

# Life Cycle Assessment Software Market Forecasts to 2032 – Global Analysis By Component (Software, and Services), Deployment Mode (Cloud-Based, and On-Premise), LCA Type, Enterprise Size, End User, and By Geography

<https://marketpublishers.com/r/L0781E1F3011EN.html>

Date: November 2025

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: L0781E1F3011EN

## Abstracts

According to Statistics MRC, the Global Life Cycle Assessment Software Market is accounted for \$266.5 million in 2025 and is expected to reach \$748.8 million by 2032, growing at a CAGR of 15.9% during the forecast period. The life cycle assessment software provides digital tools that quantify environmental impacts of products, services, and processes across their full life cycle, from raw materials to end-of-life. It serves manufacturers, consultants, policymakers, and sustainability teams. Benefits include data-driven decisions on product design and materials, identification of hotspots in supply chains, support for eco-labeling and reporting, and stronger alignment with corporate sustainability and regulatory requirements.

## Market Dynamics:

Driver:

Regulatory Pressure & Sustainability Mandates

Governments worldwide are implementing stringent environmental policies, such as the EU Green Deal and carbon tax mechanisms, compelling companies to quantify and report their environmental footprint. Furthermore, investors and consumers are increasingly favoring businesses with transparent, verifiable sustainability credentials. This creates a non-negotiable need for robust LCA tools to ensure compliance, avoid financial penalties, and safeguard brand reputation in a conscientious market, directly

driving software adoption across manufacturing, consumer goods, and construction sectors.

Restraint:

#### Data Quality & Availability Challenges

Conducting a reliable LCA requires vast amounts of accurate, site-specific data on energy consumption, raw material sourcing, and supply chain logistics, which are often fragmented or proprietary. Moreover, the process of collecting, validating, and standardizing this data is notoriously time-consuming and expensive. This high input cost and complexity can deter small and medium-sized enterprises from adoption, acting as a major restraint on broader market growth and the accuracy of assessments.

Opportunity:

#### Integration with PLM & ERP

A substantial growth opportunity lies in the deeper integration of LCA software with established Product Lifecycle Management (PLM) and Enterprise Resource Planning (ERP) systems. This synergy makes it easy to add sustainability metrics directly into important business processes like design, procurement, and manufacturing. Consequently, companies can perform real-time environmental impact assessments during the product design phase, enabling them to make ecologically and economically optimal choices early on. This transforms LCA from a standalone compliance tool into a strategic asset for innovation and competitive advantage.

Threat:

#### Lack of Standardization

While frameworks like ISO 14040 exist, differing interpretations and applications across industries and regions can lead to inconsistent and non-comparable results. This lack of clarity can make LCA results less trustworthy, confuse end users, and even lead to accusations of greenwashing. Such inconsistencies may erode trust in the software's outputs and slow down market cohesion, hindering the establishment of LCA as a universally accepted benchmark for sustainability performance.

Covid-19 Impact:

The pandemic initially disrupted the LCA software market, causing delays in non-essential projects and corporate spending as businesses prioritized immediate operational continuity. However, the crisis subsequently acted as an accelerator for digital transformation, highlighting the value of cloud-based and collaborative tools for remote workforces. The increased emphasis on strong and open supply chains also brought sustainability back to the top of the corporate agenda. Consequently, after an initial slowdown, the market experienced a recovery and increased interest in LCA solutions as a means to build back more sustainable and digitally enabled operations.

The software segment is expected to be the largest during the forecast period

The software segment is expected to account for the largest market share during the forecast period because it represents the core analytical engine of the LCA process. While services are crucial, the recurring need for the actual platform to model, calculate, and manage environmental impact data drives consistent and substantial revenue. Enterprises invest in these software licenses to build in-house, scalable capabilities for continuous monitoring and reporting. The central, indispensable nature of the software platform in enabling all LCA activities secures its dominant position in the market's revenue structure.

The cloud-based segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the cloud-based segment is predicted to witness the highest growth rate due to its inherent advantages in accessibility, collaboration, and cost-efficiency. Cloud solutions lower the barrier to entry by eliminating large upfront hardware investments and offering flexible subscription models. They also facilitate seamless data sharing and real-time collaboration among geographically dispersed teams and supply chain partners. Furthermore, vendors can push frequent updates and integrate new databases effortlessly, ensuring users always have access to the latest features and methodologies, which is a key driver for its rapid adoption.

Region with largest share:

During the forecast period, the Europe region is expected to hold the largest market share. This leadership is directly attributable to the world's most stringent environmental regulations, such as the European Green Deal and the Circular Economy Action Plan, which legally bind companies to comprehensive sustainability reporting. Additionally,

high consumer awareness and strong corporate sustainability initiatives in countries like Germany, France, and the Nordic nations create a mature and demanding market for LCA software, compelling its widespread adoption across various industries to maintain compliance and competitive standing.

Region with highest CAGR:

The Asia Pacific region is expected to have the highest CAGR over the forecast period. This is because countries like China and India are industrializing quickly, and their governments are putting more effort into reducing pollution and reaching net-zero goals. Moreover, multinational corporations are pressuring their APAC-based supply chains to provide transparent environmental data. The expanding manufacturing sector, rising foreign investments, and a growing recognition of sustainability's commercial benefits are creating fertile ground for the rapid uptake of LCA software solutions across the region.

Key players in the market

Some of the key players in Life Cycle Assessment Software Market include One Click LCA Ltd, Sphera Solutions, Inc., iPoint-systems gmbh, Solid Forest, S.L., Athena Sustainable Materials Institute, Sustainable Minds, LLC, Intertek Group plc, Circular Ecology Ltd, GreenDelta GmbH, PR? Sustainability B.V., Ecochain Technologies B.V., EarthShift Global LLC, and Quantis.

### **Key Developments:**

In October 2025, One Click LCA launched new digital solutions on its LCA platform to turn tightening regulatory requirements into growth opportunities for users of its automated LCA/EPD software.

In September 2025, Sphera and Evonik launched a T?V-certified automated life cycle assessment solution powered by Sphera's LCA automation software, enabling LCAs up to ten times faster than traditional methods.

In March 2024, Intertek launched, through an exclusive partnership with Trace For Good, a SaaS platform that enhances supply-chain traceability and sustainability using life-cycle-based environmental data for complex textile chains.

Components Covered:

Software

Services

Deployment Modes Covered:

Cloud-Based

On-Premise

LCA Types Covered:

Cradle-to-Grave

Cradle-to-Gate

Cradle-to-Cradle

Gate-to-Gate

Enterprise Sizes Covered:

Large Enterprises

Small and Medium-sized Enterprises (SMEs)

End Users Covered:

Manufacturing & Automotive

Construction & Building Materials

Energy & Utilities

Consumer Goods & Retail

Chemicals & Materials

Packaging

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & 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 2024, 2025, 2026, 2028, and 2032
- 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:**

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

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