

Special Issue

Renewable Generation and Environmental Impact Management: A Review of Current Knowledge and Practices

Message from the Guest Editors

One of the main challenges we are facing today is meeting increased energy demands while reducing greenhouse gas and pollutant emissions. The world energy demand has been predicted to increase by 28% by 2040. Currently, the energy is primarily obtained from fossil fuels, which are the dominant source of greenhouse gas emissions, posing significant threats to the environment through climate change. There is an impetus to produce more sustainable and ecofriendly energy fuels to reduce carbon emissions.

The renewable energy sector is the fastest-growing source of energy. Several types of technologies (thermal, thermochemical, biochemical, and biological) are used to generate different types of renewable energy fuels and sustainable chemicals that can be utilized to produce energy. It is essential to examine the environmental impact and benefits of renewable energy technologies to improve their efficiency and build a sustainable environment. Considering the significance of the topic, our Special Issue aims to cover the most recent progress and the advances in the field of renewable energy and environmental impact management.

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Deadline for manuscript submissions

closed (1 October 2021)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/69675

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