

Special Issue

Emerging Renewable Energy Integration Technologies in Power Systems

Message from the Guest Editors

This Special Issue will deal with all issues related to the integration of a large share of renewables into the power system, including wind, solar, hydropower, geothermal, biomass, wood and wood waste, biogas, and green hydrogen. The focus is on technologies which allow a cost-effective integration of renewables while guaranteeing a reliable and safe system operation, ensuring system stability and power quality. The Issue also welcomes review papers which analyze the national policies determining an increased integration of renewable sources in EU countries and the pathways leading to the decarbonization of society using renewables. Topics addressed in this Special Issue include, but are not limited to, the following:

- Voltage and frequency stability in the presence of an increasing share of renewables;
- Power quality issues;
- Services-based energy storage systems for renewable integration, renewable firming, energy arbitrage, ancillary services;
- Flexible demand integration in future power systems based on batteries and electrolyzers for green hydrogen production.

https://www.mdpi.com/journal/electronics/special_issues/Renewable_Energy_Integration

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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