

Global ESS for Railways RBS (Regenerative Braking System) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global ESS for Railways RBS (Regenerative Braking System) market size was valued at US\$ 55.7 million in 2024 and is forecast to a readjusted size of USD 113 million by 2031 with a CAGR of 10.7% during review period.

ESS for Railways RBS (Regenerative Braking System) is an energy storage system used in railway regenerative braking systems. Rail transit is characterized by the frequent acceleration and braking of trains by many service stations, which increases the potential for braking energy recovery using energy storage systems (ESS).

Energy Storage System (ESS) to recuperate and reuse braking energy from metro cars, further enhancing energy efficiency.

The major players in global ESS for Railways RBS (Regenerative Braking System) market include ABB, Siemens, CRRC, etc. The top 3 players occupy about 55% shares of the global market. Europe and China are main markets, they occupy about 70% of the global market. Battery Energy Storage is the main type, with a share about 80%. Wayside System is the main application, which holds a share about 75%.

This report is a detailed and comprehensive analysis for global ESS for Railways RBS (Regenerative Braking System) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with

market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global ESS for Railways RBS (Regenerative Braking System) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global ESS for Railways RBS (Regenerative Braking System) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global ESS for Railways RBS (Regenerative Braking System) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global ESS for Railways RBS (Regenerative Braking System) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for ESS for Railways RBS (Regenerative Braking System)
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global ESS for Railways RBS (Regenerative Braking System) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB, Siemens, Kawasaki, Toshiba, Bombardier, Hitachi, CRRC, Beijing Dinghan Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

ESS for Railways RBS (Regenerative Braking System) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Battery Energy Storage

Ultracapacitor Energy Storage

Market segment by Application

Wayside System

Onboard System

Major players covered

ABB

Siemens

Kawasaki

Toshiba

Bombardier

Hitachi

CRRC

Beijing Dinghan Technology

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe ESS for Railways RBS (Regenerative Braking System) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of ESS for Railways RBS (Regenerative Braking System), with price, sales quantity, revenue, and global market share of ESS for Railways RBS (Regenerative Braking System) from 2020 to 2025.

Chapter 3, the ESS for Railways RBS (Regenerative Braking System) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the ESS for Railways RBS (Regenerative Braking System) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and ESS for Railways RBS (Regenerative Braking System) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of ESS for

Railways RBS (Regenerative Braking System).

Chapter 14 and 15, to describe ESS for Railways RBS (Regenerative Braking System) sales channel, distributors, customers, research findings and conclusion.

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