



Industry 4.0 Technologies to Support the Energy Transition

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Deadline for manuscript
submissions:

30 September 2024

Message from the Guest Editors

Dear Colleagues,

The global imperative to tackle climate change has propelled the energy sector into an era of transformation, in which traditional paradigms are being remodelled by the convergence of Industry 4.0 technologies and sustainable practices. Energy efficiency measures, driven by IoT sensors, AI algorithms and data analysis, can optimize the use of resources and minimize waste throughout the energy value chain. Electrification is emerging as a cornerstone of the transition, with smart grids and decentralized energy systems that enable the integration of renewable sources such as solar and wind being developed. Through interdisciplinary research and innovative applications, this Special Issue aims to elucidate the transformative potential of Industry 4.0 in accelerating the shift towards a sustainable future, promoting resilience and mitigating climate risks.

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an Open Access Journal by MDPI

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Message from the Editor-in-Chief

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