Special Issue

Energy Management of Prosumer Communities

Message from the Guest Editors

The penetration of distributed generation, energy storages and smart loads has resulted in the emergence of prosumers: entities capable of adjusting their electricity production and consumption in order to meet environmental goals and to participate profitably on the available electricity markets. Significant untapped potential remains in the exploitation and coordination of small and medium sized distributed energy resources. The special issue studies such prosumers and the emergence of prosumer communities for the integration, aggregation, orchestration and coordination of prosumers. Virtual power plants are one solution that has demonstrated its feasibility and viability, but the special issue is open for discussion on alternative concepts for prosumer communities.

- prosumer
- virtual power plant
- demand response
- distributed energy resource
- energy storage

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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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