Special Issue

Distributed Energy Resources for the Development of the Energy Horizon 2050

Message from the Guest Editors

The European Union and other world regions aim to be climate-neutral by 2050. To make such energy policy credible, future electricity grids need to be flexible on the demand side in order to integrate higher shares of renewable energy resources. Indeed, it is internationally agreed that power systems need more active consumers so as to achieve this objective. Hence, active participation and demonstration of capabilities mean significant challenges for small and medium-sized users, since they are those facing the most barriers although their potential is undoubted. This Special Issue is promoted by the Thematic Network REDYD-2050, composed by ten expert research groups in key technologies to make demand response credible. Therefore, all aspects related to modeling and aggregation of distributed energy resources, application of ICTs to demand response and development of new market models to facilitate the trading of distributed energy resources and demand will be addressed.

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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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