

## Special Issue

# Design and Testing of Power Cable System

### Message from the Guest Editors

The substantial growth of cable HV interconnections has prompted researchers to investigate the degradation factors of the dielectric materials used in these systems. Dielectrics in AC and DC cables experience ageing phenomena that are worth of investigation due to the high costs associated to the failures of such infrastructures. In particular, HVDC systems early diagnosis poses a great challenge due to the lack of standardization and consolidated technologies for testing. This Special Issue welcomes studies on the state of the art of new methodologies for cable fault and pre-fault analysis, PD analysis in HVDC cables, innovative cables design, and possible changes of cables structures with the aim to improve and facilitate PEA and PD measurements. Apart from original research articles related to the topic, studies on the effect of the polarity reversal and transient overvoltage phenomena in the lifetime of power cables are also welcome. Finally, due to their ease of use, wireless AC PD detection methods, as well as fault detection and localization approaches, will be considered of interest.

### Guest Editors

Prof. Dr. Eleonora Riva Sanseverino

Prof. Dr. Pietro Romano

Dr. Antonino Imburgia

### Deadline for manuscript submissions

closed (20 October 2020)



## Energies

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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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### Editor-in-Chief

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