huairou Laboratory
Zhonglei LI	(李忠磊)	Tianjin University
Zongxiang LU	(鲁宗相)	Sichuan Energy Internet Research Institute, Tsinghua University

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Organizing Committee Chairs 组织委员会主席	
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Paulo Lopes	IET China
Xiaoguang WEI	(魏晓光) Next Generation Power System Research Center , Huairou Laboratory
Lixin WANG	(王立新) Inner Mongolia Power (Group) Corporation Limited
Bo LIU	(刘博) Shandong Taikai High Voltage Switchgear Co., Ltd.
Xiujuan ZHANG	(张秀娟) Sieyuan Electric Co.,Ltd.
Yunpeng LU	(卢云鹏) Research Support Department, Huairou Laboratory
Treasurer 财务	
Tingting LIU	(刘婷婷) IET China
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Conference Secretary 会议秘书	
Xuejiao HAN	(韩雪姣) Huairou Laboratory
Chendi MA	(马晨笛) IET China
Junting DU	(杜君亭) Tsinghua University
Qihuan HUANG	(黄琦欢) Tsinghua University

Conference Information 会议信息

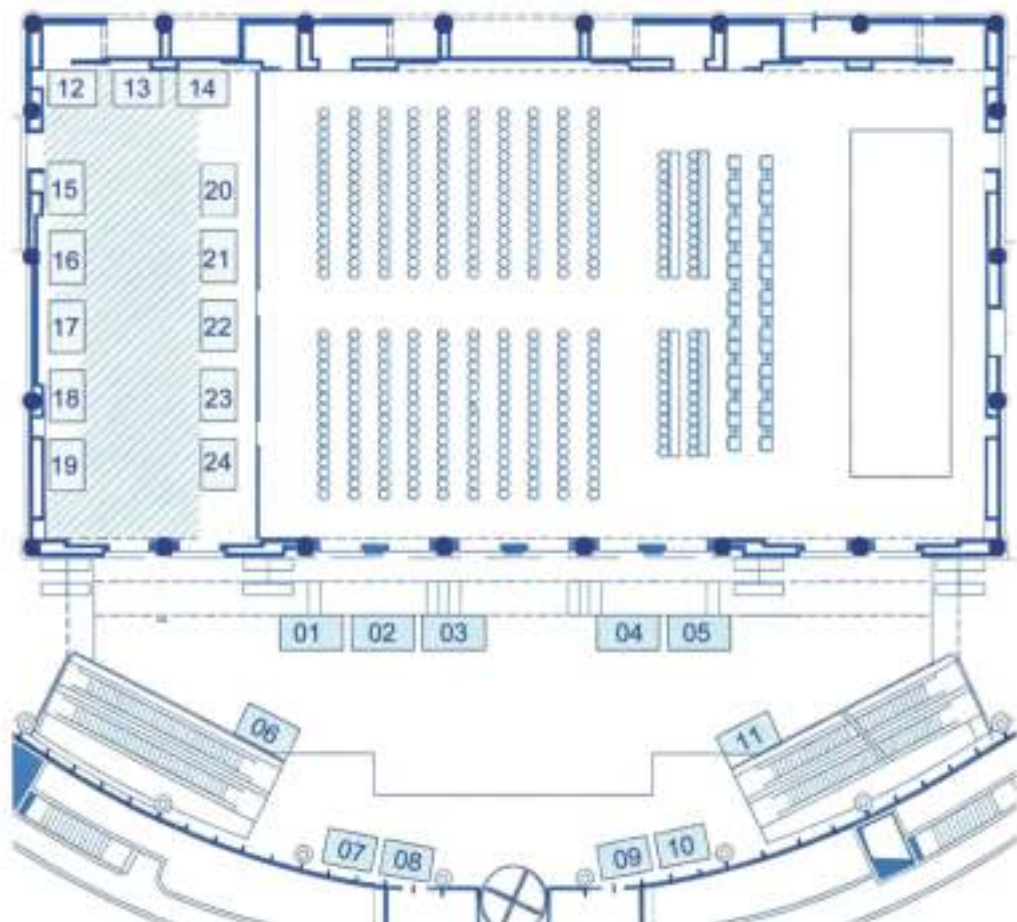
Agenda Overview 日程概览

7月10日，周五 Friday, 10th July			
时间 Time	内容 Sessions		地点 Location
14:00-22:00	注册签到 Registration		Hotel entrance on Ground floor
7月11日，周六 Saturday,11th July			
08:00-08:50	注册签到 Registration		Grand Ballroom on Ground floor
09:00-09:40	开幕致辞 Welcome Speeches		Grand Ballroom on the Ground Floor
09:40-12:00	主旨报告 Plenary Keynotes		Grand Ballroom on the Ground Floor
ALL DAY	海报展示 Poster Display		B1 Foyer
14:00-15:00	圆桌论坛 Panel Discussion		Grand Ballroom on the Ground Floor
15:00-15:40	主旨报告 Plenary Keynotes		Grand Ballroom on the Ground Floor
16:00-18:00	专题研讨 Forums	Forum 1: Novel Power Electronic Equipment	B1 Room V(5)+VI(6)
		Forum 2: Power-Electronized New Power Systems	B1 Room VIII(8)
		Forum 3: VSC-HVDC Grid-Forming Technology	B1 RoomIX(9)
		Forum 4: High Voltage & Insulation Technology	B1 Room X (10)
		Forum 5: New Energy Storage Technologies	B1 Room IV (4)
		Forum 6: New Electrical Engineering Technologies	B1 RoomVII(7)
16:00-18:00	2026 IET会士与行业论坛 IET 2026 Fellow & Industry Forum		B1 RoomIII (3)
18:30-20:30	颁奖晚宴Gala Dinner & Award Ceremony		Grand Ballroom on the Ground Floor

7月12日，周日 Sunday, 12th July			
时间 Time		内容 Sessions	地点 Location
08:00-08:50		注册签到 Registration	Grand Ballroom on Ground floor
09:00-12:00	专题研讨 Forums	Forum 7: Economical DC Breaking Technology & 5th National DC Circuit Breaker Seminar	Grand Ballroom North 一层北宴会厅
		Forum 8: Solid State Transformer Technology	Grand Ballroom Centre 一层中宴会厅
		Forum 9: Power Semiconductor Devices & 4th International IGCT Technology & Application Seminar	B1 RoomVIII(8)
		Forum 10: Multi-Conversion Technologies for Renewable Energy	B1 RoomIX(9)
		Forum 11: Flexible Technology Empowering AC-DC Systems – Women in Power Engineering	B1 Room X (10)
ALL DAY		Poster Display	B1 Foyer
14:00-18:00	论文口头报告 & 邀请报告 General Session & Invited Session	General Session 1.1 AC Technology	B1 Room II (2)
		General Session 1.2 AC Technology	B1 Room II (2)
		General Session 2.1 DC Technology	B1 RoomIV(4)
		General Session 2.2 DC Technology	B1 RoomIV(4)
		General Session 3.1 New Technology	B1 Room V (5)
		General Session 3.2 New Technology	B1 Room V (5)
		Invited Session 01： Modeling, Control, Stability Analysis and Application of New Energy and HVDC systems	B1 RoomVI(6)
		General Session 2.3 DC Technology	RoomVII (7)
		Invited Session 02: Emerging and Selected Topics in DC Technologies for New Type Power Systems	B1 RoomVII (7)
		Invited Session 04： Simulation tool development technique and application for large AC-DC interconnected power systems/actual projects	B1 RoomVIII(8)
		Invited Session 03: Key Technologies and Development of Novel Equipment for the Transmission of Far-Offshore Wind Power Clusters	B1 RoomVIII(8)
		Invited Session 05: Energy Digitalization and Information Processing Mechanism for Battery Management in Dynamic Reconfigurable Battery Network	B1 RoomIX(9)
		Invited Session 09: From Point-to-Point VSC-DC to Intelligent DC Grids: Evolution and Future Architecture	B1 RoomIX(9)
Invited Session 07: Key technologies and applications for reliability enhancement of power transmission lines and equipment	B1 Room X (10)		
7月13日，周一 Monday, 13th July			
09:00-11:30	技术参观 Technical Visit	Huairou Science City Innovation Exhibition Hall High Energy Photon Source	

Venue Layout 会场布局

Saturday, 11th July 09:00-16:00



Venue Layout (First Floor) & Exhibition Map 一层主会场布局图及展位分布图

- 01- 思源电气股份有限公司
Sieyuan Electric Co., Ltd.

02- 内蒙古电力（集团）有限责任公司
Inner Mongolia Power (Group) Co., Ltd.

03- 清华大学电机工程与应用电子技术系
Department of Electrical Engineering and Applied Electronic Technology, Tsinghua University

04- IET 工程技术咨询（北京）有限公司
IET Engineering Technology Consulting (Beijing) Co., Ltd.

05- 泰开集团有限公司
Taikai Group Co., Ltd

06- 北京成晔电子有限公司
Beijing Chengye Electronics Co., Ltd.

07- 来恩伟业（鹤壁）电子科技有限公司
Lion Great Exploit (Hebi) Electronic Technology

08- 北京四方继保自动化股份有限公司
Beijing Sifang Automation Co., Ltd.

09- 西安派瑞功率半导体变流技术股份有限公司
Xi'an PERI Power Semiconductor Converter Technology Co., Ltd.

10- 媒体/行业期刊

11- 赛晶科技集团有限公司
Sun.King Technology Group Co., Ltd.

12- 北京龙腾蓝天科技有限公司
LonTen Technology (BeiJing) Co., Ltd.
- 13- 上海麟荣电子技术有限公司
Shanghai Linrong Electronic Technology Co., Ltd.

14- 南京瑞为新材料科技有限公司
Nanjing Realway new material technology Co., Ltd

15- 宁波碧彩实业有限公司
Ningbo Bicai Industrial Co., Ltd.

16- 荣信汇科电气股份有限公司
Rongxin Huiko Electric Co., Ltd.

17- 北京电力设备总厂有限公司
Beijing Power Equipment Group Co., Ltd.

18- 深圳青铜剑技术有限公司
Shenzhen Bronze Sword Technology Co., Ltd.

19- 江阴市赛英电子股份有限公司
Jiangyin Saiying Electronics Co., Ltd.

20- 毫厘机电（苏州）有限公司
Haoli (Suzhou) Thermal Technologies Co., Ltd.

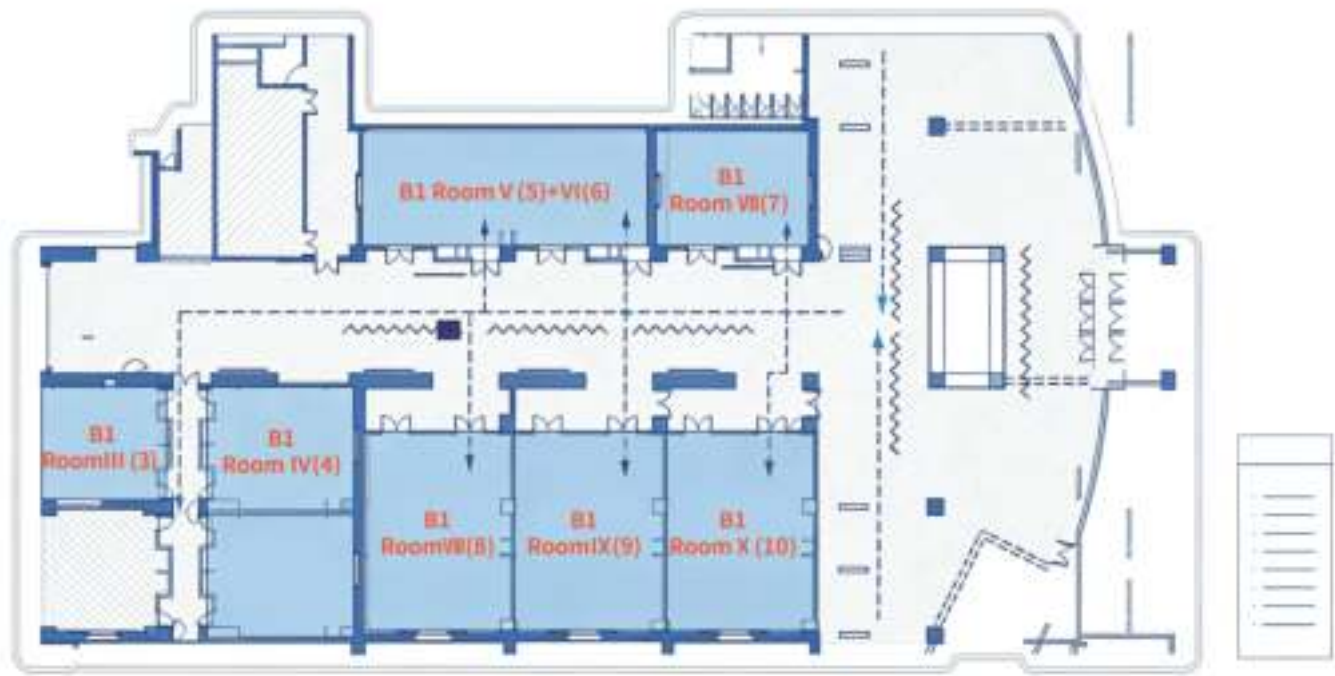
21- 正泰电气股份有限公司
Chint Electric Co., Ltd.

22- 特变电工西安柔性输配电有限公司
TBEA Xi'an Flexible Power Distribution Co., Ltd.

23- 新华都特种电气股份有限公司
Newonder Special Electric Co.,Ltd.

24- 株洲时代热磁科技有限公司
Zhuzhou Times Thermal-magnetic Technology Co., Ltd.

Saturday, 11th July 16:00-18:00

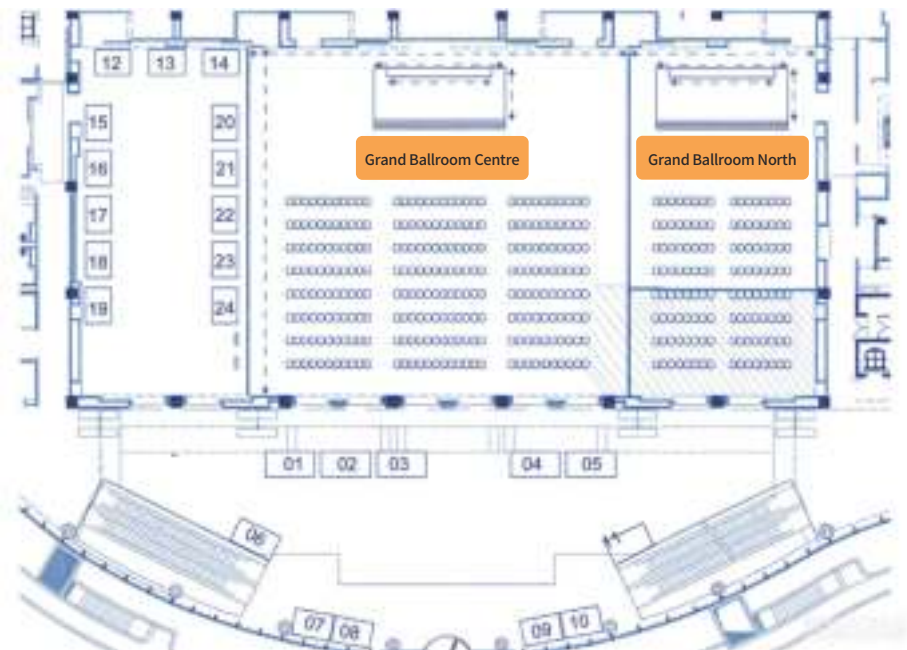


Venue Layout (B1 Floor) & Poster Display Layout 负一层分会场布局图及海报展示分布图

B1 Room V(5)+VI(6)	Forum 1: Novel Power Electronic Equipment
B1 Room VIII(8)	Forum 2: Power-Electronized New Power Systems
B1 Room IX(9)	Forum 3: VSC-HVDC Grid-Forming Technology
B1 Room X(10)	Forum 4: High Voltage & Insulation Technology
B1 Room IV(4)	Forum 5: New Energy Storage Technologies
B1 Room VII(7)	Forum 6: New Electrical Engineering Technologies
B1 Room III(3)	2026 IET会士与行业论坛 IET 2026 Fellow & Industry Forum
B1 Foyer	Poster Display

Venue Layout 会场布局

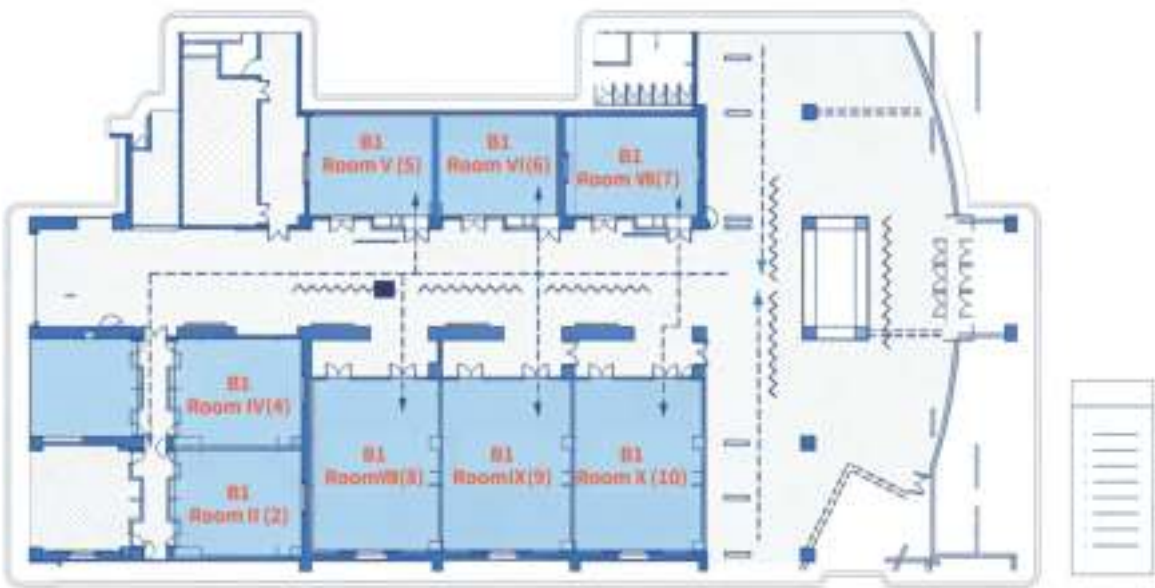
Sunday, 12th July 09:00-12:00



Venue Layout (First Floor & B1 Floor) 分会场布局图

Entrance at the Grand Ballroom	Registration
Grand Ballroom North	Forum 7: Economical DC Breaking Technology & 5th National DC Circuit Breaker Seminar
Grand Ballroom Centre	Forum 8: Solid State Transformer Technology
B1 RoomVIII(8)	Forum 9: Power Semiconductor Devices & 4th International IGCT Technology & Application Seminar
B1 RoomIX(9)	Forum 10: Multi-Conversion Technologies for Renewable Energy
B1 Room X (10)	Forum 11: Flexible Technology Empowering AC-DC Systems – Women in Power Engineering
B1 Foyer	Poster Display

Sunday, 12th July 14:00-18:00



Venue Layout (B1 Floor) & Poster Display Layout 负一层分会场布局图及海报展示分布图

B1 Room II (2)	General Session 1.1 AC Technology
B1 Room II (2)	General Session 1.2 AC Technology
B1 RoomIV(4)	General Session 2.1 DC Technology
B1 RoomIV(4)	General Session 2.2 DC Technology
B1 Room V (5)	General Session 3.1 New Technology
B1 Room V (5)	General Session 3.2 New Technology
B1 RoomVI(6)	Invited Session 01: Modeling, Control, Stability Analysis and Application of New Energy and HVDC systems
RoomVII (7)	General Session 2.3 DC Technology
B1 RoomVII (7)	Invited Session 02: Emerging and Selected Topics in DC Technologies for New Type Power Systems
B1 RoomVIII(8)	Invited Session 04: Simulation tool development technique and application for large AC-DC interconnected power systems/actual projects
B1 RoomVIII(8)	Invited Session 03: Key Technologies and Development of Novel Equipment for the Transmission of Far-Offshore Wind Power Clusters
B1 RoomIX(9)	Invited Session 05: Energy Digitalization and Information Processing Mechanism for Battery Management in Dynamic Reconfigurable Battery Network
B1 RoomIX(9)	Invited Session 09: From Point-to-Point VSC-DC to Intelligent DC Grids: Evolution and Future Architecture
B1 Room X (10)	Invited Session 07: Key technologies and applications for reliability enhancement of power transmission lines and equipment
B1 Foyer	Poster Display

Live Stream Link 直播链接

Official Live Stream – Main Venue



IET直播入口



清华直播入口



北极星电力网直播入口

Full Event Livestream (All Sessions Included)



寇享学术平台直播入口

Useful Information 会务信息

Registration Desk Opening Time 会议注册

日期 Dates	时间 Time	地点 Location
Friday, 10 July 2026	14:00 — 22:00	Hotel entrance on Ground floor 酒店一层入口处
Saturday, 11 July 2026	08:00 — 08:50	Grand Ballroom on Ground floor 会场一层大宴会厅门口
Sunday, 12 July 2026	08:00 — 08:50	Grand Ballroom on Ground floor 会场一层大宴会厅门口

Catering information 就餐信息

日期 Dates	内容 Sessions	地点 Location
Friday, 10 July 2026 18:00 — 20:00	Dinner	Elements (2 nd Floor) 二层新元素自助餐厅
Saturday, 11 July 2026 12:00 — 14:00	Lunch	Notice the location specified on the meal coupon 根据餐票指示地点就餐
Saturday, 11 July 2026 18:30 — 20:30	ACDC Gala Dinner (Award Ceremony)	Grand Ballroom 大宴会厅
Sunday, 12 July 2026 12:00 — 14:00	Lunch	Elements (2 nd Floor) 二层新元素自助餐厅
Sunday, 12 July 2026 18:00 — 20:00	Dinner	Elements (2 nd Floor) 二层新元素自助餐厅

Refreshments 茶歇

10:40 - 11:00 & 15:40 — 16:00 on 11 th July 2026	Foyer on 1 st Floor and B1 Foyer 一层及负一层中庭
10:25 - 10:40 & 15:30 — 15:45 on 12 th July 2026	

Conference Transportation Information 会议期间交通安排



摆渡车信息

Emergency Contact 紧急联络人

会议负责人:	韩雪姣 / 刘婷婷: 13811188645
餐饮负责人:	张媛媛: 17600158287
住宿负责人:	曹婷婷: 15108425676
签到负责人:	曹婷婷: 15108425676
车辆负责人:	王丹红: 15010248726
现场负责人:	宫浩博: 18510038205
紧急医疗:	刘艳丽: 13522653638

ACDC 2026 Program 会议日程

Date: Friday, 10 July 2026

Venue: Hotel Entrance on the Ground Floor
酒店一层入口

14:00 –22:00 **Registration** 注册报到

Date: Saturday, 11 July 2026

Venue: Grand Ballroom on the Ground Floor
一层大宴会厅

08:00 -08:50 **Registration** 注册报到

Welcome Speech (ALL DELEGATES) **开幕式（全体参会者）**

Session Host: Zhanqing YU, ACDC 2026 Organizing Committee Chair,
Professor of Tsinghua University/ Huairou Laboratory
主持人: 余占清, 清华大学/怀柔实验室教授, ACDC 2026组委会主席

09:00–09:05 **Session host’s opening speech and welcome guests**
组委会主席介绍来宾

09:05–09:15 **Welcome speech by ACDC 2026 Conference Chair,
IET Emeritus President Bob Cryan CBE CEng FIET**
大会主席、英国工程技术学会(IET) 名誉主席Bob Cryan致辞

09:15–09:25 **Welcome speech by Huairou Laboratory**
联合主办单位怀柔实验室领导致辞

09:25–09:35 **Welcome speech by Tsinghua University**
联合主办单位清华大学领导致辞

09:35–09:40 **Welcome speech by Inner Mongolia Power (Group) Co., Ltd**
承办单位内蒙古电力（集团）有限责任公司领导致辞

Plenary Session (ALL DELEGATES) **大会主旨报告（全体参会者）**

Session Host: Prof.Zhanqing YU/ Prof.Dushan Boroyevich
主持人: 余占清教授/Dushan Boroyevich 教授

09:40 –10:00 **Reliability Engineering of Power Electronics Dominated Power System**
电力电子化电力系统可靠性技术

**Frede Blaabjerg, Professor of Aalborg University,
Member of the Royal Danish Academy of Sciences and Letters, IEEE Fellow**
Frede Blaabjerg, 丹麦奥尔堡大学教授, 丹麦皇家科学与文学学院院士, IEEE会士

10:00 –10:20 **Cost-Effective HVDC Current Interruption Technologies and Equipment**
经济型高压直流开断技术及装备

**Mingzhe RONG, Professor, Chief Scientist of the State Key Laboratory of Electrical In-
sulation and Power Equipment, Vice Chair of the Academic Committee of Xi'an Jiaotong
University**
荣命哲, 电工材料电气绝缘全国重点实验室首席科学家, 西安交通大学学术委员会副主任、教授

10:20 –10:40 **Possible Architectures of Future ACDC Electronic Power Systems**
未来交直流电力系统的架构探讨

**Dushan Boroyevich, Distinguished Professor, Virginia Tech University, Member of the
National Academy of Engineering (USA), IEEE Life Fellow**
Dushan Boroyevich, 弗吉尼亚理工大学杰出教授, 美国国家工程院院士, IEEE终身会士

10:40 –11:00 **Group Photo, Stand tour, Poster display & Refreshment**
合影、展台参观、海报展示及茶歇

11:00 –11:20 **Adaptive Fault Current Limiting Technology, Equipment and Application for VSC-HVDC
Systems**
柔性直流系统自适应故障限流技术装备及应用
Bin Li, Vice President of Tianjin University, Chair Professor
李斌, 天津大学副校长、讲席教授

11:20 –11:40 **Novel UHVDC Transmission Technology Supporting the Outward Delivery of New Ener-
gy**
面向大规模新能源外送的新型超特高压直流输电技术
Zhanqing YU, Professor, Tsinghua University/Huairou Laboratory
余占清, 清华大学/怀柔实验室 教授

11:40 – 12:00 **HVDC - accelerating renewable integration**
HVDC：助力可再生能源高效并网
**Abhay Kumar, Senior Principal Project Lead Engineer (Global HVDC Engineering) ,
Hitachi Energy, IEEE Fellow**
Abhay Kumar, 日立能源HVDC首席工程师, IEEE会士

12:00--14:00 **Stand tour, Poster Display and Lunch**
展台参观、海报展示及午餐

Panel Discussion
圆桌论坛

Session Host: Kai SUN, Professor,
Deputy Dean of the Department of Electrical Engineering, Tsinghua University
主持人: 孙凯, 清华大学电机系副主任、教授

14:00–15:00	Panel Discussion Theme: New Challenges of 100% Renewable Energy Grid Integration & Transmission Bikash Pal, Fellow of the Royal Academy of Engineering (UK), Foreign Member of the Chinese Academy of Engineering Feng WANG,Secretary-General of the Science and Technology Committee, State Power Investment Corporation Cheng PENG,Chief Expert of PowerChina, Director of the Expert Committee of the China Renewable Energy Engineering Institute Xianshan GUO,Director of the DC Technology Center, SGCC Lixin WANG, Deputy General Manager, Inner Mongolia Power (Group) Co., Ltd. 圆桌论坛主题: 100% 新能源组网传输的新挑战 Bikash Pal, 英国皇家工程院院士、中国工程院外籍院士 汪峰, 国家电力投资集团有限公司科技委和科技咨询委秘书长 彭程, 中国电建集团首席专家、水电水利规划设计总院专家委员会主任 郭贤珊, 国家电网有限公司直流技术中心主任 王立新, 内蒙古电力（集团）有限责任公司副总经理
15:00–15:20	Innovation and Large-scale Engineering Demonstration of AC/DC Full-domain Integrated Equipment for High-renewable Power Grids 高比例新能源电网下交直流全域融通装备创新与规模化工程示范 Bo LIU, Professorate Senior Engineer, Chairman of the Board of Shandong Taikai High-Voltage Switch Co., Ltd. 刘博, 山东泰开高压开关有限公司董事长、教授级高级工程师
15:20–15:40	Next-Generation HVDC Converter Technology based on IGCTs IGCT器件助力直流输电技术革新和产业发展 Longlong CHEN, Chief Engineer & Professorate Senior Engineer, Beijing Siyuan Huaishi Electric Power Equipment Co., Ltd. 陈龙龙, 北京思源怀实电力装备有限公司总工程师、教授级高级工程师
15:40–16:00	Refreshment 茶歇

Date: Saturday, 11 July 2026 Invited Forums 专题研讨				
Location 地点	B1 Room V (5) + VI (6)	B1 Room VIII (8)	B1 Room IX (9)	B1 Room X (10)
Time 时间				
16:00-18:00	Forum 1: Novel Power Electronic Equipment 专题1: 新型电力电子设备 Chairs: Xiaoguang WEI Xiaoming ZHA 主席: 魏晓光 查晓明	Forum 2: Power-Electronicized New Power Systems 专题2: 电力电子化新型电力系统 Chairs: Xiaorong XIE Xu CAI 主席: 谢小荣 蔡旭	Forum 3: VSC-HVDC Grid-Forming Technology 专题3: 柔直构网技术 Chairs: Xiongfei WANG Chong GAO 主席: 王雄飞 高冲	Forum 4: High Voltage & Insulation Technology 专题4: 高电压与绝缘技术 Chairs: Tao SHAO Chaohai ZHANG Chijie ZHUANG 主席: 邵涛 张瀚海 庄池杰

Date: Saturday, 12 July 2026 Invited Forums 专题研讨						
Location 地点		Grand Ballroom North		Grand Ballroom Centre		
Time 时间		Grand Ballroom North		Grand Ballroom Centre		
09:00-12:00	Forum 7: Economical DC Breaking Technology & 5th National DC Circuit Breaker Workshop		Forum 8: Solid State Transformer Technology		Forum 9: Power Semiconductor Devices & 4th International IGCT Technology & Application Workshop	
	专题 7: 经济型直流开关技术暨 第五届全国直流断路器 研讨会		专题 8: 固态变压器技术		专题 9: 功率半导体器件暨第四 届 IGCT 技术及应用国 际研讨会	
	Chairs: YI WU Lu QU		Chairs: Qing WANG Biao ZHAO		Chairs: Kuang SHENG, Qiongquan GE, Jinpeng WU	
	主席: 吴 翊 屈 鲁		主席: 王 庆 赵 彪		主席: 盛 况 葛琼璇 吴锦鹏	
					Chairs: Di LIU	
					主席: 柳 地	
					Chairs: Ying HUANG Tong WANG	
					主席: 黄 莹 王 彤	
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					专题 10: 可再生能源多元转化 技术	
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					专题 9: 功率半导体器件暨第四 届 IGCT 技术及应用国 际研讨会	
					Chairs: Kuang SHENG, Qiongquan GE, Jinpeng WU	
					主席: 盛 况 葛琼璇 吴锦鹏	
					Chairs: Qing WANG Biao ZHAO	
					主席: 王 庆 赵 彪	
					Chairs: YI WU Lu QU	
					主席: 吴 翊 屈 鲁	
					Chairs: Kuang SHENG, Qiongquan GE, Jinpeng WU	
					主席: 盛 况 葛琼璇 吴锦鹏	
					Chairs: Di LIU	
					主席: 柳 地	
					Chairs: Ying HUANG Tong WANG	
					主席: 黄 莹 王 彤	
					Forum 11: Flexible Technology Empowering AC-DC Systems – Women in Power Engineering	
					专题 11: 柔性技术赋能 ACDC 系统 – 展现她力量	
					Forum 10: Multi-Conversion Technologies for Renewable Energy	
					专题 10: 可再生能源多元转化 技术	
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					Chairs: YI WU Lu QU	
					主席: 吴 翊 屈 鲁	
					Chairs: Kuang SHENG, Qiongquan GE,	

Date: Saturday, 12 July 2026 Oral Presentation &Invited Sessions 论文口头报告&邀请报告									
Location 地点 Time 时间	B1 Room II (2)	B1 RoomIV(4)	B1 Room V (5)	B1 RoomVI(6)	RoomVII(7)	B1 RoomVIII(8)	B1 RoomIX(9)	B1 Room X(10)	
14:00-15:45	General Session 1.1: AC Technology Session chair: ZhikangYUAN (袁之康) Shiping CHEN (陈世萍)	General Session 2.1: DC Technology Session chair: Fujun MA (马伏军) Mingshen LI (李鸣慎)	General Session 3.1: New Technology Session chair: Gang LYU (吕纲) Zhizheng GAN (甘之正)	Invited Session 01: Modelling, Control, Stability Analysis and Application of New Energy and HVDC systems Session chair: Yunfeng LI (李云丰) Xiao ZHOU (周啸)	General Session 2.3: DC Technology Session chair: Lucheng HONG (洪芦城) Ruihang BAI (白睿航)	Invited Session 04: Simulation tool development technique and application for large AC-DC interconnected power systems/actual projects Session chair: Yizheng XU (徐翌征)	Invited Session 05: Energy Digitalization and Information Processing Mechanism for Battery Management in Dynamic Reconfigurable Battery Network Session chair: Song Ci (慈松) Yanglin ZHOU (周杨林) Yushu SUN (孙玉树)	Invited Session 07: Key technologies and applications for reliability enhancement of power transmission lines and equipment Session chair: Zerui LI (李泽瑞) Xiaoxiao KONG (孔晓晓) Pengfei MENG (孟鹏飞)	
15:45-16:00	Refreshment 茶歇								
16:00-17:40	General Session 1.2: AC Technology Session chair: Yu WANG (王裕) Yuzi JIANG (姜雨孜)	General Session 2.2: DC Technology Session chair: Bin CUI (崔彬) Jinpei DUAN (段金沛)	General Session 3.2 New Technology Session chair: Wenpeng ZHOU (周文鹏) Chunpin REN (任春频)	Invited Session 01: Modelling, Control, Stability Analysis and Application of New Energy and HVDC systems Session chair: Yunfeng LI (李云丰) Xiao ZHOU (周啸)	Invited Session 02: Emerging and Selected Topics in DC Technologies for New Type Power Systems Planning and Operation of Distribution Networks and Microgrids Session chair: Qianhao SUN (孙谦浩) Ke Ji (季柯)	Invited Session 03: Key Technologies and Development of Novel Equipment for the Transmission of Far-Offshore Wind Power Clusters Session chair: Sui PENG (彭穗) Jian WANG (王健)	Invited Session 09: From Point-to-Point VSC-DC to Intelligent DC Grids: Evolution and Future Architecture Session chair: Lidong ZHANG (张利东) Kaqi SUN (孙凯祺) Huangqing XIAO (肖晃庆)	Invited Session 07: Key technologies and applications for reliability enhancement of power transmission lines and equipment Session chair: Zerui LI (李泽瑞) Xiaoxiao KONG (孔晓晓) Pengfei MENG (孟鹏飞)	

Date: Monday, 13 July 2026
09:00-11:30

Technical Visit
技术参观

09:00–9:30 **Depart from Sunrise Kempinski Hotel, via Qihu Hotel and Aloft Beijing Huairou, to Huairou Science City Innovation Exhibition Hall**

从日出东方凯宾斯基酒店出发，途径栖湖饭店、北京怀柔雅乐轩酒店，前往怀柔科学城创新馆

09:30–10:10 **Visit Huairou Science City Innovation Exhibition Hall**
参观怀柔科学城创新馆

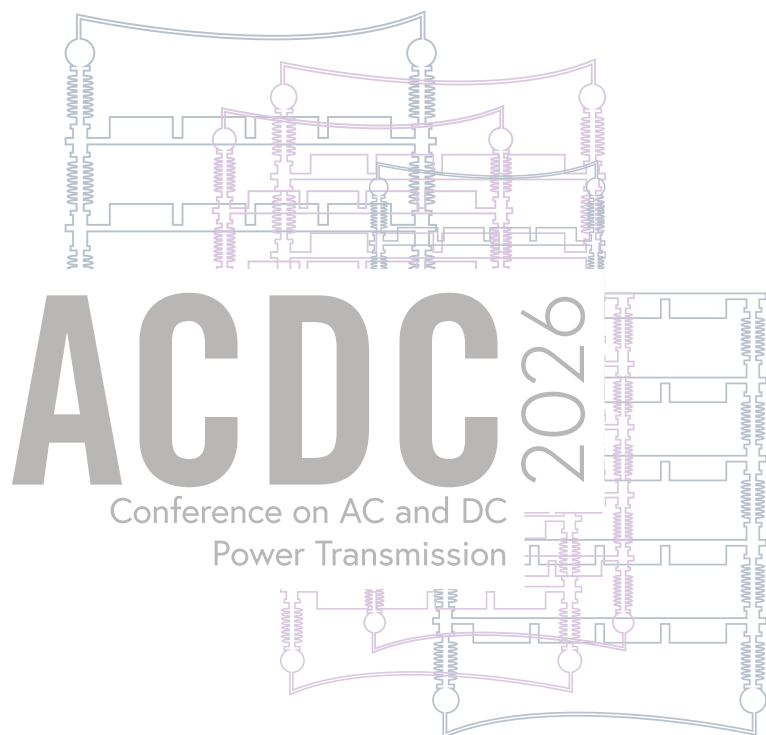
10:10–10:30 **Depart from Huairou Science City Innovation Exhibition Hall to High Energy Photon Source (HEPS)**
从怀柔科学城创新馆出发，前往高能同步辐射光源

10:30–11:00 **Visit High Energy Photon Source (HEPS)**
参观高能同步辐射光源

11:00–11:30 **Technical visit concludes, return to hotel**
技术参观结束，返回酒店

Note: Please refer to page 74 for the venue introduction and registration method.

注：参观场地介绍及报名方式见74页



Keynote speaker 主旨报告嘉宾



Frede Blaabjerg

Professor at Aalborg University, Denmark, and Member of the Royal Danish Academy of Sciences and Letters, IEEE Fellow
丹麦奥尔堡大学教授，丹麦皇家科学与文学院士，IEEE会士

Reliability Engineering of Power Electronics Dominated Power System
电力电子化电力系统可靠性技术

Frede Blaabjerg, Professor of Power Electronics and Drives at Aalborg University, Villum Investigator, IEEE Fellow, and former President of the IEEE Power Electronics Society. He is mainly engaged in teaching and research on power electronics and its applications in renewable energy systems, wind turbines, PV systems, reliability, Power-to-X, power quality, and adjustable speed drives. He has published more than 800 journal papers, co-authored 10 monographs, and edited 20 books in the field of power electronics and its applications. He has received 49 IEEE Prize Paper Awards, the IEEE PELS Distinguished Service Award, the IEEE William E. Newell Power Electronics Award, the Villum Kann Rasmussen Research Award, the Global Energy Prize, and the IEEE Edison Medal. He has been listed among the world's most cited researchers in Engineering by Thomson Reuters from 2014 to 2021.



Mingzhe RONG

荣命哲

Professor, Chief Scientist of the State Key Laboratory of Electrical Insulation and Power Equipment, Vice Chair of the Academic Committee of Xi'an Jiaotong University
电工材料电气绝缘全国重点实验室首席科学家，西安交通大学学术委员会副主任、教授

Cost-Effective HVDC Current Interruption Technologies and Equipment
经济型高压直流开断技术及装备

Prof. Mingzhe Rong is a Distinguished Professor at the School of Electrical Engineering, Xi'an Jiaotong University. He serves as the leader of the NSFC Innovative Research Group on Insulation and Discharge of Electric Power Equipment, Chief Scientist of the State Key Laboratory of Electrical Insulation and Power Equipment, and Chief Technology Advisor of China Electrical Equipment Group. He is a Distinguished Professor of the Chang Jiang Scholars Program and a recipient of the National Science Fund for Distinguished Young Scholars.

As the first contributor, he received one Second Prize of the National Technological Invention Award and one Second Prize of the National Science and Technology Progress Award; as the second contributor, he received two additional Second Prizes of the National Science and Technology Progress Award. He has also been honored with the National Award for Excellence in Innovation and the National May Day Labor Medal.



Dushan Boroyevich

Virginia Tech University Distinguished Professor Emeritus, Member of the National Academy of Engineering (USA), IEEE Life Fellow
弗吉尼亚理工大学杰出教授，美国国家工程院院士，IEEE终身会士

Possible Architectures of Future ACDC Electronic Power Systems
未来交直流电力系统的架构探讨

Dushan Boroyevich received his Dipl. Ing. degree from the University of Belgrade in 1976 and his M.S. degree from the University of Novi Sad in 1982, in what then used to be Yugoslavia. He received his Ph.D. degree in 1986 from Virginia Tech, Blacksburg, USA. Between 1986 and 1990, he was an assistant professor and director of the Power and Industrial Electronics Research Program at the University of Novi Sad. He then joined the Bradley Department of Electrical and Computer Engineering at Virginia Tech as associate professor, and later a co-founder of the Center for Power Electronics Systems (CPES). He retired from Virginia Tech in 2024 as University Distinguished Professor and as Associate Vice-President for Research and Innovation in Energy Systems. Dushan was a mentor for around 60 Ph.D. dissertations and 50 M.S. theses, with whom he co-authored over 900 publications. He continues to be active in consulting and promoting new electronic energy networks for energy transition. He was the president of IEEE Power Electronics Society for 2011-12.

Dushan is a member of the US National Academy of Engineering and is a recipient of 6 honorary professorships in China, as well as numerous other awards, including the IEEE William E. Newell Power Electronics Technical Field Award, the European Power Electronics Association Outstanding Achievement Award, and Ph.D.H.C. from the University of West Bohemia, Czechia. He is IEEE Life Fellow and Fellow of CSEE.



Bin Li 李斌

Vice President of Tianjin University, Chair Professor
天津大学副校长，讲席教授

Adaptive Fault Current Limiting Technology, Equipment and Application for VSC-HVDC Systems
柔性直流系统自适应故障限流技术装备及应用

Bin Li is a Chair Professor at Tianjin University. His research interests lie in the protection and control of novel power systems, as well as advanced DC transmission and distribution technologies. He has led seven NSFC-funded projects, including the National Science Foundation for Distinguished Young Scholars and Key Projects. He has published 207 papers as the first or corresponding author and has authored four academic monographs. He holds 73 Chinese invention patents and four U.S. patents. He is a Fellow of both the IEEE and the IET. His honors include the Second Prize of the State Technological Invention Award of China, as the project leader, he has also received two Special Prizes and three First Prizes at the provincial and ministerial levels.



Zhanqing YU 余占清

Professor, Department of Electrical Engineering, Tsinghua University
Deputy Chief Engineer of Research Team, Huairou Laboratory
清华大学电机系教授，怀柔实验室科研团队副总师

Novel UHVDC Transmission Technology Supporting the Outward Delivery of New Energy
面向大规模新能源外送的新型超特高压直流输电技术

Prof. Zhanqing YU received a Ph.D. from Tsinghua University in 2008. Currently, he is a Professor of Department of Electrical Engineering, Tsinghua University. His research interests include advanced power transmission technology, power semiconductor devices and key equipment for DC Grids, electromagnetic transient and its protection, and high electric field sensing. He was awarded the Excellent Young Scholars of NSFC (National Natural Science Foundation of China) in 2019, and appointed as a Changjiang Distinguished Professor by the Ministry of Education in 2025. His research project "Large Capacity DC Breaking Technology" won 2021 E&T Future power and energy Innovation Award. He has won 1 second prize of the National Technology Invention Award, and 1 second prizes of the National Science and Technology Progress Award. He has published more than 200 papers, obtained more than 120 patents, and taken part in 10 items of technology standards.



Abhay Kumar (Jain)

Senior Principal Project Lead Engineer (Global HVDC Engineering),
Hitachi Energy, IEEE Fellow
日立能源HVDC首席工程师，IEEE会士

HVDC - accelerating renewable integration
HVDC：助力可再生能源高效并网

Abhay Kumar (Jain) is IEEE Fellow, and Senior Principal Project Lead Engineer at HVDC Hitachi Energy in Ludvika, Sweden. He studied Electrical Engineering at the Indian Institute of Technology (IIT), Roorkee in India and started his professional career in 1982 and has been with Hitachi Energy (including previously with ABB) since 1995; overall working in HVDC field over 40 years. Recently he has been playing a key role in executing several 800 kV UHVDC Projects and Saudi-Egypt. He has been active in several IEEE, IEC and CIGRE working groups and is regular member for CIGRE SC B4 representing Sweden. He is recipient IEEE PES Uno Lamm HVDC Award (2019), IEC 1906 Award (2020) and CIGRE Honorary Member Award (2022). He is already Fellow of Institute of Engineers (India) since 2020.



Bo LIU
刘博

Director and Vice President of Taikai Group Co., Ltd.; Chairman of the Board of Shandong Taikai High-Voltage Switch Co., Ltd. and Shandong Taikai DC Technology Co., Ltd.

泰开集团有限公司董事、副总经理，
山东泰开高压开关有限公司、山东泰开直流技术有限公司董事长

Innovation and Large-scale Engineering Demonstration of AC/DC Full-domain Integrated Equipment for High-renewable Power Grids

高比例新能源电网下交直流全域融通装备创新与规模化工程示范

Mr. LIU Bo, Professorate Senior Engineer, Chartered Engineer (CEng), Chairman of Shandong Taikai High Voltage Switchgear Co., Ltd., Deputy Director of the Special Committee for New Power Equipment and Engineering Applications of the National Energy Internet Industry and Technology Innovation Alliance, Member of the Electric Power Live Working Technology Committee under the China Electrotechnical Society, Vice Chair of Taishan Intelligent Manufacturing Industry Alliance, and Key Cutting-Edge Technology Talent of Shandong Province's Key Industrial Chains. Long-term dedication to the research and development of products such as 1100kV and below high-voltage circuit breakers, switchgear, flexible DC, and solid state transformers. He has participated in multiple national, provincial, and municipal key R&D programs and has received six science and technology awards, including the First Prize of Shandong Provincial Science and Technology Progress Award. He has contributed to the formulation of six industry standards, published 11 high-level papers, and been granted eight authorized invention patents.



Longlong CHEN
陈龙龙

Chief Engineer & Professorate Senior Engineer,
Beijing Siyuan Huaishi Electric Power Equipment Co., Ltd.

北京思源怀实电力装备有限公司总工程师、教授级高级工程师

Next-Generation HVDC Converter Technology based on IGCTs

IGCT器件助力直流输电技术革新和产业发展

Longlong Chen, Ph.D., is a Professorate Senior Engineer specializing in HVDC transmission technologies. His research focuses on converter valves, DC circuit breakers, and control and protection systems. He has contributed to the development and engineering application of ± 800 kV UHVDC converter valves, 200 kV and 500 kV hybrid HVDC circuit breakers, and ultra-fast transmission line protection devices. He has participated in three National Key R&D Program of China projects and more than 30 projects funded by the State Grid Corporation of China. Dr. Chen has received multiple provincial and national science and technology awards, holds 32 authorized patents, has published seven SCI/EI-indexed papers as first author, co-authored two technical monographs, and serves as a reviewer for several leading EI-indexed journals.

Invited Forums 专题研讨

16: 00 – 18: 20 / 11 July 2026

Venue: B1 Room V (5)+VI(6)

Forum 1: Novel Power Electronic Equipment

专题 1: 新型电力电子装备

Chairs: Xiaoguang WEI, Professoriate Senior Engineer, Deputy Director of the Next Generation Power System Research Center of Huairou Laboratory
Xiaoming ZHA, Professor, Wuhan University

主席: 魏晓光, 怀柔实验室新型电力系统研究中心副主任/教高
查晓明, 武汉大学 教授

16:00–16:20 From Devices to Equipment: Technological Exploration and Innovation in Enhancing VSC-HVDC Capacity

从器件到装备：柔直容量提升的技术探索与创新

Xiaoguang WEI, Professoriate Senior Engineer, Deputy Director of the Next Generation Power System Research Center of Huairou Laboratory

魏晓光, 怀柔实验室新型电力系统研究中心副主任/教高

16:20–16:40 Challenges and Countermeasures for Grid Integration of Power Electronic Equipment
电力电子装备并网问题的挑战及对策

Prof. Xiaoming ZHA, Wuhan University

查晓明, 武汉大学教授

16:40–17:00 High-Capacity, High-Power-Density Energy Routers for Deep-Sea Exploration Networks
用于深远海探测网的大容量高功率密度能量路由器关键技术

Prof. Wuhua LI, College of Electrical Engineering, Zhejiang University

李武华, 浙江大学电气工程学院教授

17:00–17:20 Power Electronics Edge Intelligence: Potential, Pathways, and Applications
电力电子边缘智能：潜力、路径及应用

Prof. Feng GAO, Shandong University

高峰, 山东大学 教授

17:20–17:40 Development of High-Voltage, High-Capacity DC Converters for Photovoltaic DC Collection
光伏直流汇集用高压大容量直流变换器研制

Chengzhu LIU, Professoriate Senior Engineer, Executive Vice Dean of the Beijing Electric Power Equipment General Factory Co., Ltd.

刘成柱, 北京电力设备总厂有限公司 常务副院长/正高

17:40–18:00 Power Quality Mitigation in Modern Industrial Grids: SVG for Ultra-Large EAF and Grid-Forming Voltage Stabilizer for MV Sensitive Loads

现代工业电网电能质量治理——超大型电弧炉SVG与中压敏感负荷构网型电压暂降治理装备

Xin SUN, Senior R&D Manager, Beijing Sifang Automation Co., Ltd.

孙欣, 北京四方继保自动化股份有限公司 高级研发经理

18:00–18:20 R&D Progress and Future Development Trends of Dry-Type DC-Link Capacitors for VSC Converter Valves

柔直换流阀干式直流支撑电容器研发进展及未来发展方向

Kefeng TONG, Senior Engineer, Chief Engineer of the Sun.King Technology

童克峰, 赛晶科技集团有限公司 总工/高级工程师

16: 00 – 18: 00 / 11 July 2026		Venue: B1 RoomVIII(8)
Forum 2: Power-Electronized New Power Systems 专题 2：电力电子化新型电力系统 Chairs: Prof. Xiaorong XIE, Tsinghua University Prof. Xu CAI, Shanghai jiaotong university 主席: 谢小荣,清华大学 教授 蔡旭,上海交通大学 教授		

16:00–16:20	Development of New-type Power System Stabilizer 新型电力系统稳定器研发 Prof. Xiaorong XIE, Tsinghua University 谢小荣,清华大学 教授
16:20–16:40	Key Technologies and Applications of Grid-Forming Renewable Power Generation 主力电源型新能源发电关键技术与应用 Prof. Xu CAI, Shanghai jiaotong university 蔡旭,上海交通大学 教授

16:40–17:00	Stable Grid-Connected Operation and Active Support of Renewable Power Generation 新能源发电并网稳定运行与主动支撑 Prof. Heng NIAN, Zhejiang University 年珩,浙江大学 教授
17:00–17:20	Effective Fault-ride Through (FRT) and Smart Load-shedding for Secure Renewable Grid 面向高比例新能源电网安全运行的故障穿越与智能切负荷技术 Prof. Nirmal Nair, CIGRE AORC Secretary / University of Auckland Nirmal Nair , 国际大电网会议亚洲区域委员会/奥克兰大学 教授

17:20–17:40	Real-time Estimation of Power System Inertia Based on Active Probing Power 基于主动注入的电网惯量实时测量技术 Wei Huang HUANG, Professoriate Senior Engineer, Deputy Director at CSG Electric Power Research Institute Co., Ltd 黄伟煌, 南方电网科学研究院 副所长/正高
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17:40–18:00	Research on Temperature Rise of HVDC Capacitors 柔性直流输电换流阀用直流支撑电容器温升研究 Jiantao LI, Lion great exploit (hebi) electronic technology co.,Ltd 李建涛, 来恩伟业（鹤壁）电子科技有限公司 技术总监
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16: 00 – 18: 00 / 11 July 2026		Venue: B1 RoomIX(9)
Forum 3: VSC-HVDC Grid-Forming Technology 专题 3：柔直构网技术 Chairs: Xiongfei WANG, Professor, Tsinghua University Chong GAO, Professoriate Senior Engineer, Director at China Electric Power Research Institute 主席: 王雄飞, 清华大学 教授 高冲, 中国电力科学研究院 所长/教高		

16:00–16:20	Grid-Forming VSC-HVDC Transmission: Technology Discussion and Application 构网型柔直输电技术探讨与应用 Xianshan GUO, Professoriate Senior Engineer, Director of the DC Technology Center of State Grid of China 郭贤珊, 国家电网有限公司直流技术中心 主任/教高
16:20–16:40	Thinking of Improving the Overload Capability of VSC-HVDC 柔直过载能力提升的思考 Yuebin ZHOU, Deputy Director, CSG Electric Power Research Institute Co., Ltd 周月宾, 南方电网科学研究院 副所长

16:40–17:00	Grid-Forming VSC-HVDC for Offshore Wind: Key Technologies and Future Outlook 构网型海上风电柔直外送技术与发展展望 Yuexi YANG, Professoriate Senior Engineer, Director of the Research Office at the China Electric Power Research Institute Co., Ltd. 阳岳希, 中国电力科学研究院有限公司 研究室主任/教高
17:00–17:20	Stability Analysis of Multi-Grid-Forming Converter Systems in Large-Scale Renewable Energy Base DC Transmission Systems 大型新能源基地直流送出系统多构网主体稳定性分析 Xiaolin SHEN, Senior Engineer, Division Director, State Power Economic Research Institute 申笑林, 国网经济技术研究院 处长/高工

17:20–17:40	Industrial Practices of Grid-forming (GFM) VSC-HVDC 构网型柔直的工业实践 Changjiang ZHAN, Deputy Chief Engineer of the Research Institute at NR Electric Co., Ltd. 詹长江, 南京南瑞继保电气有限公司 研究院副总工
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17:40–18:00	Stability Analysis and Control of Grid-Forming MMC-HVDC 构网型柔直稳定性分析与控制 Heng WU, Professor, Southeast University 吴恒, 东南大学 研究员
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16: 00 – 18: 00 / 11 July 2026		Venue: B1 Room X (10)
Forum 4: High Voltage & Insulation Technology 专题 4: 高电压与绝缘技术 Chairs: Tao SHAO, Professor, Wuhan University Chaohai ZHANG, Professor, Nanjing University of Aeronautics and Astronautics Chijie ZHUANG,Professor,Tsinghua University/Huairou Laboratory 主席: 邵涛, 武汉大学 教授 张潮海, 南京航空航天大学 教授 庄池杰, 清华大学副教授/怀柔实验室研究员		

16:00–16:20	Insulation Condition Detection Technology for Power Equipment Based on Spectroscopy Principles 基于光谱原理的电力设备绝缘状态检测技术 Chaohai ZHANG,Professor, Nanjing University of Aeronautics and Astronautics 张潮海, 南京航空航天大学 教授
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16:20–16:40	Failure Analysis and Stress Monitoring Methods of Press-Pack IGBT Devices in Flexible HVDC Converter 柔直换流阀压接型IGBT器件失效分析及应力监测方法 Hui LI, Professor, Deputy Director of the State Key Laboratory of Power Transmission Equipment Technology, Chongqing University 李辉, 重庆大学 输变电装备技术全国重点实验室副主任/教授
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16:40–17:00	High Thermal Conductivity Insulation Systems for Electrical Equipment and Applications 电气装备高导热绝缘体系与应用 Yu FENG,Professor, Vice Dean of the School of Electrical and Electronic Engineering, Harbin University of Science and Technology 冯宇, 哈尔滨理工大学 电气与工程学院副院长/教授
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17:00–17:20	Environment-Friendly Recyclable Cable Insulating Materials 环保可回收型电缆绝缘材料 Zhonglei LI, Professor, Tianjin University 李忠磊, 天津大学 教授
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17:20–17:40	High voltage and plasma technologies: dielectric breakdown mechanism in gas and solid phases and modification of energy-storage materials 高电压与等离子体技术：气-固介质击穿机理与储能材料改性 Bangdou HUANG, Associate Researcher, Institute of Electrical Engineering, Chinese Academy of Sciences 黄邦斗, 中国科学院电工研究所 副研究员
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17:40–18:00	Development and Performance Characterization of Liquid-Crystal-Modified Natural Ester Insulating Oil 液晶改性天然酯绝缘油研制及性能表征 Zhengyong HUANG, Professor, Chongqing University 黄正勇, 重庆大学 研究员
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16: 00 – 18: 00 / 11 July 2026		Venue: B1 Room IV(4)
Forum 5: New Energy Storage Technologies 专题 5: 储能新技术 Chairs: Jia XIE, Professor, Huazhong University of Science and Technology Kai WANG, Professor, Institute of Electrical Engineering, Chinese 主席: 谢佳, 华中科技大学 教授 王凯, 中国科学院电工研究所 研究员		

16:00–16:20	Advanced Lithium-ion Battery for Grid-scale Energy Storage 电力储能用锂离子电池 Jia XIE, Professor, Huazhong University of Science and Technology 谢佳, 华中科技大学 教授
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16:20–16:40	Key Technology of High-performance Lithium-ion Capacitor 高性能锂离子电容器关键技术研究 Kai WANG, Professor, Institute of Electrical Engineering, Chinese Academy of Sciences 王凯, 中国科学院电工研究所 研究员
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16:40–17:00	Multi-Physics Simulation and Diagnosis for Lithium-Ion Batteries 锂离子电池系统多物理场仿真与诊断关键技术 Caiping ZHANG, Professor, Vice Dean, Beijing Jiaotong University 张彩萍, 北京交通大学 副院长/教授
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17:00–17:20	Overview of Ultrasonic Technology for the State Monitoring of Lithium-Ion Batteries 超声技术在锂离子电池状态检测中的应用 Guodong MENG, Professor, Xi'an Jiaotong University 孟国栋, 西安交通大学 教授
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17:20–17:40	Fault Diagnosis and Early Safety Warning for Large Scale Lithium-ion Battery Energy Storage Systems 大规模锂电池储能系统故障诊断预警 Yang JIN,Professor, Zhengzhou University 金阳, 郑州大学 教授
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17:40–18:00	Dielectric Property Enhancement of Dry-Type DC Capacitors and BOPP Films 干式直流电容器及薄膜材料性能提升技术研究 Meng XIAO,Professor, Tianjin University 肖萌, 天津大学 教授
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16：00 – 18：20 / 11 July 2026		Venue: B1 Room VII(7)
Forum 6: New Electrical Engineering Technologies 专题 6：电工新技术 Chairs: Lei QI, Professor, Dean of the School of Electrical and Electronic Engineering, North China Electric Power University Yongjian LI, Professor, Hebei University of Technology 主席： 齐磊，华北电力大学 电气与电子工程学院院长/教授 李永建，河北工业大学 教授		
16:00–16:20	Brain-inspired Multimodal Perception Technology for Power Systems 电力多模态类脑感知技术 Xiaohua WANG, Professor, Xi'an Jiaotong University 王小华，西安交通大学 教授	
16:20–16:40	Design, fabrication and testing of a double metal co-wounded high temperature superconducting magnet 双层金属并绕高温超导磁体设计、制作与测试 Guangtong MA, Professor, Dean of the School of Electrical Engineering, Southwest Jiaotong University 马光同，西南交通大学 电气工程学院院长/研究员	
16:40–17:00	Wideband Oscillation Characteristics Analysis and Mitigation of Flexible Low-Frequency Transmission System for Offshore Wind Power 海上风电柔性低频送出系统宽频振荡特性分析及抑制 Nianwen XIANG,Professor,Dean of the School Of Electrical Engineering And Automation,HFUT 向念文，合肥工业大学电气与自动化工程学院院长/教授	
17:00–17:20	Numerical Methods for Electromagnetic Field Computation of 3D Integrated Magnetics and Wireless Power Transfer 三维磁集成及无线传能问题的电磁场数值计算方法 Yanpu ZHAO, Professor, Sichuan University 赵彦普，四川大学 教授	
17:20–17:40	Modeling and Research Progress of Relaxation Electric Field in Packaging of High-Voltage High-Power Power Electronic Devices 高压大功率电力电子器件封装弛豫电场建模及研究进展 Xuebao LI, Professor, North China Electric Power University 李学宝，华北电力大学 教授	
17:40–18:00	Magnetic Properties Measurement and Losses Prediction of Power Electronic Transformer Cores Under Multiple Operating Conditions 电力电子变压器铁心多工况磁特性测试和损耗模拟研究 Shuaichao YUE, Associate Professor, Hebei University of Technology 岳帅超，河北工业大学 副教授	
18:00–18:20	Progress in the Research and Development of Domestically Controlled Semiconductor Simulation Software 自主可控半导体仿真软件研发进展 Chijie ZHUANG,Professor,Tsinghua University/Huairou Laboratory 庄池杰，清华大学副教授/怀柔实验室研究员	

16：00 – 18：00 / 11 July 2026		Venue: B1 RoomIII (3)
2026 IET Fellow and Industry Forum 2026 IET会士与行业论坛 Host: Paulo Lopes, Greater China Country Head, IET 主持人： IET大中华区负责人Paulo Lopes先生		
16:00–16:10	Welcome speech from Prof. Bob Cryan, The Emeritus President of the IET 欢迎致辞 IET荣誉主席 Bob Cryan院士	
16:10–16:50	Self-Introductions to help IET Fellows and registered members get to know one another Fellow自我介绍	
16:50–17:40	Roundtable Discussion on the intelligent energy future, cross-sector engineering innovation and collaboration within the IET member community 圆桌讨论 构建智能能源未来：韧性、数字化与跨行业工程创新	
17:40–17:50	Closing Remarks and Summary by the host IET大中华区负责人Paulo Lopes先生总结与闭幕致辞	
17:50–18:00	Group Photo 合影	

09:00 – 12:20 / 12th July 2026		Venue: Grand Ballroom North, Ground Floor
Forum 7: Economical DC Breaking Technology & 5th National DC Circuit Breaker Workshop 专题 7：经济型直流开断技术暨第五届全国直流断路器研讨会		
Chairs: Yi WU,Professor, Xi'an Jiaotong University Lu QU, Associate Researcher, Tsinghua University / Huairou Laboratory		
主席： 吴翊，西安交通大学 教授 屈鲁，清华大学/怀柔实验室 副研究员		

09:05–09:25	Research on Economical Medium and High Voltage DC Breaking Technology 经济型中高压直流开断技术研究 Yi WU, Professor,Xi'an Jiaotong University 吴翊，西安交通大学 教授
09:25–09:45	DC Vacuum Fast-Interruption Technology 直流真空快速开断技术 Xiaolong HUANG, Associate Professor, Deputy Director of the College of Electrical Engineering, Sichuan University 黄小龙，四川大学 电气工程系副主任/副教授
09:45–10:05	Cost-Effective HVDC Circuit Breaker Topology Scheme and Key Technologies 经济型高压直流断路器拓扑方案与关键技术 Zhao YUAN,Professor, Huazhong University of Science and Technology 袁召，华中科技大学 教授
10:05–10:25	Cost-Effective HVDC Circuit Breaker Technologies for Different Scenarios 面向不同场景的经济型高压直流断路器技术 Wandi ZHOU, Professoriate Senior Engineer, Deputy Director of the Research Office at the China Electric Power Research Institute 周万迪，中国电力科学研究院 研究室副主任/教高
10:25–10:40	Poster Session & Coffee Break 海报展示及茶歇
10:40–11:00	Economy high-capacity power electronic switch technology 经济型大容量电力电子开关技术 Xiangyu ZHANG, Associate Professor, North China Electric Power University 张翔宇，华北电力大学 副教授
11:00–11:20	An Economical Fault Ride-Through Method for Flexible DC Systems Based on High-Capacity DC Transfer Switches 基于大容量直流转换开关的柔性直流系统经济型故障穿越方法 Weijie WEN, Associate Professor, Tianjin University 温伟杰，天津大学 副教授

11:20–11:40	Research on Key Technologies and Equipment Development of Flexible Modulation DC Breaking 柔性调制直流开断关键技术研究及装备研制 Lu QU, Associate Researcher, Tsinghua University / Huairou Laboratory 屈鲁，清华大学/怀柔实验室 副研究员
11:40–12:00	Development and Application of Taikai DC Circuit Breaker Products 泰开直流断路器产品研制及应用 Wei LI, Professoriate Senior Engineer, General Manager of Shandong Taikai DC Technology Co., Ltd. 李伟，山东泰开直流技术有限公司 总经理/正高级工程师
12:00–12:20	Application prospect of economical DC interruption technology in Guangdong Power Grid 经济型直流开断技术在广东电网的应用前景 Duanjiao LI, Professoriate Senior Engineer, General Manager of the Production Technology Department at the Guangdong Power Grid Co., Ltd. 李端姣，广东电网有限责任公司 生产技术部总经理/正高

09:00 – 12:20 / 12th July 2026		Venue: Grand Ballroom Centre, Ground Floor
Forum 8: Solid State Transformer Technology 专题 8：固态变压器技术		
Chairs: Qing WANG, Division Director, State Grid Corporation of China Biao ZHAO, Associate Professor, Tsinghua University / Huairou Laboratory		
主席： 王庆，国家电网有限公司 处长 赵彪，清华大学/怀柔实验室 副教授		

09:05–09:25	The challenges of key components in solid-state transformers 固态变压器关键零部件的瓶颈与挑战 Wu CHEN, Professor, Southeast University 陈武，东南大学 教授
09:25–09:45	Research on Key Technologies of High-Frequency Isolated Converters for Solid-State Transformers 面向固态变压器的高频隔离变换器关键技术研究 Nie HOU, Professor, Tianjin University 侯聂，天津大学 教授

09:45–10:05	Innovative Practices of Solid-State Transformers in Supporting the Construction of New Power Systems 支撑新型电力系统构建的固态变压器创新实践 Biao ZHAO, Associate Professor, Tsinghua University / Huairou Laboratory 赵彪，清华大学/怀柔实验室 副教授
10:05–10:25	Principle and Application of Clamped-Resonant Solid-State Transformer 钳位谐振型固态变压器原理及应用 Binbin LI,Professor, Deputy Director, Harbin Institute of Technology 李彬彬，哈尔滨工业大学 副所长/教授
10:25–10:40	Poster Session & Coffee Break 海报展示及茶歇
10:40–11:00	Performance Improvement of Soft Switching and Efficiency for Dual-Active-Bridge-Based DC Transformers: From Single Converter to Modular Converter 基于双有源桥的直流变压器软开关与效率性能提升研究：从单变换器到组合变换器 Guo XU, Professor, Central South University 许国，中南大学 教授
11:00–11:20	The EMT Modelling and Simulation of SSTs for AI Data Centers 数据中心固态变压器电磁暂态建模仿真 Jianzhong XU,Professor, North China Electric Power University 许建中，华北电力大学 教授
11:20–11:40	SST Engineering Technology Research: From Technical Solutions to Products SST工程化技术研究:从技术方案到产品 Yu AN, Chint Group Co., Ltd. 安昱, 正泰集团有限公司 正泰清研总工程师
11:40–12:00	HVDC Power Supply Solutions and Product Development for Data Centers 数据中心高压直流供电解决方案与产品研制 Zhongjian SONG, Senior Engineer, Chief Engineer of the Shandong Taikai DC Technology Co., Ltd. 宋中建，山东泰开直流技术有限公司 总工/高级工程师

09:00 – 12:20 / 12th July 2026		Venue: B1 RoomVIII(8)
Forum 9: Power Semiconductor Devices & 4th International IGCT Technology & Application Workshop 专题 9：功率半导体器件暨第四届 IGCT 技术及应用国际研讨会 Chairs: Kuang SHENG, Professor of Zhejiang University, President of Huzhou Normal University Qiongxuan GE, Professor, Institute of Electrical Engineering Chinese Academy of sciences Jinpeng WU, Associate Professor, Tsinghua University / Huairou Laboratory 主席： 盛况，浙江大学教授/湖州师范大学校长 葛琼璇，中国科学院电工研究所 研究员 吴锦鹏，清华大学/怀柔实验室 副教授		
09:05–09:25	Electrothermal Equalization Method for Multi-Chip Parallel High-Voltage SiC MOSFETs 高压碳化硅MOSFET多芯片并联电热均衡方法 Zhibin ZHAO, Professor,North China Electric Power University / Huairou Laboratory 赵志斌，华北电力大学/怀柔实验室 教授	
09:25–09:45	Structural Characteristics and Future Development Trends of SiC Power Devices SiC功率器件结构特点及未来发展趋势 Maojie CONG, Vice President of Corelink Power Technology Co., Ltd. 丛茂杰，芯联动力科技有限公司 技术副总裁	
09:45–10:05	High Voltage SiC Power Device Technology 高压碳化硅功率器件技术 Na REN, Associate Professor, Zhejiang University 任娜，浙江大学 副教授	
10:05–10:25	IGCT Application：from Tradition to Innovation IGCT应用：从传统到创新 Zhuoran LIU, Principal Researcher, Hitachi Energy Research 刘卓然，日立能源中国研究院 主任研究员	
10:25–10:40	Poster Session & Coffee Break 海报展示及茶歇	
10:40–11:00	Development of High-Speed Maglev Traction Converter Based on IGCT 基于IGCT的高速磁浮牵引变流器研制 Qiongxuan GE, Professor, Institute of Electrical Engineering Chinese Academy of sciences 葛琼璇，中国科学院电工研究所 研究员	

11:00–11:20	Application and Development of Power Devices in New Power Systems 新型电力系统中功率器件的应用与发展 Liu YANG, Professoriate Senior Engineer, CSG Electric Power Research Institute Co., Ltd 杨柳，南方电网科学研究院有限责任公司 正高级工程师
11:20–11:40	Research on the Avalanche Controlled Ultra-high Power Semiconductor Device 基于可控雪崩的超大容量功率器件研制 Jiapeng LIU, Assistant Researcher, Tsinghua University / Huairou Laboratory 刘佳鹏，清华大学/怀柔实验室 助理研究员
11:40–12:00	Development Status and Application Potential of High Power IGCT&FRD 大功率IGCT和FRD的发展状态及应用前景 Makan Chen, Head of Global Sales & Business Development, Hitachi Energy Semiconductors Makan Chen，日立能源半导体公司 全球销售与业务发展主管
12:00–12:20	Key Technologies of High-Power Semiconductor Devices in the New Power System 新型电力系统中大功率半导体器件关键技术 Lei ZHANG, Senior Engineer, Deputy General Manager of the Xi'an Peri Power Semiconductor Converter Technology Co., Ltd. 张磊，西安派瑞功率半导体变流技术股份有限公司 副总经理/高级工程师

09:00 – 11:30 / 12th July 2026		Venue: B1 RoomIX(9)
Forum 10: Multi-Conversion Technologies for Renewable Energy 专题 10：可再生能源多元转化技术 Chairs: Di LIU，Chairwoman of the Power Special Committee, CRES, President of the CAAMM,Executive Vice President of the CAOЕ. 主席： 柳地，中国可再生能源学会可再生能源动力专委会主任，中国农机协会风力机械分会会长，中国海洋工程咨询协会海上风电分会常务副会长		
09:05–09:25	Long-Duration Hydrogen Storage-Based Distributed Power System 基于长时氢储能的分布式发电系统 Weirong CHEN, Dean of the Institute of Hydrogen Energy and Storage Technology , Southwest Jiaotong University , Foreign Member of the Russian Academy of Engineering 陈维荣，西南交通大学氢能及储能技术研究院院长，俄罗斯工程院外籍院士	
09:25–09:45	DC Direct-Supply Technology for Large-Scale Renewable Energy 大规模可再生能源直流直供技术 Qiang SONG, Associate Professor , Tsinghua University 宋强，清华大学 副教授	

09:45–10:05	Off-Grid Hydrogen Production Power Supply Scheme with Direct Green Power Access 绿电直连离网制氢电源供给解决方案 Youtao YANG, Deputy Director of the Carbon Neutral Products and System Expansion Department, Goldwind 杨有涛，金风零碳产品与系统拓展部副部长
10:05–10:25	Renewable Powered Aluminum Industry: Development Trends and Key Technologies in the Carbon Neutrality Era 双碳目标引领下绿电铝产业发展方向与关键技术 Shanpeng PEI, Director of the Institute of Strategic Planning and Corporate Studies,SPIC Economic and Technological Research Consulting Co., Ltd. 裴善鹏，国家电投集团经济技术研究咨询有限公司 战略规划与企业研究所所长
10:25–10:40	Poster Session & Coffee Break 海报展示及茶歇
10:40–11:00	Key Challenges and Solutions of Integrated Green Electricity-Hydrogen Energy Supply and Utilization Systems 绿色电-氢综合能源供用系统关键难题及解决方案 Song HU, Lecturer, University of Science and Technology Beijing 胡松，北京科技大学 讲师
11:00–11:20	From Electrolyzers to New Power Systems 从电解槽到新型电力系统 Jian ZHANG, Chief Engineer of Hydrogen Energy at Envision Energy 张健，远景能源氢能总工程师

09:00 – 12:00 / 12th July 2026		Venue: B1 Room X (10)
Forum 11: Flexible Technology Empowering AC-DC Systems – Women in Power Engineering 专题 11：柔性技术赋能 ACDC 系统 — 展现她力量 Chairs: Ying HUANG, Professor,Vice Dean, Zhejiang University Tong WANG, Professor,North China Electric Power University 主席： 黄莹，浙江大学 副院长/教授 王彤，华北电力大学 教授		
09:05–09:25	DC Active Support Technology 直流主动支撑技术 Ying HUANG, Professor,Vice Dean, Zhejiang University 黄莹，浙江大学 副院长/教授	
09:25–09:45	Exploration of Wind-Solar-Hydrogen-Fuel Project Integrated with Power Grid 并网型风光氢燃料系统研究 Guizhi XU, Professoriate Senior Engineer, Deputy Director at China Electric Power Research Institute 徐桂芝，中国电力科学研究院有限公司 副所长/教高	

09:45–10:05	Tempering and Assurance in Reform and Innovation — R&D and Demonstration Application of Fully-through Flexible Traction Power Supply System 革故鼎新中的历练与笃定——全贯通柔性牵引供电系统研发与示范应用 Xiaoqiong HE, Professor,Deputy Director, Southwest Jiaotong University 何晓琼，西南交通大学 副主任/教授
10:05–10:25	Key Technologies for Planning and Operation Control of DC Interconnected Urban Power Grid Systems 城市电网直流互联系统规划与运行控制关键技术 Kaiqi SUN, Professor,Shandong University 孙凯祺，山东大学 教授
10:25–10:40	Poster Session & Coffee Break 海报展示及茶歇
10:40–11:00	Aggregation and Coordinated Dispatch of Large-Scale Flexible Resources Across Voltage levels 规模化灵活性资源跨级资源聚合与协同调度 Tao XU, Professor, Tianjin University 徐弢，天津大学 特聘研究员
11:00–11:20	Study on Line Protection Considering Impacts of Energy Storage Operation Modes of Charging and Discharging 计及储能充放电模式影响的线路保护研究 Sumei LIU, Associate Professor, Director of the Teaching and Research Office, Beijing Forestry University 刘素梅，北京林业大学 教研室主任/副教授
11:20–11:40	Analysis and Control Research on Voltage Oscillation Induced by Switching Control in Renewable Energy Power Systems 新能源电力系统切换控制诱导型电压振荡分析及控制研究 Yaqi SHEN, Associate Professor, North China Electric Power University 沈雅琦，华北电力大学 副教授
11:40–12:00	A novel load modeling method based on probing signals 基于主动激励信号的负荷建模新方法 Ying WANG, Lecturer, Beijing Forestry University 王颖，北京林业大学 讲师

Oral Presentation &Invited Sessions 论文口头报告&邀请报告

14:00 – 16:00, Afternoon, 12 July 2026

Location: B1 Room II (2)

General Session 1.1: AC Technology

Chairs:

Zhikang YUAN, Associate Professor, Tongji University
袁之康, 副教授，同济大学

Co-chair:

Shiping CHEN, Assistant Researcher, Tsinghua University
陈世萍, 助理研究员，清华大学

14:00–15:45

Paper ID: 42

ESTIMATION OF ZERO-SEQUENCE PARAMETER COMBINATIONS FOR ASYMMETRICAL PARALLEL TRANSMISSION LINES DURING EXTERNAL FAULTS

Dazhong Sun, Zhongping Liu, Jun Han, Yu Liu

Paper ID: 50

A hybrid dual-loop control method for M3C converter based on LADRC and CCS-MPC

Zhihao Chen, Fei Liu, Zhukun Li

Paper ID: 87

Study on Thermal Characteristics of the Leader Discharge Channel Recovery Process Based on Mach-Zehnder Interferometry

Rui Liu, Xuan Zhou, Yuqi Shuai, Jianwei Cheng, Zehua Wu, She Chen, Chijie Zhuang, Hengxin He

Paper ID: 92

FAST TEMPERATURE-RISE PREDICTION AND STRUCTURAL OPTIMISATION OF UHV GIL BASED ON AN IMPROVED LPTN MODEL

Huazhao Si, Qi Huang, Yuyu Zhu

Paper ID: 95

DOES u_i REPRESENT INSTANTANEOUS POWER OR ENERGY FLOW?

Jiangwei Chen, Henrui Miao

Paper ID: 106

Oil-immersed self-cooling transformer - Thermal coupling oil temperature distribution and hot spot characteristics

Deshen Li, Jilin Zhang, Xiangsong Meng, Chunjia Gao, Bo Qi

15:45-16:00

Refreshment Break

16:00 – 17:40, Afternoon, 12 July 2026		Location: B1 Room II (2)
General Session 1.2: AC Technology		
Chairs:	Yu WANG, Associate Professor, Guangdong University of Technology 王裕, 副教授, 广东工业大学	
Co-chair:	Yuzi JIANG, Assistant Researcher, Tsinghua University 姜雨孜, 助理研究员, 清华大学	

14:00 – 16:00, Afternoon, 12 July 2026		Location: B1 Room II (4)
General Session 2.1: DC Technology		
Chairs:	Fujun MA, Professor, Hunan University 马伏军, 教授, 湖南大学	
Co-chair:	Mingshen LI, Assistant researcher, Tsinghua University 李鸣慎, 助理研究员, 清华大学	

16:00–17:40	Paper ID: 121 Comparative Study of Adaptive VSG for MMC to Enhance Frequency Resilience Zhenyang Zhang, Zhengxiao Zhang, Xinyu Wang, Yukun Li
	Paper ID: 126 Impact of Inter-Line Asymmetry on Zero-Sequence Longitudinal Differential Protection of Untransposed Double-Circuit Transmission Lines on the Same Tower Qianling Lou, Chunju Fan, Haoyu Zhu, Xiaoran Wang
	Paper ID: 168 STUDY ON THE GROWTH PATTERNS AND MORPHOLOGICAL EVOLUTION OF INSULATION TREES IN 110 KV CROSS-LINKED POLYETHYLENE CABLES DURING SERVICE LIFE Yang Cheng, Hua Li, Zehua Zhang, Siyi Xie, Fuchang Lin, Qing Zhang
	Paper ID: 172 Joint Planning Approach for Flexible DC Interconnection and Energy Storage in Distribution Networks Considering Three-phase Unbalance Yao Fangyuan, Wang Renjie, Zheng Jinghong, Ji Shiqi, Yuan Liqiang, Yang Weitao
	Paper ID: 189 ESTIMATION OF TRANSMISSION LINE PARAMETERS VIA HEURISTIC OPTIMIZATION BASED ON FAULT-INDUCED TRANSIENTS Akif Nadeem, Ahsan Ashfaq, Umair Khaliq, Zhu Yingzheng, Feng Cao
	Paper ID: 205 Power Oscillation Damping Strategy for Parallel Grid-Forming and Grid-Following Converters Based on Leader-Follower Consensus Hang Liu, Haning Luo, Fangqun Liao, Yicong Li, Wenhan Hu

14:00–15:45	Paper ID: 13 MECHANISM AND SUPPRESSION STRATEGY OF COMMUTATION FAILURE INDUCED BY SENDING END FAULT IN HYBRID CASCADED HVDC SYSTEM Jiahui Li, Liangliang Hao, Fan Huang
	Paper ID: 15 Auxiliary Full-Bridge Virtual Resonance Compensation Control for Gigawatt-Class High-Voltage DC Transformer Liangde Xu, Ting Guo, Zhenyong Niu, hongwei Zhao, Linlin Hu, Zhonghao Chen, Bin Cui, Lu Qu
	Paper ID: 36 Fault Ride-Through Strategy of the DRU-MMC-Based Hybrid HVDC System Under Sending-End AC Faults Shuaiqiang Jia, Jinmu Lai, Zhen Li, Lianghui Dong, Jun Liang, Zhu Li
	Paper ID: 38 Mechanism Of Continuous Commutation Failure Caused By Asymmetrical Faluts At The Inverter Side In Lcc-Hvdc System Congcong Wang, Liangliang Hao, Jiahui Li
	Paper ID: 51 Fault Diagnosis Strategy for MMC Half-Bridge Submodules Based on Device State Monitoring yongjie zheng, jiaxin wang, peng zhang, xiaoyu fan, Haiwang Jin, fei liu
	Paper ID: 61 Analysis of Commutation Failure Based on System Switching and Optimization Method of Valve Control System Triggering Strategy Shengfu Gao, Zhuo Wei, Guohua Zhang, Siqi Dong, Jinzhao Hu, Jun Zhang

15:45-16:00	Refreshment Break
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16:00 – 17:40, Afternoon, 12 July 2026	Location: B1 RoomIV(4)
General Session 2.2: DC Technology	
Chairs:	Bin CUI, Associate Researcher, Tsinghua University 崔彬, 副研究员, 清华大学
Co-chair:	Jinpei DUAN, Assistant Researcher, Tsinghua University 段金沛, 助理研究员, 清华大学

14:00 – 16:00, Afternoon, 12 July 2026	Location: B1 Room V (5)
General Session 3.1 New Technology	
Chairs:	Gang LYU, Professor, Beihang University 吕纲, 教授, 北京航空航天大学
Co-chair:	Zhizheng GAN, Assistant Researcher, Tsinghua University 甘之正, 助理研究员, 清华大学

16:00–17:40	Paper ID: 71 Effect of Dielectric Coating on Particle Suppression in DC GIL Xuexue Nie, Qilong Zhao, Jan Wang Paper ID: 85 Mechanism and Experimental Validation of Enhanced Surge Ruggedness in 6.5 kV RB-IGCTs via Proton Irradiation Su Yan, Zhitao Huang, Xiaozhao Li, chunpin ren, Jiapeng Liu, Xingchen Wang, Jingpeng Wu, Xiangyu Zhao, Rong Zeng Paper ID: 96 High-Efficiency Thermal Management of IGCT Using Large-Scale Manifold Channel Heat Sink Yanhe Shi, Jiapeng Liu, Chunpin Ren, Xiaoyu Sun, Jiabin Wang, Fang Cai, Feng Zhou, Yu Bai, Jinpeng Wu Paper ID: 98 EFFECT OF SPACE CHARGE ON DISSIPATION OF SPOT-LIKE SURFACE CHARGE Fangwei Liang, Changhong Zhang, Weiguo Li, Weiqi Qin, Jinliang He, Chuanyang Li Paper ID: 104 Parameter Design and Reliability Verification of Component MOVs for Hybrid Commutated Converters Zhizheng Gan, Shibin Wang, Fei Liu, Liantao Liu, Jitai Li, Zongze Wang Paper ID: 113 Development Characteristics of Partial Discharge in Typical Defects of Transformer Oil-Paper Insulation at Different Temperatures Guanjun Li, Naishuo Hu, Jie Su, Congcong Chen, Chunjia Gao, Bo Qi Paper ID: 120 FIELD-STRENGTH-CONSTRAINED DESIGN AND VALIDATION OF A ±800 kV DC GIL BASIN-TYPE INSULATOR Zuodong Liang, Weijian Zhuang, Fangwei Liang, Zehao Zhang, Lingling Tang, Chuanyang Li, Jinliang He
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14:00–15:45	Paper ID: 1 Fast Inertial Response Control Strategy for Grid-Forming DFIG-Based Wind Turbine Siyang Xu, Yu Zhang, Chen Zhang, Fuwen Wang, Xu Cai Paper ID:26 Arc Suppression Strategy for Single-Phase Open-Circuit Ground Faults in Distribution Networks Zhu Li, Jinmu Lai, Jun Liang, Lianghui Dong, Shuaiqiang Jia Paper ID:27 Simulation design of transformer-less inverter for main helium blower in high temperature gas-cooled reactor Yuxi Jin, Hong Wang, Kui Wang, Yinan Geng Paper ID:34 STABILITY EVALUATION OF GFM-INDUCED LOW-FREQUENCY OSCILLATION IN GFM-GFL HYBRID HETEROGENEOUS SYSTEMS Yiye Pan, Zhixian Hou, Chen Wu, Run Huang, Yu Tang, Huisheng Gao, Huanhai Xin Paper ID:37 A THICK SILVER GATE PROCESS FOR IGCTS: SIMULATION-GUIDED DEVELOPMENT AND TURN-OFF ENHANCEMENT Hui Liu, Jinpeng Wu, Xiaoguang Wei, Yaohua Wang, Jiapeng Liu, Xiaozhao Li, Ling Li, Qianqian Jiao, Mingchao Gao, Fucheng Liu, Zhitao Huang, Guangan Yuan, Songwei Li, Yuhan Sun Paper ID:73 GRID-FORMING WIND TURBINES WITH HYBRID ENERGY STORAGE FOR FREQUENCY SUPPORT Kaijian Ou, Zimo Zhao, Ning Li Paper ID:76 Feasibility Study of Ultrasonic De-icing for Atmospheric Structures Yunlong Lv, Qin Hu, Xingliang Jiang
15:45-16:00	Refreshment Break

16:00 – 17:40, Afternoon, 12 July 2026	Location: B1 Room V (5)
General Session 3.2 New Technology	
Chairs:	Wenpeng ZHOU, Research Assistant Professor, Hong Kong University of Science and Technology 周文鹏, 研究助理教授, 香港科技大学
Co-chair:	Chunpin REN, Assistant Researcher, Tsinghua University 任春频, 助理研究员, 清华大学

14:00-16:00, Afternoon, 12 July 2026	Location: B1 RoomVI(6)
Invited Session 01 : Modelling, Control, Stability Analysis and Application of New Energy and HVDC systems	
Chairs:	Yunfeng LI, Associate Professor, Changsha University of Science and Technology 李云丰, 副教授, 长沙理工大学
Co-chair:	Xiao ZHOU, Senior Engineer, China Electric Power Research Institute 周啸, 高级工程师, 中国电力科学研究院

16:00–17:50	Paper ID:79 Partial discharge inception voltage measurement and prediction under partial vacuum and square wave voltage for twisted pairs Taoran Yang, Gang Zheng, Yizhong Zhang, Hao Wu, Ruitao Hu, Yalin Wang, Yi Yin
	Paper ID:135 Stochastic Multi-Agent Optimization for Dynamic Distribution Network Reconfiguration with EV Shared Charging Uncertainty Jie Chen, Quangzhang Liu, Tingjun Li, Hongwei Zhang, Bowen Xiao
	Paper ID:159 STEADY-STATE PARAMETER CALCULATION OF SUBMODULE CAPACITORS IN OFFSHORE WIND POWER MMC-HVDC SYSTEM Siyi Xie, Hua Li, Yang Cheng, Fuchang Lin, Qing Zhang
	Paper ID:163 Enhancing Turn-off Capability of High-Power IGCT via an Ultra-Deep and Gradual P-Base Technology Xiaozhao Li, Zhitao Huang, Wei Shang, Bin Gao, Jiapeng Liu, Jinpeng Wu, Rong Zeng
	Paper ID:178 A distribution network service restoration strategy based on transportation–power coupling and spatiotemporal dispatch of mobile power resources Ding Ma, Yajie Liu, Tao Zhang
	Paper ID:183 Enhancement of Dielectric Performance of Liquid Nitrogen through CF4 Addition for superconducting fault current limiter Zhihao Zhou, Xianhao Yue, Qingquan Qiu, Haowen Chen

14:00–15:45	Invited Talk by Associate Professor Shuang FENG, Southeast University, China Speech Title: Applications of Mechanism-Guided Data-Driven Methods to Power System Oscillations
	Invited Talk by Associate Professor Junpeng MA, Sichuan University, China Speech Title: Small-Signal Stability Analysis and Control of Multi-Converter Interconnected Systems in New Energy Bases
	Paper ID:24 DC FAULT CHARACTERISTICS ANALYSISOF DC COLLECTION AND TRANSMISSION SYSTEM BASED ON H-DCT Shihao Hu, Yunfeng Li, Zhiguang Lin, Kailong Chen, Changgeng Tian
	Paper ID:32 Research on Stability Analysis and Compensation Strategies of Grid-Forming Converters Based on Small-Signal Impedance Modelling Bin Hao, Zhitao Hu, Gang Du, Fuli Zheng, Xuerong Lu, Lu Chen, Zhihong Yang, Huaxing Ding
	Paper ID:47 A Whole-System Impedance Method for Wideband Oscillation Stability Analysis in Hybrid Multi-Infeed HVDC Systems Xingyu Han, Jing Lyu
	Paper ID:54 TRANSIENT STABILITY REGION ESTIMATION FOR GRID-FORMING WIND-THERMAL BUNDLED HYBRID AC/DC POWER SYSTEMS Jincong Chen, Jieming Liao, Yang Liu
15:45-16:00	Refreshment Break

16:00-17:40, Afternoon, 12 July 2026	Location: B1 RoomVI(6)
Invited Session 01: Modelling, Control, Stability Analysis and Application of New Energy and HVDC systems	
Chairs: Yunfeng LI, Associate Professor, Changsha University of Science and Technology 李云丰, 副教授, 长沙理工大学	
Co-chair: Xiao ZHOU, Senior Engineer, China Electric Power Research Institute 周啸, 高级工程师, 中国电力科学研究院	

16:00–17:40	Paper ID: 62 Mechanism and Mitigation Technology of Near-fundamental-frequency Oscillations in VSC-HVDC-Integrated Renewable Energy Systems Xiao Wang, Yina Ren, Tianyu Su, Xiaoyang Deng, Yamin Sun
	Paper ID:144 HIGH-FREQUENCY RESONANCE ANALYSIS AND SUPPRESSION MEASURE FOR OFFSHORE WIND MMC-HVDC SYSTEM UNDER SINGLE-LOOP VOLTAGE CONTROL Yu Zhang, Yuhang Zhang, Yunfeng Li, Shihao Hu
	Paper ID:149 Transient Stability Analysis of Grid-Connected Inverters Based on Nonlinear Decoupling Xinze Xi, Chenyang Zhang, RiSheng Qin, XinShou Tian, Shoudong Xu, JiaQing Ma
	Paper ID:196 Impedance Modeling and Oscillation Stability Analysis of a PV-Hydrogen DC Collection System With Cascaded LLC Converters Ye Zhao, Mingshen Li, Lu Qu, Zhanqing Yu, Chijie Zhuang, Xueyin Zhang
	Paper ID:207 HYBRID MMC WITH LOW PROPORTION OF FULL - BRIDGE SM AND ITS CONTROL AND OPERATION Hanxiao Zhang, Xibei Zhao, Xijia Du, Tianxiang Lei

14:00 – 16:00, Afternoon, 12 July 2026	Location: B1 RoomVII (7)
General Session 2.3 DC Technology	
Chairs: Lucheng HONG, Professor, Southeast University 洪芦诚, 教授, 东南大学	
Co-chair: Ruihang BAI, Assistant Researcher, Tsinghua University 白睿航, 助理研究员, 清华大学	

14:00–15:45	Paper ID: 129 Synergistic Effects of Acetophenone and Moisture on the DC Dielectric Properties of XLPE for HVDC Submarine Cables Kun Wang, Bo Qiao, Wei Yang, Chen Luo, Peng Chen, Xin Ai, Bingyue Yan, Xiaoyun Peng, Lisheng Zhong
	Paper ID:132 A Pattern Recognition Method for DC Partial Discharge Severity Based on Photon Detection and Feature Fusion Yixuan Zhou, Weiqi Qin, Zehao Zhang, Weiguo Li, Changhong Zhang, Chuanyang Li, Jinliang He
	Paper ID:146 Current Analysis and Fault Diagnosis of Branch Short Circuit for T-Type Modular Multilevel DC Transformer ShuJian Zhang, Dan Wang, Pengfei Tang, Shuoyu Jin, Hongyu Zhang, Chengxiong Mao
	Paper ID:151 Impulse Current Testing of MOVs Using an Impulse Current Generator for DC Circuit Breaker Applications IL KWON
	Paper ID:157 DC Surface Partial Discharge Characteristics of MVDC Wall Bushing Considering Fault Types Chanyeol Ryu, Sunmin Oh, Junyoung Park, Dong-Hun Oh, Bang-Wook Lee
	Paper ID:165 A Self-Charging Mechanical DC Circuit Breaker with Capacitive Voltage Adjustment Yao'yao Fu, Zhao Yuan, Dasen Wang, Peisong Liu
	Paper ID:174 Electromagnetic Design and Experimental Validation of a High-Power High-Frequency Transformer With an Nb-Containing Nanocrystalline Core JIALIANG HU, Bin Cui, Lei Xu, Yiqing Ma, TongJie Li, Xin Jin, Wenjun Wang, Zhe Yang, Biao Zhao

15:45-16:00	Refreshment Break
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16:00 – 17:40, Afternoon, 12 July 2026

Location: B1 RoomVII (7)

Invited Session 02

Emerging and Selected Topics in DC Technologies for New Type Power Systems Planning and Operation of Distribution Networks and Microgrids

Chairs:

Qianhao SUN, Associate Professor, Beijing Jiaotong University
孙谦浩，副教授，北京交通大学

Co-chair:

Ke Ji, Associate Professor , North China Electric Power University
季柯，副教授，华北电力大学

- 16:00–17:40

Invited Talk by Professor Gen LI, North China Electric Power University

Speech Title: Analysis and protection of valve-side SPG faults in HV and MV converter stations
- Invited Talk by Associate Professor Xibei ZHAO from North China Electric Power University

Speech Title: Integration of High Voltage Energy Storage System and MMC
- Paper ID: 70

Fixed-Mobile Charging Resource Spatiotemporal Joint Scheduling Strategy Based on Two-Phase Game Theory

Wenzhe Wang, Jie Chen, Tingjun Li, Xiaohui Yang, Quanzhang Liu, Zhikang Zhou
- Paper ID:74

Analysis of Low-Voltage Ride-Through Characteristics in Low-Output Photovoltaic Power Generation Units

Ming Zhang, Qianhao Sun, Yubin Wang, Yankun Shi, Jingliao Sun, Qiang Jin, Peng Chen
- Paper ID:116

A UNIFIED CONTROL METHOD BASED ON DYNAMIC AC/DC COUPLING FOR MULTI-TERMINAL FLEXIBLY INTERCONNECTED DISTRIBUTION NETWORKS

Meiqi Fan, Mingchao Xia, Ruofan Li, Yubin Wang, Qifang Chen, Haixin Wang, Junchao Ma
- Paper ID:127

INFLUENCE OF LOW-FREQUENCY SPEED DISTURBANCE ON CHARACTERISTICS OF PERMANENT MAGNET DIRECT-DRIVE SYNCHRONOUS WIND GENERATOR

Maben Wang, Ke Ji

14:00 – 16:00, Afternoon, 12 July 2026

Location: B1 RoomVIII(8)

Invited Session 04

Simulation tool development technique and application for large AC-DC interconnected power systems/actual projects

Chairs:

Yizheng XU, Professorate Senior Engineer, China Electric Power Research Institute
徐翌征，教高，中国电力科学研究院

- 14:00–15:45

Invited Talk by Yutong YANG, Shandong University

Speech title: Multi-terminal HVDC modelling based on STEPS
- Paper ID:69

A Batch EMT-Based Impedance Scanning Framework for Large AC-DC Power Systems Using High-Performance Computing

Yuan Miao, Xing Zhang, Qiang Guo, Pengfei Tian, Zhuang Li, Qing Mu
- Paper ID:78

A Practical Mitigation Method for Voltage Spike Phenomena in PSSE Simulation of Inverter-Based Resources

YANGBIN ZHENG, XIA MENG
- Paper ID:93

A REVIEW ON ELECTROMAGNETIC TRANSIENT SIMULATION OF VOLTAGE SOURCE CONVERTERS

Chenxu Wang, Yalou Li, Xin Zhou, Yuan Miao, Pengfei Tian, Qing Mu, Xing Zhang, Yu Cheng
- Paper ID:190

AN AUTOMATED ELECTROMAGNETIC TRANSIENT MODELLING METHOD FOR LARGE-SCALE POWER GRIDS BASED ON THE ADPSS API

Xiaohua Yang, Yong Li, Changgang Li, Jiongcheng Yan, Juntong Ji, Yan Luo, Yutong Yang
- Paper ID:220

A Component-Level Integrated Circuit Modeling and Simulation Method for FPGA Implementation

Qi Guo

15:45-16:00

Refreshment Break

16:00 – 17:40, Afternoon, 12 July 2026	Location: B1 RoomVIII(8)
Invited Session 03 Key Technologies and Development of Novel Equipment for the Transmission of Far-Offshore Wind Power Clusters Chairs: Sui PENG, Leading Technical Expert and Senior Engineer of CSG, Guangdong Power Grid Company 彭穗，南方电网领军技术专家、高级工程师，广东电网公司 Co-chair: Jian WANG, Professor, North China Electric Power University 王健，教授，华北电力大学	

16:00–17:40	Invited Talk by Junjie FENG, State Key Laboratory of HVDC, Electric Power Research Institute, China Southern Power Grid (CSG) Speech Title: Planning and Practice of Large-scale Offshore Wind Transmission in China Southern Power Grid Paper ID: 31 ANALYSIS OF INSULATION ELECTRIC FIELD CHARACTERISTICS OF PRESS-PACK IGBT FOR CONVERTER VALVE OF FAR-OFFSHORE WIND POWER CLUSTERS TRANSMISSION Sheng Zhang, Xianfeng Li, Tongke Si Paper ID:41 Transient Electric Field Distribution in the Packaging Insulation Structure of a High-Voltage Diode Under Turn-Off Conditions Xianfeng li, Sheng Zhang Paper ID:48 Capacity Configuration of Sea–Land Coordinated VSC-HVDC Transmission System for Offshore Wind with Power-to-Hydrogen Integration Mengshu Zhu, Sui Peng, Yanfeng Wang, Feng Li, Shida Sun, Yufeng Tang, Yang Wu Paper ID:63 ADAPTIVE INERTIA-DAMPING COORDINATED CONTROL STRATEGY FOR GRID-FORMING CONVERTERS FACING STRONG POWER FLUCTUATIONS OF OFFSHORE WIND POWER IN DEEP AND FAR SEAS Peng Liang, Jiahua Wang, Hongbing Li, Jianqi Yu, Pengju Ye, Gui Chen, Yichen Zhou, Qiyang Zhao Paper ID:185 Optimal Filter Design Method for Offshore DR-HVDC System Based on Minimization of Filtering Current Sui Peng, Feng Li, Yufeng Tang, Yanfeng Wang, Wenhao Zhang, Yunfei Wang, Qiang Song
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14:00 – 16:00, Afternoon, 12 July 2026	Location: B1 RoomIX(9)
Invited Session 05 Energy Digitalization and Information Processing Mechanism for Battery Management in Dynamic Reconfigurable Battery Network Chairs: Song CI, Professor, Tsinghua University 慈松，研究员，清华大学 Co-chair: Yanglin ZHOU, Assistant researcher , Tsinghua University 周杨林，助理研究员，清华大学 Co-chair: Yushu SUN, Associate researcher , Chinese Academy of Sciences and University of Chinese Academy of Sciences 孙玉树，副研究员，中国科学院大学	

14:00–15:45	Invited Talk by Professor Jinhao MENG, Xi’an Jiaotong University, China Speech title: Battery Management in Dynamic Reconfigurable Battery Networks Paper ID: 67 Mixed-Integer Programming for Voltage Regulation and SOC Balancing in Dynamic Reconfigurable Battery Network ziyi xiong, Yanglin Zhou, Ci Song, Chengjie Zhang, Yue Su Paper ID:68 Optimal Control of Dynamical Reconfigurable Battery Network via an Improved Proxy Policy Optimization Algorithm ziyi xiong, Yanglin Zhou, Ci Song, Chengjie Zhang Paper ID:81 An Attention-LSTM Method for Joint Estimation of Battery SOC and SOH in DRBN Xuan Zhong, Ence Hou, Yanglin Zhou, Chengjie Zhang, Song Ci Paper ID:102 LOW-FREQUENCY OSCILLATION IDENTIFICATION AND SUPPRESSION IN ELECTROCHEMICAL ENERGY STORAGE STATIONS CONSIDERING DYNAMIC RECONFIGURABLE BATTERY-NETWORK STATE INPUTS Jingzhe Wang, Naiwen Zhang
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15:45–16:00	Refreshment Break
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16:00 – 17:40, Afternoon, 12 July 2026

Location: B1 RoomIX(9)

Invited Session 09

From Point-to-Point VSC-DC to Intelligent DC Grids: Evolution and Future Architecture

Chairs: Lidong ZHANG, Professor, Shandong University

张利东, 教授, 山东大学

Co-chair: Kaiqi SUN, Professor, Shandong University

Huangqing XIAO, Associate Professor, South China University of Technology

孙凯祺, 教授, 山东大学

肖晃庆, 副教授, 华南理工大学

14:00 – 16:00, Afternoon, 12 July 2026

Location: B1 Room X (10)

Invited Session 07

Key technologies and applications for reliability enhancement of power transmission lines and equipment

Chairs: Zerui LI, Associate Professor, Sichuan University

李泽瑞, 副研究员, 四川大学

Co-chair: Xiaoxiao KONG, Associate Professor, Sichuan University

Pengfei MENG, Associate Professor, Sichuan University

孔晓晓, 副研究员, 四川大学

孟鹏飞, 副教授, 四川大学

16:00–17:40

Invited Talk by Dr. Lei Liu, NARI Relays Electric Co., Ltd, China

Speech Title: Key Technologies of VSC-HVDC Valves Supporting Large-Scale Renewable Energy Development

Invited Talk by Professor Pengfei HU, Zhejiang University, China

Speech Title: Impedance Measurement Methods and Stability Analysis Based on Virtual Disturbance for Converters

Invited Talk by Dr.Jing WEN, Beijing Sifang Electrical Equipment Co., Ltd., China

Speech Title: On the Application of Grid-Forming Control in VSC-HVDC Transmission Projects

Invited Talk by Wenze LU (Dr. Ke JI), North China Electric Power University, China

Speech Title: Application of HVDC Direct-mounted Energy Storage in Flexible DC Systems

Paper ID: 75

INCREMENTAL LIFE CYCLE COST MODEL OF VSC-DC DISTRIBUTION NETWORK FOR ECONOMIC EVALUATION

Yuyang Yuan, Ge Cao, Mingyang Li, Xin Li, Xiao Liu, Chunming Liu, Wenbin Ci, Kaiqi Sun

Paper ID:147

Impact of data quality in AC/DC distribution networks on renewable energy integration: A switch-based scenario analysis

Jiahui Ren, Yujie Zhao, Wenbin Ci, Xin Li, Xiao Liu, Chunming Liu, Kaiqi Sun

14:00–15:45

Invited Talk by Jin LI, Distinguished Associate Professor, School of Electrical and Information Engineering, Tianjin University China

Speech Title: Interfacial Residual Stress in GIL Tri-post Insulators: Modelling and Detection

Paper ID:84

Effect of metal vapor and residual plasma density on the post-arc dielectric recovery process of vacuum circuit breaker

Xinshu Guan, Yuxin You, Yongpeng Mo, Zongqian Shi

Paper ID:94

INSULATION DEGRADATION SUPPRESSION FOR ARAMID FIBER/EPOXY COMPOSITES UNDER COMBINED ELECTRICAL AND TENSILE STRESS

Ge Zhang, Xiaoxiao Kong, Yijun Du, Chengyao Hou, Xu Wang, Yun Chen, Yifang Wang, Boxue Du

Paper ID:139

GEOMETRIC OPTIMISATION OF METAL INSERTS IN HVDC TRI-POST INSULATORS

Zhihui Cheng, Bin Zhou, Jie Wang, Geng Chen, Chuanyang Li, Youping Tu

15:45–16:00

Refreshment Break

16:00 – 17:40, Afternoon, 12 July 2026

Location: B1 Room X (10)

Invited Session 07 continue

Key technologies and applications for reliability enhancement of power transmission lines and equipment

Chairs:

Zerui LI, Associate Professor, Sichuan University

李泽瑞, 副研究员, 四川大学

Co-chair:

Xiaoxiao KONG, Associate Professor, Sichuan University

Pengfei MENG, Associate Professor, Sichuan University

孔晓晓, 副研究员, 四川大学

孟鹏飞, 副教授, 四川大学

16:00–17:40	Paper ID:164 STRUCTURAL OPTIMIZATION OF GIL FOR ELECTROMAGNETIC RESONANCE MITIGATION BASED ON RBF-ISRES Dongkun Jiang, Xu Zhang, Zhen Xu, Chaohai Zhang Paper ID:188 Insulation Performance Enhancement of Transformer Oil Filtered by Two-Step Superhydrophobic Modified Membranes Tao Lin, Ruomei He, Jianhua He, Mingwei Zheng, Yunxiao Zhang Paper ID:202 FEASIBILITY STUDY OF SPACE CHARGE MEASUREMENT BASED ON A FULLY OPTICALLY ISOLATED ELLIPSOMETRY MEASUREMENT SYSTEM FOR ELECTRICAL INSULATION Hanwen Ren, Jianting Song, Shixin Hu, Biao Han, Guorong Bian, Tianrun Qi, Zhiyun Han, Liang Zou
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Poster Presentation			
All day display, B1 Foyer, 11-12 July 2026			
Paper ID	Title	Authors	Session
003	Analysis of Lightning Current Division between Transmission Tower and Ground Wire in UHVDC Lines Based on Numerical Simulation	Shizeng Liu, Tongbo He, Chenkai Zhang, Wenbin Yu, Yidi Yuan, weisong	AC Grid Technology
004	Detection and Analysis of Flooded Towers in the Dongdian Flood Storage and Detention Zone	Qingfeng Wen, Wei Wang, Wei Guo, Xue Li, Chenxi Zhou, Wuxing Li, Yangming Wang, Yibo Wu, Fang Ye	New Technology
005	Simulation Analysis of Low-Voltage Ride-Through Characteristics for Low-Output Permanent Magnet Direct-Drive Wind Turbine	Yankun Shi, Qianhao Sun, Chenxu Wang, Junchao Ma, Wen Hua, Yan Peng, Mingchao Xia	New Technology
006	Overload Characteristics and Boundary Evaluation of Static Active Voltage Support Devices	Qian Chen, Xiaoyi Duan, Feng Xu, Yilu, Peng Qiu, Sihang Wu	AC Grid Technology
007	Research on an Online Icing Monitoring Method for Transmission Lines Based on Induced Current in De-icing Ground Wire	Peng YANG, Fenglin DENG, An WANG, Jing PAN, Yuan FANG	AC Grid Technology
008	Analysis of the Inapplicability of Conventional Reactive Power Control for LCC-HVDC Online Power Reversal Considering Asymmetric Operation	Hang Liu, Fangqun Liao, Ying Xue, Chi Zhang, Meng Chen, Yirou Xiong	DC Grid Technology
009	Polyetherimide/4-methoxybenzonitrile all-organic composite dielectrics for high-temperature capacitive energy storage	Xinyu Wang, Conzhen Xie, Chunhui Bi, Qingyu Wang, Rui Wang	New Technology
010	Steady-state Parameter Selection Method of SVG Connected inductance Based on SLCC DC Transmission system	wang ling, wu fangjie, Xu ying, shen xiaolin, hao zhiyuan, liang chenguang	Special session 01
011	Research on Transient Overvoltage Mitigation Technology of UHV Capacitor Voltage Transformer	Xuan Li, Yong Liu, Lin Cheng, Songyuan Liu, Han Li	AC Grid Technology
012	Assessment and Enhancement Strategy for DC Power Carrying Capacity Based on Voltage Stability in DC-fed Receiving-end Power Grid	Ling Xu, Le Zhao, Keheng Lou, Guoteng Wang, Ying Huang	DC Grid Technology
014	Intelligent Assessment Of Battery Energy Storage Regulation Capability Based On Deep Reinforcement Learning	Bian Jing, Jingbo Shao, Meng Niu, Mingyang Liu, Yating Liu	New Technology

Paper ID	Title	Authors	Session
016	Automatically Controlled Railway Signal Equipment Using Artificial Intelligence and Internet of Things	Jian Nie, Qing Shi, Minglong zhang	New Technology
017	Study on Icing Warning Method for UHV AC Transmission Line Crossing Sections	Peng YANG, Fenglin DENG, An WANG, Jing PAN, Yuan FANG	AC Grid Technology
018	Research On Energy Storage Optimization And Energy Dispatch In Industrial Parks Based On Genetic Algorithms	Yuxi Wang, Zhenglun Chen, Qingbin Wang, Yun Yang, Xianzhong Zhao, Boming Deng	DC Grid Technology
019	Fault Identification Method for DRU-based Offshore DC Transmission Lines	Zhengyi An, Guibin Zou	Special session 03
020	Research on Pollution Voltage Withstand Characteristics of Outer Encapsulation of Dry-type Air-core Reactor	Jing Nan, Jie Liu, Congqi Yin, Xuelin Li, Xiaodong Wan, Feng Huo	DC Grid Technology
021	Analysis of valve arrester operation during the commissioning process of a certain HVDC project	ZHIYUAN HAO	DC Grid Technology
023	A Protection Method for All-DC Collection Network of Far-offshore Wind Power Farm Based on Parameter Estimation	Fan Zhang, Guibin Zou, Kaiqi Sheng, Zhengyi An, Shuo Zhang	Special session 03
025	The simulation study of active power fliter for transformer excitation current	wang ling, hao zhiyuan, xu ying, chang yiran, gao zijian	Special session 01
028	DC Bias Mitigation Strategy for Hybrid Transformer with Integrated Multifunctional Converter	Zijian Wu, Jinmu Lai, Zhen Li, Jiaxuan Hu, Xin Yin	New Technology
029	Study on Characteristic Index of Pressure Influence of Different Umbrella Structure Insulators at High Altitude	Jing Nan, Xiaodong Wan, Feng Huo, Xuelin Li	AC Grid Technology
030	Temperature Shock Simulation Method For Power Modules	Huaxing Ding, Zhitao Hu, Guangmao Li, Chen Yang, Jian Liu, Erping Deng, Bin Hao	New Technology
039	Study on Mode Analysis and Fault diagnosis Methods for Open-Circuit Fault in Bipolar Single Active Bridge DCDC Converter	Shuo Guan, Chao Leng	DC Grid Technology
044	Operation Stability Characteristics Analysis and Distributed Voltage Coordinated Control Strategy for Large-Scale New Energy Sending-End Power Grid	Jinning Zhang, Wangqianyun Tang, Guoteng Wang, Ying Huang, Ziqian Yang, Yan Li	DC Grid Technology

Paper ID	Title	Authors	Session
045	Transient Oscillation Suppression Strategy of IDCPFC in Urban DC transmission System: Dynamic Partition and Traditional Passive Damping Configuration	Yurui Zhou, Pengfeng Lin, Miao Zhu, Hongyi Zhang, Zhiqi Jin, Xuejun Xiong	DC Grid Technology
046	Impedance Measurement Method for Converters under Arbitrary Power Factor Based on Control-Side Perturbation Injection	Wei Wang, Yanxia Sun, Feng Tan, Zhuo Yu	New Technology
049	Framework Of Autonomous Hvac-Dc Grid Modelling And Simulation Approach To System-Level Emt Simulation	Yizheng Xu, Xujiang Chen, Qing Mu, Pengfei Tian	Special session 04
052	Raman-Ratio Enhancement and Neural Demodulation for Distributed Temperature Monitoring in Submarine Power Cables	Zhe Chen, Xingxing Zhou, Taifeng Fang, Fei Liu, Yiming Tu, Lv Cui	DC Grid Technology
053	Demonstration Application of Flexible DC Transmission System Based On 6.5kV Domestic IGBT Devices	Xiaochen Huai, Bojin Tang, Yuxuan Diao, Zhuoyang Tang, Jinshi Wang, Bin Cui, Changyue Zou, Biao Zhao, Rong Zeng, Xiangrong Li, Kefan Yu	DC Grid Technology
055	Research on New Natural Commutation Technology Based on Fault Current Self-Excited Magnetic Arc Blow-out	Wuqi Han, Zhizheng Gan, Ruolin Wang, Xuanyu Zhu, Tianchu Li, Bowen Zhang	DC Grid Technology
056	Simulation Study on Spatial Electric Field Distortion Characteristics of Zero-Value Defects in $\pm 1100\text{kV}$ DC Transmission Line Insulator Strings	Yaoqin Li, Feng Huo, Jing Nan, Qin Liu, Liang Xie, Xiaodong Wan	AC Grid Technology
057	Design of a High Capture Rate Particle Trap for DC GIL	Weiguo Li, Xuexue Nie, Changhong Zhang, Mingyang Li, Xu Yang	DC Grid Technology
058	ADC Real-Time Testing Based on Simulation Mirror System	Kaijian Ou	DC Grid Technology
059	Predictive Control Strategy For Commutation Failure Based On Hybrid Converter Characteristics	Xingning Han, Zhuyi Peng, Shan Song, Jiayi Ren	DC Grid Technology
060	Multi-Scale Failure Mechanisms and Reliability Enhancement Strategies for SiC Power MOSFETs	luyao chen, zhengyun zhu, zhaoyuan gu, mingyang gao	Special session 01
064	Improving Domirank's Data-Driven Identification Of Vulnerable Lines By Accounting For New Energy Sources	Yueyue Dai, Lijuan Li, Fengzhao Tian, Hongchang Zheng	New Technology
066	Methods for locating and addressing DC grounding faults in the low-voltage DC systems of converter stations	Xianrun Liang, Qiang Zhang	DC Grid Technology

Paper ID	Title	Authors	Session
072	Research on Lightning Current Distribution Characteristics in Ground Wire and Tower under the Grounding Method of Being Sectionally Insulated with Single Grounding Point	Shizeng Liu, Huangyu Lin, Tongbo He, Chenkai Zhang, Wenbin Yu, Yidi Yuan, Yuyan Xu, Bo Zhang	AC Grid Technology
077	Evaluation and Temporal Tracking of Insulator Ice Accretion Based on Zero-Shot Learning and Semantic Segmentation	Xinzhe Yu, Zhanxin Wang, Yu Deng, Yueneng Xu, Zhen'an Zhou, Chen Gu, Kun Zhang	New Technology
082	Performance Evaluation and Experimental Study of Distributed Photovoltaic Grid-Connected Inverters Based on a Local Rapid Testing Platform	Haidong Yu, Yang Liu, Lisheng Li, Feng Wang, Min Huang, Wenbin Liu	AC Grid Technology
083	Design of Transmission Scheme for the Medium-Voltage Shunt Vacuum Switchgear Using Scott-Russell Mechanism	Yuxin You, Xinshu Guan, Yongpeng Mo, Dongxing Wei, Yiwei Chen, Zongqian Shi	New Technology
086	Solution Strategies for Magnetohydrodynamic Modeling of Arc Plasma in High-Current High-Voltage Circuit Breakers	Shuaibing Wang, Wei Luo, Jiangang Ding, Zaixing Peng, Wei Zhang, Zeyuan Luo	AC Grid Technology
088	Study on intrinsic parameter tuning of tunnel-type magnetoresistance weak magnetic field sensor device	Zhipeng Gu, Ran Bi, Yang Wang, Jinglin Yang, Zhongshan Hu, Shilin Wu, Jun Hu	New Technology
089	Core Geometry and Winding Optimisation of a Compact Non-Intrusive Magnetic Energy Harvester under Volume Constraints	Zhongshan Hu, Weiyi Ye, Yang Wang, Jinglin Yang, Xiaoliang Zhuang, Shilin Wu, Jun Hu	New Technology
090	Study on the Life Assessment of Filter Circuit Breakers Based on Dynamic Contact Resistance and Fuzzy Comprehensive Evaluation	Jiayi Wang, Xinyu Luo, Zuozen Hu, Xinyang Song, Shanshan Lv, Shixin Xiu	DC Grid Technology
091	A DC Circuit Breaker with Multi-Excitation Source Amplified Oscillation Commutation	Hang Zhang, Yilin Li, Zhiwei Zhai, Xiaomin Zhao, Linying Cheng, Hang Zhou, Jianwu Zou	DC Grid Technology
097	State-Corrected Hazard Assessment of VF-TO-Induced Switching Flashover in In-Service 500-kV GIS	Chao Dong, Liangliang Nie	AC Grid Technology
099	Nonlinear Fragility and Catastrophic Threshold Modeling of Renewable-Integrated Grids Under Extreme Weather	Liang ang, Gongwei Xi, Ziqi Liu, Yi Cheng, Zongsheng Zheng, Hanqing Gao, Huaqing Dai, Qi Zeng	AC Grid Technology

Paper ID	Title	Authors	Session
100	Statistical analysis and difference study of lightning feature parameters in dense channels based on wide-area lightning monitoring system	Chun Zhao, Wen Hu, Biwu Yan	AC Grid Technology
101	Design and Verification of High-Speed Network Communication Based Fast Overcurrent Protection for HVDC Transformer Valve Control	Yingcai Gong, Jiafei Li, Zihan Zhu, Qichen Li, Jiaxin Wang	DC Grid Technology
103	Analysis of Current Limiting Effects on Capacitor Voltage Ripple in MMCs During Receiving-End AC Faults	Yirun Ji, Yu Li, Zixuan Zhang, Bin Huang, Qiang Song, Qing Huai, Yi Lu, Yanfeng Gao, Minxiang Yang, Ziyao Jie	DC Grid Technology
105	Impact of Varying Aging Degrees on the Electric Field Intensity of Oil-Paper Insulation in Converter Transformers	Yikun Zhao, Xiang Wang, Ke Wang, Xiaolin Zhao, Fei Gao, Hongru Yu	DC Grid Technology
107	A Dual-Signal Collaborative Identification Method for Partial Discharge in HVDC GIS Based on a Dual-Input Convolutional Neural Network	Hongyuan Ren, Jie Li, Chengfeng Lin, Chenhao Jia, Xingwen Li, Boya Zhang	DC Grid Technology
108	Effect of High-Temperature Electrical Insulation Properties of Epoxy Resin via the Introduction of Fluorene Groups	Jie Li, Hongyuan Ren, Chengfeng Lin, Chenhao Jia, Xingwen Li, Boya Zhang	DC Grid Technology
109	Simulation Study on the Reaction Kinetics of Greenhouse Gas SF6 Degradation via Thermal Plasma in an Oxygen Environment	Fuping Deng, Yeqin Chen, Feng Xue, Binghua Zhou, Zhengyong Hu, Liang Yue, Fu Rong	New Technology
110	AHP-Based Accuracy Evaluation Method for Intelligent Diagnostic Models of Power Transformers	Hanlin Li, Chengtu Ma, Yu Yang, Haoxuan Zhang, Mingcheng Hua, Chun-jia Gao, Bo Qi	DC Grid Technology
111	Oscillation analysis of an SLCC-Connected system based on system impedance phase	Wenxuan Lv, Chenqing Wang, Zhihan Liu, Hao Mo, Dongbin Lu, Zhiwei Wang	DC Grid Technology
112	Cross-Scale Rapid Assembly Technology for Geometric Models of Transformer	Yu Yang, Kai Yan, Mingcheng Hua, Chunjia Gao, Bo Qi	DC Grid Technology
114	Event-Triggered Frequency-Voltage Control for DRU-HVDC Systems with GFM ESS	Peiwen Yao, Yao Wang, Jianyu Zhou	Special session 01

Paper ID	Title	Authors	Session
115	Relationship between Galloping Parameters and Features of the Induced signals in the Ground Wires	Xiankang Wang	AC Grid Technology
117	High-Efficiency Electromagnetic Transient Modelling and Hardware-in-Loop Simulation of Modular Multilevel Converters Based on Hybrid Numerical Integration	Yan Jun, Feng Nan, Feng Yuyao, Cui Kangsheng, Pan Aiqiang, Guo Qiang, Zhang Yufan, Tan Zhendong, Song Yankan	DC Grid Technology
118	Research on the Realization of High Spatial Accuracy Lateral Localized Electron Irradiation Process for IGCT Devices	Guangan Yuan, Yaohua Wang, Jlapeng Liu, Xiaoguang Wei, Mingchao Gao, Su Yan, Songwei Li, Hui Liu, Rong Zeng, Jinpeng Wu	New Technology
119	Research and Development of ± 800 kV DC GIL Three-Legged Insulators	Zuodong Liang, Zehao Zhang, Weiqi Qin, Lu Liu, Chuanyang Li, Jinliang He	DC Grid Technology
122	Research on Improved Multimode Model Predictive Control Strategy for M3C	Ziming Li, Xiaojun Ni, Yanxia Yao, Jiachuan You, Zhengxiao Zhang, Fujun Ma, Zhenyang Zhang	New Technology
123	Low Temperature DC Breakdown Characteristics of SF6 under Uniform Electric Field	Zihan Xu, Shenxing Gao, Tianqi Cao, Tianshuo Yang, Jie Wang, Geng Chen, Cong Wang, Youping Tu	Special session 07
124	DC and Lightning Impulse Breakdown Characteristics of SF6/N2 Gas Mixtures for DC GIL Applications	Ziwan Li, Shuo Zhao, Zihan Xu, Geng Chen, Cong Wang, Youping Tu	Special session 07
125	Effect of Electrode Surface Roughness on DC and Lightning Impulse Breakdown of SF6	Tianshuo Yang, Shuo Zhao, Zihan Xu, Geng Chen, Cong Wang, Youping Tu	Special session 07
128	Research on Topology and Fault Ride-Through Strategies of Diode Series Boost-Type Offshore Wind Power Systems	Yuefeng Yang, Xue Bai, Fan Zhang, Jiajun Li, Gaopeng Guo, Xin Chen	New Technology
130	Parameter Estimation for Photovoltaic DC-link Capacitors based on Power System Fault Transients	Runde Tong, Xue Su, Kang Yue, Binglin Wang, Yu Liu	New Technology
131	Measurement Method For Internal Current Distribution In Large-Size Whole-Wafer IGCT Devices	Songwei Li, Jinpeng Wu, Xiaoguang Wei, Yaohua Wang, Guangan Yuan, Xiaozhao Li, Mingchao Gao, Hui Liu, Rong zeng, Jiapeng Liu	New Technology
133	Future Development Trends of Renewable Energy in China Facing the Goals of Carbon Peak and Carbon Neutrality	He Chen, Xiaodong Zhao, Yinfei Wang, Wei Hu, Na Li	New Technology

Paper ID	Title	Authors	Session
134	Capture Mechanism of Particle Trap in High-voltage DC GIL	Weijian Zhuang, Zehao Zhang, Lu Liu, Lingling Tang, Weiqi Qin, Chuanyang Li, Jinliang He	DC Grid Technology
136	Research on Linearized Steady-Transient Parallel Configuration Voltage Clamping Control Strategy for Renewable Energy VSC-HVDC System	Jinning Zhang, Guoteng Wang, Yan Li, Ying Huang, Ziqian Yang, Wangqianyun Tang	DC Grid Technology
137	Analysis of Static Induction Impact and Mitigation for AC/DC Shared-Tower Configurations	Guangxin Duan, Wenjia Zhang, Wentao Sun, Hui Cai, Xu Wang, Dongbin Lu, Yan Tao, Ruisheng Diao	DC Grid Technology
138	Research on Topology Design and Power Quality Characteristics of High Power Rectifier Based on IGCT	Xiulan Liu, Qian Zhang, Peifei Wu, Yanping Du	New Technology
140	A Simulation Method for Rime Ice Accretion on Conductors Considering Particle Size Effect of Electrostatic Dielectrophoretic Force	Youlong Yin, Yiyang Ding, Yang Cheng, Wangling He	New Technology
141	A Platform Design for IGCT Junction Temperature Detection	Xinyang Liu, Dongye Du, Guohua Zhang, Junchao Zheng, Ming Gao, Fucheng Liu, Hongfan Zhu, Jiapeng Liu, Chunpin Ren, Jinpeng Wu	New Technology
143	Equivalent Test Method for DC-Side Faults Based on MMC Converters in Offshore Wind Power	ZhiGuo He, Yijun Song, Yang Feng, Yunfan Ji	DC Grid Technology
145	Shell-Type Transformers Short-Circuit Withstand Capability Evaluation Methodology Based on Finite Element Method	Wenhao Liang, Yanjun Ma, Wenxing Sun, Dongmei Yang, Xiaoming Chen, Jiahui zhang, She Chen	Special session 07
148	Transmission Expansion Practice of the AC/DC Hybrid Power Grid in Jiangsu Province	Zhiwei Wang, Jian Ling, Xu Wang, Ruisheng Diao, Xiaodong Liu, Xianmeng Zhang	DC Grid Technology
150	A DC Series-Connected Offshore Wind Farm Topology with Voltage Balancing and Fault Isolation Capability	XINGXING ZHOU, ZHE CHEN, YIMING TU, ZHE WANG, FEI LIU	DC Grid Technology
154	Transient Electric Shock Characteristics of the Human Body Induced by Contact with Metal Objects under UHV AC Transmission Lines	Haosheng Dai, Weifang Yao, Fangmin Liu, Xueying Hua, Jian Chen, Jizhong Xi, Jing Yu, Chao Ji, Wangling He	AC Grid Technology

Paper ID	Title	Authors	Session
155	Surface Charge Accumulation Characteristics of Scaled-Down Insulators in Proportion	Fangwei Liang, Lingling Tang, Lu Liu, Changhong Zhang, Weiguo Li, Weiqi Qin, Jinliang He, Chuanyang Li	DC Grid Technology
158	Analysis on Influence of Vacuum Arc on Current Transfer of Natural Commutation Hybrid DC Circuit Breaker	Kai Liu, Zulei Li, Mingkuan Wu, Wengang Xie, Yusong Zhao, Hongxu Bai	DC Grid Technology
160	Motion Mechanism of Metallic Particle in High-voltage DC GIL	Weijian Zhuang, Yixuan Zhou, Lingling Tang, Lu Liu, Weiqi Qin, Chuanyang Li, Jinliang He	DC Grid Technology
161	Partial Discharge and Environmental Noise Identification under DAS-Based Distributed Acoustic Sensing	Weiqi Qin, Yixuan Zhou, Hao Liu, Weiguo Li, Changhong Zhang, Chuanyang Li, Jinliang He	DC Grid Technology
162	Simulation Study on Space Charge Transport and Electric Field Distortion of Nanomodified Epoxy Insulation Under Low Pressure in Near Space	Xiaowei Du, Guoning Xu, Zhongzhen Jia, Yongxiang Li, Tingshuang Huang	New Technology
166	Simulation Analysis of Gate Oxide Reliability of 6.5kV IGBT Chip Under Gate Voltage Biases.	Junyu Wang, Yumeng Cai, Danyang Li, Zhaoyuan Qi, Xuebao Li, Yushan Zhao	New Technology
167	Effect of Local Air-Gap Size on Electric-Field Distortion at a Rough Stress-Grading Shield–Epoxy Interface	Qingchuan Xu, Shengfu Zhang, Ting Jiao, Qiang Xu, Yongfei Jun, Yiwei Yang	Special session 07
169	Development of a three-level high-capacity photovoltaic DC/DC converter	Hailiang Hao, Hongbin Wang, Chao Jin, Li Zhang, Wengang Xie, Zhongjian Song	DC Grid Technology
170	AC/DC Transmission Section Dispatch Strategy Considering the Comprehensive Characteristics of Renewable Energy and Load	Yaochen Yu, Jiatong Xu, Hui Cai, Han Cui, Wentao Sun, Zhiwei Wang	New Technology
171	Research on Key Technologies of a Large-Capacity DC Transformer	weilong lin, chengzhu liu, di han, yechao wang, wengang xie, yusong zhao	DC Grid Technology
173	Transient Characteristic Analysis and Protection Strategy for Phase-to-Phase Short-Circuit Fault in AC/DC Hybrid Microgrid Based on IGCT	Bin Zhao	New Technology

Paper ID	Title	Authors	Session
175	Research on Short-Circuit Voltage Support Characteristics of Wind Farm Based on Grid-Forming Energy Storage Capacity	Zechen Wang, Yulong Che, Run Han, Yajun Wang	DC Grid Technology
176	Study on Discharge Voltage Correction of Substation Air Gaps at Altitudes Above 4000m	Mingxun Zhang, Chaochao Yang, Jianghai Geng, Xiaoxu Ma, Yujian Ding	AC Grid Technology
177	Design and Optimization of Bevel Termination for Epitaxy-based IGCT Device	Jingsong Zhou, Xiaozhao Li, Junming Zhang, Ruilang Ji, Qinghuan Shi, Jiapeng Liu, Jinpeng Wu, Xiaoguang Wei, Rong Zeng	New Technology
179	Experimental Study on Bird Droppings Flashover Characteristics of Qinghai High-Altitude Transmission Lines	Shengcheng Dong, Ling Jiang, Xiaofeng Wang, Xudong Ma, Wenhua Zhao, Yansen Li, Ruiqian Zhang, Yujian Ding	DC Grid Technology
180	Spatiotemporal Characteristics of Bird-Related Faults and Physicochemical Properties of Bird Droppings in High-Altitude Transmission Lines in Qinghai	Ling Jiang, Shengfu Wang, Yitao Zhang, Chenglei Zhang, Di Liao, Yansen Li, Ruiqian Zhang, Yujian Ding	AC Grid Technology
181	Current Differential Protection Mitigating Line Frequency Dependency Features for T-Type MMC-HVDC Lines	Zhenwei Cai, Tonghua Wu, Yincheng Wang, Zhiquan Liu, Yu Liu	DC Grid Technology
182	PINN-Inspired Surrogate model for Rapid Battery Voltage Prediction in AC/DC Grids	Fangyuan Kong, Jawad Ali, Songtao Liu, Weiji Han	New Technology
184	Comparative Analysis of Electric Field Distribution in Defective 110kV Cross-Linked Polyethylene and Polypropylene Cables Using Numerical Simulation	Sicheng Zhao, Junchao Feng, Zhiheng Li, Wu Lu	New Technology
187	Inertia Coordination Control of Offshore Wind Farm Multiterminal HVDC Transmission	Feng Li, Sui Peng, Yufeng Tang, Shida Sun, Yang Wu, Zixuan Zhang, Qiang Song	Special session 03
191	Design of High Voltage High Power Modular Multilevel Converter Based on 6-inch 6.5kV IGCT Devices	Jiaqi Wu, Jianxiang Xie, Yuxuan Diao, Zihan Xie, Jingyi Li, Zhuoyang Tang, Hao Lu, Kefan Yu	DC Grid Technology
192	A Protection Method for Fast-Recovery Diodes in IGCT-MMC Submodules Based on Auxiliary Switching	Jiajun Ou, Jingyi Li, Yuxuan Diao, Zhichao Fu, Jiaqi Wu, Zhuoyang Tang, Peijie Cong, Kefan Yu	DC Grid Technology

Paper ID	Title	Authors	Session
193	Effect of Cobalt Content in In-Situ Repair Media on the Performance of ZnO Varistors Based on Multiphysics Coupled Simulation	Qizhe Li, Xinya Zeng, Ziyan Chen, Yuqing Wang, Qingsong Yan, Zhibo Quan, Pengfei Meng	New Technology
194	Grid-Forming Control and Simulation Analysis of a Modular Commutated Converter Based on Virtual Synchronous Generator	Zhichao Fu, Xufan Yang, Shihua He, Binbin Xu, Di Cai, Pengzhong Wang, Feixiang Liu, Bin Cui	DC Grid Technology
195	Topology and Control Strategy of DR-MMC-Based Series DC Transmission System with Black-Start Capability	Zihan Xie, Yucheng Zou, Hao Lu, Jianxiang Xie, Weiyu Zou, Kefan Yu, Shihua He, Bin Cui	DC Grid Technology
197	Electric Field Regulation in 25 kV High-Speed Railway Cable Terminations Using Nonlinear Composites	Zhuolin Jiang, Dongjun Yang, Zhikang Yuan	New Technology
199	Stability Analysis of an All-DC Offshore Wind Farm Based on Impedance Theory	Pengcheng Liu, Shijie Zhang, Jianwu Wang, He Zhu, Zhang Li, Weihan Hao	DC Grid Technology
200	High-Capacity Medium-Voltage DC Wind Turbine Converter Based on IGCT-Plus	Pengcheng Liu, Jinpei Duan, Shijie Zhang, Jianwu Wang, Han Luo, Zhang Li, Weihan Hao	DC Grid Technology
201	Influence of Grounding Methods on FRT Capability of HVDC Wind Farm	Pengcheng Gu, Zemin Li, Jun Xiang, Jianwu Wang, Yuebin Wang, Zhenning Zi, Weihan Hao, Zhaohui Su	New Technology
203	Thyristor-Clamped AC Voltage-Based Hybrid Modular Multilevel Converters for DC Fault Current Clearing	Tingshu Zhu, Xiongfeng Fang, Ning Li, Lei Li	DC Grid Technology
204	Optimal Placement of Ultrasonic Sensors in Oil-Immersed Transformers Using k-Degree Detection Coverage	Qin Qin, Xiang Dong, Yang Shao, Ruicheng Dai, Xiaolei Fang, Bi Zhao, Xiaoyang Li, Dongwei Chen, Wensheng Gao	Special session 07
206	Fault Current-Limiting Strategy for Grid-Forming Converters Based on Virtual Oscillator Control	Hang Liu, Zikang Li, Fangqun Liao, Yicong Li, Wenhan Hu	New Technology
208	Discussion on Influencing Factors of Ground Wire Induced Signals during Galloping	Yao Yao, Xueming Zhou, Xiankang Wang, Zherui Cui, Bo Zhang, Yi Kan	AC Grid Technology
209	Online Response-Driven Adaptive Damping Control for Oscillation Mitigation in Converter-Dominated Power Systems	Jieyi Xu, Hui Qin, Hongmei Cai, Dan Zhang, Yue Wu, Xiaorong Xie	New Technology

Paper ID	Title	Authors	Session
210	SUPPRESSION METHOD OF DIODE REVERSE RECOVERY OSCILLATION UNDER SMALL CURRENT FOR IGCT-MMC POWER MODULE	Qinghan Zhuang, Yuebin Wang, Wei-han Hao, Kefan Yu, Pengcheng Gu, Yang Huang, Yuxuan Diao, Dong Wang	DC Grid Technology
211	ROBUST FID SITING AND SIZING FOR FIDNS UNDER RENEWABLE GENERATION UNCERTAINTY	Yan Wen, Bo Yang, Rong Liang, Zhao Li, Chen Wang, Kexin Wang	Special session 02
212	Distributed Coordinated Voltage Control of Large-Scale Wind Farm Cluster with GFM-ESS Based on ADMM	Huifan Xie, lidong zhang, Ziyou Li, Chunxiao Liu, Junchen Zhong, Hongtao Liu, Qian Ma, Yi Yuan	Special session 09
213	Active Short-Circuit Type Negative Pressure Combined Capacitor Hybrid DC Circuit Breaker	Zeyang Wang, Yucheng Wu, Yiqi Liu	DC Grid Technology
214	Research on the Compact Structural Design Method for IGCT-MMC Modules	Xian Wang, Qing Liu, Yang Huang, Hanrui Zhang, Haidong Kang, Jianwu Wang, Yajun Lei, Zemin Li	DC Grid Technology
215	A Novel Feature-Lifetime Interactions Analysis Method Using Non-Additive Measures for Lithium-Ion Batteries	Ence Hou, Yanglin Zhou, Chengjie Zhang, Song Ci	Special session 05
216	Functional Reuse of DC Circuit Breakers for Overvoltage Suppression in Offshore Wind VSC-HVDC Systems	HongDa Song, Yucheng Wu, Yiqi Liu, Haokun Yu, Rongliang Mao, Mingliang Leng	DC Grid Technology
217	Parameter Design and Simulation of Modular Commutated Converter for Medium-Voltage Flexible Distribution Networks	Xueyin Zhang	DC Grid Technology
218	Reactive Power Coordination between Grid-Forming VSC-HVDC and Shunt Capacitors for Transient Voltage Stability Enhancement	Chenglin Zhang, Zhichang Yuan, Ningyi He, Yang Jiang, Siyu Liu, Peiqian Guo	Special session 01
219	A Study on Single-Pulse Discharge Characteristics of a 40 kV sGTO Valve String and Its Feasibility as a Thyatron Replacement	Qihuan Huang, Haibo Li, Wenqing Zhang, Jiapeng Liu, Xiaotong Shen, Hongfan Zhu, Xiaoyu Xu, Lihui Xu, Fei Tong, Jianwei Bao, Jinpeng Wu, Xin Qi, Rong Zeng	New Technology
221	Distributed Coordinated Voltage Control of Large-Scale Distribution Networks Considering Active Support of GFM-ESS	Huifan Xie, lidong zhang, Ziyou Li, Chunxiao Liu, Junchen Zhong, Hongtao Liu, Qian Ma, Yi Yuan	Special session 09

Paper ID	Title	Authors	Session
222	Turn-Off Characteristics Analysis and Test Based on Electro-Thermal Coupled Model of RB-IGCT	Chengbo Lei, Lu Qu, Zhanqing Yu, Xiaoguang Wei, Tianhui Yang, Gongyi Zhang, Fang Cai, Chunping Niu	New Technology
223	Numerical Analysis of Lightning Electromagnetic Interference in Nuclear Island Buildings	Yidi Zhang	New Technology
224	Capacitor Voltage Peak Constrained Burst Control for High Efficiency in Three-Phase LLC Converter	Bin Duan, Zhenlin Li, Yang Liu, Jinqiu Song, Wenlong Ding	Special session 02
225	Frequency Support Strategy for VSC-HVDC-Integrated Wind Farms Based on Assessment of Receiving-End Requirements and Sending-End Capabilities	Honglei Xu, Bo Wei, Jiexiang Han, Jinguo Zhao, Rui Yang, Hengxiao Gao, Wenhan Liu	Special session 09
226	Personnel Risk Assessment and Insurance Protection Method for Power Industry Workers Under AC/DC Power System	Fan Yang, Yan Ding, Peng Zhang	Special session 0
227	Comparison between LCC, HCC and FFM-CSC for Planning DC Links Connected to Weak AC Systems	Zhaoqi Song, Xiaoguang Wei, Jinjun Liu, Ronghui An, Longlong Chen, Wenwen Zhang, Marcio Szechtman	DC Grid Technology
228	A Review of Cable Health Diagnosis Techniques Based on the Frequency-Domain Impedance Spectrum and Reflection Coefficient Spectrum	Haidong Yu, Yang Liu, Min Huang, Wenbin Liu, Ying Wu	Special session 09
229	Analysis Method of Low Voltage Distributed Photovoltaic Coupling Impedance Characteristics under Asymmetric Faults in Medium Voltage Distribution Lines	Haidong Yu, Yang Liu, Feng wang, Min Huang, Wenbin Liu	Special session 09
230	Experimental Research of DC Arc Discharge Characteristics in Water	Changmei Liu, Guorui Wang, Qichen Ke, Hao Wang	New Technology
232	Waveform-Based Inversion of Transfer-Branch Capacitance and Inductance in a Mechanical DC Circuit Breaker	Yanting Cheng, Zehuai Liu, Wenting Zhao, Yanan Shang, Wenxing Sun, Zheyuan Xu, Jia Zhou	DC Grid Technology
233	Time-Resolved Optical Evolution of Positive Long-Gap Leaders at 777 nm and 481 nm	Xiuyua Yao, Yihui Cheng, Chen Gu, Dexi Jiang, Dongxu Sun	New Technology
234	Thermodynamic properties of positive leader channels in moist air: comparison with day-air conditions	Yu Su, Zhitong Niu, Chen Gu, Dongxu Sun, Dexi Jiang	New Technology

Technical visit 技术参观

Huairou Science City Innovation Exhibition Hall 怀柔科学城创新馆

Introduction to the Visit Location:

The Innovation Hall of the Huairou Science City, part of the Beijing Huairou Comprehensive National Science Center, has a total floor area of approximately 660 square meters and serves as the core window for showcasing the strategic layout, construction achievements, and future vision of the science city. The hall comprehensively presents to the public the strategic positioning, development outcomes, and growth pathways of Huairou Science City as a world-class hub for original innovation. At the same time, the Innovation Hall also serves as an important platform for promoting science popularization and carrying forward the spirit of scientists among the general public.

北京怀柔综合性国家科学中心怀柔科学城创新馆，总建筑面积约660平方米，是集中展示科学城战略布局、建设成就与未来愿景的核心窗口。展馆向社会公众全面呈现怀柔科学城作为世界级原始创新承载区的战略定位、建设成果与发展路径。同时，创新馆也是面向公众开展科学普及、弘扬科学家精神的重要平台。

High Energy Photon Sourcet 中科院高能同步辐射光源

The High Energy Photon Source (HEPS) is known as China's "super magnifying glass" because it can peer into the atomic-scale structure of matter. It is also likened to a giant "X-ray machine," as its penetrating power is trillions of times greater than that of medical equipment. This is China's first high-energy synchrotron radiation light source, producing light that is trillions of times brighter than the sun — the highest spectral intensity in the world. Capable of emitting high-energy, high-brightness X-rays, it will provide a better experimental platform for fundamental scientific research in fields such as microelectronics, bioengineering, and microfabrication.

高能同步辐射光源（High Energy Photon Source，HEPS）被称为中国的“超级放大镜”，因其能窥见物质内部原子级结构，也被称为巨型的“X光机”，因其透视能力远超医用设备万亿倍。这是中国拥有的第一台高能量同步辐射光源，具有比太阳还亮万亿倍的光，这是世界最高光谱强度，可发射高能量、高亮度的X射线，将为微电子、生物工程、微细加工等在基础科学研究领域提供更好的试验平台。



Technical Visit Schedule

Mon, July 13, 2026

- 09:00–09:30** • Depart from Sunrise Kempinski Hotel, via Qihu Hotel and Aloft Beijing Huairou, to Huairou Science City Innovation Exhibition Hall
从日出东方凯宾斯基酒店出发，途径栖湖饭店、北京怀柔雅乐轩酒店，前往怀柔科学城创新馆
- 09:30–10:10** • Visit Huairou Science City Innovation Exhibition Hall
参观怀柔科学城创新馆
- 10:10–10:30** • Depart from Huairou Science City Innovation Exhibition Hall to High Energy Photon Source (HEPS)
从怀柔科学城创新馆出发，前往高能同步辐射光源
- 10:30–11:00** • Visit High Energy Photon Source (HEPS)
参观高能同步辐射光源
- 11:00–11:30** • Technical visit concludes, return to hotel
技术参观结束，返回酒店

How to Register

Please scan the QR code to fill in the station entry registration information.



请扫码报名

联系人：李老师18236059167

Note

From now until 18:00 on July 11, 2026. The number of participants is limited to 40 people, determined on a first-come, first-served basis.

即日起至2026年7月11日18:00截至。人数限制40人，按照报名先后顺序确定参观人员。



内蒙古电力(集团)有限责任公司
INNER MONGOLIA POWER (GROUP) CO., LTD.

企业简介

内蒙古电力集团是内蒙古自治区直属国有独资特大型电网企业，所属单位41家，员工总人数3.4万人，供电区域72万平方公里，承担着8个市(盟)工农牧业生产及城乡1400多万居民生活供电任务，同时向华北地区和蒙古国提供跨省区、跨境供电。

2025年，售电量完成3453亿千瓦时，营业收入1280亿元，利润总额42亿元，资产总额1655亿元，位列中国企业500强第219位、中国服务企业500强第75位。

“十四五”以来，内蒙古电力集团胸怀“国之大者”“区之大计”，实现一次次“零”的突破。

首破

售电量3000亿
千瓦时大关

首条

110千伏对蒙供电
线路贯通

首批

电网侧独立新型储能
示范项目投运

首个

“单轨制”电力现货
市场建成

首个

省级实验室成立

首个

广域离网纯新能源
电力系统构建

首个

绿电直连项目落地

首个

自治区数字化转型
4星级企业认定

坚强电网

全面建成“四横六纵”500千伏为主干、220千伏为辐射的现代化坚强智能电网。



变电总容量**3.1**亿千伏安



输电线路总长**8.2**万公里



500千伏变电站**60**座



最大供电负荷**4624**万千瓦

绿色发展

从“煤电当家”迈入“风光领跑”时代。截至目前，经营区总装机突破1.75亿千瓦，新能源装机占比超57%。

经营区新能源装机达

1亿千瓦

新能源交易规模和占比

全国首位

新能源发电量占比达

36%

每3度电就有1度绿电

瞬时新能源发电电力占比突破

85%

绿电外送版图拓展至

10个省市

“三网协同”跨区域绿电交易超

7亿千瓦时

优质服务

坚守“人民电业为人民”企业宗旨，持续加大民生领域投资，优化用电营商环境。

综合电压合格率

99.92%

完成**1886**户

农牧户通网电工程

线上办电率超过

96%

“三零三省”服务节省客户成本

26亿元

城网用户平均停电时间

2.16小时/户

67.7万户

群众实现“煤改电”接入

同比减少

0.15小时/户

累计降低客户用电成本

16.22亿元

为**3019**家规上企业配备专属电力服务员

科技赋能

坚持创新驱动发展战略，持续加大研发投入，优化创新体系，聚力破解新型电力系统建设“双高”难题。

“十四五”以来



国家级平台创建和合作**8**个



获自治区科学技术奖**14**项

自治区级平台创建和合作**5**个

获行业科技奖励**17**项



累计研发投入**175**亿元



完成科技立项**380**项



授权发明专利**697**项

公司网址：<https://www.impc.com.cn>



泰开集团有限公司
TAIKAI GROUP CO., LTD

公司简介 >>>

山东泰开直流技术有限公司是泰开集团的全资子公司，注册资金壹亿元，专业从事柔性直流核心装备研制，并提供柔直配网、柔性微电网及虚拟电厂整体解决方案。公司以构建交直流混合的新型电力系统为核心任务，全力服务国家“双碳”战略目标。通过持续深化理论研究、突破关键技术、研制先进装备并推动工程应用，公司已形成涵盖柔性直流开关、电能变换、光储超充等领域的完整产品体系。在发电侧，专注大规模新能源直流汇集系统研发，成功研制DC/DC MPPT、大容量直流变压器等核心装备；在配电侧，致力于柔直配网的技术发展，研制直流断路器、直流负荷开关、换流阀、固态变压器、直流变压器等产品；在负荷侧，创新推出交直流混合柔性微电网解决方案，广泛应用于工业园区、商业楼宇、学校医疗、高速公路、光储超充等场景，显著提升系统效率，助力用户降本增效。

主营产品 >>>



项目案例 >>>



国内首个全直流数据中心(东莞安华)
——固态变压器



泰开全直流零碳园区示范项目
——固态变压器



世界容量最大光伏直组网工程
(新疆哈密)——200MW直流变压器



世界首个直流电网工程(张北)
——535kV直流断路器



世界容量最大新能源直流离网制氢工程
(吉林大安)——45MW直流变压器

山东泰开直流技术有限公司

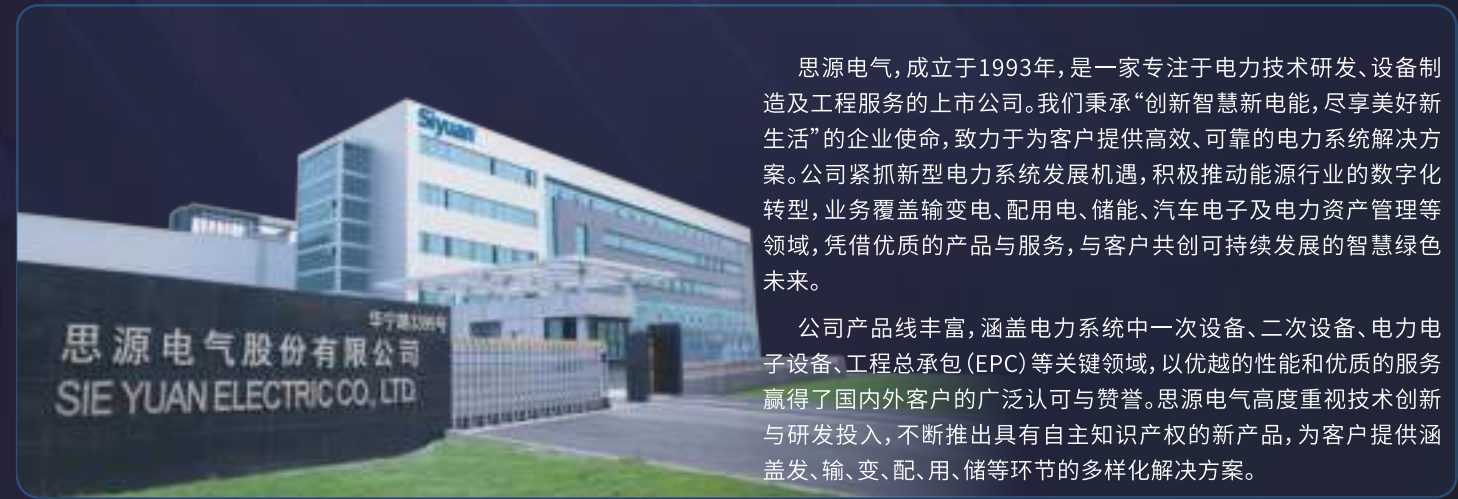
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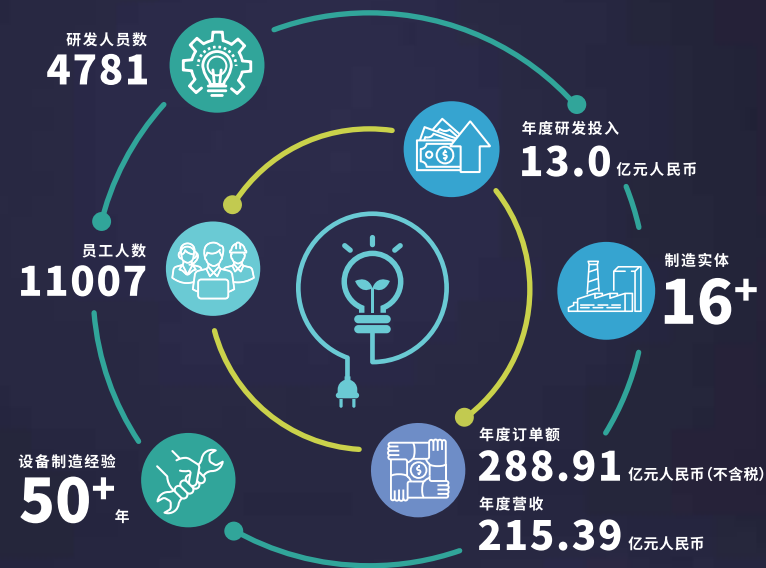
思源电气股份有限公司

股票代码: 002028.SZ



思源电气，成立于1993年，是一家专注于电力技术研发、设备制造及工程服务的上市公司。我们秉承“创新智慧新电能，尽享美好新生活”的企业使命，致力于为客户提供高效、可靠的电力系统解决方案。公司紧抓新型电力系统发展机遇，积极推动能源行业的数字化转型，业务覆盖输变电、配用电、储能、汽车电子及电力资产管理等领域，凭借优质的产品与服务，与客户共创可持续发展的智慧绿色未来。

公司产品线丰富，涵盖电力系统中一次设备、二次设备、电力电子设备、工程总承包(EPC)等关键领域，以优越的性能和优质的服务赢得了国内外客户的广泛认可与赞誉。思源电气高度重视技术创新与研发投入，不断推出具有自主知识产权的新产品，为客户提供涵盖发、输、变、配、用、储等环节的多样化解决方案。



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高压组合电器	中压开关和断路器	超级电容器
高压隔离开关与接地开关	中压电容器	高功率锂电池
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公司总部位于北京，在南京、武汉、保定、湖州设有研发生产基地，在印度、菲律宾、肯尼亚等设有海外子公司，为能源电力行业、大型公共事业、工业用电企业及各类园区、楼宇等场景提供电力能源综合解决方案和服务。

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PERI

西安电力电子技术研究所有限公司 XI'AN POWER ELECTRONICS TECHNOLOGY RESEARCH CO., LTD 西安派瑞功率半导体变流技术股份有限公司 XI'AN PERI POWER SEMICONDUCTOR CONVERTING TECHNOLOGY CO., LTD

西安派瑞功率半导体变流技术股份有限公司（简称：派瑞股份）作为国家高新技术企业、专精特新企业，长期专注于大功率半导体器件、电力电子装置及功率半导体检测设备的研发制造、试验验证、市场推广与全周期技术服务，搭建了大功率半导体核心器件、成套装备、非标试验检测设备三位一体的全链条业务体系。依托完善的垂直整合产业链优势，派瑞股份自研产品可全面适配大功率电力变换各类应用场景，应用覆盖面广、适配性强。

派瑞股份是我国原行业技术归口研究所、最早从事大功率半导体器件研发的西安电力电子技术研究所有限公司（简称：西电所）控股的子公司。西电所是我国大功率半导体器件的发源地，是我国特、超高压直流输电用晶闸管开发者及技术标准的制定者，是中国电器工业协会电力电子分会、中国电工技术学会电力电子专业委员会、全国电力电子系统和设备标准化技术委员会，是国家电力电子产品质量检验检测中心挂靠单位。

历经长期技术深耕与市场沉淀，派瑞股份已稳居高压大功率晶闸管行业龙头地位。同时，派瑞股份持续布局新型大功率器件赛道，完善产品战略布局，现已打造出品类完备、性能优异的FRD、IGCT、IGBT等新型功率器件产品矩阵，为开拓高端市场、筑牢长期竞争壁垒、持续提升行业核心竞争力夯实发展根基。

中国电力电子器件的发源地

- 1959年 中国第一只整流管和中国第一只硅光电池诞生
- 1961年 中国第一只功率晶体管诞生
- 1963年 中国第一只晶闸管诞生
- 1965年 中国第一只双向晶闸管诞生
- 1968年 中国第一只门极关断晶闸管（GTO）诞生
- 1969年 中国第一只快速晶闸管诞生
- 1975年 中国第一只逆导晶闸管（也称反向导通晶闸管）诞生
- 1982年 中国第一只光控晶闸管诞生
- 1987年 中国第一只不对称晶闸管（ASCR）诞生
- 1993年 中国第一只IGBT（20A/600V）芯片诞生
- 1994年 中国第一只MOS控制晶闸管（MCT）芯片诞生、中国第一只功率MOSFET芯片诞生
- 2000年 中国第一只5英寸直流输电用超大功率电控晶闸管研制成功
- 2002年 中国第一只5英寸直流输电用超大功率光控晶闸管研制成功
- 2005年 世界第一只5英寸超大功率整流管研制成功
- 2006年 世界第一只6英寸直流输电用特大功率电控晶闸管研制成功
- 2007年 世界第一只5英寸大功率快速晶闸管研制成功
- 2011年 世界第一只6英寸直流输电用特大功率光控晶闸管研制成功
- 2019年 世界第一只特高压柔性直流输电用旁路晶闸管研制成功
- 2022年 HCC换流阀用6英寸逆阻型8.0kV/5.5kA IGCT器件研制成功
- 2023年 世界首台HCC换流阀用6英寸逆阻型IGCT器件研制成功；

国家电力电子产品质量检验检测中心

电力电子检测·资质认证标杆

依托西电所，凭借雄厚技术力量与先进检测手段，提供公正、权威的全产业链检测服务



国家认证认可监督管理委员会
(CNCA)CMA资质认定

中国合格评定国家认可委员会
(CNAS)实验室认可
中国认可国际互认检测



公司简介

关于成晔

北京成晔电子有限公司是一家专业为电力电子产品提供核心电子零件的供应商,是多家国际著名半导体厂商在中国市场的重要合作伙伴。成晔电子多年来深耕电力输配电、储能、新能源及工业计算机应用领域,拥有专业的销售与技术服务团队,为客户提供从项目初期设计到最终实施的全方位功率器件解决方案。

我们的理念:专业、热情、聪慧、高效,提供优质产品和服务,为客户创造价值。

我们的愿景:成为电子元器件代理行业的国内领先企业。

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以科技创新 推动绿色能源发展

赛晶科技集团有限公司(股票代码:580.HK)是技术领先的电力电子器件供应商及系统集成商,业务覆盖全球,在北京、浙江嘉善和宁波、江苏无锡、湖北武汉及瑞士、德国、荷兰等地设有十余家子公司。

公司秉持“以科技创新作为企业发展的第一驱动力”的理念,累计获得5项国家级能源技术成果认证及280余项国内外专利。

深耕行业二十余载,赛晶科技为高压直流输电、轨道交通、新能源汽车、新能源发电和储能、电气化船舶等国家战略性新兴产业的发展做出突出贡献,被誉为“中国电力电子器件技术创新研发和国产化先锋”。

累计参与了60余个高压直流输电工程建设



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直流支撑电容器



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公司简介

来恩伟业（鹤壁）电子科技有限责任公司创立于 2004 年，深耕薄膜电容器领域，是集产品研发、智能制造、市场销售及全配套服务于一体的国家级高新技术企业，河南省“专精特新”企业，河南省薄膜电容器工程技术研究中心。公司主营柔直电容器、新能源电容器、低压交流滤波电容器、铁路信号专用电容器四大系列产品，覆盖电力、电子、轨道交通等多行业。

2010年起企业聚焦柔直电容器核心技术，联合国网经研院、南网科研院及清华大学、华中科技大学等顶尖科研院校开展技术攻关，斩获多项重磅科技成果与荣誉。相关产品通过国网南网双认证并挂网运行，深度参与多项国家级重点挂网项目，包括大湾区中通道、乌东德龙门站、国家电网张北工程等。2025年独家供应三山岛±500千伏海上风电柔直输电工程5936只国产电容器。2026年企业相继承接国网蒙冀工程、南网藏粤工程、棠下柔直背靠背工程、湘黔背靠背IGBT工程、湘黔背靠背IGCT工程。

企业秉持精益求精的匠心精神，以核心技术驱动产品升级，助力行业发展与中国制造迈向更高质量发展阶段。

全系产品

全系列产品矩阵 覆盖多元应用场景



柔性直流输电换流阀用直流支撑电容器



新能源类电容器



铁路信号类电容器



低压交流滤波电容器

挂网经验与工程应用

多项重点工程验证，助力国产化关键装备应用

大湾区中通道直流背靠背工程粤中站



我司参与柔性直流换流阀关键技术项目，首批国产电容器2022年7月于大湾区中通道粤中站成功挂网运行。

国网张北柔性直流电网试验示范工程



我司配合国网经研院推进柔直电容器国产化，产品2023年8月于张北柔直工程阜康换流站挂网运行。

昆柳龙±800kV特高压直流工程龙门站/柳北站



我司联合南网南科院研发国产PP粒子电容器，多款产品先后落地昆柳龙特高压工程龙门、柳北站。

三山岛±500kV海上风电柔直输电工程



我司独家供应5936只电容器，应用于三山岛±500kV海上风电柔直输电工程。

主要合作单位

(排名不分先后)



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