

Special Issue

Frontier Technologies for the Utilization of Power Generation and Energy Sources

Message from the Guest Editors

A secure energy supply is crucial to maintaining various functionalities of power grids. The integration of more and more renewable energy sources is reshaping traditional power systems. This brings more challenges in utilizing power generation and energy sources for the future grid, and it is evident that existing technical solutions and industry practices will no longer be sustainable due to these rapid changes. Considering the growing interest in this area, this Special Issue aims to explore the current research progress on the utilization of power generation and energy sources in power systems. The targeted research will cover a broad spectrum of topics, such as distributed energy resources (DERs), energy storage systems, electric vehicles, energy solution for residential homes, smart/microgrids, energy market participation, and power electronic devices for DERs, etc. It is expected that academics, researchers, practitioners, market regulators, system operators, policymakers, and other energy stakeholders will benefit from these state-of-the-art research results.

Guest Editors

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Deadline for manuscript submissions

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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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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