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

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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.

Dr. Muhammad Majid Hussain
Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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