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Electric Vehicles and Charging Facilities for a Sustainable Transport Sector

Guest Editor:

Dr. Aritra Ghosh

Department of Renewable Energy, Environment and Sustainability Institute (ESI), University of Exeter, Penryn, Cornwall TR10 9FE, UK

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Message from the Guest Editor

Dear Colleagues,

Electric vehicles (EVs) are indispensable to abate carbon footprints and improve the benign environment across the globe. From 2010, the deployment of EVs on road has been increased exponentially which in turn increased the grid electricity demand. This additional load created power quality and reliability issues in the distribution grid. On the other hand, range anxiety issues are still prominent which is a major bottleneck for EV uptake. Considering the global climate issue, electricity from renewable sources is now getting more priority which can have serious implication on EV adoption if not sufficient charging facilities are implemented. Charging facilities near the workplace, home and highway will definitely increase the EV buyer's confidence. Thus, the inclusion of millions of EVs in the transport sector needs renewable energy penetration into a grid, improvement of grid infrastructure, up-gradation of batteries and battery management system and smart charging facility, a contribution from an energy storage system.











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Editor-in-Chief

Prof. Dr. Joeri Van Mierlo

MOBI—Electromobility Research Centre, Department of Electrical Engineering and Energy Technology, Faculty of Engineering Sciences, Vrije Universiteit Brussel, 1050 Brussel, Belgium

Message from the Editor-in-Chief

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