Special Issue

Research on Planning and Operation of Smart Grid Systems and Related Technology

Message from the Guest Editor

Smart grid technology and its complex digitalised systems are a relatively new concept to increase the efficiency, reliability, and security of power systems. Smart grids integrate communication, control, protection, and sensing technologies to monitor and automate the energy flows, thus meeting electricity demands. Recent technological advancements in electric vehicles (EVs), demand-side management, energy storage systems, distributed energy resources, and forecasting methods expanded the scope of planning and operation in smart grids. Therefore, it is essential to develop new technologies and innovate a framework for effective and sustainable solutions for resolving planning and operational issues to make smart grids efficient, reliable, and secure for electricity operations. Hence, this Special Issue invites research contributions from academia and industry to bring together innovative developments for new technologies, challenges, and solutions in smart grid planning and operations for smooth integration into the existing network.

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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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