Special Issue

Storage Utilization for Electricity Grid Applications

Message from the Guest Editor

Recent developments in storage technology combined with the increasing penetration of renewable energy in power systems worldwide can uniquely position electricity storage (ES) to provide a wide range of services in generation, transmission, distribution, as well as end-user activities offering whole system economic savings across multiple timeframes and voltage levels. Submissions are encouraged in the following specific areas or related themes for this Special Issue:

- Engineering, control, optimization, numerical, and modeling aspects of energy storage systems;
- Power to gas energy storage for smart energy systems;
- Renewable-based off-grid and grid-connected systems and their control with energy storage;
- Power quality improvement in electricity networks facilitating the integration of energy storage systems;
- Energy storage integrated with buildings and multipurpose hybrid storage systems;
- Energy storage systems for grid support, including use with ancillary services;
- Smart charging stations and electrical vehicle integration;
- Technoeconomic aspects of energy storage for smart energy systems;
- Energy storage for microgrids;
- Storage sharing in local energy communities.

Guest Editor

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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.

Editor-in-Chief

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