

Special Issue

The Future of Renewable Energy and Smart Grid Network

Message from the Guest Editor

This Special Issue is a selection of papers that will address the challenges and strategies for transforming the electricity grid to meet the demands of the future. Renewable energy sources will constitute a large part of the generation mix in future and will bring challenges due to their non-dispatchable nature. In addition, a penetration of low inertia system and grid edge electronics will change the dynamics of the power system. At the distribution level, potential disruptions due to large-scale penetration of plug-in electric vehicles, distributed generation, and dynamic prosumers is foreseen. What strategies do we use to transform the grid that are not highly disruptive? How do we leverage the digitization of the grid to create a sustainable and environmentally friendly grid?

Guest Editor

Dr. Ashwin M. Khambadkone

Electrical and Computer Engineering, National University of Singapore, Singapore 117583, Singapore

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

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Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

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