

Special Issue

Sustainable Development of the Renewable Energy and Hydrogen Technologies

Message from the Guest Editors

Reaching carbon neutrality within the coming few decades is a major global challenge. At the same time it presents an opportunity to transition to abundant, clean and sustainable energy for all. Renewable energy and hydrogen technologies will play the key roles in this transition. This said, there are still major technological challenges to confront and overcome before achieving a global sustainable, dependable and affordable energy supply that covers the needs for power and heat supply, transportation and industry. Several key technologies must yet reach higher technological maturity and cost reductions, while the dependence on critical materials must be drastically reduced and the transition to a circular economy accelerated. Furthermore, renewable energy and hydrogen infrastructure rollout must go hand in hand with growing digitalization. The purpose of the special issue “Sustainable Development of Renewable Energy and Hydrogen Technologies” is to put these challenges under the magnifying glass and discuss required solutions, measures and policies.

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