Special Issue

Non-synchronous Generation and Storage in Transmission and Distribution Systems: Protection, Control and Smart Grid Applications

Message from the Guest Editors

This Special Issue focuses on, but is not limited to, the following topics:

- Methods for stability analysis of transmission and distribution systems with a large share of non synchronous generation and storage;
- Unit commitment and reserve scheduling in transmission systems with a large share of non-synchronous generation and storage;
- Models of non-synchronous generation and storage units;
- Power electronic converters for non-synchronous generation and storage applications;
- Applications of non-synchronous generation and storage units, their combinations, or combinations with conventional synchronous generation units;
- Control strategies for non-synchronous generation and storage units to enhance voltage and frequency stability;
- Methods for the determination of fault current contribution from non-synchronous generation and storage units;
- Protection design in transmission and distribution systems with non-synchronous generation and storage;
- Protection principles for non-synchronous generation and storage units;
- Smart solutions for transmission and distribution systems with non-synchronous generation and storage.

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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