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Recent Technological Advancements Driving Sustainable Development in Flexible and Resilient Power and Energy Systems

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Deadline for manuscript submissions:

30 November 2024

Message from the Guest Editors

Dear Colleagues,

The global energy sector is transforming profoundly and rapidly, presenting unprecedented challenges opportunities. Meeting the increasing electricity demand sustainably poses multifaceted complexities and the transition towards a cleaner and more sustainable energy model encourages the restructuring of the global energy system, driven by key factors such as decarbonization, decentralization, and digitalization. This revolution is supported by technological innovation, including the integration of large-scale and new small-scale renewable technologies (solar energy, hydropower, geothermal energy, biomass, and wave and tidal power), power electronics systems, energy storage, electric vehicles, and electricity demand management.

This Special Issue covers these promising and dynamic research areas, aiming to gather high-quality contributions highlighting the challenges, recent advancements, and innovative solutions for flexible and resilient renewable energy-based power and energy systems.









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