

## Special Issue

# The Role of Smart Grids in Promoting Sustainable Energy Practices

### Message from the Guest Editor

The global energy structure is accelerating its transition to sustainable smart grids. To further promote academic exchanges in this field, we invite submissions on the following topics:

- Research on real-time monitoring and early warning systems for the conditions of smart grid equipment based on the convergence of 5G and the Internet of Things;
- Application of blockchain technology in smart-grid-distributed energy transactions and communication security;
- Research on smart grid load forecasting and integrated energy co-dispatch strategies based on big data analysis;
- Research on artificial-intelligence-driven fault diagnosis and self-healing control technology for smart grids;
- Studies on the application of synergistic and optimal allocation of distributed energy resources and energy storage systems in smart grid and integrated energy systems;
- Studies on the cross-regional interconnection of smart grids and new energy consumption methods based on flexible direct current transmission technology;
- Studies of multi-port energy conversion and the coordinated control of power electronic converters in integrated energy systems.

### Guest Editor

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### Deadline for manuscript submissions

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