

# Global Metro Rail Infrastructure Market Size Study & Forecast, by Structure (Underground, Elevated, At-grade), by Infrastructure (Alignment & Trackwork, Station Building, Signaling & Telecommunication, Rolling Stock, Others), and Regional Analysis, 2023-2030

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## Abstracts

Global Metro Rail Infrastructure Market is valued at approximately USD 38.61 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 7.5% during the forecast period 2023-2030. Metro rail infrastructure is the physical components and facilities that constitute a metro or subway system within a city or urban area. Metro rail systems utilize trains or rail vehicles to facilitate passenger transportation within urban or city environments. The infrastructure of metro rail networks serves a crucial function in addressing urban transportation needs by offering rapid, effective, and eco-friendly mass transit options. This infrastructure aids in mitigating traffic congestion and advancing environmental sustainability goals. Advanced signaling and control systems ensure safe and efficient operation, while electrification systems power the trains and support various functions. Safety and security measures are integrated throughout the infrastructure, and maintenance facilities are in place to keep the system running smoothly. The Metro Rail Infrastructure Market is expanding because of factors such as increasing traffic congestion, stipulating fuel prices and environmental concerns, coupled with the increasing government initiatives for improving public transportation infrastructure.

In addition, the metro rail infrastructure industry experiences significant growth driven by the escalating rates of urbanization and the consequent necessity for efficient and sustainable urban transportation solutions. According to the United Nations Conference

on Trade and Development (UNCTAD) in 2022 the global population exceeded 8 billion, with 57% residing in urban areas. The growing population and density of cities worldwide underscore the essential need for reliable, high-capacity mass transit systems such as metro rail. Metro rail networks emerge as a vital remedy to the mounting challenge of urban traffic congestion. By furnishing a rapid and dependable alternative to private vehicle travel, metro rail systems play a pivotal role in mitigating traffic issues and diminishing travel times. Thus, these aforementioned factors are propelling the growth of the Metro Rail Infrastructure Market during the estimated period of 2023-2030. Moreover, the rising focus on urban renewal and regeneration, as well as the surging demand for intermodal connectivity present various lucrative opportunities over the forecast years. However, the high upfront cost associated with metro rail project deployment and the integration with existing infrastructure are challenging the market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Metro Rail Infrastructure Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the rising development and expansion of metro rail infrastructure, growing focus on Public-Private Partnerships (PPPs), and high population density and land use policies in urban areas. As urban areas become more densely populated, the need for efficient mass transit systems, such as metro rail, intensifies to tackle congestion and transportation hurdles. According to World Bank statistics, India's urban population constitutes 36% of the total population, marking a 4% increase over the past decade. Whereas, North America is expected to grow at a significant CAGR over the forecast years. Government backing and investment are pivotal in driving the expansion and enhancement of metro infrastructure. Financial support from federal, state, and local authorities is frequently indispensable for the planning, construction, and upkeep of metro systems. For instance, in November 2023, the Biden Administration allocated USD 1.64 billion to support the enhancement of Metro-North Railroad's Penn Station access. This initiative includes the addition of four new stations in the Bronx, aiming to improve transportation infrastructure and connectivity in the region.

Major market players included in this report are:

Siemens AG (Germany)

Alstom SA (France)

CRRC Corporation Limited (China)

Thales Group (France)

Hitachi Rail STS (Italy)

CAF Group (Spain)

Hyundai Rotem Company (South Korea)

Stadler Rail AG (Switzerland)

Toshiba Infrastructure Systems & Solutions Corporation (Japan)

Kawasaki Heavy Industries, Ltd. (Japan)

#### Recent Developments in the Market:

In December 2023, Alstom, in collaboration with Electra and Dan Public Transportation, signed a deal with Metropolitan Mass Transit System Ltd. to design, build, and maintain the USD 2.8 billion Tel Aviv Metropolitan LRT (Light Rail Transit) Green Line.

In July 2023, CAF finalized a contract with the Naples Metro System authorities to provide six rolling stock units, along with depot components and a three-year maintenance agreement.

In March 2023, Chennai Metro Rail awarded Hitachi Rail a USD 200 million contract for the provision of digital signaling in Phase 2 of the Metro Rail Project. As part of this agreement, Hitachi Rail is tasked with deploying its Communication-Based Train Control (CBTC) system, coupled with Automatic Train Operation (ATO), enabling the seamless operation of metro rails without a human driver.

#### Global Metro Rail Infrastructure Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Structure, Infrastructure, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Structure:

Underground

Elevated

At-grade

By Infrastructure:

Alignment & Trackwork

Station Building

Signaling & Telecommunication

Rolling Stock

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

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Rest of Middle East & Africa

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