International Journal of Scientific Research in Engineering and Management (IJSREM)
Volume: 08 Issue: 01 | January - 2024 SJIF Rating: 8.176 ISSN: 2582-3930

Emerging Trends in Green Supply Chain Management

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Abstract

The abstract on emerging trends in green supply chain management explores the evolving landscape of sustainable practices within supply chain operations. This paper examines key trends, including circular economy adoption, renewable energy integration, and the increasing role of technology in enhancing transparency and traceability. Additionally, the abstract delves into the growing importance of stakeholder collaboration, regulatory compliance, and the implementation of eco-friendly packaging solutions. By analyzing these emerging trends, the paper aims to provide valuable insights for businesses seeking to align their supply chain strategies with environmental sustainability goals.

Keywords: sustainability, green supply chain, long term viability.

Introduction

The introduction to emerging trends in green supply chain management sets the stage for understanding the dynamic shift towards sustainable practices in today's business environment. As organizations globally recognize the imperative to reduce their environmental footprint, the supply chain becomes a focal point for innovation and transformation. This introduction explores the increasing urgency to integrate eco-friendly practices, the rising consumer demand for sustainable products, and the regulatory pressures shaping the landscape. The discussion also highlights the broader implications of green supply chain management on corporate reputation, cost efficiency, and long-term viability. Through this exploration, the introduction aims to provide a comprehensive overview of the evolving paradigm in supply chain sustainability.

Literature Review

Some literatures suggest that the main trends in supply chain management today are artificial intelligence and automation, supply chain as a service, circular supply chains, risk management and stability, and increased focus on sustainability.

In our very fast changing economy, diversified economy these trends in green supply chain management are highly accepted and welcomed by the many organisations.

Research methodology

When gathering data for the research process the researchers primary considerations should be population and sampling .The targeted respondents from whom the researcher would gather data- make up the population. According to Van Blerkom (2008) the population is the group of respondent that were observed from which the researcher had to choose a sample for analysis given the unknown population under investigation Morgan (1970) recommended a sample size of 384 for this kind of population.A survey approach was used in the current study to gather data from the participants using a pre-structured questionnaire . The questionnaire was taken from earlier research and utilised after being reviewed by the knowledgeable experts in the field.

Conclusions and implications of the study

Green supply chain management trends involve various practices to enhance sustainability. Findings suggest a growing focus on renewable energy adoption, waste reduction, and eco-friendly packaging. Companies increasingly prioritize supplier sustainability assessments and implement circular economy principles. The conclusion is a shift towards holistic, environmentally conscious supply chains to meet consumer demands and mitigate ecological impacts.

Furthermore, different research papers have quoted that sustainability performance can also result in economically sound and highly beneficial for the organisation.

Implementing green supply chain management practices in an organization yields several conclusions. Firstly, it enhances corporate sustainability by reducing environmental impact. Secondly, it fosters cost savings through resource efficiency and waste reduction. Thirdly, such practices contribute to improved brand reputation and customer loyalty. Overall, the implementation of green supply chain management aligns with long-term business viability and societal responsibility.

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Implementing green supply chain management practices in an organization involves several key initiatives:

Sustainable Sourcing: Prioritize suppliers with environmentally responsible practices, ensuring the procurement of sustainable materials.

Energy Efficiency: Optimize transportation and distribution processes to reduce energy consumption and carbon emissions.

Waste Reduction: Minimize waste generation through efficient production processes and promote recycling initiatives.

Product Lifecycle Assessment: Conduct assessments to understand and minimize the environmental impact of products throughout their entire lifecycle.

Eco-Friendly Packaging: Embrace packaging materials that are recyclable, biodegradable, or made from sustainable sources.

Supplier Collaboration: Engage with suppliers to establish and enforce environmentally friendly practices across the supply chain.

Regulatory Compliance: Stay informed about and comply with environmental regulations, ensuring the organization operates within legal and ethical boundaries.

Continuous Improvement: Regularly assess and refine green practices, fostering a culture of continuous improvement in sustainability efforts.

Implementing these practices fosters a more environmentally conscious supply chain, aligning the organization with sustainable business practices and meeting the expectations of environmentally aware consumers.

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