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Analysis of Sustainable Techniques: Eco-Friendly Practices in Supply Chains with Reference to Topworth Urja & Metals Limited in Nagpur

Shine Varghese Thomas
Department of MBA
Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur, India
shine1703thomas@gmail.com

Abstract: *Supply chain sustainability has emerged as a critical component in achieving environmental and operational efficiency across industries. This study investigates the implementation of eco-friendly practices in the supply chain processes of Topworth Urja & Metals Limited, focusing on their impact on environmental conservation and operational efficiency. By analysing strategies such as resource optimization, waste reduction, and the adoption of green technologies, the research sheds light on the company's efforts to align business objectives with sustainable development goals. The study employs a mixed-method approach, combining qualitative interviews with key stakeholders and quantitative analysis of operational data, to evaluate the effectiveness of these initiatives. Findings indicate significant benefits, including cost savings, enhanced brand reputation, and reduced carbon emissions, which demonstrate the potential of sustainable practices in strengthening supply chain resilience. However, challenges such as initial investment costs and resistance to change are also highlighted, emphasizing the need for strategic planning and stakeholder engagement. The research concludes that integrating eco-friendly practices within supply chains is not only a corporate responsibility but also a strategic advantage, paving the way for a sustainable future. Recommendations for scaling these practices to other industries are provided, underlining the broader implications of this study.*

Keywords: sustainable techniques, eco-friendly practices, supply chain management, Topworth Urja & Metals Limited, environmental conservation, green technologies, operational efficiency, corporate responsibility

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