



Direct Current (DC) Distribution Grids and Microgrids

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Message from the Guest Editors

DC distribution is finding increasing applications in various areas, including off-grid microgrids, transportation electrification, data centres, and residential and industrial purposes. Societal focus on sustainable energy transition, including increasing use of electric vehicles, renewable energy generation, and electric heating, has put pressure on the traditional AC power grid infrastructure. DC-based technologies can play a key role in integrating these emerging grid components. This Special Issue invites original research papers addressing the following topics:

- Modelling of DC distribution grids
- Control of DC distribution grids
- Stability of DC distribution grids
- Protection in DC distribution grids
- Power electronics converters in dc distribution systems
- Shipboard DC Distribution
- DC Microgrids
- DC microgrids topologies
- Hybrid AC-DC microgrids
- Integration of storage in DC distribution grids





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Message from the Editor-in-Chief

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