



Hybrid Energy System

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Deadline for manuscript
submissions:

closed (30 September 2021)

Message from the Guest Editor

In order to achieve zero emission targets, it is imperative that renewable energy sources play a critical role in future energy systems. However, most renewable energy resources are intermittent in nature and depend on weather conditions. Therefore, the use of a single renewable energy system often leads to excessive system size due to the randomness and the intermittent nature of some renewable energy resources. This phenomenon increases the system capital cost and hinders system reliability. Consequently, hybrid renewable energy systems integrated with renewable energy resources and/or other energy sources (nonrenewable energy sources) and energy storage can be used to address these challenging and unavoidable obstacles. Optimal designs of energy systems become vital in such circumstances, which is always a challenging process where a number of technoeconomic and environmental aspects need to be considered. In this context, this Special issue aims to present a collection of research work that resolves the major barriers around the design, modeling, optimization, and technoeconomic assessment of hybrid energy systems from a practical implementation perspective.





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