



Advances in Modern Electricity Distribution Networks

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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