Special Issue

Smart Grids for Charging Electric Vehicles

Message from the Guest Editor

The development of electromobility requires the development of infrastructure, and above all the construction of a dense network of vehicle charging stations. However, charging stations are consumers of electricity of a variable nature, which has a significant impact on the operation of the energy system. On the other hand, modern control technologies allow the vehicle charging power to be controlled and adjusted to the current state of the energy system. Vehicle-to-grid systems are also becoming more and more popular. Therefore, they require the use of smart grid technology, which is applicable in the commercial power industry. Thanks to smart grid solutions, electric transportation systems cease to be only an energy receiver and become a dynamic link of the energy system, increasing the possibility of energy flow in the supply system. The purpose of this Special Issue is to address the advances in research related to the application of smart grid technologies for transportation electrification.

Guest Editor

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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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