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Design and Application of DC-DC Converters in Power Systems

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Deadline for manuscript submissions:

closed (10 October 2023)

Message from the Guest Editors

Dear Colleagues,

The Guest Editors invite you to submit your work to a Special Issue of *Energies* on “Design and Application of DC–DC Converters in Power Systems”. DC–DC converters are present in most applications of high, medium, and low power, as well as high, medium, and low voltage/current. These power converter types have acquired important relevance in power systems due to the high penetration of renewable energies and storage systems in the electrical grid. They are present in most grid connection circuits of distributed generation systems since they allow controlling the energy flow between source and grid on the DC side.

This Special Issue deals with the study of new DC–DC converter topologies, control techniques, and their use in power systems.

Topics of interest for publication include but are not limited to:

- Power electronics
- Power systems
- DC–DC converters
- Control techniques
- Distributed generation
- Renewable energy
- Energy storage systems



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Special Issue



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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.

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