Special Issue

Distribution System Operation and Control

Message from the Guest Editors

With high penetration of small-scale renewable energies, as well as electric vehicles in distribution electric network, suitable operation strategies are highly required to manage these new resources. Moreover, some new potentials, such as demand response programs and market players like retailers or energy providers, should be organized in modern distribution networks. For example, one way to approach distribution system problems is by rethinking our distribution system to include the integration of high levels of distributed energy resources (DERs), using microgrid concepts. Basic objectives are improving the reliability, promoting high penetration of renewable sources, dynamic islanding, and improving generation efficiencies through the use of waste heat. For distribution systems to utilize the emerging diversity of DER technology at significant levels of penetration, the basic distribution pyridine needs to be rethought. Managing such a wide and dynamic set of resources and control points can become overwhelming. This Special Issue aims at encouraging researchers to address the solutions to overcome the issue.

Guest Editors

Prof. Dr. Pierluigi Siano

Department of Management and Innovation Systems, University of Salerno, 84084 Salerno, Italy

Dr. Miadreza Shafie-khah

Department of Electromechanical Engineering, University of Beira Interior, Calçada Fonte do Lameiro, 6201-001 Covilhã, Portugal

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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