

## Special Issue

# Advancing Sustainable Power Systems: Innovations in Planning, Operation, and Control

### Message from the Guest Editors

This Special Issue, “Advancing Sustainable Power Systems: Innovations in Planning, Operation, and Control”, explores technologies, methodologies, and strategies that enhance the efficiency, reliability, and stability of modern power grids in the face of increasing renewable energy penetration.

Scope: Enhancing grid stability and flexibility in high-renewable power systems; Optimizing power system planning with demand-side management and operational security; Utilizing grid-forming inverters, HVDCs, and FACTSs for robust and reliable system control; Advancing real-time simulation and hardware-in-the-loop testing for system validation.

This Special Issue builds upon existing research by unifying power system planning, operation, and power electronics advancements. While previous studies have focused on specific technical challenges, this Special Issue takes a holistic approach by combining system-level strategies, real-time control techniques, and market-driven solutions for a sustainable power grid.

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### Guest Editors

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### Deadline for manuscript submissions

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### Editor-in-Chief

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