

Special Issue

Power Management for Distributed Generators Integrated System

Message from the Guest Editors

Nowadays, a paradigm shift in power systems is observed due to the high-level integration of electronic power converter-based distributed generators. Due to the scarcity and continuous depletion of conventional fossil fuels, several renewable energy sources, such as solar photovoltaic, wind, concentrated solar power, among others, are integrated as DGs in the power system. Intermittent power generation by such DGs mandates the integration of sufficient energy storage devices to balance the power generation and load. Energy storage devices also play an important role in demand-side management. Such DG-integrated small systems are sometimes termed microgrids, which could operate in both grid-connected or islanded modes. Many challenges arise due to the high-level integration of DGs with the system, such as reduced inertia, energy imbalance, and voltage fluctuations. Therefore, to deal with these challenges, new control, modelling, and energy management algorithms are needed to develop with cutting-edge technologies. A large number of energy sources, loads, and energy storage devices are properly controlled and managed to minimize the negative impacts on the main grids.

Guest Editors

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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.

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