

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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