

## Special Issue

# Advances in Smart Grids and Microgrids: Distributed Generation and Energy Storage Systems

### Message from the Guest Editors

This Special Issue entitled “Advances in Smart Grids and Microgrids: Distributed Generation and Energy Storage Systems” seeks high-quality works focusing on the latest novel planning, operation, and market on smart grids, especially the new-type microgrid. Topics include, but are not limited to, the following:

- Planning of new-type smart grids and multi-energy microgrids, including the capacity planning of new energy, energy storage, lines, etc.
- Optimization of smart grid and multi-energy microgrid operation considering uncertainty, including scheduling, automatic control systems, transient simulation, etc.
- The design of new smart grid market mechanisms is explored with profit models, including power markets, reserve markets, carbon markets, etc.

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### Guest Editors

Dr. Yuzhou Zhou

Dr. Yizhou Zhou

Dr. Daogui Tang

Dr. Hang Shuai

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### Deadline for manuscript submissions

30 November 2025



## Processes

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