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Strategy and design of Innovation Policy Roadmapping for a waste biorefinery

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Abstract

Looming energy crisis, climate change concerns coupled with decreasing fossil fuel resources has garnered significant global attention towards development of alternative, renewable, carbon-neutral and eco-friendly fuels to fulfil burgeoning energy demands. Waste utilisation and its management are being pursued with renewed interest due to the gamut of biobased products it can offer apart from providing enough energy to meet a major fraction of the world's energy demand. Biorefining is the sustainable processing of biomass into a spectrum of marketable products and energy. Integrating all components of waste treatment culminating into biobased products and energy recovery in a single integrated waste biorefinery is self sufficient, highly sustainable and is very beneficial. Designing systematic innovation policies are essential for development and commercialisation of new technologies in this important futuristic research area. This communication explores Innovation Policy Road mapping (IPRM) methodology available in the literature and applies it to design integrated waste biorefinery.

Key Words: Waste biorefinery, bioeconomy, bioenergy, biobased products, biofuels, circular economy, sustainability

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