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23BAE743 LOGISTICS AND SUPPLY CHAIN MANAGEMENT

UNIT 5 SCM Performance Drivers and Forecasting

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Guess the Topic

Green Supply Chain Management

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Recap

Cross Functional Drivers (Pricing, Information and Sourcing)

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Green Supply Chain Management

Green supply chain management involves integrating environmental considerations into all stages of a company's supply chain. This approach minimizes negative environmental impacts and promotes sustainability throughout the process.

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Introduction to Green Supply Chain

1 Environmental Responsibility

Green supply chains prioritize minimizing environmental impact at each stage.

2 Sustainable Practices

They embrace eco-friendly processes, from raw materials to delivery.

3 Stakeholder Engagement

Collaboration with suppliers, customers, and communities is crucial for success.

Benefits of Implementing Green Practices

Reduced Environmental Impact

Minimizing waste, pollution, and resource depletion helps protect the planet.

Enhanced Brand Reputation

Consumers increasingly favor environmentally conscious companies.

Cost Savings

Efficient resource use and waste reduction can lead to lower operational costs.

Improved Employee Morale

Working for a sustainable company can boost employee satisfaction.

Sustainable Sourcing and Procurement

Traditional Sourcing

Focuses on price and availability, with limited consideration for environmental impacts.

Often prioritizes short-term gains over long-term sustainability.

Green Sourcing

Emphasizes environmental responsibility, ethical sourcing, and supplier accountability.

Considers the entire life cycle of products and seeks out suppliers with sustainable practices.

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Green Transportation and Logistics

Sustainable Vehicles

Electric vehicles, biofuels, and fuel-efficient options reduce emissions and improve air quality.

1

Optimized Routing

2

Efficient route planning minimizes distance traveled and fuel consumption, reducing carbon footprint.

Eco-Friendly Packaging

3

Using recyclable and biodegradable materials reduces waste and promotes responsible disposal.

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Waste Reduction and Recycling

1

Minimizing Waste

Streamline processes to reduce waste generation.

2

Material Reuse

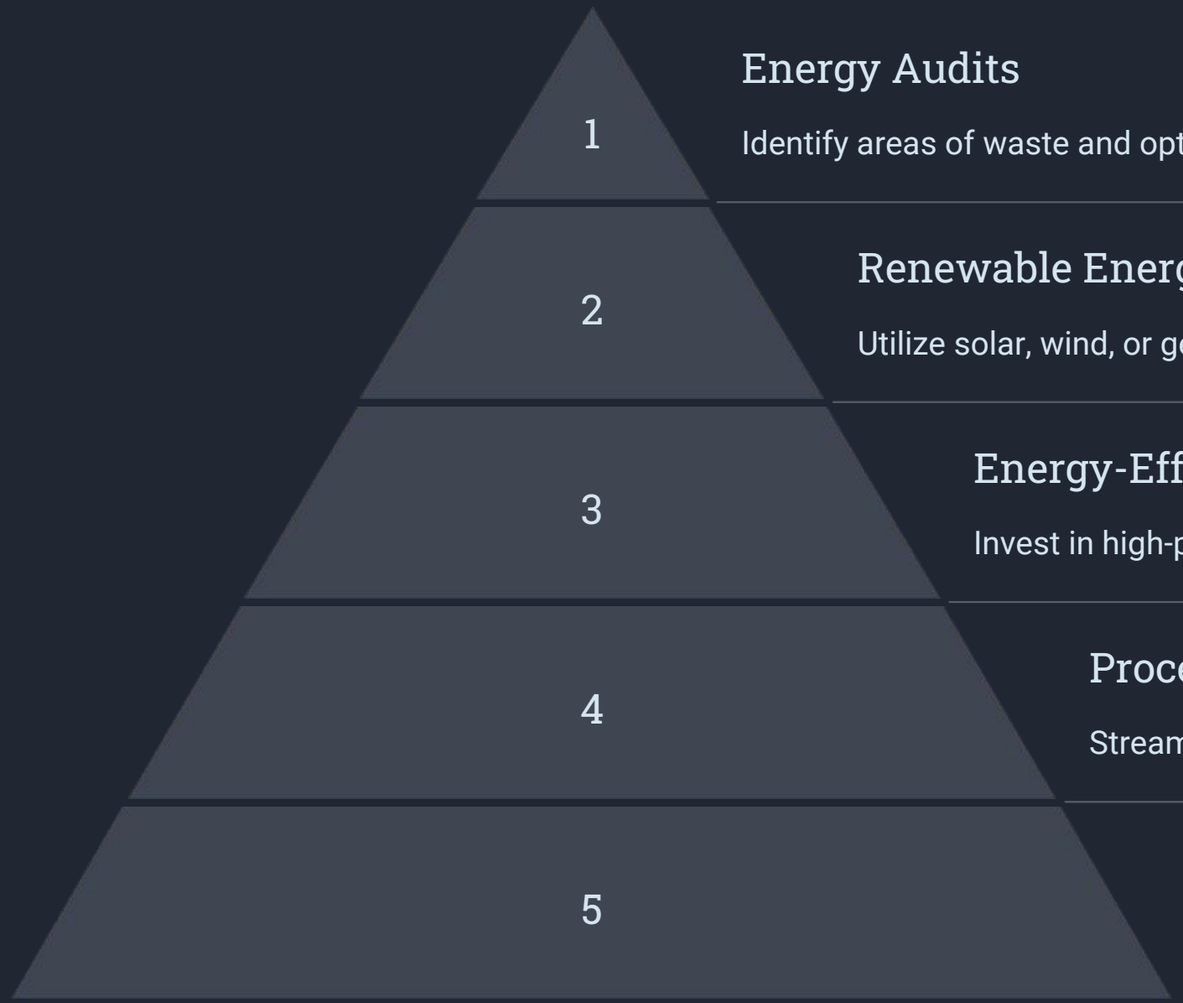
Repurpose waste materials into new products.

3

Recycling Programs

Partner with recycling facilities and ensure proper disposal.

Energy Efficiency in Operations



Energy Audits

Identify areas of waste and optimize energy consumption.

Renewable Energy Sources

Utilize solar, wind, or geothermal power to reduce reliance on fossil fuels.

Energy-Efficient Equipment

Invest in high-performance machinery and appliances that consume less energy.

Process Optimization

Streamline operations to minimize energy usage and improve efficiency.

Employee Awareness

Educate and empower employees to practice energy-saving behaviors.

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Collaboration and Partnerships

Supplier Partnerships

Collaborate with suppliers to adopt sustainable practices, share knowledge, and reduce environmental impact.

Industry Collaboration

Join industry initiatives and networks to share best practices and collectively drive green supply chain innovation.

Customer Engagement

Involve customers in sustainability efforts, educate them about green products, and encourage responsible consumption.

Academic Partnerships

Collaborate with universities and research institutions to access cutting-edge sustainability solutions.

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Measuring and Reporting Sustainability

20%

Waste Reduction

Track progress toward reducing waste generation and improving recycling rates.

50%

Renewable Energy

Measure the use of renewable energy sources to reduce reliance on fossil fuels.

10%

Carbon Footprint

Analyze and report on the environmental impact of the supply chain across various stages.

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Overcoming Challenges and Looking Ahead

1

Cost Barriers

Initial investments in green technologies and practices can be expensive. Seek cost-effective solutions and explore government incentives or subsidies.

2

Lack of Awareness

Educate employees and stakeholders about the benefits of green supply chains and build a culture of sustainability.

3

Supplier Collaboration

Engage suppliers in green practices, sharing knowledge, and fostering collaboration to drive collective progress.

4

Data Collection and Monitoring

Invest in data tracking systems to measure environmental impact and progress toward sustainability goals.

5

Future Innovation

Embrace new technologies and emerging green practices to continuously improve and stay ahead of the curve.

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Thank You

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