

"Implementation of Green Supply Chain in Management" By

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ABSTRACT

Even among the general populace, the recent corona virus pandemic has increased awareness of the environment. The seriousness of the pollution degradation in New Delhi and Mumbai has increased in light of recent news reports. In this context, the importance of supply chain management is most clearly influenced by the environment. Environmental protection and the reduction of carbon emissions are important to everyone. The most obvious aspect of supply chain management's importance is the environment. Environmental protection and the reduction of carbon emissions are important to everyone. The government is concentrating on how companies can use green practices to improve their economic and operational performance while reducing environmental degradations. Green supply chain management is important because it reduces waste, lowers transportation costs, and boosts standing and reputation. This can be accomplished by taking a number of steps, such as modernizing warehouse lighting, focusing on internal growth rather than external growth, implementing a recycling strategy, and using plasticcoated pallets rather than wooden ones. Beyond the commitment to the environment, which is now a key factor in consumer decision-making, the green supply chain gives companies the opportunity to carefully review their production and marketing strategies while also lowering costs.

Keywords: Green supply chain management, pollution, sustainable resources, cost reduction

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Introduction

Environmental problems have been getting worse and spreading faster than forest fires from country to country, region to world, which is a major contributor to climate change and global warming. Additionally, the depletion of natural resources and pollution of the air and water have a negative impact on the fauna and flora as well as human life, causing a variety of diseases like ischemic heart disease, lung cancer, chronic obstructive pulmonary disease, stroke, dracunculiasis, cholera, hepatitis, typhoid fever, and norovirus. Basic ideology behind green concept is to enhanced environmental sustainability. The idea of incorporating environmentally sound practices into the established supply chain is known as a sustainable or green supply chain. This can involve procedures like choosing a supplier and buying supplies, designing a product, making and assembling it, distributing it, and managing its end-of-life. The green supply chain involves value addition and/or value creation through the operations of the entire chain, as opposed to mitigating the negative effects of business and supply chain operations.

Applications of the primary sustainable development strategy stand out to green supply chains. It focuses on how businesses can implement green practices to reduce environmental degradations and improve their economic and operational performance. In the World, as the environmental awareness is increasing, firms are facing heavy pressure from different stakeholders including government and customers to mitigate their harmful effect on the environment.

Importance of Green Supply Chain Management:

The environment is the most obvious factor in supply chain management's significance. Everyone cares about reducing carbon emissions and protecting the environment. But these are merely a few of the factors that influence business decisions to "go green."

Apart from the environmental benefits, green supply chain management can offer:

Reduced Waste: Every year, millions of tons of food are lost along the supply chain. Managers can stop expensive losses that lower their taking care of business by attempting to reduce that waste through improved process management and the adoption of lean policies.

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Lower transportation costs: When businesses try to cut back on their emissions of greenhouse gases, they typically do so by reducing the weight of their shipments and by shortening their journeys. Because fewer trips are made and trucks experience less wear and tear, transportation costs are reduced as a result.

Improved Standing: 81 percent of consumers globally think that companies should contribute to environmental improvement. This belief influences purchasing choices and can be detrimental to businesses that don't implement sustainable practices. Even companies that don't sell directly to customers are affected because those looking to lessen their environmental impact will research the sustainable business practices of their vendors.

Tips to improve Green Supply Chain management:

Modernizing warehouse lighting: Metal halide bulbs, which are still commonly used in warehouses and distribution centres, are a significant energy drain. These bulbs use a disproportionately higher amount of energy and have a much shorter lifespan than contemporary LED lighting options. While using less energy and maintaining a constant lumen output, a good LED lighting fixture can last more than five times as long as a metal halide fixture.

Expanding inward as opposed to outward: The most environmentally friendly (and frequently the most economical) solution to expand a warehouse or distribution center is to add vertical storage racking to make the most of the facility's available cube space. Additionally, mezzanines can be used to add additional floors for extra storage while maintaining energy efficiency.

Creating a recycling strategy: In a warehouse setting, cardboard and paper are typically recycled, but other supplies are frequently just thrown away. Pallet wraps plastic film can be recycled; it just takes more work in the form of gathering and baling the plastic and locating a recycling business willing to reclaim and process it. For recyclable plastic slip sheets, the same holds true. Setting up a recycling program for these materials takes some work, but the payoff could be a significant step toward developing a supply chain for the circular economy.

Pallets made of plastic rather than wood: Managers have a great opportunity to advance their environmentally friendly behaviours with pallet supply. Although wood is the most popular material for pallets, wood pallets have several negative effects, including ongoing deforestation, piling up in landfills when they are no longer useful, and, in the case of reusable block pallets, a weight that can exceed 70 pounds that increases fuel consumption and carbon emissions. Wooden pallets also contribute to product deterioration, which results in discarded goods and rejected shipments. On the other hand, plastic pallets are a green option and a good way to increase the sustainability of your supply chain because they don't leave behind debris, are lighter than wood, better protect their cargo, and are recyclable.

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Benefits of Sustainable Supply Chain:

The supply chain links customers to goods and services offered all over the world, but doing so has an impact on the environment. Not only the environment suffers losses. The profitability of businesses is significantly being impacted by this lack of sustainability.

1. **Reduced environmental impact:** You can quickly see results by lessening waste and improving the effectiveness of structures, vehicles, and equipment.

2. Supply continuity has improved: You can maintain the continuity of your products or services with the aid of numerous global suppliers, preventing costly downtime and reputational damage.

3. **Controlling reputational damage is possible:** The reputation of your brand is impacted by your supply chain because information is readily available online. It's essential to protect your reputation if you want to encourage the growth of your company. Make sure your sustainability plan enhances the standard of living for every supply chain employee. This calls for establishing fair pay and working conditions and minimizing environmental impact. Never expose workers to unnecessary risk.

4. **Business Development:** A company with a sustainable supply chain is a desirable partner for other businesses looking to collaborate. A sustainable supply chain can increase your revenue while demonstrating your environmental responsibility. Additionally bolstering this are internationally regarded norms like ISO 14001.

5. **Reduce Pollution:** The first and most important step in putting together a green supply chain is to choose a manufacturer who can create a product with the least amount of energy and pollution possible. Since they shouldn't be dangerous when dumped outside, it should be made with the environment in mind.

6. Lean Manufacturing: Buyers typically favour vendors who practice lean manufacturing because it reduces waste without interfering with production. For those who prefer it, this offers a fantastic opportunity because they can get high-quality goods for a lot less money. For instance, Toyota created an integrated socio-integrated system that, by removing wastes, allowed it to deliver goods of higher quality at lower costs and with shorter lead times.

7. **Transportation:** Following production, the next stage is the movement of the goods. As a result, better planning and execution result in a decrease in fuel consumption. Using a digital freight agency, one can ensure that he receives the requested goods by sea or road in a timely manner, more cost-effectively, and transparently. A digital freight forwarder is preferred because they can offer end-to-end transportation visibility and, with their use of green supply chain techniques, can also recommend the least expensive and most effective method of shipping your goods.

8. **Sustainable packaging:** Make sure they are made of environmentally friendly materials, such as wooden pallets and crates. You'll save money if you start using disposable materials for

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packing. The brand loyalty of your company will increase if you use green supply chain practices.

9. **Computer technology:** The main justification for choosing eco-friendly You can reduce your carbon footprint by using a digital freight forwarder to make your transaction paperless. Additionally, it offers transparent information about your transactions, which makes supply chain management simpler.

Conclusion:

Recently, it has become apparent that even the average person is expressing worry about environmental hazards. Recent news reports about the pollution in Delhi and Mumbai have caused grave concern. Particularly against the backdrop of the recent Corona virus pandemic, awareness has spread among the general public. In light of this context, eco-friendly supply chains, carbon-neutral businesses, and other such values are now much more prevalent in our daily lives. The main challenge that businesses will face in the upcoming years is how to optimize an environmentally friendly supply chain. Businesses must adopt a global strategy that integrates sustainable development into all phases of the production process. Beyond the environmental commitment, which is now a significant determinant of consumer choice, the green supply chain offers businesses the chance to thoroughly review their production and marketing strategies while also reducing costs.

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