

Sustainable Supply Chain Analytics Market Forecasts to 2034 – Global Analysis By Analytics Type (Carbon Emissions Analytics, Supplier Sustainability Analytics, Resource Consumption Analytics, Risk & Compliance Analytics and Other Analytics Types), Supply Chain Stage, Data Source, Decision Support Function, End User, and Geography

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Abstracts

According to Statistics MRC, the Global Sustainable Supply Chain Analytics Market is accounted for \$4.8 billion in 2026 and is expected to reach \$19.8 billion by 2034 growing at a CAGR of 19.4% during the forecast period. Sustainable supply chain analytics refers to advanced analytical platforms that monitor, evaluate, and optimize the environmental, social, and economic performance of supply chain operations. These solutions integrate artificial intelligence, big data analytics, IoT, lifecycle assessment, ESG metrics, and supplier intelligence to improve resource utilization, reduce emissions, identify sustainability risks, and strengthen supply chain transparency. Sustainable supply chain analytics supports responsible sourcing, regulatory compliance, resilience planning, and corporate sustainability initiatives. Increasing emphasis on ethical procurement and low-carbon supply chains is driving global market growth.

Market Dynamics:

Driver:

Increasing supply chain transparency initiatives

Sustainable supply chain analytics enables organizations to measure environmental, social, and operational performance across their supply networks. Companies are seeking greater visibility into sourcing, manufacturing, transportation, and supplier activities. Growing ESG commitments are encouraging businesses to monitor sustainability performance more closely. Digital analytics platforms help identify risks and improve operational efficiency throughout the supply chain. Businesses are also using these solutions to strengthen supplier accountability and meet customer expectations.

Restraint:

Multi-tier supplier data complexity

Global supply chains involve multiple supplier levels that are difficult to monitor consistently. Many suppliers use different reporting systems and sustainability metrics. Collecting accurate information from lower-tier suppliers often requires significant time and resources. Incomplete data can reduce the effectiveness of sustainability analysis and reporting. Organizations also face challenges in consolidating information from geographically dispersed suppliers. These issues increase implementation complexity for sustainable supply chain analytics platforms.

Opportunity:

AI-powered supplier sustainability insights

Artificial intelligence can process large volumes of supplier data within a short time. AI helps businesses identify sustainability risks, supplier performance gaps, and compliance issues more efficiently. Predictive analytics also supports better supplier selection and long-term procurement planning. Organizations can respond more quickly to operational disruptions through intelligent risk monitoring. Continuous AI improvements are making supply chain analytics more proactive and data-driven. This is encouraging greater investment in AI-enabled sustainability platforms.

Threat:

Supplier data reliability issues

Accurate sustainability reporting depends on reliable information from every supplier. Some suppliers still rely on manual reporting processes that increase the risk of data

errors. Inconsistent information can affect ESG reporting accuracy and business decisions. Verifying sustainability data across international supply chains also requires additional resources. Companies are investing in digital verification technologies to improve reporting quality. Despite these efforts, data reliability continues to influence customer confidence.

Covid-19 Impact:

The COVID-19 pandemic highlighted the importance of resilient and transparent supply chains. Organizations experienced disruptions that exposed limited visibility into supplier operations. Many companies accelerated investments in digital analytics to improve supply chain monitoring and risk management. Sustainability also became a greater priority as businesses reassessed sourcing strategies. Cloud-based analytics platforms supported remote collaboration and operational continuity during the pandemic. Companies continue using these digital capabilities to strengthen long-term supply chain resilience.

The carbon emissions analytics segment is expected to be the largest during the forecast period

The carbon emissions analytics segment is expected to account for the largest market share during the forecast period as companies are placing greater emphasis on measuring supply chain emissions. These platforms help organizations calculate emissions generated across production, transportation, warehousing, and procurement activities. Businesses use carbon analytics to support ESG disclosures and climate reporting requirements. The solutions also identify emission hotspots and recommend improvement opportunities. Growing corporate net-zero strategies are increasing investments in carbon measurement technologies. Continuous regulatory focus on greenhouse gas reporting is further supporting segment growth.

The reverse logistics segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the reverse logistics segment is predicted to witness the highest growth rate due to the increasing focus on product recovery and circular supply chains. Organizations are improving the management of returned products, recycling operations, refurbishment, and material recovery. Analytics platforms provide better visibility into reverse logistics activities and resource utilization. Businesses are also aiming to reduce waste while improving operational efficiency. Growing circular

economy initiatives are encouraging investment in reverse logistics technologies. These trends are expected to accelerate demand for analytics solutions in this segment.

Region with largest share:

During the forecast period, the Europe region is expected to hold the largest market share owing to comprehensive ESG compliance requirements. Germany is leading adoption through advanced manufacturing and digital supply chain management initiatives. France continues expanding sustainability reporting across industrial and consumer sectors. Sweden is promoting transparent and low-carbon supply chains through strong sustainability policies, while the United Kingdom is increasing investments in supply chain risk management and ESG analytics. High regulatory compliance and mature sustainability practices continue to strengthen the regional market. Europe is expected to maintain its leadership in sustainable supply chain analytics.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by expanding digital supply chain transformation. China is adopting advanced analytics to improve manufacturing efficiency and supplier transparency. India is experiencing rapid growth in ESG reporting and digital procurement across large enterprises. Japan is integrating AI into supply chain optimization, while Singapore is strengthening sustainable logistics and smart trade infrastructure. Growing industrialization and increasing corporate sustainability initiatives are accelerating regional adoption.

Key players in the market

Some of the key players in Sustainable Supply Chain Analytics Market include SAP SE, Oracle Corporation, IBM Corporation, Kinaxis Inc., Coupa Software Inc., E2open Parent Holdings, Inc., project44, Inc., FourKites, Inc., Sphera Solutions, Inc., EcoVadis SAS, Blue Yonder Group, Inc., o9 Solutions, Inc., Infor Inc., Descartes Systems Group Inc. and GainSystems, Inc.

Key Developments:

In March 2026, IBM Corporation updated its Envizi ESG Suite with watsonx-powered generative AI tools specifically engineered for environmental footprint management. The

platform automates complex Scope 1 through 3 emissions tracking, automated footprint calculations, and supply chain audit preparation. These capabilities enable enterprise sustainability teams to streamline regulatory disclosures and track net-zero targets.

In January 2026, SAP SE launched significant carbon accounting and footprint management updates within its SAP S/4HANA Cloud ERP ecosystem. The system connects transactional supply chain data directly with life cycle assessment engines to calculate real-time product carbon footprints. This integration equips enterprise clients with granular visibility into material-level emissions across global production workflows.

Analytics Types Covered:

Carbon Emissions Analytics

Supplier Sustainability Analytics

Resource Consumption Analytics

Risk & Compliance Analytics

Other Analytics Types

Supply Chain Stages Covered:

Procurement

Production

Logistics & Distribution

Reverse Logistics

Other Supply Chain Stages

Data Sources Covered:

Enterprise Systems

IoT Devices

Supplier Data

Third-Party Sustainability Data

Other Data Sources

Decision Support Functions Covered:

Supplier Evaluation

Risk Prioritization

Emission Reduction Planning

Performance Benchmarking

Other Decision Support Functions

End Users Covered:

Manufacturing Enterprises

Retail & E-commerce Companies

Logistics Service Providers

Consumer Goods Companies

Other End Users

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

Sustainable Supply Chain Analytics Market Forecasts to 2034 – Global Analysis By Analytics Type (Carbon Emissi...

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
 - 2.4.1 Data Collection (Primary and Secondary)
 - 2.4.2 Data Modeling and Estimation Techniques
 - 2.4.3 Data Validation and Triangulation
 - 2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

- 4.1 Porter's Five Forces Analysis
 - 4.1.1 Supplier Bargaining Power
 - 4.1.2 Buyer Bargaining Power
 - 4.1.3 Threat of Substitutes
 - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

5 GLOBAL SUSTAINABLE SUPPLY CHAIN ANALYTICS MARKET, BY ANALYTICS TYPE

- 5.1 Carbon Emissions Analytics
- 5.2 Supplier Sustainability Analytics
- 5.3 Resource Consumption Analytics
- 5.4 Risk & Compliance Analytics
- 5.5 Other Analytics Types

6 GLOBAL SUSTAINABLE SUPPLY CHAIN ANALYTICS MARKET, BY SUPPLY CHAIN STAGE

- 6.1 Procurement
- 6.2 Production
- 6.3 Logistics & Distribution
- 6.4 Reverse Logistics
- 6.5 Other Supply Chain Stages

7 GLOBAL SUSTAINABLE SUPPLY CHAIN ANALYTICS MARKET, BY DATA SOURCE

- 7.1 Enterprise Systems
- 7.2 IoT Devices
- 7.3 Supplier Data
- 7.4 Third-Party Sustainability Data
- 7.5 Other Data Sources

8 GLOBAL SUSTAINABLE SUPPLY CHAIN ANALYTICS MARKET, BY DECISION SUPPORT FUNCTION

- 8.1 Supplier Evaluation
- 8.2 Risk Prioritization
- 8.3 Emission Reduction Planning
- 8.4 Performance Benchmarking
- 8.5 Other Decision Support Functions

9 GLOBAL SUSTAINABLE SUPPLY CHAIN ANALYTICS MARKET, BY END USER

- 9.1 Manufacturing Enterprises
- 9.2 Retail & E-commerce Companies
- 9.3 Logistics Service Providers
- 9.4 Consumer Goods Companies
- 9.5 Other End Users

10 GLOBAL SUSTAINABLE SUPPLY CHAIN ANALYTICS MARKET, BY GEOGRAPHY

- 10.1 North America
 - 10.1.1 United States
 - 10.1.2 Canada
 - 10.1.3 Mexico
- 10.2 Europe
 - 10.2.1 United Kingdom
 - 10.2.2 Germany
 - 10.2.3 France
 - 10.2.4 Italy
 - 10.2.5 Spain
 - 10.2.6 Netherlands
 - 10.2.7 Belgium
 - 10.2.8 Sweden
 - 10.2.9 Switzerland
 - 10.2.10 Poland
 - 10.2.11 Rest of Europe
- 10.3 Asia Pacific
 - 10.3.1 China
 - 10.3.2 Japan
 - 10.3.3 India
 - 10.3.4 South Korea
 - 10.3.5 Australia
 - 10.3.6 Indonesia
 - 10.3.7 Thailand
 - 10.3.8 Malaysia
 - 10.3.9 Singapore
 - 10.3.10 Vietnam

- 10.3.11 Rest of Asia Pacific
- 10.4 South America
 - 10.4.1 Brazil
 - 10.4.2 Argentina
 - 10.4.3 Colombia
 - 10.4.4 Chile
 - 10.4.5 Peru
 - 10.4.6 Rest of South America
- 10.5 Rest of the World (RoW)
 - 10.5.1 Middle East
 - 10.5.1.1 Saudi Arabia
 - 10.5.1.2 United Arab Emirates
 - 10.5.1.3 Qatar
 - 10.5.1.4 Israel
 - 10.5.1.5 Rest of Middle East
 - 10.5.2 Africa
 - 10.5.2.1 South Africa
 - 10.5.2.2 Egypt
 - 10.5.2.3 Morocco
 - 10.5.2.4 Rest of Africa

11 STRATEGIC MARKET INTELLIGENCE

- 11.1 Industry Value Network and Supply Chain Assessment
- 11.2 White-Space and Opportunity Mapping
- 11.3 Product Evolution and Market Life Cycle Analysis
- 11.4 Channel, Distributor, and Go-to-Market Assessment

12 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

- 12.1 Mergers and Acquisitions
- 12.2 Partnerships, Alliances, and Joint Ventures
- 12.3 New Product Launches and Certifications
- 12.4 Capacity Expansion and Investments
- 12.5 Other Strategic Initiatives

13 COMPANY PROFILES

- 13.1 SAP SE

- 13.2 Oracle Corporation
- 13.3 IBM Corporation
- 13.4 Kinaxis Inc.
- 13.5 Coupa Software Inc.
- 13.6 E2open Parent Holdings, Inc.
- 13.7 project44, Inc.
- 13.8 FourKites, Inc.
- 13.9 Sphera Solutions, Inc.
- 13.10 EcoVadis SAS
- 13.11 Blue Yonder Group, Inc.
- 13.12 o9 Solutions, Inc.
- 13.13 Infor Inc.
- 13.14 Descartes Systems Group Inc.
- 13.15 GainSystems, Inc.

List Of Tables

LIST OF TABLES

Table 1 Global Sustainable Supply Chain Analytics Market Outlook, By Region (2023–2034) (\$MN)

Table 2 Global Sustainable Supply Chain Analytics Market, By Analytics Type (2023–2034) (\$MN)

Table 3 Global Sustainable Supply Chain Analytics Market, By Carbon Emissions Analytics (2023–2034) (\$MN)

Table 4 Global Sustainable Supply Chain Analytics Market, By Supplier Sustainability Analytics (2023–2034) (\$MN)

Table 5 Global Sustainable Supply Chain Analytics Market, By Resource Consumption Analytics (2023–2034) (\$MN)

Table 6 Global Sustainable Supply Chain Analytics Market, By Risk & Compliance Analytics (2023–2034) (\$MN)

Table 7 Global Sustainable Supply Chain Analytics Market, By Other Analytics Types (2023–2034) (\$MN)

Table 8 Global Sustainable Supply Chain Analytics Market, By Supply Chain Stage (2023–2034) (\$MN)

Table 9 Global Sustainable Supply Chain Analytics Market, By Procurement (2023–2034) (\$MN)

Table 10 Global Sustainable Supply Chain Analytics Market, By Production (2023–2034) (\$MN)

Table 11 Global Sustainable Supply Chain Analytics Market, By Logistics & Distribution (2023–2034) (\$MN)

Table 12 Global Sustainable Supply Chain Analytics Market, By Reverse Logistics (2023–2034) (\$MN)

Table 13 Global Sustainable Supply Chain Analytics Market, By Other Supply Chain Stages (2023–2034) (\$MN)

Table 14 Global Sustainable Supply Chain Analytics Market, By Data Source (2023–2034) (\$MN)

Table 15 Global Sustainable Supply Chain Analytics Market, By Enterprise Systems (2023–2034) (\$MN)

Table 16 Global Sustainable Supply Chain Analytics Market, By IoT Devices (2023–2034) (\$MN)

Table 17 Global Sustainable Supply Chain Analytics Market, By Supplier Data (2023–2034) (\$MN)

Table 18 Global Sustainable Supply Chain Analytics Market, By Third-Party

Sustainability Data (2023–2034) (\$MN)

Table 19 Global Sustainable Supply Chain Analytics Market, By Other Data Sources (2023–2034) (\$MN)

Table 20 Global Sustainable Supply Chain Analytics Market, By Decision Support Function (2023–2034) (\$MN)

Table 21 Global Sustainable Supply Chain Analytics Market, By Supplier Evaluation (2023–2034) (\$MN)

Table 22 Global Sustainable Supply Chain Analytics Market, By Risk Prioritization (2023–2034) (\$MN)

Table 23 Global Sustainable Supply Chain Analytics Market, By Emission Reduction Planning (2023–2034) (\$MN)

Table 24 Global Sustainable Supply Chain Analytics Market, By Performance Benchmarking (2023–2034) (\$MN)

Table 25 Global Sustainable Supply Chain Analytics Market, By Other Decision Support Functions (2023–2034) (\$MN)

Table 26 Global Sustainable Supply Chain Analytics Market, By End User (2023–2034) (\$MN)

Table 27 Global Sustainable Supply Chain Analytics Market, By Manufacturing Enterprises (2023–2034) (\$MN)

Table 28 Global Sustainable Supply Chain Analytics Market, By Retail & E-commerce Companies (2023–2034) (\$MN)

Table 29 Global Sustainable Supply Chain Analytics Market, By Logistics Service Providers (2023–2034) (\$MN)

Table 30 Global Sustainable Supply Chain Analytics Market, By Consumer Goods Companies (2023–2034) (\$MN)

Table 31 Global Sustainable Supply Chain Analytics Market, By Other End Users (2023–2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) are also represented in the same manner as above.

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