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Demand Response in Electricity Markets

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Message from the Guest Editors

Dear Colleagues,

Demand Response Programs (DRP) are attracting a lot of attention. Preliminary studies on Demand Response (DR) resources in integrated energy systems have already projected incredible potential to act as flexibility resources for power systems operations. Nevertheless, there are still many questions and concerns related to DR resources involvement into the electricity and energy markets, which have to be properly addressed. This Special Issue is an attempt to encourage researchers from different discipline to offer solutions and algorithms to effectively incorporate DR resources in electricity and energy markets. These include the conventional day-ahead and real-time wholesale markets as well as P2P electricity trading considering stochasticity, unpredictability, and non-linearity of the phenomenon. In this framework, physical and virtual energy storages and electric vehicles are also considered as DR resources. A special focus will be on how to model, forecast and control flexible resources in intelligent and integrated energy systems.

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Message from the Editor-in-Chief

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