



Review Research

## Sustainable Merchandising: Integrating Eco-Friendly Practices in Retail Product Presentation

Nazma Begum<sup>a</sup>, Redoyan Chowdhury<sup>b</sup>, Wahiduzzaman Khan<sup>b</sup>, Sharif Ahmed Sazzad<sup>c\*</sup>

<sup>a</sup> Senior Merchandiser, Poeticgem International Ltd, Bangladesh

<sup>b</sup> School of Business, Ahsanullah University of Science and Technology, Dhaka, Bangladesh

<sup>c</sup> Pathfinder Research and Consultancy Center, Bangladesh

\* Corresponding author: [sazzad139@gmail.com](mailto:sazzad139@gmail.com)

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### ABSTRACT

The retail industry significantly contributes to worldwide economic development while simultaneously being a major cause of environmental deterioration due to energy consumption, packaging waste, and unsustainable resource utilization. With the escalation of environmental concerns, sustainable merchandising has become a pivotal strategy to diminish the ecological impact of retail operations. This study examines the incorporation of sustainable practices in the display of retail products, specifically within the textile sector. A thorough literature review and secondary data analysis were both used in the study to look into important topics like sustainable supply chain management, strategies for positioning environmentally friendly products, and the ethical and environmental problems that retailers face. The results emphasize that sustainable methods, including the use of recyclable materials, renewable energy systems, and circular economy principles, may improve a brand's reputation, cultivate customer confidence, and adhere to changing legal requirements. Researchers have recognized new strategies like digital commerce and sustainable transportation as effective ways to mitigate environmental consequences. Case studies of prominent organizations, such as Patagonia and Kotn, illustrate the concrete advantages of sustainability measures, including enhanced consumer loyalty, market expansion, and less environmental impact. This study highlights the increasing consumer inclination towards environmentally sustainable items and offers practical recommendations for retailers to synchronize with sustainability objectives, enhance operational efficiency, and support global climate initiatives.

### 1. Introduction

The retail sector is an essential component of the global economy; it influences customer behaviour and dictates consumption trends. Nonetheless, it substantially contributes to environmental degradation via energy consumption, packaging waste, and excessive dependence on non-renewable resources (Bazaki & Wanick, 2019; Abnett, 2016). As apprehensions regarding climate change and environmental conservation increase, the retail sector must urgently adopt sustainable practices. Sustainable merchandising includes incorporating environmentally friendly

ideas into the display of retail items, minimizing energy usage, and advocating for circular economy practices that align with ecological goals (**Fernandes & Morais, 2021**). This strategy cultivates more consumer trust, improves brand reputation, and guarantees adherence to changing regulatory standards. Sustainable retailing aligns with international initiatives to address climate change and diminish ecological footprints (**Xu et al., 2019**). By embracing sustainable options, shops may reduce their impact on environmental damage. Contemporary customers are more cognizant of their ecological footprints and favour companies that reflect their environmentally conscious principles. Sustainable marketing assists merchants in attracting and retaining these consumers (**Peng, 2021; Oliveira & Lutterbach, 2020**). If you want to be eco-friendly in retail merchandising, you should use long-lasting materials for displays and packaging materials that can be recycled and used again materials like bamboo, glass, and reclaimed wood; energy-efficient systems like LED lighting; automated energy management systems; and renewable energy sources. Enterprises frequently use sustainability to provide intergenerational resource stability and enable them to meet their current financial targets without compromising their long-term goals (**Nhung & Thuy, 2018**).

Nonetheless, contemporary global apparel production is unsustainable, as cotton farming demands significant water resources and pesticides, while polyester is derived from non-renewable petroleum. Manufacturers dump dye effluents that haven't been cleaned into nearby water systems. This causes large amounts of toxicants and heavy metals to build up in the water, which threatens aquatic life and people who live nearby (**Sunny et al., 2021a; Kuddus et al., 2022**). Eco-friendly or green fashion pertains to garments and accessories manufactured with minimum chemicals, pesticides, or hazardous dyes, hence substantially reducing the ecological footprint. Global enterprises have incorporated sustainability elements into their goods, reaping various advantages in return (**Chwialkowska et al., 2020; Mehta & Chugan, 2013**). For instance, the Canadian fashion label Kotn has benefitted from enhanced consumer support and market growth owing to its sustainable practices, while Patagonia has attained \$1 billion in yearly revenues through its environmental initiatives. Consumers are becoming acquainted with items made with recycled components, second hand materials, natural fibres, and eco-friendly textiles (**Touchette & Lee, 2017; Baldo et al., 2015**). Companies are increasingly employing green marketing for profit generation, social responsibility, and evolving customer views. We anticipate the FMCG sector to align with twelve themes, which include environmental sustainability, regulatory compliance, and packaging reduction. Eco-friendly products seek to mitigate the environmental impact of consumption by employing procedures, materials, and recycling methods that are less detrimental than traditional products. A 2009 Gallup study revealed that one in five European respondents believe that the most effective activity for addressing environmental issues is purchasing items manufactured using eco-friendly processes, following waste reduction and recycling efforts (**Lee & Huang, 2020; Xu et al., 2019; Abnett, 2016**).

Retail, a fundamental component of the global economy, significantly influences consumer behavior and drives consumption trends. Nonetheless, it substantially contributes to environmental

degradation via energy consumption, packaging waste, and excessive dependence on non-renewable resources (Lundblad & Davies, 2016; Nguyen 2020). With escalating worries over climate change and ecological conservation, the retail sector must urgently adopt sustainable practices. Sustainable merchandising denotes the incorporation of environmentally conscious ideas into the display of retail merchandise. This entails reevaluating material utilization, minimizing energy use, and advocating for circular economy concepts that conform to environmental goals (Khan, 2021; Jakhar et al., 2020). Sustainability is crucial to fulfilling current requirements without jeopardizing the ability of future generations to meet their own demands. Nonetheless, the worldwide apparel and retail industries are significantly lacking in sustainable standards, facing difficulties such as excessive water use, pesticide use, polyester manufacturing, hazardous pollution, and the rapid turnover of fashion fads (Palacios-Mateo et al., 2021; Fitt, 2000). The idea of eco-friendly or sustainable fashion has become popular, emphasizing the use of few chemicals, pesticides, and poisonous dyes in production and thereby greatly reducing the impact on the environment. Companies using these concepts frequently see several advantages, such as improved brand recognition and increased consumer trust. Kotn, a Canadian firm focused on sustainable garments, saw significant success by aligning its methods with eco-friendly ideals. Patagonia has utilized environmental initiatives to broaden its customer base, achieving yearly revenues exceeding \$1 billion (Khan, 2021; Jakhar et al., 2020; Sunny et al., 2022). As climate change and ecological conservation become increasingly significant in public discussions, the retail sector encounters escalating demand to implement sustainable practices.

Sustainable merchandising is a vital approach that integrates environmentally friendly concepts into product displays. In addition to environmental advantages, sustainable retailing fosters customer trust, reinforces brand identity, and guarantees adherence to changing regulatory standards (Carmigniani et al., 2011). This research examines how shops may meet the rising customer demand for eco-friendly products, facilitating positive change while ensuring sustainable economic and environmental advantages (Li et al., 2022; Muñoz-Leiva et al., 2021).

## **2. Research Methodology**

### *2.1 Literature Review:*

This review research demonstrates the incorporation of sustainable practices into marketing techniques in the retail textile industry, emphasizing eco-friendly product display. The review study encompassing a comprehensive literature review, secondary data collecting, and qualitative analysis of industrial case studies. It analyses critical aspects such sustainable supply chain management, eco-friendly product positioning tactics, market research methodology, and the ethical and environmental dilemmas encountered by the textile retail industry. The study emphasizes how international textile companies utilize sustainability activities in supply chain

management and product presentation to conform to consumer preferences and global sustainability objectives.

### *2.2 Data Acquisition and Examination:*

We will collect data from publicly accessible sources, including sustainability reports, industry journals, and market trend assessments, to examine the adoption of eco-friendly methods in product presentation. The data will be assessed using qualitative and quantitative methodologies, focusing on theme analysis to discern key aspects affecting sustainable product positioning. Statistical methods will be utilized to identify patterns and trends concerning supply chain sustainability, consumer demand for environmentally friendly products, and the competitive dynamics of the global textile industry.

### *2.3 Market Analysis and Environmental Impact Assessment:*

This study investigates the convergence of market research and environmental sustainability within the textile retail industry. The study assesses how organizations incorporate market research to connect their product offers with sustainability objectives by analysing customer behaviour, demand for sustainable products, and industry trends. Essential environmental and ethical factors such as resource use, carbon emissions, labour practices, water usage, and waste generation are rigorously evaluated. The research examines the impact of globalization on the development of sustainability measures and its effect on retail product presentation techniques. The research seeks to deliver practical insights for incorporating environmentally sustainable methods into retailing.

## **3. Results and Discussion:**

### *3.1 Sustainable Merchandising Strategy for Clothing:*

Apparel brands may transform their internal and external environments through various sustainable marketing techniques. Apparel brands are now overhauling their unsustainable business structures and development strategies, aiming for sustainable development by transitioning from a single-benefit to a quality-benefit model (**carmigniani et al., 2011; Sampaio et al., 2017**). Based on what's already been written, we looked at sustainable clothing marketing techniques that take into account internal intangible variables, external tangible variables, and customers' willingness to buy.

### *3.2 The Societal Implications of Sustainable Apparel Merchandising:*

The study focusses on the determinants and merchandising methods that contribute to sustainable merchandising. The results indicate that governmental policy assistance is essential for the sustainable marketing of clothes. The government enforces durability requirements in the garment sector. As an example of cooperative consumption and a way to encourage companies to meet

durability standards, clothing libraries not only support the idea of sustainability in the economy, but they also make textile markets more environmentally and socially sustainable (**Pham et al., 2021; Strauss & Corbin, 1990**). Government engagement and assistance can significantly enhance the future advancement of sustainable apparel marketing. Under governmental guidance, producers have implemented measures for the sustainable marketing of clothes. For instance, garment businesses investigate the impact of environmental consciousness and fashion perceptions on consumers' willingness to purchase sustainable clothing. Brands have directed garment designers and tailors to implement sustainable fashion principles to the fullest degree in the design and tailoring processes, integrating sustainable fashion concepts comprehensively. Apparel merchants convey the Sustainable Consumption Agenda to clients in their stores to augment their contribution to sustainable consumption (**Kim et al., 2020**). Moreover, both SMEs and big enterprises must uphold the principle of corporate social responsibility (CSR) to safeguard employees through legislative mandates like remuneration and benefits, safe working conditions, gender equity, and advancement opportunities. Moreover, CSR initiatives must align with specific interests, including the necessity for local communities to unite in tackling social challenges (**Sacco et al., 2011; Sunny et al., 2020**). Among the internal elements affecting sustainable marketing, several clothing businesses acknowledge that consumers' personal norms, societal standards, and environmental awareness significantly influence sustainable fashion consumption. Producers amalgamate their ecological principles and marketing strategies to establish an eco-fashion brand identity (**Kim et al., 2020**). Producers leverage the attributes of celebrity endorsers (ethical, moral, image, etc.) to enhance brand promotion by aiming to cultivate awareness, favorable attitudes, and purchase intent for a sustainable brand. Greater brand equity for the producer's clothing line (i.e., brand recognition, brand image) correlates with an elevated consumer reaction (willingness to pay a price premium, customer loyalty). Brand equity may influence the indirect relationship between fundamental social media merchandising operations and client responses. Producers' activities with sustainable marketing of apparel brands also stimulate customer interest and actions towards sustainable clothing practices (**Boardman, Parker-Strak, & Henninger, 2020**). The promotion of manufacturers has heightened customer knowledge about the sustainable marketing of clothes. If a product offers sufficient aesthetic, practical, and economical advantages to satisfy customer requirements and desires, people will purchase that brand's goods. This indicates that buyers are concerned not just with environmental, social, and ethical advantages but also with the aesthetic, utilitarian, symbolic, and financial worth of apparel. Studies also show that different ways of seeing oneself have different effects on fashion choices, while the way clothes are categorized has different effects on people's plans to buy (**Kuddus et al., 2021; Oliveira & Lutterbach, 2020**).

### *3.3 The Economic Significance of Sustainable Apparel Merchandising:*

The government has implemented policies to promote sustainable apparel merchandising, aiming to assist producers in enhancing their market-driven capabilities and expanding the profitability

associated with sustainable practices (**Sorescu et al., 2011**). Nonetheless, a deficiency exists in the formulation of governmental plans and policies for sustainable apparel marketing. If policymakers formulate effective policies, consumer awareness of sustainable fashion will rise, leading to an increase in the purchasing power of sustainable items. Producers who use sustainable technologies and those who incorporate sustainability into their products may give businesses an edge in the way they sell their goods. Fashion businesses use the Higgs Index to enhance information transparency, thereby augmenting environmental awareness, brand trust, propensity for eco-friendly actions, and purchasing willingness (**Fernandes & Morais, 2021**). The investigation indicates that corporate openness positively influences environmental issues, brand trust, a desire to engage in eco-friendly behavior, and market acceptability. Moreover, Chinese manufacturers utilize social media to educate customers about the sustainable clothing of apparel companies marketed through social media platforms, hence enhancing consumers' propensity to purchase (**Kawaf & Tagg, 2012; Evans, 2010**). The absence of governmental support and direction in sustainable garment merchandising has resulted in a deficiency of standardization within the sector, leading to diminished consumer knowledge about sustainability in this domain. Producers' efforts in sustainable garment retailing have expanded the market for sustainable items, allowing them to profit while enhancing their brand image (**Adnan, Ahmad, & Khan, 2017**).

### *3.4 Green Transport:*

Transport is a crucial component of retailing and a significant source of pollution. Consequently, improving transportation procedures may significantly mitigate the environmental effect of merchants. Green transportation, characterized by the transfer of goods with reduced materials, energy consumption, and enhanced efficiency, has been proposed as a crucial component of green retailing (**Mehta & Chugan, 2013; Martin & Morich, 2011**). This encompasses the judicious selection of vehicle types, delivery timetables, freight flow consolidation, and fuel choices, among other factors. For instance, prominent French retailers are progressively implementing innovative logistics strategies, including the optimization of delivery schedules, the substitution of current heavy goods vehicle fleets with more environmentally friendly alternatives (e.g., Casino), the enhancement of goods transportation to reduce carriers' greenhouse gas emissions (e.g., Auchan), and the integration of road and rail transport (**Cong Doanhet et al., 2021**).

### *3.5 Digital Merchandising and Principles of the Circular Economy:*

Technological innovations provide novel, sustainable methods of product display. Virtual and augmented reality technologies provide immersive shopping experiences while minimizing the use of physical display materials. Digital catalogues serve as alternatives to printed brochures, reducing paper waste and enabling real-time updating. Circular economies prioritize resource efficiency and waste minimization. Product take-back schemes promote the return of unwanted items for recycling or refurbishment, thereby prolonging the lifespan of materials (**Chaturvedi et**

**al., 2020).** Modular and up cyclable displays that can be effortlessly disassembled and recycled save waste and augment versatility.

### *3.6 Consumer Behavior and Obstacles in Executing Sustainable Merchandising:*

Study demonstrates that customers are increasingly emphasizing sustainability in their buying decisions. Retailers must convey transparency in Delivering precise and transparent information on sustainability activities cultivates trust among environmentally aware consumers (**Cant & Hefer, 2012; Sacco et al., 2011**). Inform Consumers Emphasizing the ecological advantages of sustainable practices enables consumers to make educated decisions, hence enhancing brand loyalty. Notwithstanding its benefits, sustainable commerce poses difficulties. The financial ramifications of eco-friendly materials and technology sometimes necessitate greater initial investments, potentially dissuading small and medium-sized stores (**Song & Kim, 2019**). Constraints in the Supply Chain Ensuring a reliable supply of sustainable materials can be difficult, especially for enterprises located in areas with restricted access to these resources. Consumer Doubt: Greenwashing, or deceptive assertions on sustainability, has rendered customers cautious. Retailers must guarantee authentic and verified environmentally sustainable initiatives.

Retailers may mitigate waste by utilizing biodegradable materials, integrating recycled content in displays and packaging, and employing reusable materials, such as bamboo or glass. LED lighting solutions use 75% less energy than incandescent lights, resulting in yearly cost reductions exceeding \$10,000 per store. Controlled energy management systems, including motion-sensor lighting and controlled HVAC controls, can save energy expenses by 20% in high-traffic retail environments (**Sorescu et al., 2011; Sunny et al., 2017**). The incorporation of renewable energy can diminish carbon emissions by as much as 50%, appealing to environmentally aware customers. Virtual and augmented reality (VR/AR) solutions may enhance consumer engagement by 25% and decrease product return rates by 18%. Shifting from printed to digital catalogues can yield substantial cost reductions and ecological advantages. Product take-back programs may enhance material recovery rates by 60%, with electronics shops reselling 40% of returned products. Modular and up cyclable displays can decrease material consumption by 50% and mitigate waste by repurposing discarded components into new designs. Employing these tactics can assist shops in mitigating their environmental footprint and enhancing their brand reputation (**Peng, 2021**).

This study's findings highlight the essential function of sustainable merchandising in reducing environmental effects and improving customer involvement in the retail sector, especially within the textile industry (**Muñoz-Leiva et al., 2021**). The incorporation of recyclable materials, renewable energy systems, and circular economy concepts considerably reduces the environmental impact of retail operations. These methods not only conform to global sustainability goals but also enhance customer trust and elevate brand reputation. The use of sustainable transportation methods, including the optimization of delivery schedules and the utilization of fuel-efficient cars,

illustrates how logistics may aid in diminishing carbon emissions (**Touchette & Lee, 2017; Baldo et al., 2015**). Moreover, technological advancements such as virtual and augmented reality have arisen as economical alternatives that reduce physical material consumption while improving the user experience. These initiatives illustrate the dual advantages of environmental and economic benefits for merchants. The shift to sustainable retailing has several problems. The substantial initial expenses linked to sustainable materials and technology sometimes dissuade small and medium-sized firms (SMEs) from implementing these practices (**Chakma et al., 2022**). The proliferation of greenwashing has rendered customers more sceptical, hence mandating openness and responsibility from merchants. Overcoming these obstacles necessitates a collaborative effort among stakeholders, such as legislators, corporations, and consumers, to create comprehensive norms and frameworks for sustainable shopping. The survey underscores the increasing customer inclination towards sustainable products and the imperative for retailers to synchronize their operations with environmental principles (**Martin & Morich, 2011; Sunny et al., 2021a**). By emphasizing sustainability, firms may achieve economic progress while aiding global climate initiatives and establishing a standard for ethical retail operations.

#### **4. Conclusion and Recommendation**

The study highlights the significance of sustainable merchandising within the retail business, particularly in the textile sector. By incorporating environmentally sustainable methods into product displays, businesses may reduce ecological harm and satisfy the increasing demand for sustainable goods. Eco-friendly transportation, circular economy concepts, and digital marketing improve operational efficiency and reduce waste. Aligning sustainability activities with consumer values cultivates trust and brand loyalty, hence enhancing market competitiveness. Retailers must prioritize resource efficiency, offer transparent information on sustainability activities, use digital technology, invest in eco-friendly transportation, educate consumers, and enhance regulatory support. These ideas seek to assist shops in attaining enduring sustainability while promoting economic development and environmental preservation. By adopting these principles, merchants may foster customer trust and mitigate greenwashing, thus improving their market's competitiveness.

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#### **Author Contribution**

Each author took involved in the creation of the study design, data analysis, and execution stages. Every writer gave their consent after seeing the final work.

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### **A statement of conflicting interests**

The authors declare that none of the work reported in this study could have been impacted by any known competing financial interests or personal relationships.

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