



Renewable Energy Sources for Smart Grids

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Message from the Guest Editors

The smart grid emphasizes interoperability, renewable generation, distributed generation, and storage options, including dispersed energy storage with electric vehicles.

Actually, the smart grid concept is the key to a larger and larger deployment of distributed generation based on renewable energy sources.

In conclusion, new issues make the design of generators, storage systems, and power converters for renewable power generation in smart grids really challenging.

The topics of this Special Issue include but are not limited to:

- Technologies for smart grid optimal operation with a high share of renewables;
- Power flow management;
- Energy storage;
- Advanced electrical machines and controlled drives for renewable energy harvesting;
- New electrical machine designs for wind energy applications;
- Direct-drive machines for microhydro and wind generation;
- Control aspects of electrical machines for smart grid applications;
- Advanced power electronics design for smart grids.





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Message from the Editor-in-Chief

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