

Automation Demand Powers Electric Control Panel Market to \$10.3 Bn by 2032

Renewable energy growth and automation demand boost electric control panel market, with rising awareness creating new opportunities despite cost challenges.

WILMINGTON, DE, UNITED STATES, August 11, 2025 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, "[Electric Control Panel Market](#) by Type (Power and Distribution, Automation and Instrumentation, Power and Control, DG Control), by Voltage (Medium, High, Low), by Application (Manufacturing

and Industrial Automation, Commercial, Power Generation, Residential, Agriculture, Others): Global Opportunity Analysis and Industry Forecast, 2022 - 2032" 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%.

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The electric control panel market is evolving rapidly with IoT integration, making systems smarter, safer, and more efficient.”

Allied Market Research

The electric control panel market encompasses the design, manufacturing, and distribution of panels used to house electrical components for monitoring and controlling industrial machinery, power systems, and automation processes. These panels play a vital role in ensuring safe, efficient, and reliable operation across industries such as manufacturing, energy, oil & gas, and commercial

infrastructure. Growing industrial automation, the integration of IoT in control systems, and the rising demand for energy efficiency are driving the market's expansion globally.

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- Increasing Industrial Automation

The rapid adoption of Industry 4.0, robotics, and smart manufacturing solutions has significantly increased the demand for advanced electric control panels. These systems enable better monitoring, process control, and operational efficiency, making them integral to modern industrial setups.

- Growth in Renewable Energy Projects

With global investments pouring into renewable energy sectors such as wind, solar, and hydropower, electric control panels are becoming essential for integrating renewable sources into the grid and ensuring stable and reliable power distribution.

- Urbanization and Infrastructure Development

Expanding urban infrastructure projects, particularly in emerging economies, are boosting the installation of HVAC systems, water treatment plants, and power distribution networks — all of which require efficient electric control panels.

- Technological Advancements in Panel Design

The shift toward smart panels equipped with IoT sensors, predictive maintenance capabilities, and advanced communication interfaces is transforming the market. These innovations improve energy efficiency and reduce downtime, attracting high adoption rates.

- Challenges from High Costs and Complexity

Despite the positive outlook, the market faces challenges due to the high costs associated with advanced control panels and the technical expertise required for installation and maintenance, which may slow adoption in small and medium enterprises.

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MARKET SEGMENTATION

The electric control panel market is segmented by Type (Power and Distribution, Automation and Instrumentation, Power and Control, DG Control), by Voltage (Medium, High, Low), by Application (Manufacturing and Industrial Automation, Commercial, Power Generation, Residential, Agriculture, Others). Among these, low tension panels hold the largest market share due to their extensive usage in manufacturing and building services.

By type, the electric control panel market is segmented into power and distribution, automation and instrumentation, power and control, and DG control. The automation and instrumentation segment is expected to witness the fastest growth, while power and distribution held the largest share in 2022.

By voltage, the market is categorized into medium, high, and low. The medium voltage segment not only accounts for the highest market share but is also projected to grow at the fastest pace.

By application, the market is divided into manufacturing and industrial automation, commercial, power generation, residential, agriculture, and others. Manufacturing and industrial automation dominates the market and is anticipated to remain the fastest-growing segment during the forecast period.

North America

North America dominates the market owing to its well-established industrial base, adoption of smart manufacturing technologies, and strong focus on energy efficiency. Government incentives for upgrading industrial equipment further support growth in the region.

Asia-Pacific is projected to witness the fastest growth due to rapid industrialization, infrastructure expansion, and significant investments in renewable energy. China, India, and Southeast Asia are key contributors, driven by strong demand for automation solutions.

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Market Dynamics

The market is moderately fragmented, with major players focusing on product innovation, partnerships, and mergers to strengthen their presence. Companies are increasingly investing in IoT-enabled control panels to cater to smart manufacturing needs.

Prominent players in the electric control panel market include Rockwell Automation Inc., Keltor Control Inc., WEG, Electra-Tech, Power Industrial Controls, Eaton, Schneider Electric, INDUSTLABS, Paneltronics, ABB Ltd. alongside several regional manufacturers offering customized panel solutions for local industries.

Key Market Trends

- Rising demand for electric control panels in manufacturing and renewable energy sectors is driving market growth.
- IoT integration in control panels is a major technological trend enhancing operational efficiency.
- Asia-Pacific is the fastest-growing market due to industrial expansion and infrastructure development.
- High costs and technical complexity are key restraints in the market.
- Leading players are focusing on innovation and strategic partnerships to gain a competitive edge.

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