

Special Issue

Synergic Integration of Electric Vehicles, Renewable Energy, and Storage Systems into Smart Grids

Message from the Guest Editors

In this Special Issue, original research articles and reviews are welcome and research areas may include, but are not limited to, the following:

- Forecasting methods for EV charging demand and RES power generation;
- Sizing methods of PV + storage systems to support charging hub power demand;
- Energy management systems (EMSs) for efficient monitoring and control of power flows at EV charging hubs with photovoltaic sources and storage systems;
- Smart charging and vehicle-to-X (V2X) techniques for EV integration into smart grids;
- Tariff options and regulatory frameworks to foster demand-side management and self-dispatching operations;
- Provision of power network emergency services from microgrids, including intentional and dynamic islanding, black start, counterfeeding, and grid-forming capabilities.

We look forward to receiving your contributions.

Guest Editors

Dr. Mattia Ricco

Dr. Francesco Lo Franco

Prof. Dr. Juan C. Vasquez

Deadline for manuscript submissions

closed (15 September 2025)



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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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