



Conversion of Residual Biomass Energy to Power Generation

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Message from the Guest Editors

Using biomass for energy production is becoming more and more attractive, especially in the electricity and transport sectors. Indeed, bioenergy represents a long-term measure to reduce the use of fossil fuels, decreasing at the same time greenhouse gas emissions and their contribution to climate change. This, together with the increasing cost of fossil fuels and the growing need for a secure energy source, has stressed the progress in biomass-based technologies, which are recognized as efficient, reliable, and environmentally friendly. In fact, unlike the other renewables, biomass can be stored and used to produce energy only when it is needed. Moreover, biomass is locally available, contributing to energy independence and regional social and economic development. Indeed, energy from biomass is the main source of renewable energy, with a share higher than 60%.

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