Special Issue

Future Smart Grids with High Integrations of New Technologies

Message from the Guest Editors

In the future, smart grids, new technologies such as wireless power transfer, novel electric machines, smart meters, advanced power converters, new energy storage systems and artificial intelligence, etc., will play important roles in the energy transition from conventional fossil fuels to renewables. As the number of new technologies has significantly increased, it is clear that existing technical solutions and industry practices will no longer be suitable. Several critical issues in stability, security, safety, scalability, controllability, power quality and efficiency need to be addressed to bridge the gap among different areas. By considering the growing interest in applying those new technologies in modern power systems around the world, this research topic invites a broad spectrum of contributors to develop interdisciplinary technical approaches.

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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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