



2026 6th Power System and Green Energy Conference (PSGEC 2026)

Shanghai, China • Aug. 21-23, 2026

2026 6th Power System and Green Energy Conference (PSGEC 2026)

Conference Program

www.psgec.org

Organized by

Shanghai Jiao Tong University

Technically Sponsored by

Shanghai University of Electric Power, IEEE Shanghai Section

Supported by

Zhejiang University

Chongqing University

Global Chinese Power & Energy Society

Technical Committee on Digital Twins of Integrated Energy Systems

Simulation Society

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*Journal of Global Energy Interconnection, Global Energy Interconnection, Cyber-Physical Energy
Systems, Electric Power Automation Equipment, Electric Power, Power System Protection and
Control, Electric Power Engineering Technology, Electric Machines and Control Applications,
CPSS Transactions on Power Electronics and Applications, Journal of Power Supply, Distributed
Energy, Power Generation Technology, NANFANG NENGYUAN JIANSHE, Integrated Intelligent
Energy, Frontiers in Energy, AR Electrical, Beijing Zhongdian Lianbo Technology Co., Ltd, World
Electric Vehicle Journal, Smart Power & Energy Security, Bjs.com.cn, JOURNAL OF XI'AN
JIAOTONG UNIVERSITY*

2026.8.21--23 • Shanghai, China



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WELCOME MESSAGE

Dear Participants,

Welcome to participate in 2026 6th Power System and Green Energy Conference (PSGEC 2026). PSGEC 2026 will be hosted in Shanghai, China from Aug. 21 to 23, 2026, which is organized by Shanghai Jiao Tong University, technically sponsored by IEEE Shanghai Section, Shanghai University of Electric Power, supported by Zhejiang University, Chongqing University, Global Chinese Power & Energy Society, Technical Committee on Digital Twins of Integrated Energy Systems, Simulation Society, and sponsored by MDPI Energies, Skysys Intelligent Technology (Suzhou) Co. Ltd, Beijing Creationteks Technology Development Corp., Beijing Lingsi Chuangqi Technology Co., Ltd., and media supported by *Journal of Global Energy Interconnection*, *Global Energy Interconnection*, *Cyber-Physical Energy Systems*, *Electric Power Automation Equipment*, *Electric Power*, *Power System Protection and Control*, *Electric Power Engineering Technology*, *Electric Machines and Control Applications*, *CPSS Transactions on Power Electronics and Applications*, *Journal of Power Supply*, *Distributed Energy*, *Power Generation Technology*, *NANFANG NENGYUAN JIANSHE*, *Integrated Intelligent Energy*, *Frontiers in Energy*, *AR Electrical*, *Beijing Zhongdian Lianbo Technology Co., Ltd*, *World Electric Vehicle Journal*, *Smart Power & Energy Security*, *Bjx.com.cn*, *JOURNAL OF XI'AN JIAOTONG UNIVERSITY*.

PSGEC 2026 focuses on the latest research on “Integration and Transformation: Building a New Power System Dominated by Renewable Energy”, and it is dedicated to promoting the exchange and discussion among scientists, scholars, researchers and engineers of the power industry on the above topic. Thus, it will promote the development of power systems and green energy.

All the accepted and presented papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore’s scope and quality requirements. The publisher will submit articles to Engineering Village, Scopus, Web of Science, and other databases for review and indexing after publication.

On behalf of the organizing committee, I would like to thank the distinguished speakers: Prof. Song Ci, Tsinghua University, China; Prof. Chul-Hwan Kim, Sungkyunkwan University, South Korea; Prof. Jih-Sheng (Jason) Lai, Virginia Polytechnic Institute and State University, USA; Prof. Daogang Peng, Shanghai University of Electric Power, China; Prof. Xiaojun Shen, Tongji University, China; Prof. Wentao Huang, Shanghai Jiao Tong University, China; Mr. Songtao WANG, EVP, Global Sales & Customer Solutions of AESC and Prof. Jun An, Northeast Electric Power University, China, for sharing their deep insights on future challenges and trends.

We would like to thank all the committees for their great support in organizing the conference. I also would like to thank all the reviewers for their great efforts in reviewing the papers submitted to PSGEC 2026. Special thanks to all the researchers and students who with their work and participated in the conference.

We hope you enjoy the conference, the food, the hospitality, and the beautiful and charming city of Shanghai.

Regards,



General Chair

Guojie Li, Shanghai Jiao Tong University, China



General Chair

Keyou Wang, Shanghai Jiao Tong University, China

CONFERENCE SPEAKERS

Keynote Speakers



Prof. Song Ci

Tsinghua University, China

Biography: Prof. Song Ci is currently with the Department of Electrical Engineering of Tsinghua University, IEEE Fellow, AAIA Fellow, Director of Ministry-China Mobile joint laboratory on ICT-Energy technology, the director of the Center of Digital Energy Storage Technology and Application in the State Key

Laboratory of Power System Operation and Control, Director of the Institute of Information Energy and Green Intelligent Computing Technology of the Tsinghua-Sichuan Energy Internet Research Institute, Global Visiting Professor at Technical University of Munich. His research mainly focuses on dynamic complex system theory and its applications in ICT-energy systems. He has published over 400 academic papers and applied more than 300 patents in the related areas. As of a principal investigator, he has led numerous key research projects in the related areas. He has served as editors/guest editors for top international journals. He first proposed the concept of "time-domain energy management and control", leading to a cutting-edge interdisciplinary field of "high-power-rating digital energy processing and computing". He is the founder of iBatteryCloud, a startup company focusing on products and services of digital energy management and control in emerging applications, such as energy storage, renewable energy, AIDC and electrification.

Keynote Lecture: Digital Energy Processing and Computing: Theory and Practice

The rapid growth of emerging applications, such as renewable energy, battery energy storage, EVs and AIDCs, poses a grand challenge for fine-grained energy metering and scheduling. Historically, energy management has utilized frequency domain control methods due to the analog nature of energy flow, limited by cost, control resolution, response speed and efficiency. This keynote introduces a new paradigm that shifts energy management from controlling power to controlling time, called digital energy processing and computing. By converting continuous high-power energy flows into programmable digital energy bit sequences, the proposed time-domain energy management enables the precise energy metering and scheduling at megawatt-scale, microsecond-level and the fusion of energy and information flows under a unified software-defined architecture. The keynote will introduce both theory and practice of digital energy processing and computing, including the research and development of component-device-system-platform-service for time-domain energy management as well as its applications on battery energy storages, EVs and AIDCs.



Prof. Chul-Hwan Kim

Sungkyunkwan University, South Korea

Biography: Prof. Chul-Hwan Kim is an IEEE Fellow, KIEE Fellow and earned his B. S., M. S., and Ph. D. degrees in electrical engineering from Sungkyunkwan University, Seoul, Korea, in 1982, 1984, and 1990, respectively. In 1996, 1998, and 1999, he was a visiting academic at the University of Bath, U.K. Currently, he serves as a professor at School of Electrical and Electronics Engineering of Sungkyunkwan University, Seoul, Korea(south).

He was technical program committees co-chair of IPST (International Conference on Power System Transients) 2023 and the local program committee chair of IPST 2017. Also, he is a steering committee member of IPST. He was president of Power Engineering Society of KIEE and Korea Institute of Electrical Engineers (KIEE, 50th) in 2018 and 2021, respectively.

Furthermore, since 2008, he is a member of technical review panel of an international conference on Developments in Power System Protection (DPSP) organized by IET, U.K. Furthermore, he serves as an esteemed editorial board member for IEEE Power and Energy magazine, International Journal of Electrical Power & Energy Systems (IJPES), and Protection and Control of Modern Power Systems. Additionally, he holds the role of editor in Electrical Power Systems Research (EPSR) at Elsevier. His research includes power system protection, transients, distributed renewable generation, and analysis and protection of MVDC, and LVDC systems.

Keynote Lecture: Hybrid AC/DC Distribution Systems and Protection

As DC power sources and DC loads are connected to the power system on a large scale, the conventional AC distribution systems are reaching their limitations. In response, medium-voltage DC (MVDC) distribution systems are emerging as an alternative for the next-generation distribution system. In Republic of Korea, the goal is to operate an AC/DC hybrid distribution system by 2030, and partially replacing existing AC distribution system with DC distribution system is being considered. With the same conductor and insulation ratings, a DC line can transmit roughly twice the power of an AC line. Medium-voltage DC (MVDC) distribution is also expected to substantially increase the hosting capacity for renewable resources, DC sources, and DC loads. Operationally, MVDC avoids frequency-related stability constraints, experiences lower voltage drop and reduced losses because reactive power is absent, enables more efficient integration of DC sources and loads through direct interconnection, and improves overall asset utilization by enabling controllable power flows via power-electronic converters.



Prof. Jih-Sheng (Jason) Lai

Virginia Polytechnic Institute and State University, USA

Biography: Jih-Sheng (Jason) Lai received M.S. and Ph.D. degrees in electrical engineering from the University of Tennessee, Knoxville, in 1985 and 1989. After graduated, he joined Electric Power Research Institute (EPRI) Power Electronics Applications Center as the Senior Engineer and Manager. From 1993, he worked with the Oak Ridge National Laboratory as the Power Electronics Lead Scientist. In 1996, he switched to academia and joined Virginia Tech where he is now the James S. Tucker Endowed Chair Professor and Director of Future Energy Electronics Center (FEEC). From 2015 to 2021, he was a visiting professor at Nanyang Technological University. From 2021, he became a visiting chair professor of National Yang Ming Chiao Tung University under Yushan Fellow Program. Since 2023, he has been appointed as a Fulbright Specialist by the US Fulbright Program. He published more than 530 refereed technical papers and received more than 30 U.S. patents in the area of high power electronics and their applications.

Dr. Lai is an elected Fellow of IEEE (Life), International Academy of Artificial Intelligence Science (AAIS), and National Academy of Inventors (NAI). He received numerous awards including a Technical Achievement Award in 1995-Lockheed Martin Award Night and 2016-IEEE Gerald Kliman Innovation Award. His student teams won grand prizes in 2009 TI Engibous Analog Design Competition and 2011 IEEE International Future Energy Challenge. In 2016 Google Little Box Challenge, his team won the Top 3 Finalist among 2000+ international teams. In 2020 American Made Solar Prize Competition, he led a team to win the Finalist Award. In 2024 International Contest on Net-Zero Technology, his team won the grand prize.

Keynote Lecture: AI Data Center Power Architectures

Artificial intelligence (AI) market started significant growth in recent years. Its market size is \$391B in 2025, and the CAGR through 2033 exceeds 30%. As all the AI information must store, compute, and transmit through data center, the AI data center electricity demand also presents significant growth. Traditional data centers operate only at 5-15 kW per rack, while AI facilities already demand 100+ kW per rack. The power capacity of a data center that consists of hundreds of racks is also growing from traditional less than 5-MW level to now higher than 100's MW and projecting to GW level as the AI computing power continues exploding. This presentation will provide an overview of the data center power system and its migration from low-voltage AC to 800-Vdc bus architecture. The entire data center power system consists of several critical power conversion technologies including active front-end AC-DC, intermediate DC-DC, energy storage, and point of load (POL) DC-DC. As the data center space is limited while the power demand is exponentially increased, power conversion efficiency becomes critical to avoid excessive heat generation. This presentation will discuss how to achieve ultrahigh power conversion efficiency - with an example of 99.8% for energy storage system. Looking ahead, this presentation will also introduce the advanced solid-state transformers (SSTs) and how to incorporate them into the AI center power system.



Prof. Daogang Peng

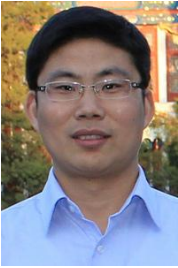
Shanghai University of Electric Power, China

Biography: Peng Daogang, PhD, professor, and doctoral supervisor, is the Director of Human Resources at Shanghai University of Electric Power, and formerly served as Dean of the School of Automation Engineering. He has been honored with the Shanghai Eastern Talent Plan Teacher Project and the Shanghai Rising-Star Program.

His research focuses on key technologies and applications in low-carbon intelligent power generation, integrated smart energy systems, and virtual power plants. He has led over 70 research projects, including National Key R&D Program of China, General Programs of the National Natural Science Foundation of China, as well as projects funded by the Shanghai Science and Technology Commission, power grid companies, and power generation enterprises. He has published over 100 SCI/EI-indexed papers, authored 6 academic books, and holds more than 80 authorized Chinese invention patents and over 50 software copyrights. He has also contributed to the development of 7 national and association technical standards. His scientific achievements have been recognized with more than 10 awards from institutions including the Shanghai Municipal Government, the Chinese Association of Automation, and China Electric Power.

Keynote Lecture: Intelligent Energy and Carbon Management and Control Technology for Integrated Energy Systems in Low-Carbon Industrial Parks and Its Application

As a key carrier supporting the "dual carbon" goals and high-quality economic development, the energy system of low-carbon parks is accelerating its transformation and upgrading towards a clean and intelligent multi-energy complementary low-carbon integrated energy system, including distributed renewable energy, smart microgrids, and virtual power plants, in order to achieve multiple goals such as carbon reduction, pollution reduction, green expansion, and growth. However, this open and interconnected characteristic also brings inherent security contradictions of high vulnerability and strong uncertainty. This report intends to focus on the key technologies and application issues of intelligent energy and carbon management and control in the integrated energy system of low-zero carbon parks, with a focus on analysis and prediction of the characteristics and resources of park sources and loads, low-carbon resilience aggregation and regulation of dispersed resources in the energy system, as well as the development and application of energy and carbon management and control platforms.



Prof. Xiaojun Shen

Tongji University, China

Biography: Prof. Xiaojun Shen, born in 1979, doctor of engineering. He graduated from the Department of electrical engineering of Shanghai Jiao Tong University in 2007 with a doctor's degree in engineering. He joined the Department of electrical engineering of Tongji University in the same year.

He has presided over one national key R & D Program project, two National Natural Science Foundation projects, one national key R & D program sub project, one 863 project sub project of the Ministry of science and technology, one major special sub project of Shanghai Science and Technology Commission, and more than 20 projects entrusted by State Grid Corporation of China. The research achievements have won one third prize of Shanghai Science and Technology Progress Award, one second prize of Beijing Science and Technology Progress Award, and many science and technology Progress awards of State Grid Corporation of China provincial level. As the first author, he has published more than 40 papers indexed by SCI and EI on domestic and foreign top academic journals, such as IEEE Trans.on Sustainable Energy, Applied Energy, IEEE Trans.on Industry Application, IEEE Trans.on Power Delivery, International Journal of Energy Research, and Journal of Electrical Technology, and 15 invention patents have been authorized; Participate in the formulation of a number of international and industrial standards; As a reviewer of more than ten domestic and foreign mainstream SCI, EI academic journals.

Keynote Lecture: Coordinated Operation Strategy of Battery-hydrogen Hybrid Energy Storage System for Pure Photovoltaic VSC-HVDC Converter Station

Voltage source converter based high voltage direct current (VSC-HVDC) transmission serves as a crucial means for power delivery from renewable energy stations, and its operating characteristics require the converter station to maintain a continuous power supply state. Aiming at the contradiction between intermittent pure photovoltaic power generation and continuous power supply demand of VSC-HVDC station, a solution for configuring electric-hydrogen hybrid energy storage at the transmission end converter station and an operation strategy of hybrid energy storage system based on fuzzy logic and membership function optimization are proposed. A coordinated operation mechanism is established where battery storage satisfies energy demands during normal light days, while hydrogen energy storage provides long-term energy security during weak light days. The proposed scheme and operation strategy can effectively alleviate the contradiction between the intermittency of photovoltaic generation and the power supply demands of VSC-HVDC converter stations during peak load periods at the receiving end, reduce dependence on the receiving end power grid for reverse transmission, and improve the consumption of new energy. The research results can provide a feasible solution for ensuring the reliable operation of the new energy VSC-HVDC delivery system.



Prof. Wentao Huang

Shanghai Jiao Tong University, China

Biography: Huang Wentao is a Professor and PhD Supervisor at the School of Electrical Engineering, Shanghai Jiao Tong University. He is a recipient of the Ministry of Education Young Changjiang Scholar award, a member of the Ministry of Education's Division of Energy and Transportation, and Director of the Ministry of Education Key Laboratory of Power Transmission and Power Conversion Control.

He has long been engaged in research on the control, protection, and energy management of stand-alone power systems for large ships, offshore engineering platforms, and islands. As first or corresponding author, he has published over 40 SCI-indexed papers in journals such as Nature Energy and IEEE Transactions. He holds more than 40 granted invention patents and has received three first prizes at the provincial/ministerial level, as well as two awards from professional societies and industry associations.

Keynote Lecture: Inland Battery Shipping as the Corridor of Green Electricity

Uneven distribution of renewable energy sources and load centers presents power systems with critical trade-offs among clean energy utilization, operational costs, and grid reliability. Here, we propose a planning framework designed to facilitate flexible energy transfer through the use of containerized battery storage systems transported via inland waterways. This approach reduces long-term cross-regional transmission needs and total storage capacity, by dynamically matching marginal supply and demand, battery shipping can effectively enhance system resilience during peak demand periods and under extreme weather conditions. With improved waterway connectivity, energy storage shipping could provide an additional flexibility to China's five major urban agglomerations, and cutting annual load-shedding.



Mr. Songtao WANG

EVP, Global Sales & Customer Solutions of AESC

Biography: Mr. Wang had 26 years leadership experience in green energy, automotive, high-speed train & IT industries, responsible for global business development in NA, EU & Asia Pacific, APAC regional president, chairman and board director roles of several legal entities. He initiated the strategic investment into a unicorn startup (Forbes CN 2022) and took board seat on behalf of the investor, participated in the M&A activity also handover with a listed company into European operation. His leadership journey of strategic transformation as well as business model innovation was compiled to a study case by professors at Singapore Management University (SMU) and Kunshan DUKE University, published on Harvard Business Case (2024). He holds a dual EMBA degree from Mannheim Business School in Germany and Tongji University, along with a Private Pilot License certified by the European Union Aviation Safety Agency (EASA).

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Keynote Lecture: The Challenges & Opportunities of Advanced Electrified Transportation under Current Geopolitical Environment

Based on the current new landscape of international politics and economics, industries such as energy and advanced electrified mobility are increasingly fragmenting into regionalized markets and solutions. What were once purely green and environmental imperatives and industrial upgrading agendas are rapidly escalating into strategic components for nations to secure energy security, enhance economic resilience, safeguard employment, and reshape their global competitiveness. As one of the core battlefields of the energy transition, electrified mobility naturally stands at the forefront of this major transformation.

This presentation attempts to provide a comprehensive overview of the multidimensional impacts of the geopolitical landscape on the advanced electrified mobility industry: the "chokepoint" risks imposed on China by the high concentration of critical mineral supply chains; the significant concerns raised in Western economies by the concentration of key component supply chains; the "new Cold War" model of competition characterized by mutual trade barriers erected by major economies; and the trend toward "de-Chinafication" in industries such as power systems and new energy vehicles. Drawing on the speaker's extensive experience in international business, several countermeasures are proposed: breaking through supply chain bottlenecks through technological innovation; creating new competitive arenas through the integration of transportation and energy; and countering deglobalization through localized deployment strategies. The aim is to offer conference participants a business-implementation perspective that goes beyond purely technical solutions.



Prof. Jun An

Northeast Electric Power University, China

Biography: Dr. An Jun is a professor in the school of electrical engineering at Northeast Electric Power University (Neeu). He is now the vice dean of artificial intelligence research institute at Neeu. He is the Outstanding Young and Middle-aged Experts with Outstanding Contributions of Jilin Province. His research focuses on the data driven dynamic security assessment of power system, and he presided over several national key projects on the validation of digital simulation and AI based transient stability assessment and control, and the results were applied in several electric power company. He was awarded three provincial second prize of science and technology progress.

Keynote Lecture: Frequency Security Assessment of Power Systems with High Penetration of Renewable Energy: Data-Driven, Mechanism-Based Modeling, and Hybrid Approaches

With the increasing penetration of renewable energy, the spatial heterogeneity and dynamic complexity of frequency responses have become significantly more pronounced. Accurate and reliable frequency security assessment is therefore essential for ensuring the secure operation of power systems. Currently, hybrid-driven methods that integrate data and physical-mechanism information are attracting increasing research attention. However, data-driven models are susceptible to being misled by spurious correlations among input features, while physics-based models struggle to accurately characterize the dynamic responses of heterogeneous power sources and the system-wide frequency distribution following large-scale renewable energy integration. Consequently, existing data–physics fusion models still face substantial challenges in frequency security assessment.

This report first identifies the key information that truly determines frequency security based on cross-scenario stability and physical rationality, thereby improving the generalization capability of data-driven models. Second, explicit relationships among power disturbances, power-source responses, and nodal frequencies across the entire system are established, providing a mechanistic foundation for the analysis and prediction of frequency distribution characteristics. Building on this foundation, low-order equivalent models of heterogeneous frequency-regulation resources are developed. Physics-informed neural networks are then integrated with message-passing neural networks: physical equations are employed to constrain the dynamic responses of power sources, while network topology is used to represent source–grid power coupling and propagation processes. This framework enables the unified prediction of system-wide spatiotemporal frequency trajectories and frequency security indices. The research establishes a frequency security assessment method that combines accuracy, generalizability, and physical interpretability, providing technical support for online risk identification, security monitoring, and preventive control in power systems with a high penetration of renewable energy.

PRESENTATION GUIDE

Oral Presentation

1. File format: MS-PowerPoint (*.ppt) or Adobe PDF (*.pdf)

PPT size: **Conference II, III/会议 2, 3 (4:3)**

2. Time: About 15mins, including Q/A time.

3. Language: English

4. Fonts: Arial or Times New Roman

5. Dress code: Formal clothes

6. Facility: Presenters need to use own laptop, please notify conference secretary via e-mail in advance and test the connection before session start.

7. Online conference software: Tencent VooV

Poster Presentation

1. Poster Size: 1m*0.8m (height*width).

2. Language: English.

3. Poster format: jpg

4. The poster should include: Paper ID, conference name's acronym, significance of the research, the methods used, the main results obtained, and conclusions drawn.

5. Posters are required to be condensed and attractive.

6. The conference organizer won't send/keep any posters after the conference.

Online Conference Operation Guide—

VooV(腾讯会议)

● PSGEC 2026 线上会议信息(Online Conference Information):

时区 (Time Zone)	Beijing Time, GMT +8
会议时间 (Conference Time)	Aug. 21-23, 2026
在线会议室 ID (Online Room ID)	684-7073-8927 (入会密码(password): 0822)
链接(Link)	https://meeting.tencent.com/dm/i8RwCl8EXw4l

● 线上测试信息(Online Testing):

All the participants can join the conference room during the testing time; the conference secretary will arrange the participants who will do the presentation to test one by one. (p.s. Conference ID keeps the same as testing ID)

Room ID: 684-7073-8927 (password: 0822)	
Link: https://meeting.tencent.com/dm/i8RwCl8EXw4l	
测试时间 (Testing Time)	Participants
15:30-16:30 Aug. 18, 2026 Beijing Time, GMT+8	Oral presenters: P062, P069, P070, P095, P099, P164, P165, P188, P184, P030, P051, P072, P112, P127, P161, P170, P179

● 操作指南(Operation Guide):

1. 会议视频软件(Video Meeting Software): VooV

下载链接(download link):

A.) 中文版

<https://meeting.tencent.com/download/>

B.) International Version

<https://voovmeeting.com/download-mac> (Mac OS)

<https://voovmeeting.com/download-win> (Windows)

2. 加入会议(Join the Conference):

方法一：点击会议链接，或选择“加入会议”后输入会议 ID。进入会议室时需填写手机号码进行验证；验证完成后在入会名称处输入您的“文章编号+姓名”即可进入。

Method 1: Click the Conference link, or click “Join the conference”, then input the Conference ID. When you join the conference room, you need to fill in your phone number for authentication, then

fill in your “Paper ID +Name” at the “Name” to join the conference.

注：如您不能以访客身份直接“加入会议”，建议您按照方法二注册一个账号，登录后再加入会议。

Tip: Should you fail to “Join the Conference” as a visitor, we suggest you register an account by method 2, then log in and join the conference.

方法二：您可在腾讯会议 APP 或官网（<https://meeting.tencent.com/>）中进行注册，登录后通过链接或输入会议 ID 加入会议。

Method 2: You can register at the APP/ website (<https://www.voovmeeting.com/>), log in and join the conference by the link or tap the Conference ID.

注意(Note):

- 所有出版的论文需保证至少有一位作者出席线上会议并**全程保持在线**。
- Presentation of paper must be done on the conference by one of author(s) of the paper. Otherwise, the paper cannot be included into the conference proceeding.
- 会议将**全程进行录制**，作为提交出版社的材料之一。
- We'll record the whole conference. If you do mind, please inform us in advance. The recording will be used for conference program and paper publication requirements. It cannot be distributed to or shared with anyone else, and it shall not be used for commercial nor illegal purpose.
- 会务组将在会议**前 10-15 分钟进行点名**，请各位作者至少提前 10-15 分钟加入会议室。会议秘书将于会议当天提前四十五分钟打开会议室等待各位加入。
- The conference committee will **call the roll 10-15 minutes before** our conference, please join the conference in advance for at least 10-15 minutes. The conference secretaries will be waiting before forty-five minutes the conference starts.
- 会议期间**务必戴上耳机**以防外界噪音。同时建议请保持视频开启，持续在线。
- Please **wear headphones** during the meeting to block out the outside noise. Keeping the video on and keeping online are suggested.
- 请提前测试会议软件。
- Please test the video meeting software in advance.
- 报告结束后，会务组将在“会议室”聊天框内上传口头报告证书。您可以下载证书并保存。
- After the presentation, we will upload all the e-certificate in the “meeting room”. please download and save the e-certificate timely. But please note that, you will not see the e-certificate again when you quit the meeting room.
- 如有任何疑问，您可点击 <https://meeting.tencent.com/> 以获取帮助，或联系会议秘书：
+86-19983106382（中国），+852-30506862（中国香港）。
- Should you have any further questions about this operation guide, please click <https://www.voovmeeting.com/> for help. You can also contact the conference secretary at +86-19983106382 (China), +852-30506862(Hong Kong).



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Shanghai, China●Aug. 21-23, 2026

PSGEC 2026 CONFERENCE PROGRAM OVERVIEW

Conference Dates: Aug. 21-23, 2026

Conference Venue: Holiday Inn Shanghai Hongqiao 会议地点: 上海大华虹桥假日酒店 | Online Room/线上会场: 684-7073-8927 /Password: 0822

ADD.: No. 3555 Qixin Road, Minhang District Shanghai, 201101 PR. China | 地址: 中国上海闵行区七莘路3555号

Day 1 Aug. 21, 2026	Time	10:00-17:00		14:00-18:00			18:30-20:00								
	Venue	The lobby of Holiday Inn Shanghai Hongqiao		Changxing Ocean Laboratory, Shanghai Jiao Tong University			1F, CAFEPRO, Holiday Inn Shanghai Hongqiao								
	Items	Registration and Conference Kits Collection		Technical Tour			Welcome Dinner								
Day 2 Aug. 22, 2026	1F, Wen Hua Hall, Holiday Inn Shanghai Hongqiao Chair: Guojie Li, Shanghai Jiao Tong University, China Keyou Wang, Shanghai Jiao Tong University, China														
	Time	09:00-09:15		09:15-9:55		9:55-10:35		10:35-11:05		11:05-11:45					
	Items	Opening Remark		Keynote Speech 1- Prof. Song Ci		Keynote Speech 2- Prof. Chul-Hwan Kim		Coffee Break & Group Photo		Keynote Speech 3- Prof. Jih-Sheng (Jason) Lai					
	Lunch Buffet/ 11:45-14:00 1F, C A F E P R O, Holiday Inn Shanghai Hongqiao														
	Time	14:00-14:40		14:40-15:20		15:20-15:35		15:35-16:15		16:15-16:55		16:55-17:35		17:35-18:25	
	Items	Keynote Speech 4- Prof. Daogang Peng		Keynote Speech 5- Prof. Xiaojun Shen		Coffee Break		Keynote Speech 6- Mr. Songtao WANG		Keynote Speech 7- Prof. Wentao Huang		Keynote Speech 8- Prof. Jun An		Poster Exhibition	
	Time	14:30-16:30						15:30-17:30							
	Venue	2F, Rui Hua Hall						2F, Xiang Hua Hall							
	Items	Energies Journal Academic Editors' Meeting - Shanghai Session						IEEE PCCC WIP							
	Dinner Banquet + Award Ceremony/ 18:30-20:00 1F, Rui Hua Hall, Holiday Inn Shanghai Hongqiao														



2026 6th Power System and Green Energy Conference (PSGEC 2026)

Shanghai, China●Aug. 21-23, 2026

Day 3 Aug. 23, 2026	Online Room 684-7073-8927 Password: 0822		8:00-10:15	10:15-10:30	10:30-12:30	12:30-13:30
			Special Session I (A) Electricity Market Mechanisms Supporting the Construction of Low-Carbon Power Systems Chair: Mingxu Xiang	Coffee Break	Special Session I (B) Simulation, Testing, and Stability Analysis for Power Systems with Large-Scale Renewable Integration Chair: Pan Wu	Online Poster Session Chair: Lili Hao
	Onsite Room	2F Rui Hua Hall	8:00-10:00	10:00-10:15	10:15-12:00	
			Special Session II (A) Modeling, Optimization, and Control of Low-Carbon Smart Energy Systems Chair: Huirong Zhao	Coffee Break	Special Session II (B) Simulation, Testing, and Stability Analysis for Power Systems with Large-Scale Renewable Integration Chair: Jin Xu	
		2F Xiang Hua Hall	8:00-9:45	9:45-10:15	10:15-11:45	
			Special Session III (A) Physics-Constrained and Informed Control for Power-Converter-Enabled Systems in Next-Generation Onboard Electrical Systems Chair: Xiaoyong Cao	Coffee Break	Special Session III (B) Operation, Control and Resilience Enhancement of Novel Distribution Systems with High-Penetration Renewable Energy Chair: Xiaoyong Cao	
	Lunch Buffet/ 12:00-14:30 1F, C A F E P R O, Holiday Inn Shanghai Hongqiao					
	Technical Tour (Pending)/ 14:30-18:00					

ROOM OVERVIEW

Oral Session		
Online Room: 684-7073-8927 Password: 0822	Special Session I 8:00-12:30 Aug. 23	Special Session I(A): P062, P069, P070, P095, P099, P164, P165, P188, P184
		Special Session I(B): P030, P051, P072, P112, P127, P161, P170, P179
Rui Hua Hall	Special Session II 8:00-12:00 Aug. 23	Special Session II(A): P047, P074, P077, P102, Sponsor, P111, P146, P150
		Special Session II(B): EMTP, P014, P073, P092, P093, P121, P124
Xiang Hua Hall	Special Session III 8:00-11:45 Aug. 23	Special Session III(A): P035, P055, P096, P114, P119, P140, P142
		Special Session III(B): P054, P058, P079, P110, P117, P118
Poster Session		
Poster Session I 1F, Wen Hua Hall	17:35-18:25 Aug. 22	P008, P009, P036, P037, P038, P039, P040, P041, P043, P044, P045, P046, P048, P049, P050, P053, P056, P061, P064, P065, P068, P071, P075, P078, P081, P082, P083, P085, P086, P087, P094, P097, P104, P105, P106-P191, P107, P108, P109, P113, P115, P116, P120
Poster Session II 1F, Wen Hua Hall	17:35-18:25 Aug. 22	P122, P125, P126, P128, P129, P131, P132, P133, P134, P135, P136, P137, P138, P139, P143, P144, P145, P148, P149, P151, P153, P154, P155, P156, P157, P158, P160, P162, P166, P168, P169, P171, P172, P173, P175, P177, P180, P181, P182, P183, P185, P186
Poster Session III (Online)	12:30-13:30 Aug. 23	P019, P021, P023, P024, P025, P026, P027-P060, P028, P029, P033, P034, P080, P100, P103, P123, P130, P189

TECHNICAL SESSION

Keynote Speech

Chair: Guojie Li, Shanghai Jiao Tong University, China

Keyou Wang, Shanghai Jiao Tong University, China

9:00-17:35, Aug. 22, 2026, Saturday

Wen Hua Hall, Level 1 (1 楼, 文华厅)

Time	No.	Content
09:00-09:15	Opening Remark	
09:15-09:55	KN1	Digital Energy Processing and Computing: Theory and Practice <i>Song Ci</i> , Tsinghua University, China
09:55-10:35	KN2	Hybrid AC/DC Distribution Systems and Protection <i>Chul-Hwan Kim</i> , Sungkyunkwan University, South Korea
10:35-11:05	Coffee Break	
11:05-11:45	KN3	AI Data Center Power Architectures <i>Jih-Sheng (Jason) Lai</i> , Virginia Polytechnic Institute and State University, USA
11:45-14:00	Lunch	
14:00-14:40	KN4	Intelligent Energy and Carbon Management and Control Technology for Integrated Energy Systems in Low-Carbon Industrial Parks and Its Application <i>Daogang Peng</i> , Shanghai University of Electric Power, China
14:40-15:20	KN5	Coordinated Operation Strategy of Battery-hydrogen Hybrid Energy Storage System for Pure Photovoltaic VSC-HVDC Converter Station <i>Xiaojun Shen</i> , Tongji University, China
15:20-15:35	Coffee Break	
15:35-16:15	KN6	The Challenges & Opportunities of Advanced Electrified Transportation under Current Geopolitical Environment <i>Songtao WANG</i> , EVP, Global Sales & Customer Solutions of AESC
16:15-16:55	KN7	Inland Battery Shipping as the Corridor of Green Electricity <i>Wentao Huang</i> , Shanghai Jiao Tong University, China
16:55-17:35	KN8	Frequency Security Assessment of Power Systems with High Penetration of Renewable Energy: Data-Driven, Mechanism-Based Modeling, and Hybrid Approaches <i>Jun An</i> , Northeast Electric Power University, China

IEEE PCCC WIP		
Chair: Chao Leng, State Grid Shanghai Direct Current Company, China		
15:30-17:30, Aug. 22, 2026, Saturday		
Xiang Hua Hall, Level 2 (2 楼, 祥华厅)		
Time	No.	Content
15:30-15:45	Opening Remark	
15:45-16:20	Speaker 1	The Pursuit of Gigapixel Array Cameras: Algorithmic Breakthroughs and System Optimization in High-Resolution Imaging <i>Jingjing Liu</i> , Shanghai University, China
16:20-16:55	Speaker 2	VR-Game-Based System for AI-Empowered Embodied Learning: A Case Study of Electrical Machinery <i>Lin Feng</i> , Shanghai Jiao Tong University, China
16:55-17:30	Speaker 3	Harnessing Her Power, Opening New Perspectives: A Study on the Application of AI Vision in New Power Systems <i>Hui Chen</i> , Shanghai University of Electric Power, China
18:30-20:00	Dinner Banquet + Award Ceremony <i>1F, Rui Hua Hall, Holiday Inn Shanghai Hongqiao</i>	

Special Session I(A): Electricity Market Mechanisms Supporting the Construction of Low-Carbon Power Systems

Chair: Mingxu Xiang, Chongqing University, China

08:00-10:15, Aug. 23, Sunday

Online Meeting Room (线上会议室): 684-7073-8927 /Password: 0822

Time	No.	Content
08:00-08:15	P062-Online	Impact Analysis of Energy Storage Configuration on Inter-Provincial Resource Mutual Support Capability <i>Xiaobing Zhang</i> , Chongqing University, China
08:15-08:30	P069-Online	Short-Term Wind Power Forecasting under Extreme Weather Based on Improved TimeGAN and GATCrossformer <i>Shixian Pan</i> , China Southern Power Grid Digital Grid Group Co., Ltd., China
08:30-08:45	P070-Online	Impact of Market Operation Boundary on New Energy Consumption Cost in Power Systems <i>Ziyuan Yu</i> , Chongqing University, China
08:45-09:00	P095-Online	Automatic Report Generation Technology for Power Marketing Based on Large Language Model and Multi-Agent Collaboration <i>Jike Ma</i> , Jiangsu Frontier Electric Power Technology Co., Ltd., China
09:00-09:15	P099-Online	Research on Automatic Generation Method of Power Marketing Volume and Fee Reports Based on Lightweight Semantic Mapping System <i>Yong Wen</i> , Jiangsu Frontier Electric Power Technology Co., Ltd., China
09:15-09:30	P164-Online	Optimization of Science and Technology Planning Framework for Electric Power Research Institutes Based on Multi-Constraint Integer Programming <i>Tingzhe Pan</i> , CSG Electric Power Research Institute Co., Ltd., China
09:30-09:45	P165-Online	Distributionally Robust Multi-Agent Dispatch with Productive Force–Relation Coordination for Low-Carbon Power Systems <i>Jinfang Lv</i> , Shandong University of Political Science and Law, China
09:45-10:00	P188-Online	Optimal Placement and Sizing of STATCOM for Islanded Hydropower Systems with VSC-HVDC <i>Yan Chen</i> , China Southern Power Grid Electric Power Research Institute, China/ China Southern Power Grid Co., Ltd., China

10:00-10:15	P184- Online	Multi-Source Data-Driven Quality Prediction for Machining Processes Using Hybrid Machine Learning and Deep Learning <i>Jize Cui</i> , Shanghai Dianji University, China
10:15-10:30	Coffee Break	
Special Session I(B): Simulation, Testing, and Stability Analysis for Power Systems with Large-Scale Renewable Integration <i>Chair: Pan Wu, Shanghai Jiao Tong University, China</i> 10:30-12:30, Aug. 23, Sunday Online Meeting Room (线上会议室): 684-7073-8927 /Password: 0822		
Time	No.	Content
10:30-10:45	P030- Online	An Electromagnetic Transient Modeling Method for Multi-Inverter Systems Based on a Universal Equivalent Grid-Connected Inverter Model <i>Ran Cao</i> , Guodian Nanjing Automation Co., Ltd., China
10:45-11:00	P051- Online	Study on the Impact of Urban Rail Transit on DC Magnetic Bias in Main Transformers in a Core Urban Area and Corresponding Protection Strategies <i>Zikai Jiang</i> , State Grid Chongqing electric power company, China
11:00-11:15	P072- Online	Simulation Research on Fault Location in Small Current Grounding Systems of Distribution Networks Based on Feature Fusion <i>Tongyang Li</i> , Inner Mongolia University of Technology, China
11:15-11:30	P112- Online	A Reliability Assessment Method for Flexible Distribution Networks Considering Fault Restoration Process <i>Shiqiang Sun</i> , Hohai University, China
11:30-11:45	P127- Online	Mechanism Analysis and Simulation Validation of Local Overvoltage in a High-Renewable-Penetration Island-Type Power Grid <i>Donghong Zhong</i> , Shanghai Jiao Tong University, China
11:45-12:00	P161- Online	Distinct Low-Frequency Roles of Virtual Resistance and Active-Power Damping Coefficient in VSGs <i>Chunlin Chen</i> , Chongqing University, China
12:00-12:15	P170- Online	Exact-Front-Validated Residential Demand Flexibility Scheduling with Audited Same-Calendar REFIT Measurements <i>Siyu Zhou</i> , Hebei University of Technology, China

12:15-12:30	P179- Online	On-line Bayes Estimation of Renewable Energy Share in Modern Power Systems under an Autoregressive Model with Non-Gaussian Noise: A New Methodology <i>Giovanni Giannoccaro</i> , University of Naples Federico II, Italy
Special Session II(A): Modeling, Optimization, and Control of Low-Carbon Smart Energy Systems-Sponsored by Skysys Intelligent Technology (Suzhou) Co. Ltd. Chair: Huirong Zhao, Shanghai University of Electric Power, China 08:00-10:00, Aug. 23, Sunday Rui Hua Hall, Level 2 (2楼, 瑞华厅)		
Time	No.	Content
08:00-08:15	P047- Offline	Temperature-Rise Calculation and Correction for Dry-Type Transformers Based on Volume-Averaged Thermal Conductivity <i>Chenrui Zhang</i> , Shanghai Jiao Tong University, China
08:15-08:30	P074- Offline	Analytical Sizing of Grid-Forming ESS Under MPPT-Induced Perturbations in DC Microgrids <i>Zilong Huang</i> , Sichuan University, China
08:30-08:45	P077- Offline	Agents for Rule-Intensive Decision Making in Virtual Power Plant Operations <i>Pengfei Yan</i> , Chongqing University, China
08:45-09:00	P102- Offline	Multi-Scale Self-Supervised Feature Extraction via TimeMixer and Unsupervised Clustering for Power Quality Disturbance Analysis <i>Kairong Dong</i> , Shanghai University of Electric Power, China
09:00-09:15	Sponsor	From “Construction” to “Operations”: How Low-Altitude Embodied Robotics Is Transforming the Low-Carbon Energy Aftermarket <i>Dr. Suzhi Xiao</i> , Skysys Intelligent Technology (Suzhou) Co. Ltd., China
09:15-09:30	P111- Offline	Three-Dimensional Multiphysics Modeling of a Biomimetic Leaf-Vein Flow Field for Vanadium Redox Flow Batteries <i>Xiaodong Li</i> , Wuhan University of Technology, China
09:30-09:45	P146- Offline	Data-Driven PBA Cathode Design and Its Grid Energy Storage Compatibility Analysis <i>Hong Qian</i> , Shanghai University of Electric Power, China
9:45-10:00	P150- Offline	Nodal Carbon Intensity Estimation in Distribution Networks Based on Topology-Aware Features and Admittance-Weighted Graph Convolution <i>Jie Wu</i> , Shanghai University of Electric Power, China
10:00-10:15	Coffee Break	

**Special Session II(B): Simulation, Testing, and Stability Analysis for
Power Systems with Large-Scale Renewable Integration-Sponsored
by EMTP, Canada**

Chair: Jin Xu, Shanghai Jiao Tong University, China

10:15-12:00, Aug. 23, Sunday

Rui Hua Hall, Level 2 (2 楼, 瑞华厅)

Time	No.	Content
10:15-10:30	EMTP	Product Demonstration of EMTP in Power Systems <i>Dr. Anton Stepanov</i> , EMTP, Canada
10:30-10:45	P014-Offline	Graph Optimization-Based automatic Partitioning Method for Electromagnetic Transient Simulation of ACDC Distribution Networks <i>Haisong Zhan</i> , Shanghai Jiao Tong University, China
10:45-11:00	P073-Offline	Analysis and Simulation Research on the Ring-Connection Current Characteristics of Distribution Networks Based on PSCAD <i>Zeqing Zhao</i> , North China Electric Power University, China
11:00-11:15	P092-Offline	Coordinated Grid-Forming Control with Near-Zero Communication for Frequency Stability of Offshore Wind Farms via DRU-MMC-Based LFAC Transmission <i>Yupeng Li</i> , Shanghai Jiao Tong University, China
11:15-11:30	P093-Offline	An Integrated Dispatching and Centralized Control Coordinated Operation Method for Large-Scale Offshore Wind Power Clusters <i>Yaobo Wu</i> , Shanghai Jiao Tong University, China
11:30-11:45	P121-Offline	Decomposition-Guided Attention Forecasting for Daily-Ahead Photovoltaic Generation <i>Haonan Shi</i> , Nanjing Tech University, China
11:45-12:00	P124-Offline	Impedance Modeling and Stability Analysis of Offshore Wind Power Transmission Through a Grid-Forming MMC-HVDC System with Virtual Admittance <i>Edbert Hansen Tionardi</i> , Shanghai Jiao Tong University, China
12:00-14:30	Lunch	

Special Session III(A): Physics-Constrained and Informed Control for Power-Converter-Enabled Systems in Next-Generation Onboard Electrical Systems

Chair: Xiaoyong Cao, Shanghai Jiao Tong University, China

08:00-09:45, Aug. 23, Sunday

Xiang Hua Hall, Level 2 (2楼, 祥华厅)

Time	No.	Content
08:00-08:15	P035-Offline	Identification of Fault Wavefronts and Localization of Faults on Collector Lines <i>Xiaoxu Cheng</i> , Guodian Nanjing Automation Co., Ltd., China
08:15-08:30	P055-Offline	An Interpretable Deep-Unfolding Framework for Permanent Magnet Synchronous Motors Fault Diagnosis <i>Yueqi Wang</i> , Shanghai University of Electric Power, China
08:30-08:45	P096-Offline	Analysis on High Voltage Direct Current and Virtual Power Plant of AI Data Center <i>Jinshuang Hu</i> , Shanghai Eneplus Intelligent Technology Co., Ltd, China
08:45-09:00	P114-Offline	Proximal Policy Optimization-Based Coordinated Voltage Control for a Grid-Connected Microgrid Cluster Considering Photovoltaic Intermittency <i>Jiewei Hu</i> , Shanghai Jiao Tong University, China
09:00-09:15	P119-Offline	Dynamic Modeling and Stable Operation for Hybrid AC/DC Power Grid with Distributed IBRs <i>Yujie Wang</i> , Shanghai Jiao Tong University, China
09:15-09:30	P140-Offline	Motion Response and Mooring Safety of a Shallow-Draft Offshore Floating Photovoltaic Platform <i>Yihang Li</i> , Hohai University, China
09:30-09:45	P142-Offline	A novel MMC-HVDC transmission line protection method based on GADF and energy features <i>Xiangyang Liu</i> , Shanghai University of Electric Power, China
09:45-10:15	Break	

Special Session III(B): Operation, Control and Resilience Enhancement of Novel Distribution Systems with High-Penetration Renewable Energy

Chair: Xiaoyong Cao, Shanghai Jiao Tong University, China

10:15-11:45, Aug. 23, Sunday

Xiang Hua Hall, Level 2 (2楼, 祥华厅)

Time	No.	Content
10:15-10:30	P054-Offline	Coordinated Control of Microgrids Using Volterra Series and Chaotic Synchronization for Delay Compensation and Cyberattack Resilience Dan Jiang , Shanghai University of Electric Power, China
10:30-10:45	P058-Offline	Demand-Side Response Management Mechanism for Aggregators: Based on Forecast-Commitment Framework Yecheng Yang , Xi'an Jiaotong University, China
10:45-11:00	P079-Offline	A Bilevel Configuration Model for Battery Energy Storage Considering Multi-Market Participation and Performance-Based Capacity Compensation Zhengxin Wang , Nanjing University of Aeronautics and Astronautics, China
11:00-11:15	P110-Offline	Adaptive Estimation of Battery SOH Based on Optimal Interval Optimization and Conditional Reconstruction for Fragmented Charging Jie Qiu , Wuhan University of Technology, China
11:15-11:30	P117-Offline	Resilient Scheduling of Multi- Microgrid Clusters with P2P Trading and Nash Bargaining Zijian Wang , Hohai University, China
11:30-11:45	P118-Offline	Dynamic Resilient Restoration of Distribution Networks via Asymmetric Multi-Port SOP and Reconfiguration Haoran Lu , Hohai University, China
11:45-14:30	Lunch	

POSTER SESSION

Poster Presentation I

Chair: Pengfeng Lin, Shanghai Jiao Tong University, China

17:35-18:25, Aug. 22, Saturday

Wen Hua Hall, Level 1 (1楼, 文华厅)

P008	Exploration and Experiment of Discharge Technology in Ozone and Odor Control Huijie Bao , Zhejiang Doway Advanced Technology Co., Ltd., China
P009	The Effect of Time-of-Use Pricing Policy on Households Electricity Consumption Haitao Chen , State Grid Energy Research Institute Co., Ltd, China
P036	Research on Oil Level Detection Technology and Applications for Oil-Filled Terminals of High-Voltage Cables Using Terahertz Echoes JunHua Su , Chongqing University of Science and Technology, China
P037	Urban Power Distribution System Morphological Characteristics Analysis and Reconfiguration Strategy Shuai Wang , Beijing Jiaotong University, China
P038	Comparative Study of Traditional Machine Learning and Deep Learning in Modeling the Charging Process of Electric Vehicles Meiying Yang , Beijing Dingcheng Hong'an Technology Development Co.,Ltd, China
P039	Stability Analysis Based on Hybrid $\alpha\beta$ -impedance Model of Grid-connected Inverters under Weak Grid Ziqiang Wu , Beijing Dingcheng Hong'an Technology Development Co.,Ltd, China
P040	Coupled Reliability Assessment of Data-Center-Integrated Distribution Networks Considering Post-Fault Restoration Zhe Zhao , Shanghai Jiao Tong University, China
P041	Credibility Assessment of EV Hosting Capacity in Flexible Interconnected Distribution Networks with Embedded Tail-Scenario Risk Constraints Haitian Yu , Shanghai Jiao Tong University, China
P043	Data-driven Strategy for Three-Phase Unbalance Governance in Distribution Transformer Districts Ziqiang Wu , Beijing Dingcheng Hong'an Technology Development Co.,Ltd, China
P044	Analysis of Electricity Consumption Behaviors Based on 1D-CAE-ResBlock and Deep Embedded Clustering

	<i>Zutai Yan</i> , Shanghai University of Electric Power, China
P045	A Weakly Supervised Learning Framework Integrating Uncertainty-Aware and Class-Specific Attention for Non-Intrusive Load Monitoring <i>Tingyi Wang</i> , Shenzhen University, China
P046	A Multi-Time-Scale Coordinated Dispatch Framework for Cascade Hydropower–PV Systems Based on Model Predictive Control <i>Yaoxiang Wei</i> , Hohai University, China
P048	Short-term Optimal Scheduling of Cascade Hydropower-Photovoltaic Complementary System <i>Jingyao Chen</i> , Hohai University, China
P049	Study on the Effect of Silver Plating Thickness of Contacts on the Contact Resistance of Disconnectors Based on COMSOL <i>Junhong Wu</i> , Chongqing University of Science and Technology, China
P050	Accelerated Thermal-Fluid Simulation of Dry-Type Transformers via Porous Media Modeling <i>Zhihao Zhang</i> , Shanghai Jiao Tong University, China
P053	A Study on the LSA-DARF Method for Automatic Power Line Extraction <i>Feng Yang</i> , Xihua University, China
P056	Multi-objective Optimal Scheduling of Data Center Industrial Parks with Hybrid Energy Storage via Hierarchical Optimization <i>Linyang Song</i> , Xi'an Jiaotong University, China
P061	The Application of the UAV Autonomous Charging Device in Urban and Rural Distribution Networks <i>Yuwei Yang</i> , Training Center of State Grid Hunan Electric Power Corporation, China
P064	A Harmonic Mitigation Strategy for V2G Grid Integration Based on Repetitive Control <i>Xiaorong Wan</i> , Huazhong University of Science and Technology, China
P065	In-Situ Polymerization of PSSA within UiO-66-NH ₂ Pores for Dual-Channel Proton Exchange Membranes <i>Mengxin Wang</i> , China University of Petroleum, Beijing, China
P068	Research on Electro-Thermal-Mechanical Characteristics of Press-Pack IGBT Devices Considering Fretting Wear Aging <i>Song Lin</i> , China Energy Engineering Group Guangxi Electric Power Design Institute Co., Ltd., China
P071	Nodal Inertia Evaluation Considering Grid-Following Wind Turbine and Induction Motor Load Dynamics <i>Teng Zhu</i> , Hohai University, China
P075	A Novel UHF Partial Discharge Sensor Based on the Secondary Terminal Box of a Bushing Current Transformer <i>Xuelian Gao</i> , State Grid Shandong Electric Power Company Qingdao Supply Company, China

P078	Advanced Autonomous Frameworks and Deep Learning Architectures for UAV-Based Power System Inspection Yinke Dou , Taiyuan University of Technology, China
P081	Parking Matching and Position Guidance System for Wireless Charging of New Energy Vehicles Based on Electromagnetic Induction Chen Shu , China University of Mine and Technology, China
P082	A Safety-Enhanced TD3 Algorithm for Power System Economic Dispatch under Offshore Wind Power Uncertainty Xusheng Wang , China Petroleum Engineering & Construction Corp. North China Company, China
P083	Research on Construction Method of Security Audit Knowledge Base for Power Monitoring System Boundary Devices Mingyu Yang , Beijing Kedong Electric Power Control System Co., Ltd, China
P085	High Frequency Regulation Control Strategy for Wind Turbine Generator Coordinated with Secondary Frequency Regulation Xuanhuizhi Zhang , Hohai University, China
P086	Source-Load Coordinated Optimization Scheduling Strategy for Distributed PV and EV Charging Piles in Distribution Network Yifan Lang , State Grid Qingdao Power Supply Company, China
P087	Distributionally Robust Optimization for Medium-Voltage Distribution Network Operation Considering Source–Load Error Observability Differences Minghao Guo , Sichuan University, China
P094	Modeling the Frequency Response Capability of Distribution Networks under Transmission-Distribution Network Coordination Yihang Luo , Hohai University, China
P097	Prediction Model of SO ₂ Concentration at WFGD Outlet Based on CNN-TCN-AM Model Rui Wu , Shanghai University of Electric Power, China
P104	Transformer-Based PV Capacity Estimation for Reactive Power Optimization in Active Distribution Networks Ran Gu , Hohai University, China
P105	A Confidentiality-Aware AI-Assisted Digital Workflow Framework for Quality and Efficiency Improvement in Power Utility Operations Ximing Wang , North China Electric Power University (Baoding), China
P106-P191	Research on Thermal Power-Flywheel Energy Storage Cooperative Variable Load Control Strategy Based on Closed-Loop Constraints Zhan Li , North China Electric Power Science Research Institute, PRC, China
P107	Carbon Source Localization in Regional Distribution Network Based on Orthogonal Matching Pursuit Laixin Lin , Shantou Power Supply Company Guangdong Power Grid Co., Ltd, China

P108	Electricity and Carbon Accounting with Certification Based on Blockchain Laixin Lin , Shantou Power Supply Company Guangdong Power Grid Co., Ltd, China
P109	Design and Implementation of a Large Language Model-Driven Electromagnetic Transient Simulation System Based on the Model Context Protocol Yan Gao , Shanghai Jiao Tong University, China
P113	Cooperative Optimization of Preventive Hardening and Emergency Dispatch for Integrated Energy System Resilience Enhancement under Extreme Cold Waves Ziyu Zhou , Hohai University, China
P115	Multi-Stage Spatiotemporal Coordinated Restoration for Three-Phase Unbalanced Distribution Networks against Extreme Events Lei Yang , Hohai University, China
P116	A Two-Stage Joint Optimization Method for Demand Charge and Power Factor Management of User-side Jie Shen , Hohai University, China
P120	Early Warning Method for Gas Turbine Bearing Vibration State Based on TCN-Transformer Prediction and PCA Statistical Monitoring Minjie Shi , Shanghai University of Electric Power, China

Poster Presentation II

Chair: Zhenzhi Lin, Zhejiang University, China

17:35-18:25, Aug. 22, Saturday

Wen Hua Hall, Level 1 (1楼, 文华厅)

P122	Baseline Construction of Pulverizing Specific Energy Consumption and Operating Parameter Optimization for Coal Mills <i>Liwei Zhang</i> , Shanghai University of Electric Power, China
P125	Analytical Calculation of VSG Short-Circuit Current Based on Multi-Time-Scale Decoupling and Equivalent Impedance <i>Qingshan Gou</i> , Shanghai Jiao Tong University, China
P126	A Network Decoupling Method for Real-Time Simulation of LLC Resonant Converters <i>Tiantian He</i> , Northwestern Polytechnical University, China
P128	Multiphase Temperature Estimation Method for Solid Oxide Fuel Cells Based on an Adaptive Cascaded Sliding Mode Observer <i>Ziyi Yang</i> , Wuhan University of Technology, China
P129	The Minimum Inertia Evaluation for Receiving-end Power System under Variable Frequency Parameters <i>Zhengchen Zhu</i> , Shanghai University of Electric Power, China
P131	Research on a Method for Assessing Renewable Generation Hosting Capacity in Distribution Networks Based on Python and PSD-BPA Co-Simulation <i>Bingsheng Yuan</i> , China University of Mining and Technology, Beijing, China
P132	Evaluation of PFR Events in a Coal-Fired Power Unit Considering Operating Conditions and Response-State Deviations <i>Huiqiang Yu</i> , Shanghai University of Electric Power, China
P133	Diagnosis of the Impact of Turbine Valve Characteristics on Primary Frequency Regulation Based on QKAN-LSTM <i>Zhiyu Chen</i> , Shanghai University of Electric Power, China
P134	Performance Influencing Factors of a Dual-Tower Concentrated Solar Power Plant Considering Heliostat Dynamic Aiming Adjustment <i>Jiahao Wang</i> , Hohai University, China
P135	Refined Three Phase Electromechanical and Electromagnetic Modeling of Wind Turbines <i>Zhehan Qin</i> , Hohai University, China
P136	Research on Mechanical-Electromagnetic Fine Modeling of PSMG Offshore Wind Farms <i>Sijin Wang</i> , Hohai University, China

P137	Low-Carbon Economic Optimization Method for Electric-Gas-Hydrogen Coupled Parks Based on Integrated Energy Flow-Carbon Flow Tracin Luo Wang , Shanghai University of Electric Power, China
P138	Optimal Planning of Long-Duration Energy Storage Based on Ordinal Optimization Jianchu Mei , Jiangsu Keneng Electric Power Engineering Consulting Co., Ltd., China
P139	Real-Time Monitoring and Active Control Method for Safe, Economic and Green Operation of Complex Distribution Networks Hongjun Gao , Sichuan University, China
P143	Fault-Line Selection for Rural Distribution Networks Based on a Spatio-Temporal Fusion Neural Network Jinhui Xu , State Grid Jiangxi Fuzhou Power Supply Company, China
P144	Multidimensional Response Potential Forecasting for User-Side Energy Storage Considering Demand Response Event Conditions Chengyan Fan , Shanghai University of Electric Power, China
P145	Soft Regime-Aware Residual Learning for Robust Wind Power Forecasting Mengmeng Yang , Inner Mongolia University of Technology, China
P148	High-Frequency Circuit Modeling of IPMSM Using Three-Step Method Chengxin Zhong , Hohai University, China
P149	A Hybrid CNN-BiLSTM Framework for Residential Electric Vehicle Charging Demand Forecasting Yixin Zhang , Jiangnan University, China
P151	Cloud–Edge Collaborative Flexibility Assessment of Virtual Power Plants Considering Communication and Device Response Delays Lei Gan , Hohai University, China
P153	A Reinforcement Learning Scheduling Method for Distribution Network Photovoltaic Carrying Capacity for Seasonal Time-series Assessment Haifeng Liang , North China Electric Power University, China
P154	Two-Stage Distributionally Robust Planning of Integrated Energy Systems with KL-Divergence-Based Probability Ambiguity Haifeng Liang , North China Electric Power University, China
P155	Online Fault Diagnosis Method for Photovoltaic Arrays Based on Temporal Feature Learning Junyang He , Shanghai University of Electric Power, China
P156	Data-Driven KAN-Based Impedance Identiffication Method for PMSG-Based Direct-Drive Wind Turbines Shuhuan Li , Hohai University, China
P157	Low-Voltage Ride-Through Risk Identification for Renewable Energy in an AC/DC Receiving-End Power Grid Considering the Influence of DC System Yuqing Gu , Hohai University, China

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P186	Source-Load Coordinated Low-Carbon Economic Dispatch of Power Systems Considering Dynamic Carbon Emission Factor and Demand Response Yin Shen , State Grid Zhejiang Electric Power Co., Ltd., Wenzhou Power Supply Company, China
Poster Presentation III Chair: Lili Hao, Nanjing Tech University, China 12:30-13:30, Aug. 23, Sunday Online Meeting Room (线上会议室): 684-7073-8927 /Password: 0822	
P019	Review of the Application of Artificial Intelligence in Power Dispatch Control Chengsi Xu , Hangzhou Power Supply Company of State Grid Zhejiang Electricity Power Co., Ltd, China
P021	Time-Series vs. Statistical Methods for Small Current Fault Detection: A Comparative Review of Accuracy and Efficiency Danso Eric Obeng Akese , Nanjing University of Information Science and Technology, China
P023	Exploring Time-Series Machine Learning for Voltage Prediction in Air Conditioning Systems MD NUR ALAM , Nanjing University of Information Science and Technology, China
P024	Fault Detection in Power Systems Using Convolutional Neural Networks: A Review of Voltage and Current Data Visualization Techniques Javed Hossain , Guodian Nanjing Automation Co. Ltd, China
P025	Signal-Driven Fault Detection in Electrical Systems via Adaptive Machine Learning Krisdahim Kogoya , Guodian Nanjing Automation Co. Ltd, China
P026	Real-Time Fault Detection in Power Systems Using Adaptive Anomaly Detection Krisdahim Kogoya , Guodian Nanjing Automation Co. Ltd, China
P027-P060	A Review of Wearable Detectors for Toxic Environments: Devices, Mechanisms, Integration, and Application Scenarios EZZEGRAOUI CHEROUK , Guodian Nanjing Automation Co. Ltd, China
P028	A Review on Wearable Proximity Sensing Technologies for Live Electrical Object Detection Benbrahim Khalil , Nanjing University of Information Science and Technology, China

P029	Review and Prospect of Multi-agent Cooperation Mechanism for Interactive Energy Use between Buildings and Electric Vehicles Chengyi Qiu , State Grid Hangzhou Power Supply Company, China
P033	Adjustable Potential Evaluation Strategy of Aggregating Energy Storage Units Participating Grid Peak Shaving Response Regulation Yongjie Zhong , Guodian Nanjing Automation Co., Ltd., China
P034	Fault Reasoning Method for Booster Station Monitoring System Based on Model Fusion Hao Fu , Guodian Nanjing Automation Co., Ltd., China
P080	High-Impedance Fault Location for 35 kV Feeders Based on SPWVD and Intelligent Image Recognition Zhou Yu , Changzhou Institute of Technology, China
P100	Frequency-Constrained Unit Commitment for Renewable-Dominated Grids Considering Electrolyzer Virtual Inertia and Primary Frequency Response Yingyin Gong , Hohai University, China
P103	Surrogate-Assisted Deep Reinforcement Learning for Commercial HVAC Optimal Control Considering Thermal Inertia Jiaxuan Luo , Hohai University, China
P123	Coordinated Dispatch of Distribution Networks and Microgrids based on Frequency-Aware Feasible Operation Regions Jingyu Zhu , Hohai University, China
P130	A Multi-Time-Scale Supply-Demand Balance Optimization Method Based on a Joint Probability Distribution Model Zhiqi Xu , Southeast University, China
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CPSS Transactions on
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Transportation Guide of PSGEC 2026 Conference

PSGEC 2026 会议交通指南



Conference Venue: Holiday Inn Shanghai Hongqiao·China

会议地点：上海大华虹桥假日酒店

ADD.: No. 3555 Qixin Road, Minhang District Shanghai, 201101 PR. China

地址：中国上海闵行区七莘路 3555 号

✈️ **Airport ➡ Holiday Inn Shanghai Hongqiao 机场到会议酒店路线**

Shanghai Pudong International Airport ➡ Holiday Inn Shanghai Hongqiao·China

上海浦东国际机场➡酒店

Pudong International Airport Metro Station (take Metro Line 2 - direction Xujing East) ➡ Century Avenue Station (transfer to Line 9 - direction Songjiang South Station) ➡ Qibao Station (exit from Exit 6- 🚶 walk 1.3 kilometers) (About 2 hours)

浦东国际机场地铁站（搭乘地铁 2 号线-徐泾东方向）➡世纪大道站（换乘 9 号线-松江南站方向）➡七宝站（6 号口出- 🚶 步行 1.3 公里）

（全程约 2 小时）

Taxi 出租车

Based on the shortest distance by car (About 1 hour 21 minutes)

按驾车的最短路程计算（全程约 1 小时 21 分钟）

	Flag-down Fare (CNY) 起步价（元）	Price (CNY/Km) 单价（元/公里）	Estimated total cost (CNY) 预估总金额 （元）
Daytime 白天 (05:00-23:00)	14.0	2.7	181
Nighttime 夜间 (23:00-06:00)	18.0	3.5	234

✈️ Shanghai Hongqiao International Airport ➡ Holiday Inn Shanghai Hongqiao·China 上海虹桥国际机场➡酒店

Hongqiao East Transportation Center Bus Station (take the Hongqiao Hub Line 4 bus - direction to the Zizhu Science Park) ➡ Qixin Road Xingzhan Road ( walk 380 meters).

(About 30 minutes)

虹桥东交通中心 公交站（搭乘公交虹桥枢纽 4 路-紫竹科学园区方向）➡七莘路星站路

（  步行 380 米）

（全程约 30 分钟）

Taxi 出租车

Based on the shortest distance by car (About 20 minutes)

按驾车的最短路程计算（全程约 20 分钟）

	Flag-down Fare (CNY) 起步价（元）	Price (CNY/Km) 单价（元/公里）	Estimated total cost (CNY) 预估总金额（元）
Daytime 白天 (05:00-23:00)	14.0	2.7	32
Nighttime 夜间 (23:00-06:00)	18.0	3.5	41

High-speed Railway Station ➡ Holiday Inn Shanghai Hongqiao·China

(Shanghai Hongqiao Railway Station, Shanghai South Railway Station was listed)

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Destination: Holiday Inn Shanghai Hongqiao·China

终点: 上海大华虹桥假日酒店

1. ①Start: Shanghai Hongqiao Railway Station 起点: 上海虹桥站

Hongqiao East Transportation Center Bus Station (take the Hongqiao Hub Line 4 bus - direction to the Zizhu Science Park) ➡ Qixin Road Xingzhan Road ( walk 380 meters).

(About 30 minutes)

虹桥东交通中心 公交站（搭乘公交虹桥枢纽 4 路-紫竹科学园区方向）➡七莘路星站路（  步行 380 米）

② Taxi 出租车

Based on the shortest distance by car 按驾车的最短路程计算

About 15 minutes 全程约 15 分钟

	Flag-down Fare (CNY) 起步价 (元)	Price (CNY/Km) 单价 (元/公里)	Estimated total cost (CNY) 预估总金额 (元)
Daytime 白天 (05:00-23:00)	14.0	2.7	18
Nighttime 夜间 (23:00-06:00)	18.0	3.5	23

2. Start: Shanghai West Railway Station 起点: 上海南站

Shanghai South Railway Station Metro Station (take Metro Line 15 - direction Gucun Park) ➡ Guilin Road (transfer to Line 9 within the station - direction Songjiang South Station) ➡ Qibao Metro Station (walk 1.3 kilometers)

(About 50 minutes)

上海南站 地铁站（地铁 15 号线-顾村公园方向）➡桂林路（站内换乘 9 号线-松江南站方向）➡七宝地铁站（  步行 1.3 公里）

（全程约 50 分钟）



 Taxi 出租车

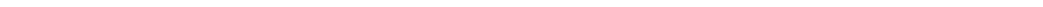
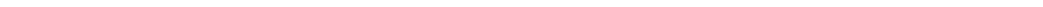
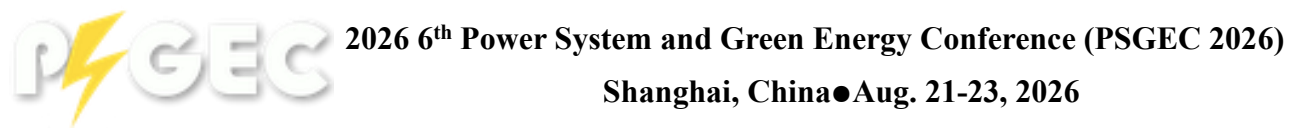
Based on the shortest distance by car 按驾车的最短路程计算

About 35 minutes 全程约 35 分钟

	Flag-down Fare (CNY) 起步价 (元)	Price (CNY/Km) 单价(元/公里)	Estimated total cost (CNY) 预估总金额 (元)
Daytime 白天 (05:00-23:00)	14.0	2.7	60
Nighttime 夜间 (23:00-06:00)	18.0	3.5	78



NOTE

[illegible]



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