



Renewables Application: Challenges and Perspectives

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Message from the Guest Editors

The last decades have demonstrated that in the sector of energy generation from renewable sources, there has been room for technological improvements in concordance also with the Circular Economy view. The efficiency of biogas generation from food waste has improved significantly in real-scale plants, also thanks to the increased efficiency of modern selective collection strategies that can guarantee an input with few impurities. The biogas sector has also evolved towards enhanced solutions such as the upgrading of biogas to biomethane and to the refining of the remaining off-gas in order to extract CO₂. Another case is the start of a new stage of electrification, which took place during the Industrial Revolution 4.0, which means a massive saturation of various industries with electrical technologies and opens up new opportunities for using renewable energy sources in industry and smart urban infrastructure. Prospects for the use of renewable energy sources (wind, solar energy, geothermal, tidal, ocean thermal, wave energy)...

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