Special Issue

Advances in Modern Electricity Distribution Networks

Message from the Guest Editor

The change in the traditional power systems towards integrating a high level of utility-scale renewable energy sources at the transmission level and Distributed Energy Resources (DER) at the distribution level push Network Service Providers (NSPs) to research non-traditional and intelligent solutions to manage their networks. This Special Issue aims to present and discuss the most up-to-date topics on modern distribution network operation issues and the proposed solutions. Topics of interest for publication include, but are not limited to:

- Advanced levels of network modelling and simulation which includes estimation of fault level and voltage profile.
- Optimum sizing of distribution network asset for optimum planning.
- Adaptive PVs, BESS and EVs inverters controllers for optimum voltage control at distribution networks.
- Analysis of consumer behaviour and load forecasting modelling at the distribution networks level.
- Demand response
- Investigation of new performance standards for integrating distributed energy sources (DER) on distribution networks.
- Distribution energy markets modelling and testing of various types of market design.

Guest Editor

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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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