



Impact of Demand Response in Energy System

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Message from the Guest Editor

Dear Colleagues,

Demand response (DR) is a key feature in the transition to sustainable energy systems, as it enables the adjustment of the demand to varying renewable energy supply conditions through the empowerment of the users to participate more actively in grid management. The concept began to be implemented in the middle of the 20th century for large electricity consumers, but it gained a significant thrust with the development and deployment of smart grids. While the introduction of more distributed renewable resources increased the complexity of grid management, the use of information and communication technologies (ICT) in the grid, such as smart meters, allows for the use of much more complex management algorithms and the dissemination of DR to other sectors, in particular the residential sector.

The scope of this Special Issue is to provide a comprehensive overview of the impacts of DR in energy systems, trying to cover different topics such as:

- Legal frameworks, regulation, policies
- Technologies
- Algorithms
- Case studies
- Non-electricity applications, such as district heating networks





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Message from the Editor-in-Chief

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