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Enabling Future Electricity Markets through Smart Grid Exploitation

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Message from the Guest Editors

The decarbonisation of the electricity sector relies on the integration of converter-interfaced and distributed solar and wind farms. These technologies are expected to displace a large share of conventional synchronous generation. Moreover, the growing integration of new technologies, such as power-to-x and vehicle-to-x, is introducing unexpected possibilities in sector coupling. In addition, it also represents an unprecedented change to the planning, operation, and security of electricity networks.

All the above points require novel scientific contribution aiming to do the following:

- Recognize the various types of flexibility required by the different electrical system layers;
- Assess the set of data required to offer the above-mentioned services;
- Suggest new designs for ancillary services, potentially simplifying the current plethora of services, by properly engaging the distributed assets such as storage, electric vehicles, and loads.

We believe that this Special Issue offers a number of “on the wave-front” topics which can be fully investigated by the relevant scientific community.



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Special Issue



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Message from the Editor-in-Chief

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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