

Special Issue

Efficient Renewable Energy Integration Technology in Low Voltage Networks

Message from the Guest Editors

The integration of renewable energy resources (RES) into low-voltage distribution networks (LVDNs) is a pivotal aspect of the ongoing energy transition, driven by the goals of sustainability and decarbonization. This transition, while promising, poses a set of formidable challenges. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

- Interactions between Home-MG/Mini-MG and LVDN;
- Voltage regulation/control of LVDN with RES;
- Energy storage technology and management for renewable integration;
- Power quality control and improvement in low-voltage distribution network with high proportion of RES;
- Intelligent control and coordination for self-healing, autonomy and self-organization of LVDN;
- Accurate power forecasting of distributed renewable generation in LVDNs.

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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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