



Renewable Energy Production and Distribution for a Sustainable Future: Models and Strategy

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Message from the Guest Editors

Dear Colleagues,

The energy sector is undergoing a fundamental transition towards decentralization and decarbonisation. In this context, renewable energy-based production systems have contributed to raising awareness on the role of prosumers. The energy produced by consumers is used for the satisfaction of their own energy needs; however, exceeding production can be distributed within the neighbourhood, thus allowing for the creation of a local decentralized energy distribution network. This will also reduce the use of conventional fossil-fuel-based centralized grid supply, leading to a carbon-free future. Currently, however, there is still the need for proper methodologies, models, strategies, and perspectives.

Under these premises, the Special Issue includes but are not limited to the following main topics: Energy production and distribution models; Operation and management of decentralized energy distribution networks; Case studies; Renewable production technologies favoring the energy distribution among prosumers; Organizational models for energy distribution among prosumers; Socioeconomic and environmental perspectives.





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Message from the Editor-in-Chief

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