

Special Issue

Renewable Energy Technologies and Systems: Development, Challenges and Opportunities

Message from the Guest Editor

Renewable energy sources are known to be reliable, cost-effective and predictable. There are various methods and concepts that can be employed to take advantage of RE sources. However, there are limiting factors in the development of renewable energy, to address these kinds of challenges, some machine-based approaches have been developed to be utilized and make it simpler to face problems in the fields of operation and maintenance. Papers relevant to the scope of this Special Issue include, but are not limited to, the following areas:

- Estimation of renewable energy sources in remote sites;
- The design and optimization of renewable energy technologies and hybrid systems for remote sites and isolated grids;
- Energy storage technologies adapted for hybrid energy systems;
- Installation and operation challenges associated with hybrid systems in remote sites;
- Charge control and smart grid technologies for isolated grids;
- Energy economics;
- Infrastructure development and related macroeconomic issues;
- Energy infrastructure reliability and resilience;
- Technological research, development and demonstration strategies;

Guest Editor

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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. *Sustainability* publishes original research articles, review 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.

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