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The Role of Circular Supply Chains in Achieving Sustainability Goals: A 2023 Perspective on Recycling, Reuse, and Resource Optimization

Srinivas Kalisetty

Integration and AI lead, Ralph Lauren Corporation, New York, NY, USA

Circular supply chains play a critical role in advancing sustainability by promoting recycling, reuse, and resource optimization. As global industries face increasing pressure to reduce waste and minimize environmental impact, transitioning from linear to circular supply chain models has become essential. This study provides a 2023 perspective on the strategies, challenges, and benefits of circular supply chains in achieving sustainability goals. By integrating closed-loop systems, businesses can extend product lifecycles, reduce raw material consumption, and enhance efficiency in manufacturing and logistics. Innovations in material recovery, remanufacturing, and digital tracking technologies further support sustainable resource management. However, barriers such as high implementation costs, regulatory complexities, and supply chain restructuring must be addressed. This paper explores successful case studies, policy frameworks, and technological advancements that drive circular supply chain adoption. The findings highlight how organizations can achieve environmental and economic sustainability through circular practices, fostering a more resilient and responsible global economy.