

RPG 2025

Invited Session Call for Papers

The 14th 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:

■ Dr Danny Pudjianto, Imperial College London, UK

Invited Session on:

01. Holistic Integration of Hydrogen Technologies: A Whole System Approach for Sustainable Energy Solutions

The session will delve into innovative strategies for holistic energy system planning and operation, focusing particularly on the transformative role of hydrogen technologies. As we navigate the complex landscape of energy decarbonization, it's crucial to consider how commercial and regulatory frameworks can facilitate the seamless integration of these technologies. Not only will we explore the benefits of hydrogen in promoting sustainability but also its critical contribution to enhancing energy security and resilience in the face of extreme weather events. Participants will gain valuable insights through quantitative methods that assess the system-wide advantages of hydrogen integration. We hope to share compelling findings from real-world demonstration projects, highlighting successful applications and the lessons learned along the way. This session is designed to inspire collaboration and innovation, paving the way for a more sustainable, secure energy future. Join us in this enlightening discussion and be part of the energy revolution!

Session Chair: Dr Danny Pudjianto, Imperial College London

Chair's Bio:

Dr Danny Pudjianto is an Advanced Research Fellow at Imperial College London and a senior consultant with over 25 years of expertise in energy system modelling and optimisation. His research focuses on energy system planning and operation, economics, regulation, security, benefit evaluations, and system integration of emerging technologies such as smart demand response, low-carbon heat systems, and hydrogen technologies. He is a senior member of IEEE and IET and serves on the editorial board of the Renewable Energy Journal. Dr Pudjianto has published over 100 technical papers and 70 industrial/research reports.

Invited Keynote Talk in this session by Professor Jianzhong Wu, Cardiff University

Speaker Bio:

Prof Jianzhong Wu is Head of the School of Engineering at Cardiff University, UK, specializing in Smart Grid and Multi-Vector Energy Systems. He has led or contributed to over 60 research projects, published 300+ peer-reviewed papers, and authored key books, including "Smart Grid: Technology and Applications" (2012) and "The Future of Gas Networks" (2019). He serves on the UK Government DESNZ Taxonomy Energy Working Group, Wales Smart Energy System Group, and SPEN Independent Net Zero Advisory Council. Prof Wu is Co-Editor-in-Chief of Applied Energy and a Fellow of IEEE, Energy Institute, and the Learned Society of Wales. He is also the Co-Director of Hydrogen Integration for Accelerated Energy Transitions research centre.

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)