

# **Rolling Stock Power Conversion System Market by Technology (Insulated Gate Bipolar Transistor (IGBT), Gate Turn-Off Thyristor (GTO), and Silicon Carbide (SiC)), Components (Rectifier, Inverter, Alternator, Auxiliary Power Unit (APU), and Traction Motor), and Rolling Stock Type (Locomotives, Metros, Monorails, Trams, Freight Wagons, Passenger Coaches, and Others): Global Opportunity Analysis and Industry Forecast, 2019–2026**

<https://marketpublishers.com/r/RCF3BDEB94DFEN.html>

Date: March 2020

Pages: 267

Price: US\$ 5,370.00 (Single User License)

ID: RCF3BDEB94DFEN

## **Abstracts**

Rolling stock power conversion system installed in a rolling stock is used to carry out conversion between AC and DC as well as is responsible for changing the voltage and frequency. It is a form of electro-mechanical device that is intended to carry out the conversion process, eventually leading to the movement of rolling stock. Rolling stock power conversion system includes a transformer installed within the system, which is responsible to change the voltage and frequency of the AC that is further supplied to the rolling stock. In addition, it includes various technologies such as insulated gate bipolar transistor (IGBT), gate turn-off thyristor (GTO), and silicon carbide (SiC), which are responsible for power conversion. With the increased automation in railways, better and efficient power conversion systems have been introduced for rolling stock, which is expected to supplement the growth of the rolling stock power conversion system market.

Rolling stock power conversion system market is expected to register a significant growth during the forecast period due to increased demand for better and efficient power conversion system for rolling stock. In addition, the government regulations for the

installation of the same fuel the growth of the rolling stock power conversion system market across the globe.

The global rolling stock power conversion system market is segmented on the basis of technology, components, rolling stock type, and region. Based on technology, the market is categorized into insulated gate bipolar transistor (IGBT), gate turn-off thyristor (GTO), and silicon carbide (SiC). On the basis of components, it is categorized into rectifier, inverter, alternator, auxiliary power unit (APU), and traction motor. By rolling stock type, the market is categorized into locomotives, metros, monorails, trams, freight wagons, passenger coaches, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The key players analyzed in the rolling stock power conversion system market include AEG Power Solutions, Alstom SA, Bombardier Inc., CRRC Corporation Ltd., Hitachi Ltd., Siemens AG, Strukton, Toshiba Corporation, Turbo Power Systems, and Wabtec Corporation.

## KEY BENEFITS FOR STAKEHOLDERS

This study presents analytical depiction of the global rolling stock power conversion system market along with the current trends and future estimations to depict the imminent investment pockets.

The overall market potential is determined to understand the profitable trends to enable stakeholders gain a stronger foothold in the market.

The report presents information related to key drivers, restraints, and opportunities with a detailed impact analysis.

The current market is quantitatively analyzed from 2018 to 2026 to highlight the financial competency of the market.

Porter's five forces analysis illustrates the potency of the buyers and suppliers.

## KEY MARKET SEGMENTS

By Technology

Insulated Gate Bipolar Transistor (IGBT)

Gate Turn-Off Thyristor (GTO)

Silicon Carbide (SiC)

### By Components

Rectifier

Inverter

Alternator

Auxiliary Power Unit (APU)

Traction Motor

### By Rolling Stock Type

Locomotives

Metros

Monorails

Trams

Freight Wagons

Passenger Coaches

Others

### By Region

**North America**

U.S.

Canada

Mexico

**Europe**

Germany

France

UK

Russia

Rest of Europe

**Asia-Pacific**

China

Japan

India

Australia

Rest of Asia-Pacific

**LAMEA**

Latin America

Middle East

Africa

## KEY PLAYERS

AEG Power Solutions

Alstom SA

Bombardier Inc.

CRRC Corporation Ltd.

Hitachi Ltd.

Siemens AG

Strukton

Toshiba Corporation

Turbo Power Systems

Wabtec Corporation

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