

**RPG 2025**

# Invited Session Call for Papers

**The 14<sup>th</sup> International Conference on  
Renewable Power Generation****24-26 October 2025 | Shanghai, China****Full Paper Submission Deadline: 05 June 2025 | <https://rpg2025.theiet.org.cn/>****Session Chair:**

- Session Chair: Chao LIU, China Electric Power Research Institute
- Co-Session Chair: Haoran ZHANG, Peking University
- Co-Session Chair: Jie YAN, North China Electric Power University

**Invited Session on:**

## **07 Renewable Energy Integration into Power Grid: Flexibility, Security and Resilience of Urban-Level Integrated Energy Systems**

With the increasing penetration of the renewable energy and the decreasing proportion of thermal generators, the lack of flexibility will become a key bottleneck restricting the safety and economic operation of the power systems. Carbon neutrality is a necessary path for the survival and sustainable development of all humanity. Urban human activities account for 75% of global energy related emissions and are a key focus for achieving carbon neutrality. China has the world's largest installed capacity of renewable energy, and it is necessary to do a good job in the consumption of renewable energy, focus on the demand side, expand application scenarios, and play a role in the low-carbon transformation of urban energy systems.

**Topics of the Session include, but not limited to:**

- Population Activity and Energy Demand Forecasting Studies
- Integration and Optimal Management of Renewable Energy
- Role of Smart Grid Technologies in Enhancing Urban Energy System Resilience
- Low-Carbon Transition Strategies and Policies
- Demand-Side Management and Consumer Behavior Studies

**Session Chair: Chao Liu, China Electric Power Research Institute****Chair's Bio:**

Engaged in long-term work on power system carbon assessment, product carbon footprint, carbon reduction, new energy generation, and grid connected operation. He served as an expert of AHG3 Working Group of IEC SC 8A Special Committee of the International Electrotechnical Commission, a member of the Power Carbon Emission Reduction Special Committee of the Chinese Society of Electrical Engineering, a member of the Carbon Emission Standardization Special Committee of the Chinese Certification and Accreditation Association, a member of the Energy Internet Equipment Technology Special Committee of the Chinese Electrotechnical Society, a secretary of the Special Working Group on Low Carbon Technical Standards for Power of the State Grid Corporation of China, a senior member of the Chinese Society of Electrical Engineering, and a senior member of the Chinese Electrotechnical Society.

## **BENEFITS OF SUBMITTING**

- Successful Authors will receive **10% off the Adult Registration Fee** (early bird or standard registration) Please use code **INVITED25** during registration
- Accepted paper will be published in the RPG 2025 conference proceeding
- Accepted paper will be published on **IET Digital Library** and indexed by **IET Inspec, Scopus, IEEE Xplore and Ei Compindex**
- Around 30 papers from the conference will be awarded the Best Conference Paper prize and will be invited to submit an extended version to IET renewable Power Generation Journal (open access journal, APC fee applies)