

# WAYS TO REDUCE CARBON FOOTPRINTS IN SCM USING DATA ANALYTICS

## Objectives

- To identify factors that reduce carbon footprints in SCM.
- To find ways to reduce carbon footprints.
- To provide proper suggestions through data analytics.

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## Keywords

Supply Chain Management-  
Data analytics-Realtime  
monitoring- Sustainability-  
Carbon footprints-Demand

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## Tools

- Power Bi
- Excel
- Total samples - 153

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04

## Key findings

- Optimize route planning and minimize empty freight miles.Eg:UPS
- DA enables proactive identification of inefficiencies, allowing for dynamic route optimization and resource allocation. Eg:TCS
- Right-size packaging, and implement eco-friendly materials Eg:Ecom Express
- Adhering to emissions standards, promoting green technologies, and ensuring compliance with environmental regulations. Eg:ITC Limited
- Forecasting demand more accurately, allowing for optimized inventory levels and minimizing overproduction and excess transportation. Eg:HUL

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## Key Factors

- Transportation
- Packaging and delivery
- Real time monitoring
- regulatory compliance
- Predictive analytics

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## Suggestions

- Efficient Routing & Logistics, Mode shifting.
- Quick Response System.
- Optimized Packaging Design & Right sizing packaging .
- Sustainable Sourcing, Emission reduction targets.
- Demand forecasting & proactive equipment maintenance.

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