



The 6th International Conference on Smart City and Green Energy

Brisbane, Australia · August 6-9, 2026

CONFERENCE PROGRAM



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CONFERENCE GUIDELINES

► Oral Presentations

- **Time Allocation:** The standard presentation duration is **15 minutes**. Presenters are advised to allocate **12-13 minutes** for the talk, leaving **2-3 minutes** for Q&A with the audience.
- **Preparation & Backup:** Please prepare your presentation slides in **PowerPoint or PDF format**, and keep a **backup copy** on a USB flash drive.
- **On-Site Setup:** Presenters should arrive at their assigned session room **10-15 minutes** prior to the start of the session to upload and test their presentation files. Your punctuality and active participation are greatly appreciated.
- **Provided Equipment:** Laptops, projectors, screens, and laser pointers will be available in each session room.

► Security & Personal Belongings

Please keep your personal belongings with you at all times. Do not leave bags, laptops, or valuable personal items unattended in any conference area. The organizer assumes no liability for lost or stolen items.

► Name Badges & Access

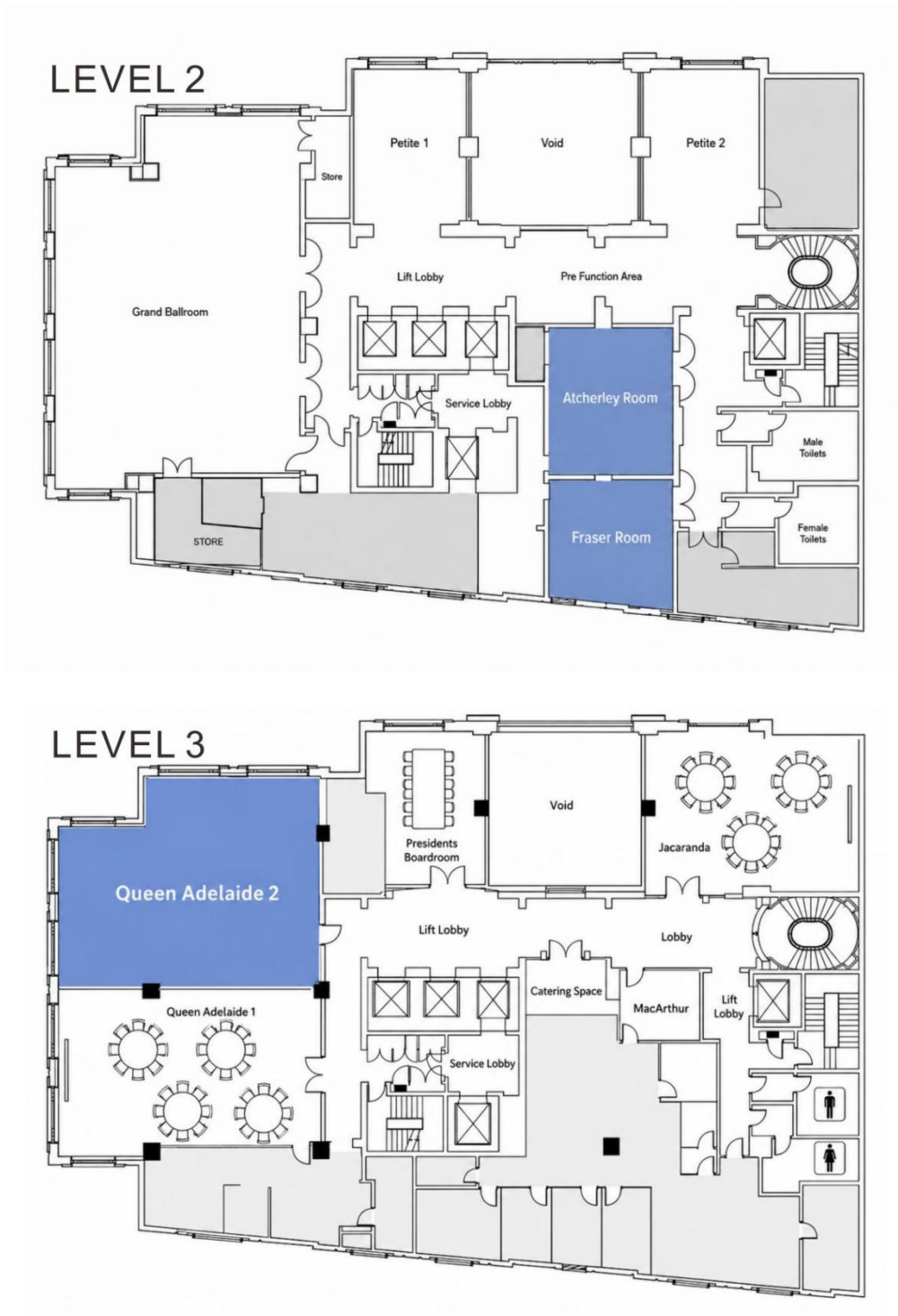
For security purposes, all attendees—including delegates, speakers are required to wear their name badge at all times during sessions and social functions. Venue access is strictly restricted to badge holders. Please safeguard your name badge throughout the event.



CONFERENCE VENUE

Brisbane Marriott Hotel

Address: 515 Queen Street, Brisbane, Queensland, Australia, 4000



CONFERENCE AGENDA

► August 6, 2026

Time	Event	Venue
10:00-18:00	Registration & Conference Materials Collection	Lobby 1F

► August 7, 2026

Time	Event	Venue
Opening & Award Ceremony		
09:00-09:10	Opening Address: Prof. Fushuan Wen, Zhejiang University	Level 3 Queen Adelaide 2
	Welcome Address: Dr. Yuchen Zhang, Queensland University of Technology	
	Best Paper Award	
Keynote Speeches		
Chair: Dr. Yuchen Zhang, Queensland University of Technology		
09:10-09:50	Prof. Yusheng Xue Academician of the Chinese Academy of Engineering, SGEPRI/NARI Speech Title: AI + WRT: A Universal Framework For Studying Complex System Mechanisms	Level 3 Queen Adelaide 2
09:50-10:30	Prof. Gerard Ledwich Queensland University of Technology Speech Title: Communications and Analysis: Power Opportunities	
10:30-10:45	Group Photo & Coffee Break	
Keynote Speeches		
Chair: Prof. Zhixin Wang, Shanghai Jiao Tong University		
10:45-11:25	Prof. Jing Qiu The University of Sydney Speech Title: Planning and Integration of Mobile Energy Support System for Smart Grid	Level 3 Queen Adelaide 2
11:25-12:05	Prof. Guo Chen The University of New South Wales Speech Title: Cybersecurity Challenges in Renewable-Dominated Power Grids	
12:05-13:30	Lunch @Level 3 Foyer	
Technical Sessions		
13:30-15:25	TS01: Power Electronics, Control, and Emerging Energy Technologies Paper IDs: Invited Speeches/5212/2184/5775/0961/4905	Level 2 Fraser
	TS02: Next-Generation Computational Engines for Power System Applications: Quantum Computing, AI, and Beyond Paper IDs: Invited Speech/9369/7410/8536/3313/7470/1792	Level 2 Atcherley
15:25-15:40	Coffee Break	
15:40-18:00	TS03: Low-Carbon Urban Transformation: Smart Green Infrastructure and Policy Pathways Paper IDs: 0821/0601/6119/7370/6947/8990/6529/0684/7226	Level 2 Fraser



15:40-18:00	TS04: Smart Grids, Renewable Integration, and Energy Storage Systems Paper IDs: 1631/5338/8497/6868/4997/9803/2641/2592/9381/3032	Level 2 Atcherley
18:30-20:30	Banquet @Level 3 Queen Adelaide 2	

► **August 8, 2026**

Time	Event	Venue
09:00-10:30	TS05: Artificial Intelligence and Data Analytics for Power and Energy Systems Paper IDs: 7574/8444/7730/7799/2884/0956	Level 2 Fraser
	TS06: Coupled Energy-Carbon Markets and Digitalized Demand Flexibility Paper IDs: 9053/5460/2786/8044/3617/4971	Level 2 Atcherley
10:30-10:40	Coffee Break	
10:40-12:00	TS07: Artificial Intelligence for Grid Resilience, Reliability, and Security Paper IDs: 6033/1972/8410/8386/2785/3841	Level 2 Fraser
	TS08: Data-Driven Governance and Policy Synergies in Energy Transition Paper IDs: 1141/5675/7369/1808	Level 2 Atcherley
12:00-13:30	Lunch @Level 2 Foyer	
13:30-16:15	TS09: Resilient Microgrids and Distributed Renewable Energy Systems Paper IDs: 2445/4091/4190/4032/8745/5846/7132/2020/0545/6635/1520	Level 2 Fraser

KEYNOTE SPEAKERS

🕒 August 7, 2026 | 09:10 - 09:50

📍 Level 3 Queen Adelaide 2



Prof. Yusheng Xue

Academician of the Chinese Academy of Engineering,
SGEPRI / NARI

Bio.: Xue Yusheng, an academician of the Chinese Academy of Engineering, honorary president of the State Grid Electric Power Research Institute, and an expert in stability theory and power system automation. His invented EEAC (Extended Equal Area Criterion) theory has conquered the world's challenging problem of quantitative analysis of transient stability in power systems. To date, it remains the only internationally recognized quantitatively analytical method that has both undergone theoretical verification and been implemented in engineering practices. He developed the Wide-Area Power System Blackout Defense System (WARMAP), which is now applied to over 90% of provincial-level and higher power grids in China. He proposed the CPSSE (Complex Power System Sustainable Evolution) framework and an overall solution enabling power systems to proactively support energy transition, providing decision-making support for the clean energy transformation of nations, regions, and energy enterprises. Additionally, he put forward the Holistic Reductionism (WRT) theory, continuously exploring the holistic spatio-temporal mechanisms underlying emergent phenomena in complex models. He has received 1 National Science Conference Award, 1 First Prize of the National Science and Technology Progress Award, 3 Second Prizes of the National Science and Technology Progress Award, and 2 Second Prizes of the National Technology Invention Award. He has also been honored with titles such as National Advanced Worker and the First Jiangsu Provincial Science and Technology Outstanding Contribution Award.

AI + WRT: A Universal Framework For Studying Complex System Mechanisms

Abstract: This speech presents a universal AI+WRT framework to decode high-order uncertain complex energy systems built on the Cyber-Physical-Social System for Energy-Environment-Economy (CPSS-EEE). Existing research work splits holism and reductionism as incompatible methodologies, failing to tackle multi-sector, high-dimensional, time-varying energy systems including modern power grids with renewable energy, carbon markets and social policy factors. To bridge this gap, WRT is developed, relying on entropy-preserving dimension-reduction mapping. It transforms high-dimensional evolutionary trajectories into solvable 2D elementary subsystems via segmented linearization and hybrid simulation, unifying holistic system integrity and microscopic mechanism analysis. For multiple kinds of uncertainties in open real-time energy systems, the Symbol String Pretrained Model (SPT) acts as the AI upper layer. It sorts massive potential failure scenarios by risk concern and filters low-impact cases to reduce computing load. The lower WRT layer then executes rigorous deterministic causal analysis for each reserved scenario, delivering explainable control strategies. Validated by a 2023 Shanxi ice disaster blackout case, the AI+WRT framework solves the dilemma between AI's black-box vulnerability and pure reductionism's computational bottleneck, forming a complete epistemology for complex CPSS-EEE.



KEYNOTE SPEAKERS

🕒 August 7, 2026 | 09:50 - 10:30

📍 Level 3 Queen Adelaide 2



Prof. Gerard Ledwich

Queensland University of Technology

Bio.: Prof. Ledwich has been at QUT since 1999 and has been Discipline leader for Power Engineering as well as Theme Leader in the Institute for Future Environments. The Power Engineering Discipline covers the fields of power system with studies in risk managed distribution planning, wide area controls for transmission and in demand management and this is a strong focus for Prof Ledwich’s research. The power electronics area of his research covers the control of microgrids, power hardware in the loop. The other aspect of his power engineering research is in the equipment area where there is research on the on-line condition monitoring of oil-paper insulation. The power engineering group led by Prof Ledwich has been a leading winner of ARC funds nationally and has established good relations with many industries nationally and other universities worldwide.

Communications and Analysis: Power Opportunities

Abstract: The developments in communications and new control tools open many opportunities for power systems in transmission and distribution. These address old issues as well as inverter dynamics.

Transmission:

Phasor measurement systems permit a wide overview of the state of a system. For the Australian system we have found that it behaves as a 5 area network of equivalent generators. Typically key bus angles will be measured and communications to send this area aggregate angle to controllers. Analysis has shown that controls of inverters and customer response based on the angle of the area equivalent can significantly enhance the coherence for both large and small disturbances.

As the amount of renewables in the network increase there is a risk of oscillations due on inverters. The risk is for both grid forming (voltage feedback) and grid following inverters (current feedback). The use of current and voltage state feedback and the reference to the area angle enhances performance.

Distribution:

Identification of the Thevenin impedance at the point of connection of each inverter can enhance performance. Controls for engagement of customer loads and batteries can be locally modified to maintain loading and voltage constraints. A key lack of visibility in distribution for most loads has been in the low voltage segment. Continuous state estimation using limited measurements can infer injection currents and voltage profiles based on knowledge of system impedances. Where the impedances are uncertain, an identification stage alternating with state estimation can refine both impedance and customer state. When controlling customer loads/batteries there is a strong benefit for broadcast to all loads in an area with delays less than 100mS.

Markets:

One proposed solution to balancing supply and demand is to have an automatic real time distribution market giving power balance within network constraints. The adjacency process passes proposed prices down and aggregated demand up the feeder giving fast convergence. This is based on communications to adjacent customers. The response follows customer constraints. For system emergencies using fast response needs pre-arranged contracts.



KEYNOTE SPEAKERS

🕒 August 7, 2026 | 10:45 - 11:25

📍 Level 3 Queen Adelaide 2



Prof. Jing Qiu

The University of Sydney

Bio.: Jing Qiu (Senior Member, IEEE) is currently a Senior Lecturer in Electrical Engineering at the University of Sydney, Australia. He obtained his B.Eng. degree in electrical and control engineering from Shandong University, China, M.Sc. degree in environmental policy and management, majoring in carbon financing in the power sector, from The University of Manchester, U.K., and Ph.D. in electrical engineering from The University of Newcastle, Australia, in 2008, 2010 and 2014 respectively. His areas of interest include power system planning, data-driven energy market analysis, and artificial intelligence (AI)-assisted energy pricing and trading strategies. He is the Editorial Board Member of IET Renewable Power Generation and Energy Conversion and Economics.

Planning and Integration of Mobile Energy Support System for Smart Grid

Abstract: The rapid growth of electric vehicles and distributed low-carbon resources is creating new challenges for distribution-system resilience, voltage security, and operational flexibility in modern smart grids. This talk presents the planning and integration of a mobile energy support system, with particular emphasis on multi-robot adaptive charging networks as flexible and intelligent support resources. First, a resilience-oriented planning framework is developed by coupling transportation networks, electric-vehicle behavioral modelling, and distribution-system analysis. A dual-mode dispatch strategy is proposed to enable mobile charging units to operate economically under normal conditions while delivering resilience-prioritized support during emergency situations. In addition, a voltage-stability-index-based resilience indicator is introduced to quantify system stress and guide adaptive task allocation. Second, the presentation extends from system planning to grid integration through a hierarchical framework for smart-grid voltage regulation. Within this framework, mobile charging robots are coordinated with conventional utility devices and fast reactive-power support resources through a three-level architecture, enabling the integrated realization of vehicle-to-vehicle service, vehicle-to-grid support, and minute-scale voltage regulation. Overall, this talk presents a unified framework for the planning, coordination, and intelligent integration of mobile energy support systems in future EV-dominated smart grids.



KEYNOTE SPEAKERS

🕒 August 7, 2026 | 11:25 - 12:05

📍 Level 3 Queen Adelaide 2



Prof. Guo Chen

The University of New South Wales

Bio.: Dr. Guo Chen received the Ph.D. degree in Electrical Engineering from the University of Queensland, Brisbane, Australia. He is currently a Scientia Associate Professor with the School of Electrical Engineering and Telecommunications, the University of New South Wales, Sydney, Australia. His research interests include sustainable energy system modeling, artificial intelligence, optimization and control, and their applications in smart grid. Dr. Chen is an Associate Editor of IEEE Transactions on Smart Grid, IEEE Power Engineering Letters, IEEE Transactions on Industry Applications and IET Energy Conversion and Economics.

Cybersecurity Challenges in Renewable-Dominated Power Grids

Abstract: The ongoing transition toward renewable-dominated power grids is fundamentally transforming the architecture and operation of modern power systems. As renewable energy resources become increasingly integrated through advanced digital control, communication, and automation technologies, the cyberattack surface of power grids continues to expand, posing significant challenges to system security, reliability, and resilience. This seminar presents recent research on the cybersecurity of renewable-dominated power grids, with a focus on the emerging vulnerabilities associated with highly digitalized and decentralized energy systems. Representative cyber threats—including false data injection, denial-of-service attacks on distributed energy resources and cloud-based energy management platforms, inverter parameter manipulation, and GPS spoofing—are discussed to demonstrate their impacts on grid operation and system stability. The seminar further reviews current industrial practices, regulatory frameworks, and emerging cybersecurity standards, highlighting their limitations in addressing the unique characteristics of renewable-dominated power systems. Finally, key research challenges and future directions are outlined to advance cyber-resilient power system design and support the secure, reliable, and sustainable transition to future energy systems.



INVITED SPEAKERS

🕒 August 7, 2026 | 13:30 - 13:50

📍 Level 2 Fraser



Prof. Li Sun

Southeast University

Bio.: Li Sun, IEEE Senior Member, received the PhD degree from Tsinghua University in 2017. He is currently the Youth Chair Professor in the School of Energy and Environment at Southeast University, Nanjing, China. He was a Visiting Associate Professor in Cornell University since 2019 to 2020. He is mainly engaged in the research of dynamics and control of energy systems with thermal and hydrogen components. He has led over 30 national and enterprise commissioned research projects with more than 20 million CNY, and authored 1 book and more than 120 referred journal papers with more than 5000 citations. He was listed in the Stanford's top 2% top scientists in the world. He is the Chair of IFAC TC 10.1 on Power Systems and Power Electronics and Vice Chair of the Working Group of IEEE Standard P3464 and (guest) editors of renowned journals like Energy, Renewable Energy, and Control Engineering Practice. He was awarded the National-level Youth Talent Fellowship of China in 2023 and Jiangsu Province Outstanding Young Scholars Fund in 2024. As the leading scientist, he won the First Prize of China Electric Power Science and Technology Award and the Second Prize of Jiangsu Province Science and Technology Progress Award, for contributions to the coordinated control of electricity and heat integrated energy systems.

The Role of Thermal Inertia in Improving the Flexibility of Power Grid with High Renewable Penetration

Abstract: Thermal inertia widely exists in the power systems, such as the thermal power generation in the source side and the heat pump applications in the load side. These thermal inertia is usually caused by the slow dynamics of the temperature and pressure of working fluid such as water/steam, air or refrigerant within a limited volume. This talk will discuss the potential of utilizing the thermal inertia to help smooth the fluctuation of renewable energy and thus improve the flexibility of the power grid. However, the inertia of different thermal components exhibit different time-scale dynamics and requires cautious control design. This talk begins with the dynamic modelling and analysis methods. Several uncertainty compensation based control methods are proposed for different thermal processes, including Economic Model Predictive Control (EMPC) for the energy efficiency optimization of multivariable processes. To demonstrate the efficacy, some field applications of thermal inertia control are introduced in the cases like coal-fired power plant, building energy systems and cascaded heat pump systems for distributed steam generation in industry.



INVITED SPEAKERS

🕒 August 7, 2026 | 13:50 - 14:10

📍 Level 2 Fraser



Prof. Liang Yuan

Central South University

Bio.: Liang Yuan received the B.Eng. degree from Nanjing University of Science and Technology in 2016 and the Ph.D. degree from the University of New South Wales in 2020. He joined the School of Automation, Central South University in 2021. He was selected for the Hunan Province Furong Talent Program for Young Professionals in 2025. His main research interests include stability analysis and stabilization technologies for renewable energy grid integration, load and renewable energy forecasting and optimal operation of integrated energy systems. He has published more than 50 high-quality academic papers, including 25 as first author or corresponding author, and has been granted more than 10 Chinese and international invention patents. He has led and participated in several large-scale research projects, including National Natural Science Foundation of China (Young Scientists/Major Program/Joint Fund Program/General Program). He is a Young Assistant Editor of Protection and Control of Modern Power Systems, a Young Editorial Board Member of Energy Storage and Applications, and a Young Expert Committee Member of Energy Conversion and Economics.

Transient Stability Analysis and Stabilization Strategy for Grid-Forming Converters under Multiple Constraints

Abstract: With the rapid development of new-type power systems dominated by renewable energy and power electronic devices, low inertia, weak grid support and prominent stability problems have become critical challenges. Grid-forming (GFM) converters, as key equipment for new power system construction, face severe transient synchronization instability under large disturbances due to limited overcurrent capability and complex voltage-dynamic coupling. This report focuses on the transient stability analysis and stabilization strategies of GFM converters under multiple constraints. First, the windup phenomenon of GFM converters with priority current limiter is revisited, and a power angle criterion for this phenomenon is derived based on critical switching angle and fault-clearing angle. Second, the voltage-dynamic coupling effect on transient stability in high R/X ratio networks is revealed, and a port-controlled Hamiltonian (PCH) model is established to characterize the stability boundary accurately, with an energy reshaping control proposed for stability enhancement. Furthermore, a coordinated control strategy is designed to balance transient stability, GFM capability and current limitation by adaptively adjusting terminal voltage characteristics. Experimental results verify the effectiveness of the proposed methods in enhancing transient performance under various grid strengths. This work provides theoretical support and technical solutions for the reliable and stable application of GFM converters in new-type power systems.



INVITED SPEAKERS

🕒 August 7, 2026 | 13:30 - 13:50

📍 Level 2 Atcherley



Prof. Junhua Zhao

The Chinese University of Hong Kong (Shenzhen)

Bio.: Professor Junhua Zhao is a Professor at The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen) , an IET Fellow and AAIA Fellow. He serves as the Director of the Department of New Energy Science and Engineering and the Director of the Energy Market and Energy Finance Laboratory at the Shenzhen Institute of Advanced Finance. Additionally, he is an Adjunct Professor at the Shenzhen Loop Area Institute.

Professor Zhao's research focuses on smart grids, electricity markets, low-carbon transitions, and artificial intelligence. Beyond academia, he has made significant contributions to the industry, serving as an expert panelist for China's first provincial and regional electricity spot markets and participating in the design of the nation's first cross-border carbon trading product.

Professor Zhao's distinguished career is marked by numerous accolades, most notably receiving the First Prize of the Energy Innovation Award from the China Energy Research Society (CERS) and the Grand Prize of the Electric Power Innovation Award from the China Electricity Council (CEC) in 2025. He has been consistently recognized as a "Highly Cited Chinese Scholar" by Elsevier (2021 – 2024) and is a two-time recipient of the International Finance Forum's "Global Green Finance Award" (2023 – 2024). In the realm of technology and innovation, he was named a "China Intelligent Computing Innovator" by MIT Technology Review in 2023 and received the Guangdong Province Electric Power Science and Technology Outstanding Contribution Award in 2022. His academic achievements further include the 2016 Best Reviewer Award for IEEE Transactions on Smart Grid, two Best Paper Awards at the IEEE PES General Meeting, and two Second Prizes in the Hunan Province Science and Technology Progress Award.

Large Model Agents in Power Grids: Human-AI Collaboration and a Paradigm Shift

Abstract: This talk offers an initial exploration of integrating large language models (LLMs) and agent technologies into modern power systems within market environments. It begins with a foundational introduction to LLM-based agents, outlining their core capabilities and architectures. A significant portion of the talk focuses on an LLM-enabled human – AI collaboration paradigm, illustrating how intelligent agents can serve as copilots to improve the efficiency and accuracy of decision-making for power engineers.

The talk further examines practical applications and emerging scenarios, including:

- Power System Dispatch: Optimizing grid scheduling via intelligent decision-making frameworks in electricity market environments.
- Market Simulation: Simulating power and carbon market dynamics to analyze policy impacts and trading strategies.
- Quantum AI Integration: Exploring the emerging role of quantum artificial intelligence to enhance predictive accuracy and reasoning capability in advanced power market simulations.

This presentation aims to provide insights into how LLM-based agents—alongside frontier technologies like Quantum AI—are reshaping the future of smart grids toward a more intelligent, efficient, and low-carbon ecosystem.

TECHNICAL SESSIONS

TS01: Power Electronics, Control, and Emerging Energy Technologies

Time	August 7, 2026, 13:30-15:25	Venue	Level 2 Fraser
Session Chair	Prof. Zhixin Wang, Shanghai Jiao Tong University		

Time	Details
13:30-13:50	Invited Speech Speech Title: The Role of Thermal Inertia in Improving the Flexibility of Power Grid with High Renewable Penetration Presenter: Li Sun, Southeast University
13:50-14:10	Invited Speech Speech Title: Transient Stability Analysis and Stabilization Strategy for Grid-Forming Converters under Multiple Constraints Presenter: Liang Yuan, Central South University
14:10-14:25	Paper ID: 5212 Paper Title: Capacitor Voltage Balancing Strategy for Modular Multilevel Matrix Converter Based on Third-Harmonic Circulating Current Injection Author(s): Zhao Yunfan, Wen Wang, Qilong Xiao, Jiayi Yang, Xiaoyun Zuo, Xiangjun Zeng Presenter: Yunfan Zhao, Changsha University of Science and Technology
14:25-14:40	Paper ID: 2184 Paper Title: Identifying Disaster-Related Meteorological Factors through Climate Anomaly Analysis and Explainable Machine Learning Author(s): Zehua Zhao, Jiajia Yang, Yang Du, Mohan V. Jacob Presenter: Jiajia Yang, James Cook University
14:40-14:55	Paper ID: 5775 Paper Title: Complex Power Factor Angle-Based Control Scheme for Cascaded STATCOM Author(s): Hangge Guo, Jianheng Lin, Yuxia Yao, Yao Sun Presenter: Hangge Guo, Central South University
14:55-15:10	Paper ID: 0961 Paper Title: Small-Signal Modeling and Analysis of Grid-Forming Flow Battery Energy Storage System Author(s): Xiaomeng Liu, Jiaqi Yang, Yafei He, Bin Liu, Zhen Li, Quan Xu Presenter: Bin Liu, China University of Petroleum (Beijing)
15:10-15:25	Paper ID: 4905 Paper Title: Suppression of High-Frequency Oscillations in Grid-Forming MMC-HVDC for Offshore Wind Integration Author(s): Huayu Huang, Mingkang Wu, Lei Chen, Yulin Wang, Dongxu Chang, Kaishun Xiahou Presenter: Kaishun Xiahou, South China University of Technology

TECHNICAL SESSIONS

TS02: Next-Generation Computational Engines for Power System

Applications: Quantum Computing, AI, and Beyond

Time	August 7, 2026, 13:30-15:20	Venue	Level 2 Atcherley
Session Chair	Assoc. Prof. Yateendra Mishra, Queensland University of Technology		

Time	Details
13:30-13:50	Invited Speech Speech Title: Large Model Agents in Power Grids: Human-AI Collaboration and a Paradigm Shift Presenter: Junhua Zhao, The Chinese University of Hong Kong (Shenzhen)
13:50-14:05	Paper ID: 9369 Paper Title: A Post-Quantum Testbed for EV and DER Communications through Grid-Connected Home Energy Management Systems Author(s): Robert Marlin, Yateendra Mishra, Yuchen Zhang Presenter: Robert Marlin, Queensland University of Technology
14:05-14:20	Paper ID: 7410 Paper Title: Hybrid Deep Learning-Based Protection Scheme for Fault Detection and Classification in AC Microgrids Author(s): Muhammad Uzair,, Li Li Syed Basit Ali Bukhari Presenter: Muhammad Uzair, Engineering Institute of Technology
14:20-14:35	Paper ID: 8536 Paper Title: A Review of Post Quantum Cryptography for Power Systems and Energy Networks Author(s): Vu Thien An Ngo, Kien Nguyen, Yuchen Zhang, Y. S. Yang, Yateendra Mishra Presenter: Vu Thien An NGO, Queensland University of Technology
14:35-14:50	Paper ID: 3313 Paper Title: A Transformer-Enhanced Spatial Decision-Learning Framework for Wind-Energy Suitability Zoning Author(s): Xiaohui Du, Zi Lu, Yixin Guo, Xinru Du, Yiming Zheng, Qi Wang, Yuanyuan Chen Presenter: Xiaohui Du, Hebei Normal University
14:50-15:05	Paper ID: 7470 Paper Title: A Distributed Frequency Support Control Strategy for PV-Battery System Based on Deep Reinforcement Learning Author(s): Shujin Chen, Hua Han, Yao Sun, Mei Su, Longzheng Zhang, Xing Li, Liang Yuan, Jingjie Huang Presenter: Shujin Chen, Central South University

Time	Details
15:05-15:20	Paper ID: 1792 Paper Title: Hybrid Quantum Annealing CQM Solver for Alternating Current Optimal Power Flow Author(s): Vu Thien An Ngo, Kien Nguyen, Yuchen Zhang, Y. S. Yang, Yateendra Mishra Presenter: Vu Thien An NGO, Queensland University of Technology

TECHNICAL SESSIONS

TS03: Low-Carbon Urban Transformation: Smart Green Infrastructure and Policy Pathways

Time	August 7, 2026, 15:40-17:55	Venue	Level 2 Fraser
Session Chair	Prof. Guo Chen, The University of New South Wales		

Time	Details
15:40-15:55	Paper ID: 0821 Paper Title: Institutional Barriers to Rooftop Greenhouse Implementation: Insights from Expert Consensus in Korea Author(s): Hyobhin Lee, Eunsek Lee Presenter: Hyobhin Lee, Architecture & Urban Research Institute
15:55-16:10	Paper ID: 0601 Paper Title: Multi-objective Optimization of Window-to-Wall Ratio for Office Buildings in Cold Climates: A Case Study of Tianjin Author(s): Yantong Li, He Zhang, Rui Wang, Mengge Du, Xiya Zhao, Zhaoqi Lin Presenter: Yantong Li, Tianjin University
16:10-16:25	Paper ID: 6119 Paper Title: From Pilot to Practice: Institutional Barriers to Integrating Smart Building Innovations into Urban Systems Author(s): Jeheon Woo, Eunsek Lee Presenter: Jeheon Woo, Architecture & Urban Research Institute
16:25-16:40	Paper ID: 7370 Paper Title: Uncovering the Spatial Polarization of Urban Carbon Neutrality in China: Typology-Driven Differentiated Pathways Author(s): He Zhang, Chao Wang, Yi Zhang, Yuqing Wu and Rui Wang Presenter: Yuqing Wu, Tianjin University
16:40-16:55	Paper ID: 6947 Paper Title: The Symbiotic Roof: Rooftop Greenhouses as Integrated Thermal-Energy Systems for Climate-Neutral Cities Author(s): Eunsek Lee Presenter: Eunsek Lee, Architeture & Urban Research Institute
16:55-17:10	Paper ID: 8990 Paper Title: Multi-level Collaborative Decision-making for Low-carbon Urban Construction Pathways Based on Urban-District-Campus Profiling Constraints Author(s): He Zhang, Yi Zhang, Chao Wang, Yanan Lei, Mengge Du Presenter: Yanan Lei, Tianjin University

Time	Details
17:10-17:25	Paper ID: 6529 Paper Title: Multi-Criteria Decision Framework for Optimal Building Selection in Rooftop Greenhouse Smart Green Building Systems: A Case Study of Public Buildings in Daejeon, South Korea Author(s): Seokhwan Ji, Eunseok Lee Presenter: SeokHwan Ji, Architecture & Urban Research Institute
17:25-17:40	Paper ID: 0684 Paper Title: Configuration Dependence Strictly Bounds Deep Decarbonization in Heterogeneous Cities Author(s): He Zhang, Chao Wang, Yi Zhang, Tan Nie, Mengge Du Presenter: Mengge Du, Tianjin University
17:40-17:55	Paper ID: 7226 Paper Title: From Pilot to Policy: Rooftop Greenhouses as Smart City Infrastructure Author(s): Jonghoon Park, Eun Sek Lee Presenter: Jonghoon Park, Architecture & Urban Research Institute

TECHNICAL SESSIONS

TS04: Smart Grids, Renewable Integration, and Energy Storage Systems

Time	August 7, 2026, 15:40-18:10	Venue	Level 2 Atcherley
Session Chair	Prof. Liang Yuan, Central South University		

Time	Details
15:40-15:55	Paper ID: 1631 Paper Title: Multi-timescale Scheduling of Active Distribution Systems with Heterogeneous Demand Response Author(s): Ao Dong, Zechen Wu, Yunpeng Jiang, Jian Liu, Zhenzhi Lin, Fushuan Wen Presenter: Ao Dong, Zhejiang University
15:55-16:10	Paper ID: 5338 Paper Title: A Preliminary Case Study of State-Aware MPC Scheduling for Urban Distribution Systems Author(s): Hui Xiang, Liang Yuan, Penghui Lyu, Xubin Li, Zhangjie Liu, Mei Su Presenter: Hui Xiang, Central South University
16:10-16:25	Paper ID: 8497 Paper Title: A Cointegration-Based Flexible Power Balance Dispatch Method for Low-Inertia Islanded Urban Power Systems Author(s): Penghui Lyu, Liang Yuan, Hui Xiang, Zhangjie Liu, Xubin Liu, Mei Su Presenter: Penghui Lyu, Central South University
16:25-16:40	Paper ID: 6868 Paper Title: High-Fidelity Digital Twin-Based XR Smart City Energy Management: Human-in-the-Loop Simulation and EEG-Assisted Decision Analysis Author(s): Chinlun Lai Presenter: Chinlun Lai, Asia Eastern University of Science and Technology
16:40-16:55	Paper ID: 4997 Paper Title: Stability and Conflict of Parallel Dual-Loop Active Arc Suppression with Long Line Impedance Author(s): Weiwen Hou, Wen Wang, Muye Chen, Xiaoyun Zuo, Xiangjun Zeng Presenter: Weiwen Hou, Changsha University of Science and Technology
16:55-17:10	Paper ID: 9803 Paper Title: Joint Planning and Operation Optimization of Wind-Solar Hydrogen Production Station Considering Uncertainty Author(s): Xuyao Meng, Zechen Wu, Jiajia Liu, Zhenzhi Lin and Fushuan Wen Presenter: Xuyao Meng, Zhejiang University
17:10-17:25	Paper ID: 2641 Paper Title: Map of Wind-Solar Complementary Clusters in China Based on Machine Learning Spatial Clustering Method Author(s): Xinru Du, Zi Lu, Xiaohui Du, Yiming Zheng, Peiyao Kang Presenter: Xinru Du, Hebei Normal University



Time	Details
17:25-17:40	Paper ID: 2592 Paper Title: Cross-Verification of Unsteady Aerodynamics in a Novel Three-Stage Coaxial Counter-Rotating Wind Turbine Using URANS Framework Author(s): Huy Le Dang, The-Bao Nguyen Presenter: The Bao Nguyen, Ho Chi Minh University of Technology
17:40-17:55	Paper ID: 9381 Paper Title: A gOSCR-Sensitivity-Based Fast Screening Method for Grid-Forming Energy Storage Configuration under Small-Signal Stability Margin Constraints Author(s): Chengzhang Wu, Liang Yuan, Mingxin Hu, Yuan Zhang, Xubin Liu, Hua Han, Mei Su Presenter: Chengzhang Wu, Central South University
17:55-18:10	Paper ID: 3032 Paper Title: Abnormal Power Consumption Identification of EV Charging Piles Based on Local Outlier Factor and Random Forest Author(s): Yuhua Xuan, Chengeng Niu, Xiangyu Zhao, Zhenzhi Lin, Fushuan Wen Presenter: Yuhua Xuan, Zhejiang University

TECHNICAL SESSIONS

TS05: Artificial Intelligence and Data Analytics for Power and Energy Systems

Time	August 8, 2026, 09:00-10:30	Venue	Level 2 Fraser
Session Chair	Dr. Yuchen Zhang, Queensland University of Technology		

Time	Details
09:00-09:15	Paper ID: 7574 Paper Title: Integrated Electricity-Carbon-Green Certificate Price Signal for Demand Management Based on Multi-Agent Deep Reinforcement Learning Author(s): Zhiheng Zhang, Anam Malik, Jayashri Ravishankar, Toan Phung Presenter: Zhiheng Zhang, University of New South Wales
09:15-09:30	Paper ID: 8444 Paper Title: A Hybrid Bayesian-RFW Neural Network Framework with Decision Fusion for High-Risk Distribution Cable Identification Author(s): Huiyuan Tan, Wen Wang, Xiangpeng Feng, Xiaoyun Zuo, Sheng Su Presenter: Huiyuan Tan, Changsha University of Science and Technology
09:30-09:45	Paper ID: 7730 Paper Title: State of Health Estimation for Lithium-Ion Batteries based on Feature Engineering and Neural Ordinary Differential Equation Author(s): Zili Wang, Mei Su, Long Liang, Tao Ling, Hua Han, Yao Sun Presenter: Zili Wang, Central South University
09:45-10:00	Paper ID: 7799 Paper Title: Static Equation Modeling of Composite Loads: A Kolmogorov-Arnold Network based Learning Approach Author(s): Sonam Dorji, Yongkang Sun, Yuchen Zhang, Ghavameddin Nourbakhsh, Yateendra Mishra Presenter: Sonam Dorji, Queensland University of Technology
10:00-10:15	Paper ID: 2884 Paper Title: Hierarchical Single-Ended Unipolar Fault Diagnosis for DC Microgrids Author(s): Wei Zou, Hua Han, Hongyi Liu, Tao Ling, Weiwei Li, Yao Sun, Mei Su Presenter: Wei Zou, Central South University
10:15-10:30	Paper ID: 0956 Paper Title: Measured Data of Wind Speeds in Wuqi Area on Taiwan Island: Signal Processing and the Study Author(s): Yusi Shih Presenter: Yusi Shih, NTOU



TECHNICAL SESSIONS

TS06: Coupled Energy-Carbon Markets and Digitalized Demand Flexibility

Time	August 8, 2026, 09:00-10:30	Venue	Level 2 Atcherley
Session Chair	Prof. Jing Qiu, The University of Sydney		

Time	Details
09:00-09:15	Paper ID: 9053 Paper Title: Screening Electricity Market Participation Options in Nordic Electricity Markets: A Deterministic Risk-Tier Framework Author(s): Zheng Grace Ma, Frederik Wagner Madsen, Bo Norregaard Jørgensen Presenter: Bo Nørregaard Jørgensen, University of Southern Denmark
09:15-09:30	Paper ID: 5460 Paper Title: Evolutionary Game Analysis of Market Elasticity in Green Electricity Certificate-to-Carbon Emission Allowance Offset Mechanism Design Author(s): Xingyu Pan, Yujuan Fang, Zheng Li, Wenjin Yang, Tianduo Peng Presenter: Xingyu Pan, Tsinghua University
09:30-09:45	Paper ID: 2786 Paper Title: A Game-Theoretic Segmented Bidding Model for Coupled Electricity-Carbon Markets with Renewable Integration Author(s): Zuliang Huang, Zhao Yang Dong, Yuechuan Tao, Zuqing Zheng, Tong Li, Yuchi Zhang, Juntao Duan, Jiaxiang Hu Presenter: Zuliang Huang, City University of Hong Kong
09:45-10:00	Paper ID: 8044 Paper Title: Real-Time Power Accounting of V2G Charging-Discharging via CNN-LSTM-Attention Based NILM Author(s): Zhengtian Wu, Youzhi Xu Presenter: Zhengtian Wu, Guodian Nanrui Technology Co., Ltd.
10:00-10:15	Paper ID: 3617 Paper Title: Urban Transformation in the Digital Economy: Exploring Sustainable Development and Innovative Mode Author(s): Yueyang Shu, Heting Liu, Junyu Lv Presenter: Yueyang Shu, Guilin University of Technology
10:15-10:30	Paper ID: 4971 Paper Title: Estimating Marginal Emission Factors in DK2: Thermal Dominance, Biomass Accounting, and Demand-Side Flexibility Author(s): Yiwei Wu Presenter: Yiwei Wu, KTH Royal Institute of Technology

TECHNICAL SESSIONS

TS07: Artificial Intelligence for Grid Resilience, Reliability, and Security

Time	August 8, 2026, 10:40-12:10	Venue	Level 2 Fraser
Session Chair	Assoc. Prof. Jiajia Yang, James Cook University		

Time	Details
10:40-10:55	Paper ID: 6033 Paper Title: A Physics-Informed Adaptive-Growth Neural Network for Data-Center Cooling Modeling and Economic Model Predictive Control Author(s): Jinshui Gu, Qingsong Hua, Li Sun Presenter: Li Sun, Southeast University
10:55-11:10	Paper ID: 1972 Paper Title: Multi-Model Adaptive Prediction for Floating Offshore Wind Turbine Mooring Systems Author(s): Lupeng Yang, Yu Han Presenter: Yu Han, Sun Yat-sen University
11:10-11:25	Paper ID: 8410 Paper Title: Enhancing Short-Term Solar Forecasting through Hybrid Deep Learning under Dynamic Weather Conditions Author(s): Ismot Tasmery Salsabil, Ehsan Pashajavid, Muhammad Uzair Presenter: Muhammad Uzair, Engineering Institute of Technology
11:25-11:40	Paper ID: 8386 Paper Title: Physics-Guided Probabilistic Load Forecasting with Thermal Constraints and Con formal Prediction Author(s): Dahong Qian, Dong Wang, Francis Liu, Yang Ding Presenter: Dahong Qian, Shanghai Jiao Tong University
11:40-11:55	Paper ID: 2785 Paper Title: Enhanced Transformer Based Day Ahead Photovoltaic Power Forecasting with Weather Prediction Signal Fusion and Spatial Downscaling Author(s): Yue Ouyang, Jiali Zhu, Yuetong Song Presenter: Yue Ouyang, Changsha University of Science and Technology
11:55-12:10	Paper ID: 3841 Paper Title: Big-Data Driven Air Quality Forecasting for Smart-City Environmental Monitoring Using Multi-Scale Ensemble Learning Author(s): Jiali Zhu, Yue Ouyang, Yuetong Song Presenter: Jiali Zhu, Changsha University of Science and Technology



TECHNICAL SESSIONS

TS08: Data-Driven Governance and Policy Synergies in Energy Transition

Time	August 8, 2026, 10:40-11:40	Venue	Level 2 Atcherley
Session Chair	Dr. Yuchen Zhang, Queensland University of Technology		

Time	Details
10:40-10:55	Paper ID: 1141 Paper Title: How Do Green Building Policies Promote Energy-Saving Innovation? Evidence from Policy-Standard Synergy Author(s): Haoyuan Sun Presenter: Haoyuan Sun, China University of Petroleum (East China)
10:55-11:10	Paper ID: 5675 Paper Title: Conflicts and Synergies in Renewable Energy Transition: An Analysis of Taiwan's "Fishery and Electricity Symbiosis" Policy Author(s): Ming-You Lin, Li-Yu Li, Ya Chu Lo and Hsin-Tse Fan Presenter: Ming-You Lin, Industrial Technology Research Institute
11:10-11:25	Paper ID: 7369 Paper Title: A Machine Learning Framework for Urban Air Quality Attribution and Green Governance in Smart Cities Author(s): Yuetong Song, Jiali Zhu, Yue Ouyang Presenter: Yuetong Song, Changsha University of Science and Technology
11:25-11:40	Paper ID: 1808 Paper Title: Data-Driven Day-ahead Bidding for Renewable Energy Producers in Electricity Markets Author(s): Jia Xu, Qisheng Huang, Ting Wu, Chenyou Fan, Liangliang Hao, Costas Courcoubetis Presenter: Qisheng Huang, Harbin Institute of Technology, Shenzhen

TECHNICAL SESSIONS

TS09: Resilient Microgrids and Distributed Renewable Energy Systems

Time	August 8, 2026, 13:30-16:15	Venue	Level 2 Fraser
Session Chair	Prof. Yuechuan Tao, City University of Hong Kong		

Time	Details
13:30-13:45	Paper ID: 2445 Paper Title: Certified Post-Fault Voltage Security Screening of AC Microgrids Using Invariant Sets Author(s): Mandi He, Hanbing Dan, Zhangjie Liu, Mei Su Presenter: Mandi He, Central South University
13:45-14:00	Paper ID: 4091 Paper Title: XAI-Based Node-Level False Data Injection Attack Localisation in a Solar-Dominated Microgrid Author(s): Yeshi Wangdi and Muhammad Uzair Presenter: Yeshi Wangdi, Engineering Institute of Technology (EIT)
14:00-14:15	Paper ID: 4190 Paper Title: Towards Topology-Driven BESS Placement for DER-based Power Distribution Network Augmentation Author(s): Daniel Bairstow, Sara Khalifa, Yuchen Zhang, Raja Jurdak, Yateendra Mishra Presenter: Daniel Bairstow, Queensland University of Technology
14:15-14:30	Paper ID: 4032 Paper Title: An Emergency Resource Allocation Strategy Considering Optimal Repair and Load Transfer Author(s): Zhu Yizhe, Qi Donglian, Chen Yulin, Li Xuanrui, Shao Yingke, Wang Zhenyu Presenter: Zhu Yizhe, Zhejiang University
14:30-14:45	Paper ID: 8745 Paper Title: Performance Analysis of a Dual Cycle Diel Power Plant Author(s): Moses Jeremiah Barasa Kabeyi, Oludolapo Akanni Olanrewaju Presenter: Moses Jeremiah Barasa Kabeyi, Durban University of Technology
14:45-15:00	Paper ID: 5846 Paper Title: A Stability Criterion for DC Microgrid Based on Imaginary Axis Crossing Author(s): Hang Hu, Zhangjie Liu, Mei Su Presenter: Hang Hu, Central South University
15:00-15:15	Paper ID: 7132 Paper Title: Privacy-Preserving Distributed Secondary Control for Hybrid AC/DC Microgrids With Dynamic Masking Mechanism Author(s): Xing Huang, Shaohua Yang, Yulin Chen, Donglian Qi Presenter: Xing Huang, Zhejiang University

Time	Details
15:15-15:30	Paper ID: 2020 Paper Title: Conversion and Sustainability Assessment of Single Cycle Diesel Power Plants to Dual Cycle Power Plants with Sustainability Assessment Author(s): Moses Jeremiah Barasa Kabeyi, Oludolapo Akanni Olanrewaju Presenter: Moses Jeremiah Barasa Kabeyi, Durban University of Technology
15:30-15:45	Paper ID: 0545 Paper Title: A Study on the Stability and Resilience Improvement of a High-Voltage DC Link Based on a Voltage-Source Converter in An Offshore Wind Farm Integrated into a Multimachine Power System Author(s): Li Wang, Chun-Ming Chang, Chin-Chang Chou, Zhi-Kuan Tsai, Yu-Tang Zhuang, Hazlie Mokhlis, Kein Huat Chua, Manoj Tripathy Presenter: Li Wang, National Cheng Kung University
15:45-16:00	Paper ID: 6635 Paper Title: Research on a Robust Multi-Energy Complementary System for Cold Rural Residences Author(s): Yifan Jing, Chen Gong, Jianghua Wang Presenter: Yifan Jing, Tianjin Chengjian University
16:00-16:15	Paper ID: 1520 Paper Title: Stability Enhancement of a Multimachine Power System Connected with a Hybrid Offshore Wind/Wave Farm Using a STATCOM with a Vanadium Redox Flow Battery Author(s): Li Wang, Hao-Sin Yang, Wei-Yow Hsu, Ching-Chung Tseng, Yaw-Juen Wang, Hazlie Mokhlis, Kein Huat Chua, Manoj Tripathy Presenter: Li Wang, National Cheng Kung University



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