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Energy Management of Smart Grids with Renewable Energy Resource

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Deadline for manuscript submissions: closed (5 December 2023)

Message from the Guest Editors

Energy crisis and climate change have prompted countries to make great efforts to develop renewable energy sources. Many WTs and PVs have been integrated into existing grids, bringing dramatic changes and new challenges for the energy management of smart grids. The introduction of significant intermittent generation will affect the way in which smart grids operate. It requires more accurate prediction of renewable energy generation, more flexible operation of power systems, more active response of distributed energy resources, and more extensive utilization of energy storages. The dynamics of power systems will likely be dominated by the dynamics of WTs and PVs in the near future. These challenges require more precise models of WTs and PVs, and more powerful simulations for smart grids. To face the abovementioned challenges, novel ideas, methods and technologies have emerged. In this Special Issue, we invite original and unpublished submissions on the energy management of smart grids with renewable energy resources.

Dr. Lixiong Xu Guest Editor





mdpi.com/si/117388





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Message from the Editor-in-Chief

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