Special Issue

Developments in Smart Grids and Intelligent Energy Management

Message from the Guest Editors

The aim of this Special Issue is to provide a platform for innovative research, technical developments, and case studies that address the multifaceted challenges of designing, operating, and optimizing future power systems. Topics of interest include, but are not limited to, the following: advanced monitoring and control strategies, artificial intelligence applications for predictive analytics, the integration of renewable and storage resources, transactive energy frameworks, cyber–physical security, electric vehicle–grid interaction, and the role of digital twins and edge computing in intelligent grid operation.

Submissions may encompass novel methodologies, experimental validations, large-scale demonstrations, or policy and regulatory insights that support the widespread deployment of these technologies. By gathering high-quality contributions from academia, industry, and policymakers, this Special Issue aims to foster cross-disciplinary knowledge exchange and define research directions that will underpin the next generation of smart, resilient, and sustainable power networks.

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About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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