



Frontier Technologies for the Utilization of Power Generation and Energy Sources

Guest Editors:

Dr. Li Li

Department of Electrical and
Data Engineering, University of
Technology Sydney, Ultimo,
Australia

Prof. Dr. Josep M. Guerrero

Department of Electronic
Engineering, Technical University
of Catalonia, Barcelona, Spain

Dr. Farhad Shahnia

Discipline of Engineering and
Energy, Murdoch University,
Murdoch 6150, Australia

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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.





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Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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Sustainability Editorial Office
MDPI, St. Alban-Anlage 66
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