Special Issue

Energy Management Systems for Optimal Operation of Electrical Micro/Nanogrids

Message from the Guest Editor

Energy management systems (EMSs) have been introduced in electrical power systems to perform optimized operations of the electrical grid infrastructure and to provide support to the grid operator in terms of optimized decisions. In electrical micro/nanogrids, the development of EMSs is crucial to correctly handling uncertainties and intermittency of renewables. Through their key functions (monitoring, control, optimization of flows, and use of electrical power), EMSs allow customers to play an active role in the energy market. The EMSs proposed so far were not conceived to foster their widespread and fast adoption. Several issues remain to be tackled: EMSs should seamlessly integrate with the ecosystem of micro/nano grid devices and appliances, and they should interfere as little as possible with the comfort and habits of electricity market customers. The energy management algorithms should simultaneously provide advantages for both the end-user and the grid operator.

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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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