

Special Issue

Creative Evolution of Wired and Wireless Electric Power Transfer Among Renewable Energy Grids and EVs

Message from the Guest Editors

This Special Issue also seeks to delve into the innovative landscape of renewable energy integration within electric power systems, focusing on transferring power from renewable energy sources connected to the “grid” to “electric vehicles (EVs)”. It addresses the challenges associated with grid stability, reliability, and the seamless integration of renewable energy, especially wind and solar energy. The Special Issue also explores advanced technologies and methodologies for optimizing power systems to accommodate increasing levels of renewable energy penetration. Additionally, it emphasizes the critical need for research into wired and wireless charging processes for EVs, aiming for bilateral, optimal power transfer with grid-connected renewable resources. Researchers are invited to contribute to this expansive area of study, which is pivotal for the evolution of sustainable energy systems.

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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. *Sustainability* publishes original research articles, review 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.

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