

Automation Push Drives Electric Control Panel Market to \$10.3 Billion by 2032

The electric control panel market is growing due to renewable energy and automation demand, though high cost and complexity pose challenges.

WILMINGTON, DE, UNITED STATES, July 1, 2025 /EINPresswire.com/ --

According to a new report published by Allied Market Research, titled, "Electric Control Panel Market," The electric control panel market was valued at \$6.0 billion in 2022, and is estimated to reach \$10.3 billion by 2032, growing at

a CAGR of 5.8% from 2023 to 2032. Asia-Pacific is projected as the fastest-growing region with a CAGR of 6.1%.



Report Summary:



Smart control panels are becoming the backbone of modern industry, enabling safer, more efficient, and connected operations across power, manufacturing, and infrastructure sectors."

Allied Market Research

- Market size valued at \$6.0 billion in 2022; projected to reach \$10.3 billion by 2032, growing at a CAGR of 5.8%.
- Surge in Industry 4.0 and smart manufacturing increases need for electric control panels in manufacturing, oil & gas, water treatment, etc
- Asia-Pacific is the fastest-growing region with a CAGR of 6.1%.
- Growth driven by demand for automation, energy efficiency, safety, and smart electrical systems across industries.
- Key players: Schneider Electric, Siemens AG, ABB, Eaton, Rockwell Automation.

The electric control panel market is experiencing steady growth driven by the rising demand for automation, energy efficiency, and safety in industrial, commercial, and residential applications. Electric control panels serve as the central hub for monitoring and managing electrical systems, ensuring smooth operation, protection, and control of equipment such as motors, pumps,

lighting, and HVAC systems. With increasing industrialization and the need for reliable power distribution, the adoption of advanced control panels with integrated smart technologies is gaining momentum across sectors like manufacturing, oil & gas, power generation, and infrastructure.

Technological advancements such as IoT integration, remote monitoring, and modular panel designs are reshaping the market, enabling real-time diagnostics, improved energy management, and reduced downtime. In addition, the global shift toward smart grids, renewable energy installations, and automation in process industries is fueling demand for intelligent electric control panels. Favorable government regulations promoting industrial safety standards and growing investments in electrical infrastructure in emerging economies further support market expansion, making electric control panels a vital component of [modern electrical systems](#).

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Market Dynamics

1. Industrial Automation and Electrification Driving Demand

The growing adoption of industrial automation across manufacturing, oil & gas, water treatment, and other process industries is significantly propelling the demand for electric control panels. These panels are essential for efficient control and monitoring of complex electrical systems, providing centralized management of machinery and power distribution. As industries increasingly embrace Industry 4.0 and digital transformation, the need for smart, responsive, and customizable control panels continues to rise.

2. Technological Advancements in Control Panel Design

Rapid advancements in technology are transforming traditional electric control panels into intelligent, interconnected systems. The integration of Internet of Things (IoT), Human Machine Interface (HMI), programmable logic controllers (PLCs), and remote access capabilities enables real-time monitoring, predictive maintenance, and efficient energy use. Modular designs and smart circuit protection features also allow for easier customization, scalability, and space-saving installations—making them ideal for modern industrial and commercial applications.

3. Rising Focus on Energy Efficiency and Safety Standards

Governments and regulatory bodies around the world are implementing stricter safety codes and energy efficiency standards for electrical installations. Electric control panels help ensure compliance by enabling system-level protections such as overload prevention, short circuit isolation, and voltage regulation. These safety features not only protect equipment and personnel but also help reduce energy waste, aligning with sustainability goals and reducing operational costs for end-users.

4. High Installation and Maintenance Costs Pose Challenges

Despite their growing adoption, the high initial costs associated with advanced electric control

panels—especially smart and customized systems—can be a barrier for small and medium-sized enterprises (SMEs). In addition, ongoing maintenance, skilled labor requirements, and the complexity of integrating newer technologies into legacy infrastructure can add to the total cost of ownership. These factors may limit adoption in cost-sensitive regions and industries with lower automation penetration.

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5. Emerging Markets Offer Untapped Growth Opportunities

While developed regions like North America and Europe have mature markets, emerging economies in Asia-Pacific, Latin America, and the Middle East are expected to offer significant growth potential. Rapid industrialization, urban infrastructure development, and increasing investments in power and energy projects are driving demand for advanced electrical control systems. Government initiatives promoting electrification, industrial upgrades, and renewable energy integration further open new avenues for electric control panel manufacturers and solution providers.

Segment Overview

The [electric control panel market analysis](#) is segmented based on type, form, application, and end-use industry. By type, the market includes power control panels and automation control panels, with automation panels witnessing higher demand due to the rise in industrial automation and smart systems. In terms of form, it is classified into enclosed and open panels, where enclosed panels dominate due to enhanced safety and protection features. Based on application, the market spans motor control, lighting control, HVAC control, and others. Key end-use industries include manufacturing, oil & gas, power generation, water treatment, and commercial infrastructure. Among these, the manufacturing and energy sectors are major contributors, driven by increased adoption of automated systems and the need for reliable power distribution and system monitoring.

Regional Analysis

North America holds a significant share of the electric control panel market, driven by advanced industrial infrastructure, strong adoption of automation technologies, and strict regulatory standards for electrical safety and energy efficiency. The U.S. leads the region due to the widespread presence of manufacturing units, data centers, and utilities that rely heavily on sophisticated control and monitoring systems. Additionally, investments in smart grid development, renewable energy integration, and the modernization of aging electrical infrastructure further propel market growth in the region.

The Asia-Pacific region is expected to witness the fastest growth in the electric control panel market, fueled by rapid industrialization, urbanization, and growing investments in energy and infrastructure projects. Countries like China, India, Japan, and South Korea are seeing rising demand for efficient and scalable electrical control systems across sectors such as manufacturing, power generation, water treatment, and transportation. Government initiatives

promoting electrification, digitalization of industries, and smart city development are key growth enablers. The availability of low-cost manufacturing and increasing foreign direct investment in industrial automation also contribute to the region's strong growth outlook.

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Competitive Analysis

The electric control panel market is highly competitive, with several global and regional players focusing on innovation, customization, and smart integration to strengthen their market position. Leading companies such as Schneider Electric, Siemens AG, ABB Ltd., Eaton Corporation, and Rockwell Automation dominate the market with extensive product portfolios, global distribution networks, and strong technical expertise. These companies invest heavily in R&D to develop advanced features like remote monitoring, IoT-enabled systems, and energy-efficient designs that align with industry demands for automation and sustainability. Their ability to offer turnkey solutions and after-sales support further enhances their competitive advantage in both developed and emerging markets.

In addition to multinational corporations, numerous regional and local players cater to specific markets with cost-effective and customized control panel solutions. These companies often specialize in niche applications or offer localized service and installation support, making them highly competitive in domestic markets. Strategic partnerships, mergers and acquisitions, and expansions into high-growth regions are common strategies adopted by market participants to capture new business opportunities. As the demand for smart, modular, and energy-efficient control systems grows, the competitive landscape is expected to evolve rapidly with a strong emphasis on innovation and digital transformation.

Key Findings of the Study:

- **Rising Automation Fuels Demand:** Increasing adoption of industrial automation and smart manufacturing systems is a major driver for electric control panels, especially automation-type panels.
- **IoT and Remote Monitoring Gain Traction:** Integration of IoT, cloud connectivity, and remote diagnostics is transforming conventional panels into smart, real-time monitoring systems.
- **Asia-Pacific Emerges as Fastest-Growing Region:** Rapid industrialization, infrastructure development, and supportive government initiatives in countries like China and India are boosting regional demand.
- **Safety and Compliance Drive Upgrades:** Stringent safety regulations and the need for energy-efficient systems are pushing industries to replace outdated panels with modern, compliant alternatives.
- **High Customization and Integration Opportunities:** Market players are focusing on customizable, modular, and scalable panel designs to meet diverse end-user needs across sectors like power, oil & gas, and manufacturing.

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