



## Theories and Applications of Sustainable Energy Systems and Smart Power Grids

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### Message from the Guest Editors

The world is facing increasingly serious energy and environmental crises. Sustainable energy systems and smart grids play vital roles in solving the non-renewable problem of traditional fossil energy and protecting the environment, as well as improving the efficiency of resource utilization. Research on the theories and applications of sustainable energy systems and smart power grids has attracted considerable attention. The Special Issue covers both new developments, recent advances, emerging trends, and the state-of-the-art technologies in related fields.

The main topics include 1) fundamentals, modeling, control, optimization, and simulation aspects of sustainable energy systems and smart grids; 2) grid integration of renewables; 3) micro-grids; 4) distribution networks; 5) low-inertia power systems; 6) planning and operation of smart grids; 7) energy storage technologies; 8) technologies and applications of superconductivity; and 9) intelligent operation and maintenance. Since sustainable energy resource and smart grid facilities are quite different in different countries and regions, a wide range of contributions are invited from all over the world.





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## Editor-in-Chief

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## Message from the Editor-in-Chief

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