Special Issue

Smart Power Management of Renewable Power System

Message from the Guest Editor

The *Energies* journal is running a Special Issue on the topic of Smart Power Management of Renewable Power Systems. Climate change concerns and depleting fossil fuels have led to increased use of renewable energy resources for power generation. Electric networks are now transforming towards a clean power grid as more renewable energy resources are integrated. However, the rising penetrations of renewable-energy-based distributed energy resources (DERs) have adverse impacts on grid structure and its operation. The stochastic nature of renewable energy sources results in systems of slowing dynamics, power quality problems, etc. To minimize the impacts of intermittent renewable energy and overcome the technical challenges of grid integration of renewable energy sources, different solutions such as concept of microgrids, demand side managenent strategies, power electronics converter-based robust control strategies, energy storage systems, etc., are proposed by researchers. This Special Issue solicits original theoretical and experimental papers as well as state-of-the-art surveys and tutorial papers addressing the topics of the Special Issue.

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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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