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Electric Trains Market by Purpose (Passenger and Freight), by Traction System (Overhead Line Electrification, Battery-Powered), by Carriage Type (Locomotive-Hauled, Electric Multiple Unit, Diesel Multiple Unit), and by Application (Inter-City, Intra-City, and Freight) - Global Opportunity Analysis and Industry Forecast 2025-2030

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Abstracts

Electric Trains Market Overview

The global Electric Trains Market size was valued at USD 154.04 billion in 2024 and is predicted to reach USD 225.72 billion by 2030 with a CAGR of 6.5% from 2025-2030.

The factors such as growing urbanization, increasing investment of railway infrastructure along with the expansion of tourism industry drives the market growth. However, high initial investments required for implementing advanced technologies in railway management systems hinders the market growth. On the contrary, introduction of smart technologies such as IoT and AI create future opportunities for the growth of the market. Moreover, top companies such as Cisco Systems Inc. and Hyundai Rotem are taking various initiatives such as partnerships to maintain their dominance in the electric railway industry. As the market matures, growing demand for electric railway is foreseen to instigate further growth.

Growing Urbanization Fuels the Market Growth

Rising urbanization drives the electric trains market expansion due to rising demand of transportation infrastructure and the need for efficient transportation solutions for the

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population staying in urban areas.

Railways provide an efficient and safe means of mass transit to address these issues. According to a recent report by the World Bank Group, overall urban population across the globe increased to 4.61 billion in 2023 from 4.54 billion in 2022. Thereby the increase in the urban populations fuels the growth of electric trains boosting the market growth.

Increasing Investment in Railway Infrastructure Drives Market Growth

Rise in investment in rail infrastructure is among the factors driving the market spurred by the demand for efficient, sustainable and reliable transportation system. The governments, along with the private sector investors are constantly recognizing the significance of upgrading and extending the rail transport to improve inter-connectivity, decongest cities and curb carbon emissions.

According to a recent report by the Federal Railroad Administration, the U.S. Department of Transportation Federal Railroad Administration announced more than USD 2.40 billion in Bipartisan Infrastructure Law funding for 122 rail improvement projects in 41 states.

Also, according to a recent report by India Brand Equity Foundation, the Indian Railways committed to invest an amount of USD 83.91 billion over the next decade to lay 50,000 kilometres of new tracks. Such increase in investment in the infrastructure of railways is anticipated to drive the demand for electric railways fuelling the market growth.

Expansion of Travel and Tourism Industry Drives the Market Growth

As the travel and tourism market expands, there is increased demand for smart, efficient, and scalable transport systems. Railways are crucially fulfilling this demand, fuelling market expansion through improved operational efficiency, enhanced customer experience, and sustainable support thereby fuelling the growth of electric rail industry.

As per the latest report from the World Travel & Tourism Council, tourism sector?accounted for 9.1% of the global GDP, an 23.2% increase over 2022. So, the expansion of tourism industry is anticipated to drive the demand for electric rail market growth.

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High Initial Investments Hinders the Market Growth

High initial investments in of installing advanced equipment in railway technologies hinders the growth of the market. The majority of railway operators, especially in the developing world, may not be able to meet the cost of upgrading infrastructure and software, thereby limiting the electric trains market growth.

Introduction of Smart Technologies Create Future Opportunities

The introduction of smart technologies such as IoT, AI and machine learning creates future opportunities for the growth of the market by allowing predictive maintenance, and effective resource allocation, enhancing operational efficiency as well as passenger experience.

Market Segmentation and Scope of Study

The global electric trains market report is segmented on the basis of purpose, traction system, carriage type, application and region. Based on purpose, the market is classified into passenger, and freight. Based on traction system, the market is segmented into overhead line electrification, third rail electrification, and battery-powered. On the basis of carriage type locomotive-hauled, electric multiple units, and diesel multiple units. On the basis of application, the market is bifurcated into inter-city, intra-city, and freight. Geographical breakdown and analysis of each of the aforesaid classifications include regions comprising of North America, Europe, Asia-Pacific, and RoW.

Geographical Analysis

Europe region e dominates the electric train market share. This is primarily due to strong infrastructure, well established railway networks, and increasing railway passengers in the region. As per a recent report published by Office of Rail and Road UK, there were 1.70 billion passenger rail journeys in the 12 months leading up to September 2024, a 12% increase from the previous year in UK. So, the increasing use of railway transport fuels the demand of better infrastructure and advanced equipment in railways thereby driving the market growth.

Moreover, rising tourism industry in across the countries of European Union drives the demand of rails. Train travel tends to be the major choice of transportation because it is convenient, environmentally friendly, and holds extensive coverage.

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According to a report published by the Eurostat in January 2025, in the first 10 months of 2024, 2.70 billion nights were spent in tourist accommodation in the EU. This marked an increase of 42 million nights compared with the same period in 2023. The increase in tourism in the region drives the need for better railway infrastructure, thereby boosting the electric trains market demand.

On the other hand, Asia-Pacific is the fastest growing region of the electric trains industry this is due to the urbanization in the region that necessities the need for public transport including rail. China's wide urbanization and expanding metropolitan regions, such as Beijing, Shanghai, and Shenzhen, provide a compelling need for sophisticated transportation infrastructure to handle millions of passengers a day.

According to a report published by Observer Research Foundation, in August 2023, in the period between 2025 to 2050, an urban increment of 1.70 billion people is projected globally, with China making a contribution of 186 million. Thus, increase in urbanization in China is poised to drive the demand of better transportation infrastructures thereby driving the growth of the market.

Moreover, rising government efforts in the region to the railway industry enhances the growth of the market in the region. To cope up with the growing demand for safe and efficient travel, the Indian government gave high priority to the development and improvement of the country's railway system.

For example, the government of India launched Rail Drishti in the year 2019, that is still applicable to analyse and monitor the key parameters of Indian Railways with an aim to meet the objectives of transparency and accountability. Such initiatives by the governments drive the demand of electric rails fuelling the market growth.

Competitive Landscape

The electric trains industry includes several key market players such as CRRC MA Corporation, Alstom SA, Siemens Mobility, Hitachi Rail Limited, Stadler, Inc., Bombardier, Wabtec Corporation, Knorr-Bremse AG, Voestalpine Railway Systems GmbH, CAF, Construcciones y Auxiliar de, Ferrocarriles, S.A., Voith GmbH & Co. KGaA, ABB Limited, Vossloh, Hyundai Rotem, General Electric and others. These market players are adopting various strategies such as acquisition and collaboration to maintain their dominance in the electric rail industry.

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For instance, in September 2024, Siemens Mobility rolled out Egypt's first Velaro high-speed train at InnoTrans, Berlin, that operate at speeds of 250 km/h and boasts improved passenger amenities and weather proof technology. This is all part of Egypt's ambitious 2,000 km rail plan involving 41 high speed trains.

Also, in February 2025, Hyundai Rotem, the train manufacturing arm of Hyundai Motor Group, secured a USD 1.53 billion contract to supply advanced double-decker electric trains to Morocco's national railway operator, ONCF.

Key Benefits

The report provides quantitative analysis and estimations of the electric rail industry from 2025 to 2030, which assists in identifying the prevailing market opportunities.

The study comprises a deep-dive analysis of the current and future electric trains market trends to depict prevalent investment pockets in the industry.

Information related to key drivers, restraints, and opportunities and their impact on the electric trains market is provided in the report.

Competitive analysis of the players, along with their market share is provided on the report.

Value chain analysis in the market study provides a clear picture of roles of stakeholders.

Electric Trains Market Key Segments

By Purpose

Passenger

Freight

By Traction System

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Overhead Line Electrification

Third Rail Electrification

Battery-Powered

By Carriage Type

Locomotive-Hauled

Electric Multiple Unit

Diesel Multiple Unit

By Application

Inter-City

Intra-City

Freight

By Region

North America

The U.S.

Canada

Mexico

Europe

The UK

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Germany

France

Italy

Spain

Denmark

Netherlands

Finland

Sweden

Norway

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Singapore

Taiwan

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Thailand

Rest of Asia-Pacific

RoW

Latin America

Middle East

Africa

Key Players

CRRC MA Corporation

Alstom SA

Siemens Mobility

Hitachi Rail Limited

Stadler, Inc.

Bombardier

Wabtec Corporation

Knorr-Bremse AG

Voestalpine Railway Systems GmbH

CAF, Construcciones y Auxiliar de Ferrocarriles, S.A.

Voith GmbH & Co. KGaA

ABB Limited

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Vossloh

Hyundai Rotem

General Electric

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