Special Issue

Recent Advances in Smart Grids

Message from the Guest Editors

Energy systems have a profound influence on daily human lives and industrial production. Various governments throughout the globe have had a transition toward restructured markets while deploying their national smart grids to take advantage of microgrids schemes and digitalized environments. Such planning programs seek long-term decarbonization and decentralization by emphasizing the importance and necessity of smart grids in their future smart cities, smart industries, and national security infrastructures, particularly by incorporating IoT-enabled infrastructures, as well as artificial intelligence models for enhancing the level of autonomy, intelligence, controllability, and observability and boosting the flexibility in various layers of power systems. However, at the same time, it is impossible to ignore the practical challenges associated with the operation, control, protection, and security of present and future smart grids. As a result, this Special Issue will attempt to cover research gaps in the smart grid domain while also motivating researchers on novel topics that greatly impact social welfare.

Guest Editors

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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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