

Supply Chain Optimisation: Making Manufacturing More Sustainable

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Scope

Key findings

Sustainability is among the top priorities for companies globally

External pressures and internal motivations drive investment in sustainability

SUSTAINABILITY IN MANUFACTURING

Manufacturing sector contributes significantly to the global emissions and waste

Manufacturing sustainability index: Measuring manufacturing sector's environmental impact

Energy-intensive manufacturing sectors have the highest impact on environment

High use of energy, water and chemicals hurts sustainability of B2B sectors

Companies focus on cost-efficient solutions and product changes to improve sustainability

FOUR STRATEGIES TO IMPROVE SUSTAINABILITY

Key strategies for manufacturers to improve sustainability

Digital strategies are top priority for companies and can help to improve sustainability

Case study: SABIC uses blockchain to reduce emissions

Production localisation and alternative modes of transport can reduce environmental impact

Case study: Delfzijl chemicals cluster helps to reduce environmental impact

More efficient transportation network offers cost savings and lower emissions

Case study: MAN Truck & Bus offers digital tools for clients to improve fleet management

Sustainable automation helps to do more with the same resources

Case study: Volvo and Fanuc deploy new industrial robots

OVERCOMING THE CHALLENGES

Consumer unwillingness to pay more and internal challenges hinder sustainability initiatives

Improved communication can help to improve consumer trust

Financial problems is the main internal issue hindering sustainability initiatives

Greater collaboration can help to create common vision on sustainability goals

Collaboration within the company and small-scale changes reduce financial uncertainty

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Key findings

Sustainable Manufacturing: How to win

Evolution of sustainable manufacturing

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Indicators used in Manufacturing Sustainability Index

Manufacturing Sustainability Index: results

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