Special Issue

Designing New Business Models and Decision Support Tools for Electricity Aggregators

Message from the Guest Editors

An aggregator is a service-providing business entity that trades the energy generation or moderates the electricity consumption of a group of producers and consumption meters, often representing different geographical areas or generation technologies. Aggregators play a key role in the smooth integration of renewable energy in the power system by facilitating the participation of independent producers in the wholesale market and improving the stability/predictability of the aggregate generation profile. This Special Issue intends to explore novel business models and decision-support tools addressing the present and future needs of aggregators. We invite contributions on the following tentative list of topics:

- Optimal participation strategies in electricity markets;
- Optimization models and weather forecasting techniques for aggregators;
- Spatiotemporal balancing of renewable energy resources;
- Financial instruments for hedging volume/market risks.

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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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