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Techno-Economic and Environmental Analysis of Hybrid Renewable Energy Systems

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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 new renewables and renewable electricity.



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Special Issue



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Message from the Editor-in-Chief

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