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Integration of Renewable Energy and Plug-In Electric Vehicles into Power Networks

Guest Editors:

Dr. Reza Razi

University of Grenoble Alpes,
CNRS, Grenoble INP, GIPSA-Lab,
38000 Grenoble, France

Prof. Dr. Ahmad Hably

University of Grenoble Alpes,
CNRS, Grenoble INP, G2ELab,
38000 Grenoble, France

Dr. Mehrdad Gholami

University of Grenoble Alpes,
CNRS, Grenoble INP, G2ELab,
38000 Grenoble, France

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Message from the Guest Editors

The growth and development of renewable energy sources, especially solar energy, has become increasingly evident in recent years. However, power generation in these sources is intermittent due to its dependence on climatic conditions.

On the other hand, today, the market of plug-in electric vehicles is more popular than ever and is moving with astonishing progress. One of the main reasons for this tangible progress is the important challenge of traditional vehicles, namely environmental pollution, along with the development and price reduction in technology related to PEVs.

Hence, it is important to propose new strategies for optimal power management called smart charging. In fact, electric vehicles are used about 10% of their lifetime for transportation on average, and the rest are parked, which increases their availability for smart charging. In other words, smart charging means the cooperation between the PV power production, PEV charging, and existing electricity consumption in a way that brings technical and economic benefits.



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Special Issue



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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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