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Global Generator Excitation System Market Growth 2025-2031

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Abstracts

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The global Generator Excitation System market size is predicted to grow from US$ 703 million in 2025 to US$ 1034 million in 2031; it is expected to grow at a CAGR of 6.6% from 2025 to 2031.

A generator excitation system is a critical component of an electric generator that is responsible for controlling and regulating the electrical output of the generator. The excitation system supplies a direct current (DC) to the rotor windings of the generator, creating a magnetic field necessary for the generation of electricity.

Growing Power Generation Capacity: The need for electricity continues to rise, driven by population growth, urbanization, and industrial development. This increasing demand has led to the construction of new power plants and the expansion of existing ones, which in turn drives the demand for generator excitation systems.

Renewable Energy Integration: The integration of renewable energy sources, such as wind and solar, into the power grid has created a need for advanced generator excitation systems. These systems must be capable of handling variable and intermittent power sources while maintaining grid stability.

Modernization and Upgrades: Aging power generation infrastructure, particularly in developed countries, requires modernization and upgrades. This includes the retrofitting of excitation systems with newer and more efficient technologies.

Grid Stability and Quality: Maintaining grid stability, voltage control, and power quality is

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critical. Generator excitation systems play a vital role in ensuring that the electrical grid operates efficiently and reliably, especially as more sensitive electronic devices are connected to the grid.

LP Information, Inc. (LPI) ' newest research report, the “Generator Excitation System Industry Forecast” looks at past sales and reviews total world Generator Excitation System sales in 2024, providing a comprehensive analysis by region and market sector of projected Generator Excitation System sales for 2025 through 2031. With Generator Excitation System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Generator Excitation System industry.

This Insight Report provides a comprehensive analysis of the global Generator Excitation System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Generator Excitation System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Generator Excitation System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Generator Excitation System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Generator Excitation System.

This report presents a comprehensive overview, market shares, and growth opportunities of Generator Excitation System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Type DC

Type AC

Type ST

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Segmentation by Application:

- Hydroelectric Power Station
- Thermal Power Station
- Nuclear Power plant
- Pumped Storage
- Biomass Power Generation
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India

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Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

ABB

Rolls Royce

Voith

Tenel

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Nidec Industrial Solutions

TECG

Basler Electric

REIVAX

Konear Inem

China National Electric

Altex Electric

Goltens

Automation Electronics India

Amtech Power

Kinetics Industries

Andritz

Siemens

GE

VEO OY

L&S Electric

Birr Machines

Key Questions Addressed in this Report

What is the 10-year outlook for the global Generator Excitation System market?

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What factors are driving Generator Excitation System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Generator Excitation System market opportunities vary by end market size?

How does Generator Excitation System break out by Type, by Application?

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