

The Grid Automation System Market is projected to grow to USD 51.89 billion by 2030, expanding at a CAGR of 6.9%.

The Business Research Company's Grid Automation System Global Market Report 2026 – Market Size, Trends, And Global Forecast 2026-2035

LONDON, GREATER LONDON, UNITED KINGDOM, February 23, 2026

[/EINPresswire.com/](https://www.einpresswire.com/) -- "The grid automation system market has

witnessed significant expansion recently, driven by advancements in technology and growing demands for efficient power management. As electricity grids become more complex and integrate diverse energy sources, the need for automation solutions is more critical than ever. Let's explore the current market size, key growth drivers, leading regions, and factors shaping the future of this vital industry.



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Strong Growth Trajectory Seen in the [Grid Automation System Market Size](#)

The grid automation system market has demonstrated robust growth, with its size projected to increase from \$37.19 billion in 2025 to \$39.68 billion in 2026. This growth represents a compound annual growth rate (CAGR) of 6.7%. The expansion during this period is largely due to rising demand for reliable electricity, widespread adoption of SCADA systems, integration of smart sensors within

power grids, ongoing urbanization, and the growth in electricity consumption. Early automation efforts focused on transmission and distribution networks have also played a significant role.

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Future Market Outlook and Expected Expansion for Grid Automation Systems



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Looking ahead, the market is expected to continue its upward trajectory, reaching \$51.89 billion by 2030 at a CAGR of 6.9%. This anticipated growth is driven by several factors, including the increasing penetration of renewable energy sources, growing investments in smart grid technologies, and the implementation of artificial intelligence and predictive analytics for managing grid operations. Other contributors are the rise in microgrid deployments and strong regulatory support favoring grid modernization and automation. Key trends during this period will feature real-time grid monitoring, automated fault detection and isolation, load balancing optimization, renewable energy integration, as well as predictive maintenance and diagnostics.

Understanding the [Role and Functionality of a Grid Automation System](#)

A grid automation system blends hardware, software, and communication technologies to oversee, control, and optimize power grid operations in real time. It automates essential tasks such as detecting faults, isolating problems, restoring services, regulating voltage, and balancing loads throughout the grid. By enabling automated, data-driven control, these systems enhance the reliability, efficiency, and resilience of the electricity network.

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Real-Time Grid Monitoring as a [Key Growth Driver in the Grid Automation System Market](#)

One of the most critical factors propelling the grid automation system market is the escalating need for real-time grid monitoring. This capability involves continuously tracking and analyzing the condition of an electrical grid during operation, offering immediate insight into electricity flow, equipment status, and overall system health. The growing complexity of power grids and increasing electrification are pushing utilities to adopt real-time monitoring solutions to better integrate renewable energy, distributed resources, and smart infrastructure.

The Importance of Real-Time Monitoring in Enhancing Grid Reliability

Grid automation systems enable this real-time monitoring by leveraging intelligent sensors, communication networks, and advanced control software that collect and analyze data continuously. This instant visibility supports better operational awareness, improves reliability, and allows for swift decision-making. For example, the International Energy Agency (IEA) projected in December 2025 that global renewable power capacity would increase by nearly 4,600 GW from 2025 to 2030—almost double the additions seen in the previous five years. Such rapid growth in renewables further emphasizes the need for effective real-time grid monitoring, fueling demand for grid automation solutions.

North America Holds the Largest Share in the Global Grid Automation System Market

In 2025, North America stood as the largest regional market for grid automation systems. However, the Asia-Pacific region is expected to experience the fastest growth during the forecast period. The global market report covers multiple regions including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa,

highlighting diverse growth dynamics and opportunities worldwide.

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