

Special Issue

Advances in Smart Grid Power Systems: Uncertainty, Resilience, and Interdependence

Message from the Guest Editor

This Special Issue seeks to collate, connect, and address uncertainty, resilience, and interdependence within and between infrastructures, with a focus on power grids. Topics of interest include, but are not limited to: ● Inverter-based resources and grid-forming technology;

- Renewables penetration, volatility, and system stability;
- Supply chain and inventory management;
- Extreme events modeling and electromagnetic modeling;
- Structural health estimation and monitoring;
- Multiphysics analysis;
- Multi time scale modeling;
- Supply chain issues for critical components;
- Blockchain technologies for smart grid economics;
- Black start modeling and practices;
- Energy storage and degradation modeling;
- Physics-based data science and machine learning methods.

Guest Editor

Dr. Vaidyanathan Krishnamurthy
Center for Electromechanics, The University of Texas at Austin, Austin, TX, USA

Deadline for manuscript submissions

closed (9 August 2023)



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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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