

# **Distribution Planning Software Market Forecasts to 2032 – Global Analysis By Deployment Type (Cloud-Based, On-Premise and Other Deployment Types), Optimization, Organization Size, Technology, Application, End User and By Geography**

<https://marketpublishers.com/r/DB9CCF27C90CEN.html>

Date: April 2025

Pages: 150

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

ID: DB9CCF27C90CEN

## **Abstracts**

According to Statistics MRC, the Global Distribution Planning Software Market is accounted for \$3.2 billion in 2025 and is expected to reach \$6.7 billion by 2032 growing at a CAGR of 11.2 % during the forecast period. Distribution Planning Software is a digital solution that enhances supply chain efficiency by managing the flow of goods from producers to consumers. It offers tools such as demand forecasting, route optimization, inventory management, and real-time tracking to ensure cost-effective and timely distribution. For agriculture, especially with perishable items like vegetables, it helps cut waste, lower transportation expenses, and guarantee prompt delivery. By fostering better collaboration among farmers, distributors, and retailers, this software boosts transparency, reduces environmental footprints, and ensures fresher produce reaches consumers.

According to a survey by Zebra Technologies, 87% of industrial decision makers are in the process of or planning to expand their warehouses by 2024.

Market Dynamics:

Driver:

Growing demand for supply chain efficiency

The increasing complexity of global supply chains has heightened the need for efficient

distribution planning software. Businesses are prioritizing tools that streamline logistics, reduce operational costs, and improve delivery timelines. The rise of e-commerce and omni channel retailing further amplifies this demand, as companies strive to meet consumer expectations for fast and reliable deliveries. Additionally, the integration of advanced technologies like AI and IoT enhances the software's ability to optimize routes and manage inventory effectively. This growing focus on supply chain efficiency is a key driver for the adoption of distribution planning software.

Restraint:

#### Complexity of integration

One of the major challenges in adopting distribution planning software is the complexity of integrating it with existing systems. Many businesses face difficulties in merging new software with legacy systems, leading to operational disruptions. The lack of technical expertise and resistance to change among employees further complicates the implementation process. Additionally, the high costs associated with customization and training can deter small and medium-sized enterprises. These integration challenges act as significant restraints in the widespread adoption of distribution planning software.

Opportunity:

#### Customization for niche industries

The demand for tailored solutions in niche industries like agriculture, pharmaceuticals, and retail presents a significant growth opportunity. Customized distribution planning software can address specific challenges, such as managing perishable goods or complying with stringent regulations. By offering industry-specific features, software providers can differentiate themselves and capture untapped markets. The growing trend of digital transformation in these sectors further fuels the demand for specialized solutions. This focus on customization opens new avenues for innovation and market expansion.

Threat:

#### Competition from open-source solutions

The availability of open-source distribution planning software poses a threat to commercial providers. These free or low-cost alternatives attract cost-sensitive

businesses, particularly small and medium-sized enterprises. Open-source solutions often lack advanced features but are sufficient for basic needs, reducing the demand for premium software. Additionally, the growing community support for open-source tools enhances their functionality over time. This competitive pressure forces commercial providers to continuously innovate and justify their value proposition.

#### Covid-19 Impact:

The COVID-19 pandemic accelerated the adoption of distribution planning software as businesses sought to mitigate supply chain disruptions. The surge in e-commerce and the need for contactless deliveries drove demand for efficient logistics solutions. However, the pandemic also exposed vulnerabilities in global supply chains, prompting companies to invest in risk management tools. While the initial economic downturn slowed investments, the long-term impact has been positive, with increased focus on digital transformation.

The cloud-based segment is expected to be the largest during the forecast period

The Cloud-Based segment is expected to account for the largest market share during the forecast period due to its scalability, flexibility, and cost-effectiveness. Businesses prefer cloud solutions for their ability to provide real-time data access and seamless updates. The growing adoption of Software-as-a-Service (SaaS) models further drives the demand for cloud-based distribution planning software. Additionally, cloud platforms enable remote collaboration, making them ideal for distributed teams. These advantages position the cloud-based segment as the largest contributor to market growth.

The multiple distribution substations segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Multiple Distribution Substations segment is predicted to witness the highest growth rate due to the increasing complexity of supply chains. Businesses with multiple distribution points require advanced software to manage inventory and optimize routes efficiently. The rise of omnichannel retailing and global trade further amplifies this demand. Additionally, the integration of AI and IoT enhances the software's ability to handle complex logistics networks. This segment's rapid growth reflects the need for sophisticated solutions in modern supply chains.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to rapid industrialization and urbanization. Countries like China, India, and Japan are investing heavily in logistics infrastructure and digital transformation. The growing e-commerce sector and increasing consumer demand for fast deliveries further boost the adoption of distribution planning software. Government initiatives promoting smart cities and sustainable logistics also contribute to market growth.

#### Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, driven by the region's advanced technological infrastructure and high adoption of automation. The presence of major logistics and e-commerce players fuels the demand for efficient distribution planning solutions. Additionally, stringent regulations and the focus on sustainability encourage businesses to adopt advanced software. The growing trend of smart manufacturing and IoT integration further supports market growth.

#### Key players in the market

Some of the key players in Distribution Planning Software Market include Descartes Systems Group, Llamasoft, Flexsim, Zetes, Kinaxis, Infor, Blue Yonder, JDA Software, SAP, Manhattan Associates, OptTek Systems, Logility, Oracle, Simio LLC, Microsoft and IBM.

#### Key Developments:

In March 2024, GE Digital launched an advanced version of its Grid Solutions Software Suite, which includes enhanced distribution planning capabilities. The new features leverage AI and machine learning to optimize grid operations, improve load forecasting, and integrate renewable energy sources more efficiently. This update is aimed at helping utilities better manage the increasing complexity of modern power grids.

In February 2024, Electric introduced its EcoStruxure Microgrid Advisor 8.0, a distribution planning and energy management solution designed to optimize energy distribution in real-time. The software now includes predictive analytics and automated decision-making tools to support utilities and businesses in achieving energy efficiency and sustainability goals.

In January 2024, Siemens announced the release of its Spectrum Power™ 7.2 Distribution Management System (DMS), which incorporates advanced grid modeling and simulation tools. The software is designed to support utilities in planning and managing distributed energy resources (DERs) and electric vehicle (EV) charging infrastructure, addressing the growing demand for smarter and more resilient distribution networks.

#### Deployment Types Covered:

Cloud-Based

On-Premise

Other Deployment Types

#### Optimizations Covered:

Single Distribution Substation

Multiple Distribution Substations

Entire Distribution Network

Other Optimizations

#### Organization Sizes Covered:

Large Enterprises

Small and Medium Enterprises

Other Organization Sizes

#### Technologies Covered:

Artificial Intelligence (AI) and Machine Learning (ML)

Internet of Things (IoT)

Blockchain

Big Data Analytics

Other Technologies

Applications Covered:

Generation Expansion Planning

Transmission Expansion Planning

Distribution Expansion Planning

Distribution Loss Analysis

Voltage and VAR Optimization

Other Applications

End Users Covered:

Power and Utility

Industrial

Commercial

Government

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

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Application Analysis
- 3.7 End User Analysis
- 3.8 Emerging Markets
- 3.9 Impact of Covid-19

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

## **5 GLOBAL DISTRIBUTION PLANNING SOFTWARE MARKET, BY DEPLOYMENT TYPE**

- 5.1 Introduction
- 5.2 Cloud-Based
- 5.3 On-Premise
- 5.4 Other Deployment Types

## **6 GLOBAL DISTRIBUTION PLANNING SOFTWARE MARKET, BY OPTIMIZATION**

- 6.1 Introduction
- 6.2 Single Distribution Substation
- 6.3 Multiple Distribution Substations
- 6.4 Entire Distribution Network
- 6.5 Other Optimizations

## **7 GLOBAL DISTRIBUTION PLANNING SOFTWARE MARKET, BY ORGANIZATION SIZE**

- 7.1 Introduction
- 7.2 Large Enterprises
- 7.3 Small and Medium Enterprises
- 7.4 Other Organization Sizes

## **8 GLOBAL DISTRIBUTION PLANNING SOFTWARE MARKET, BY TECHNOLOGY**

- 8.1 Introduction
- 8.2 Artificial Intelligence (AI) and Machine Learning (ML)
- 8.3 Internet of Things (IoT)
- 8.4 Blockchain
- 8.5 Big Data Analytics
- 8.6 Other Technologies

## **9 GLOBAL DISTRIBUTION PLANNING SOFTWARE MARKET, BY APPLICATION**

- 9.1 Introduction
- 9.2 Generation Expansion Planning
- 9.3 Transmission Expansion Planning
- 9.4 Distribution Expansion Planning

- 9.5 Distribution Loss Analysis
- 9.6 Voltage and VAR Optimization
- 9.7 Other Applications

## **10 GLOBAL DISTRIBUTION PLANNING SOFTWARE MARKET, BY END USER**

- 10.1 Introduction
- 10.2 Power and Utility
- 10.3 Industrial
- 10.4 Commercial
- 10.5 Government
- 10.6 Other End Users

## **11 GLOBAL DISTRIBUTION PLANNING SOFTWARE MARKET, BY GEOGRAPHY**

- 11.1 Introduction
- 11.2 North America
  - 11.2.1 US
  - 11.2.2 Canada
  - 11.2.3 Mexico
- 11.3 Europe
  - 11.3.1 Germany
  - 11.3.2 UK
  - 11.3.3 Italy
  - 11.3.4 France
  - 11.3.5 Spain
  - 11.3.6 Rest of Europe
- 11.4 Asia Pacific
  - 11.4.1 Japan
  - 11.4.2 China
  - 11.4.3 India
  - 11.4.4 Australia
  - 11.4.5 New Zealand
  - 11.4.6 South Korea
  - 11.4.7 Rest of Asia Pacific
- 11.5 South America
  - 11.5.1 Argentina
  - 11.5.2 Brazil
  - 11.5.3 Chile

- 11.5.4 Rest of South America
- 11.6 Middle East & Africa
  - 11.6.1 Saudi Arabia
  - 11.6.2 UAE
  - 11.6.3 Qatar
  - 11.6.4 South Africa
  - 11.6.5 Rest of Middle East & Africa

## **12 KEY DEVELOPMENTS**

- 12.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 12.2 Acquisitions & Mergers
- 12.3 New Product Launch
- 12.4 Expansions
- 12.5 Other Key Strategies

## **13 COMPANY PROFILING**

- 13.1 Descartes Systems Group
- 13.2 Llamasoft
- 13.3 Flexsim
- 13.4 Zetes
- 13.5 Kinaxis
- 13.6 Infor
- 13.7 Blue Yonder
- 13.8 JDA Software
- 13.9 SAP
- 13.10 Manhattan Associates
- 13.11 OptTek Systems
- 13.12 Logility
- 13.13 Oracle
- 13.14 Simio LLC
- 13.15 Microsoft
- 13.16 IBM

## List Of Tables

### LIST OF TABLES

Table 1 Global Distribution Planning Software Market Outlook, By Region (2024-2032) (\$MN)

Table 2 Global Distribution Planning Software Market Outlook, By Deployment Type (2024-2032) (\$MN)

Table 3 Global Distribution Planning Software Market Outlook, By Cloud-Based (2024-2032) (\$MN)

Table 4 Global Distribution Planning Software Market Outlook, By On-Premise (2024-2032) (\$MN)

Table 5 Global Distribution Planning Software Market Outlook, By Other Deployment Types (2024-2032) (\$MN)

Table 6 Global Distribution Planning Software Market Outlook, By Optimization (2024-2032) (\$MN)

Table 7 Global Distribution Planning Software Market Outlook, By Single Distribution Substation (2024-2032) (\$MN)

Table 8 Global Distribution Planning Software Market Outlook, By Multiple Distribution Substations (2024-2032) (\$MN)

Table 9 Global Distribution Planning Software Market Outlook, By Entire Distribution Network (2024-2032) (\$MN)

Table 10 Global Distribution Planning Software Market Outlook, By Other Optimizations (2024-2032) (\$MN)

Table 11 Global Distribution Planning Software Market Outlook, By Organization Size (2024-2032) (\$MN)

Table 12 Global Distribution Planning Software Market Outlook, By Large Enterprises (2024-2032) (\$MN)

Table 13 Global Distribution Planning Software Market Outlook, By Small and Medium Enterprises (2024-2032) (\$MN)

Table 14 Global Distribution Planning Software Market Outlook, By Other Organization Sizes (2024-2032) (\$MN)

Table 15 Global Distribution Planning Software Market Outlook, By Technology (2024-2032) (\$MN)

Table 16 Global Distribution Planning Software Market Outlook, By Artificial Intelligence (AI) and Machine Learning (ML) (2024-2032) (\$MN)

Table 17 Global Distribution Planning Software Market Outlook, By Internet of Things (IoT) (2024-2032) (\$MN)

Table 18 Global Distribution Planning Software Market Outlook, By Blockchain

(2024-2032) (\$MN)

Table 19 Global Distribution Planning Software Market Outlook, By Big Data Analytics (2024-2032) (\$MN)

Table 20 Global Distribution Planning Software Market Outlook, By Other Technologies (2024-2032) (\$MN)

Table 21 Global Distribution Planning Software Market Outlook, By Application (2024-2032) (\$MN)

Table 22 Global Distribution Planning Software Market Outlook, By Generation Expansion Planning (2024-2032) (\$MN)

Table 23 Global Distribution Planning Software Market Outlook, By Transmission Expansion Planning (2024-2032) (\$MN)

Table 24 Global Distribution Planning Software Market Outlook, By Distribution Expansion Planning (2024-2032) (\$MN)

Table 25 Global Distribution Planning Software Market Outlook, By Distribution Loss Analysis (2024-2032) (\$MN)

Table 26 Global Distribution Planning Software Market Outlook, By Voltage and VAR Optimization (2024-2032) (\$MN)

Table 27 Global Distribution Planning Software Market Outlook, By Other Applications (2024-2032) (\$MN)

Table 28 Global Distribution Planning Software Market Outlook, By End User (2024-2032) (\$MN)

Table 29 Global Distribution Planning Software Market Outlook, By Power and Utility (2024-2032) (\$MN)

Table 30 Global Distribution Planning Software Market Outlook, By Industrial (2024-2032) (\$MN)

Table 31 Global Distribution Planning Software Market Outlook, By Commercial (2024-2032) (\$MN)

Table 32 Global Distribution Planning Software Market Outlook, By Government (2024-2032) (\$MN)

Table 33 Global Distribution Planning Software Market Outlook, By Other End Users (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

## I would like to order

Product name: Distribution Planning Software Market Forecasts to 2032 – Global Analysis By Deployment Type (Cloud-Based, On-Premise and Other Deployment Types), Optimization, Organization Size, Technology, Application, End User and By Geography

Product link: <https://marketpublishers.com/r/DB9CCF27C90CEN.html>

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

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/DB9CCF27C90CEN.html>