Special Issue

Impact of Electric Vehicles on Power Systems and Society

Message from the Guest Editors

The use of electric vehicles (EVs) in daily life is growing as the sales of this type of vehicle increase. These sales are affected by several factors, such as high purchase costs and a lack of charging stations. Governments can help increase the large-scale adoption of EVs by offering tax discounts and stimulating the installation of charging stations. The growing number of electric vehicles (EVs) has a variety of effects on the power system, including increased power demand, an increase in short-circuit currents, possible voltage level regulation limit breaches, and a reduction in the lifespan of power equipment. Also, the use of EVs can help reduce CO2 emissions if a high share of the power mix comes from renewable energy sources. The scope of this Special Issue includes, but is not limited to, the following topics:

- Impact of EVs on power networks;
- Vehicle-to-Grid (V2G) and Grid-to-Vehicle (G2V);
- EV adoption, considering economic and energy barriers;
- Impact of EVs on the environment;
- Adoption of EVs by our society;
- Policies and standards for EVs.

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About the Journal

Message from the Editor-in-Chief

The *World Electric Vehicle Journal* is the official journal of the World Electric Vehicle Association (WEVA) and its members the European Association for Electromobility (AVERE), the Electric Drive Transportation Association (EDTA), and the Electric Vehicle Association of Asia Pacific (EVAAP). Since its foundation in 2007, the journal has aimed to provide a publishing platform for the academic and industrial world to share the latest developments and knowledge about electric vehicles. If you are developing Electric, Plug-in Hybrid, Hybrid Electric, or Fuel Cell Vehicles, we cordially invite you to consider us as the place for you to publish your latest results and innovations.

Editor-in-Chief

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