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MVDC Grids: Modelling, Design, Power Converters, Stability, Control and Operation

Guest Editors:

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Deadline for manuscript submissions:
closed (31 January 2022)

Message from the Guest Editors

We would like to invite original research or review articles to our Special Issue "MVDC Grids: Modelling, Design, Power Converters, Stability, Control and Operation" in *Energies*.

The Medium Voltage Direct Current (MVDC) grid is a new grid concept that can be used as an additional stage of infrastructure in the electrical network between transport and distribution levels, as well as a means of supplying consumers of commercial, residential, industrial or transportation sectors, facilitating the integration of renewable energies and energy storage systems, and the supply of loads.

This Special Issue is aiming to present the recent advances, challenges and opportunities related to MVDC grids, and includes, but is not limited to, the following topics:

- Design, Modelling and simulation techniques for MVDC grids
- MVDC grids with renewable energy and energy storage systems
- AC/DC and DC/DC power converters for MVDC grids
- Stability, Control techniques and energy management systems for power converters and MVDC grids
- Normal operation, Power quality, Fault detection and reconfiguration/restoration of MVDC grids
- State-of-the-art reviews on MVDC grids

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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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