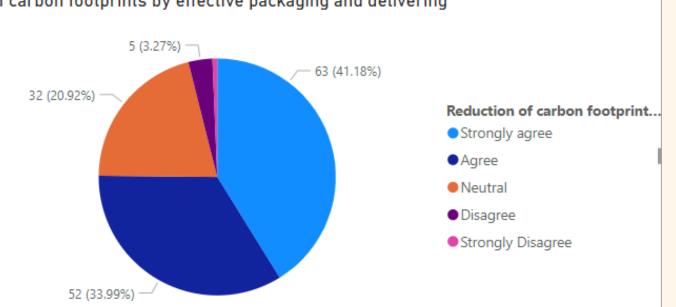


WAYS TO REDUCE CARBON FOOTPRINTS IN SCM USING DATA ANALYTICS

Objectives

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

Reduction of carbon footprints by effective packaging and delivering by Reduction of carbon footprints by effective packaging and delivering



Key Factors

- Packaging and delivery
- regulatory compliance
- Predictive analytics

Keywords

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

Tools

02

- Power Bi
- Excel
- Total samples 153

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

Transportation

- Real time monitoring

06

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.

Contributors

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