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Smart Grids for Charging Electric Vehicles

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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.

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Message from the Editor-in-Chief

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