

Special Issue

Theories and Applications of Sustainable Energy Systems and Smart Power Grids

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.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2023)



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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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