

## Special Issue

# Advances in Economic and Resilient Operations of Electrical Power Systems

### Message from the Guest Editors

The rapid transition from fossil fuel-fired generations to sustainable energy has resulted in a power system operation that is increasingly complex, interconnected, and uncertain. A sustainable energy future calls for decision-making informed by the most advanced research and technologies in power markets and power grid resilience. This Special Issue aims to present the most recent advance in economic and resilient power system operations, including theoretical foundation, modeling, optimization, and application of emerging computational techniques. Topics of interest for publication include, but are not limited to:

- Power market operation, locational marginal price, and unit commitment and economic dispatch of power/multi-energy systems.
- Power grid resilience, including extreme weather and cybersecurity.
- Optimal electric vehicle integration in the smart grid.
- Power system planning and energy management.
- Novel optimization techniques for power system operations.
- Application of cutting-edge artificial intelligence techniques.
- Secure operation and control of 100% power electronics based power systems.

### Guest Editors

Dr. Qiwei Zhang

Dr. Jin Zhao

Dr. Gen Li

Dr. Mingshen Wang

Dr. Lele Ma

### Deadline for manuscript submissions

closed (31 July 2023)



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*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University  
Niccolò Cusano, 00166 Roma, Italy

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