

## Special Issue

# HVDC Grids: Analysis, Protection and Applications

### Message from the Guest Editors

At present, an efficient, interconnected, and resilient power system that deals with distinct and evolving challenges is required. HVDC grids are foreseen to reinforce the existing power system and to enable the integration of renewable resources on a bulk scale. Flexible HVDC technology can provide essential functionalities based on its inherent characteristics, such as fast power flow control capability. This Special Issue is dedicated to HVDC grids. Therefore, we invite original papers addressing the various topics related to HVDC grids. The topics of interest include but are not limited to:

- HVDC system development, analysis, and design, including converter stations, MMC, DC-DC converters, semiconductor device developments, transmission links;
- DC-interconnected offshore wind power plants;
- Grid services, frequency support;
- HVDC grid control, including adaptive control, grid forming and grid following control;
- Stability analysis and harmonic interactions;
- Protection of HVDC grids, covering HVDC breaking devices, fault ride through, protection algorithms, protection schemes;
- Field experience with HVDC systems.

*Please scan the QR code for more information.*

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 June 2022)



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## About the Journal

### 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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### Editor-in-Chief

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