Special Issue

Techno-Economic and Environmental Analysis of Hybrid Renewable Energy Systems

Message from the Guest Editors

Renewable energy is much safer and cleaner than conventional sources. However, there are still a wide variety of challenges in this sector that can be addressed with the help of emerging techniques, such as Artificial Intelligence (AI) and the Internet of Things (IoT), to deal with the uncertainties associated with renewable energy resources. Furthermore, evaluating renewable energy resources in an integrated approach could lead to addressing the challenges of the water–energy–food nexus. This Special Issue will deal with innovative techniques and concepts for integrating renewable energy resources with energy systems. Topics of interest for publication include, but are not limited to, the following:

Optimum design and operation of hybrid renewable energy systems;
Innovative techniques for analyzing renewable energy resources;
Application of AI and IoT for sustainable energy systems;
Renewable energy strategies for sustainable development goals (SDG);
Security aspects of future renewable energy systems;
Balancing supply and demand condition energy storage system;
Demand side management;
Optimal allocation/dispatch of neweables and renewable electricity.

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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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