



HVDC Grids: Analysis, Protection and Applications

Guest Editors:

Dr. D. Marene Larruskain

Department of Electrical Engineering, Faculty of Engineering Bilbao, University of the Basque Country UPV/EHU, Bilbao, Spain

Dr. Araitz Iturregi

Department of Electrical Engineering, Faculty of Engineering Bilbao, University of the Basque Country UPV/EHU, Bilbao, Spain

Deadline for manuscript submissions:

closed (30 June 2022)

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.





energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)