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Recent Advances in Hybrid Power Generation Using Solar and Wind Energy

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Message from the Guest Editors

Renewable energy is an important part of the electricity system of countries worldwide, with a high market share corresponding to wind and solar energy. For this Research Topic, we would like to encourage original contributions regarding recent developments in suitable technologies, ideas, and solutions for solar–wind hybrid systems, for example:

- Evaluating the impact of solar and wind generators penetrating power systems and solutions to improve operational stability.
- Advanced control of power converters of a hybrid renewable energy source to minimize adverse impacts on the power system.
- Different types of energy source combinations, modeling, power converter architectures, sizing, and optimization techniques used in hybrid renewable energy sources.
- Optimization of energy transaction strategies and energy management systems for microgrids to increase system reliability and reduce operation costs.
- Ancillary services, storage system solutions, and technology to support renewable energy.

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Message from the Editor-in-Chief

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