

Green Logistics Market Assessment, By Mode of Operation [Storage, Roadways Distribution, Seaways Distribution, Others], By Business Type [Warehousing, Distribution, Value-added Services], By End-use [Healthcare, Manufacturing, Automotive, Banking and Financial Services, Retail and E-Commerce, Others], By Region, Opportunities and Forecast, 2018-2032F

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Report description:

Global green logistics market is projected to witness a CAGR of 9.80% during the forecast period 2025-2032, growing from USD 906.22 billion in 2024 to USD 1914.49 billion in 2032.

Growth in the green logistics market with ever-increasing environmental awareness, stringent government regulations, and increasing demands for sustainable business practices have led to a rise in green logistics. Companies are focusing more on environmentally friendly operations and reducing carbon footprints concerning global climate goals, thus propelling cleaner transportation methods, energy-efficient warehouses, and sustainable packaging solutions. Consumers also favor brands that align with their values by adopting green initiatives and pushing companies to incorporate sustainability into their supply chains. Technological advances, including electric vehicles, renewable energy-powered logistics hubs, and advanced route optimization software, support the industry's growth by making green solutions more cost-effective and scalable. International agreements and policies, such as the Paris Climate Accord and carbon taxation, make companies invest in greener logistics to stay ahead of competition. The economic benefits from lesser fuel consumption, reduced costs on waste management, and improved brand reputation also play a role. With greater corporate social responsibility and emphasis on the circular economy, green logistics is bound to continue growing further to find a balance between profit maximization and environmental care. This trend signifies changing the way businesses work- promoting long-term sustainability and contributing to solving global environmental challenges.

In February 2023, DHL Express introduced GoGreen Plus, allowing customers to reduce the carbon footprint of their shipments by

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using sustainable aviation fuel, which can reduce greenhouse gas emissions by as much as 80%. The service will be launched initially in selected countries and subsequently rolled out globally. This initiative supports Deutsche Post DHL Group's target of achieving net-zero emissions by 2050 and targets 30% SAF for air transport by 2030. In offering this service, DHL responds to the growing demand for sustainable logistics solutions, which enhances its market leadership and promotes the growth of green logistics through innovative, eco-friendly shipping options.

Stringent Environmental Regulations Drive Market Growth

Strict environmental regulations, on the other hand, drive growth in the green finance market, forcing businesses and governments to invest in sustainable projects and eco-friendly practices. Regulations such as carbon taxes, emissions reduction targets, and renewable energy mandates force companies to create a financial need to shift to greener technologies and operations. Green finance instruments such as green bonds and sustainability-linked loans give them the capital needed for these initiatives. Regulatory frameworks push financial institutions to mainstream portfolios to achieve environmental objectives, promoting green investments. Pushing toward international agreement compliance, such as through the Paris Climate Accord, has also fostered significant funding for renewable energy, energy-efficient infrastructure, and sustainable agriculture. Aligning regulatory pressure with financial incentives thus forms a recipe for a thriving green finance market supporting global sustainability.

In August 2023, FedEx Express and World Resources Institute released a ten-year report on their Mobility and Accessibility Program, which aims to enhance sustainable urban transportation. Their collaboration has improved transit systems, reduced carbon emissions, and promoted the use of new energy buses in cities worldwide. Key initiatives include successful Mobility-as-a-Service pilots in Beijing, optimization of bus networks in China and Ulaanbaatar, and deploying e-buses in India. This partnership not only underscores FedEx's commitment to corporate social responsibility but also drives the growth of green logistics by improving urban mobility and reducing environmental impact globally.

Consumer Demand for Sustainability Fueling the Green Logistics Market Growth

Consumer demand is a major driving force in the growth of the green logistics market, given that consumers are increasingly attracted to brands that have been environmentally friendly in their activities. This is changing consumer behavior, which has forced companies to embrace green logistics strategies such as using electric or hybrid delivery vehicles, reducing routes to increase fuel efficiency, and ensuring that packaging materials are also sustainable. Businesses investing in green logistics not only ensure customer satisfaction but also ensure competitive advantage through improvement in brand image and loyalty. Additionally, the customers are willing to pay more for green products and services, thus providing more incentive for companies to change their practices to greener practices. This increasing demand for sustainability has also affected the e-commerce and retail sectors to establish eco-friendly supply chain solutions, thereby promoting long-term growth in the green logistics market while trying to solve environmental challenges.

In May 2024, Ane Maersk, the world's first large vessel capable of running on green methanol, made its maiden call in Dubai at DP World, Jebel Ali. Serving the AE7 route connecting Asia and Europe Ane Maersk underlines Maersk's commitment to achieving net zero emissions by 2040. Powered by a dual-fuel engine, the vessel represents a major milestone in the decarbonization of shipping. This innovation not only reinforces Maersk's sustainability goals but also drives the growth of green logistics by demonstrating the viability of alternative fuels to reduce the carbon footprint of global shipping operations.

Dominance of the Warehousing Segment

The warehousing segment is leading the green logistics market by adopting sustainable technologies and practices that reduce energy consumption and environmental impact. Warehouses are increasingly using energy-efficient solutions such as solar LED lighting, panels, and smart HVAC systems to minimize their carbon footprint. Green building certifications such as LEED are becoming the norm, increasing the demand for green buildings. Additionally, automation and IoT systems optimize energy consumption, reduce waste, and improve operational efficiency. These innovations correspond to the purpose of sustainable development and state rules of the company, which will be a green warehouse for environmentally friendly businesses in the important parts of the change in the logistics industry.

In November 2023, Yusen Logistics announced a mid-term goal to reduce CO2 emissions by 45% by 2030, focusing on Scope 1 and 2 emissions from its origins and purchased energy. The initiative marks an important step towards tackling climate change and improving sustainability in the logistics sector. By hiring employees and providing environmentally friendly environmental

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services, Yusen Logistics contributes to a more environmentally friendly future, operates supply chains, and grows in Green Logistics according to global sustainability targets.

Asia-Pacific Dominates Green Logistics Market Share

Asia-Pacific leads the green logistics market in light of rapid industrialization, growing environmental awareness in these nations, and their supportive government policies. Nations like China, Japan, and India have been investing heavily in green logistics infrastructures, ranging from electric vehicle fleets and renewable energy-powered warehouses to advanced transportation systems. There is a massive base for manufacturing and e-commerce sectors, mainly driving demand for sustainable supply chain solutions. Furthermore, governments are implementing harsh environmental regulations that promote eco-friendly practices and technologies to businesses. The Asia-Pacific market is also boosted by the emergence of green finance, which supports sustainable projects and green innovations. Therefore, as consumer demand for eco-friendly products increases, companies within the region are increasingly incorporating green logistics to gain more competitiveness, making Asia-Pacific a key leader in the global green logistics market.

In March 2024, the DHL Express GoGreen Plus service allowed more than 12,000 Asia-Pacific customers, including 2,800 companies, to reduce Scope 3 emissions through Sustainable Aviation Fuel. With this feature, companies can reduce their carbon footprint while combining SAF in logistics operations. The impact on ESG goals is remarkable. It simplifies the reduction of carbon emissions and provides tools for emission tracking and reporting. GoGreen Plus satisfies the needs of environmentally conscious shippers. It supports the growth of the green logistics market by promoting sustainable practices and helping companies achieve their net-zero emissions goals.

Future Market Scenario (2025 – 2032F)

- Widespread adoption of AI and IoT in logistics for optimizing routes, energy use, and overall efficiency, resulting in significant reductions in carbon emissions and operational costs.
- Expansion of electric vehicle fleets and renewable energy-powered logistics hubs, making green logistics more feasible and scalable across industries.
- Stricter global environmental regulations will mandate greener practices, pushing companies to innovate and adopt sustainable solutions to remain compliant and competitive.
- Growing preference for sustainable brands will drive businesses to integrate eco-friendly practices into their supply chains, enhancing brand loyalty and market positioning.

Key Players Landscape and Outlook

Companies are adopting innovative and more sustainable ways for environmental regulations along with changing consumer expectations by investing in energy-efficient technologies. Some of this technology includes electric vehicles for their trucks and fleets, which are alternative fuel-driven, thus lessening carbon dioxide in transport. Warehousing facilities have also been upgraded using solar energy-based systems, LED lights, and all types of automation to enhance sustainability. Companies also incorporate high-tech software to optimize routes for efficient delivery and fuel conservation. Many logistics companies opt for environmentally friendly packaging by ensuring that materials used for packaging are recyclable or biodegradable to generate less waste. Furthermore, they seek green certifications such as ISO 14001 or LEED. Circular economy models, with recycling and reverse logistics, are now being incorporated through collaborations with stakeholders across the supply chain. Green finance options for companies to raise funds while meeting environmental goals are also found in issuing green bonds. This balances cost-effectiveness with eco-friendly innovations that make businesses comply with regulations while also earning trust from the consumers and thereby bettering their market position. These proactive strategies are making green logistics companies successful in an increasingly sustainability-driven global economy.

In November 2024, CEVA Logistics launched sub-brand FORPLANET to highlight its commitment to sustainable logistics and to achieving zero emissions by 2050. The new packaging offers solutions for low carbon transport and a circular economy including sustainable fuels, electric vehicles and reusable packaging reducing environmental impact throughout the supply chain. Recognized for its corporate social responsibility CEVA not only reduces emissions but also supports the development of greener supply chains and drives the growth of the green logistics market by providing innovative environmentally friendly logistics solutions.

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18.3.5. A.P. MOLLER - MAERSK A/S

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*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work.

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