



The 2019 International Conference on Intelligent Green Building and Smart Grid



China Three Gorges University, Yichang, China
September 6-9, 2019

[Call for Papers](#)

Special Session

Planning and Operation of Power Systems with High Penetration of Renewable Energy and Electric Vehicles

In order to get high quality papers, we invite you to submit paper to Special Session on *Planning and Operation of Power Systems with High Penetration of Renewable Energy and Electric Vehicles* in the 2019 International Conference on Intelligent Green Building and Smart Grid.

Description

Due to the deep penetration of renewable energy (RE) and electric vehicles (EVs), the power grid is undergoing unprecedented changes in both its transformational nature and rapid pace. These extraordinary changes present new challenges and opportunities for more explicit representation of the mid-/long-term stochastic behavior of RE power outputs, EV charging/discharging, and power grids in the planning and operation analyses of power systems. This need becomes particularly more crucial as the penetrations of RE and EVs become increasingly deeper. This session brings together specialists from academia and industry practitioners to discuss the nature and scope of the challenges and present some of the recent approaches to address these challenges.

Topics of Interest

- Forecast and Probabilistic modelling of Intermittent RE power
- Probabilistic power flow analyses of power systems with penetration of RE and EVs
- Economic operation of power systems with penetration of RE and EVs
- Reliability evaluation of power systems with penetration of RE and EVs
- Transmission/distribution power grids planning
- Integrated resources planning in the micro-grid considering demand response
- Energy management of micro-grid and its simulation platform
- Coordinated control/optimization of multiple micro-grids
- Controlled charging/discharging of a large population of EVs

Important Dates

Submission Due	May 30, 2019
Notification of Acceptance	July 10, 2019
Advanced Registration	August 10, 2019

Paper Submission

All the instructions for paper submission are included in <http://igbsg.ctgu.edu.cn/>. Please select “*Special Session 1- Power Systems with Penetration of RE and EVs*” for the *Paper Category* in the *Paper Submission System*. In case of any problem, do not hesitate to contact the organizers via hpucquyzu@ctgu.edu.cn or rzhouyang1108@163.com.

Organizer

Professor Shan Cheng, Director, New Energy Micro-grid Research Center, China Three Gorges University
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