Special Issue

Advances in DC Technology for Modern Power Systems

Message from the Guest Editors

DC technology is a promising solution for resolving the technical challenges associated with renewable energy integration due to its outstanding features, such as its capabilities of active control of power flow, power quality improvement, short-circuit current isolation and the prevention of possible cascading failures. The objective of this Special Issue is to promote the research, innovation and application of the key challenges and enabling technologies for the development of DC technology in modern power systems. Topics of interest for publication include, but are not limited to:

- Converter technologies;
- Architectures of DC grid and hybrid AC–DC grids;
- DC system protection and grounding;
- Stability issues for power electronics-intensive DC grids;
- Modeling and simulations of DC systems;
- Operation, dynamic and control of DC systems;
- Power quality problems;
- Demonstration and laboratory projects of DC systems.

Guest Editors

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Deadline for manuscript submissions

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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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