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Integration of Renewable Energy Sources to Smart Grid

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Deadline for manuscript submissions:
closed (20 June 2022)

Message from the Guest Editors

Dear Colleagues,

The Guest Editors are inviting submissions to a Special Issue of *Energies*, entitled "Integration of Renewable Energy Sources to Smart Grid". The transition to renewable energy occurring worldwide is the outcome of a global effort to fight climate change and to ensure a more sustainable way of life. Electricity grids are the means to accomplish the green energy shift, provided that renewable sources are carefully integrated, while the grid is smartened to interact with power electronics-interfaced generators and loads. In this scenario, it is fundamental to understand the effects and implications of the new technologies that are rapidly taking over the electricity grid, and how these new technologies can be managed to guarantee service stability, energy security and power quality.

- Monitoring, control, protection of smart power grids
- Grid forming inverter controls
- Microgrids
- Grid to vehicle/ vehicle to grid/ vehicle to building
- Grid impacts of electrified transportation
- Power electronics-dominated grid

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Message from the Editor-in-Chief

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.

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