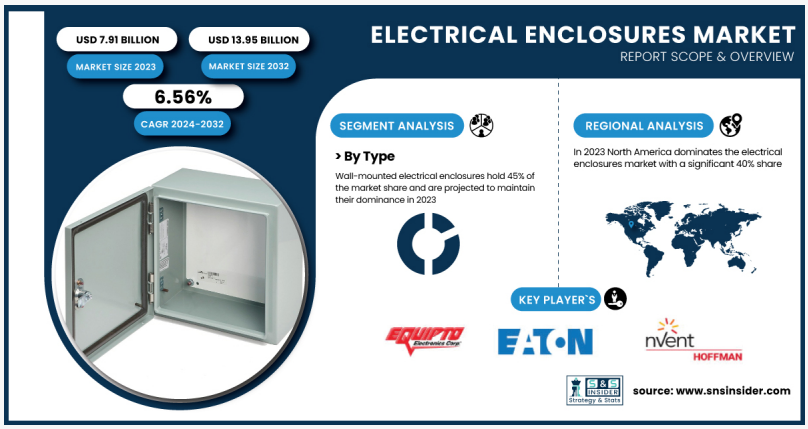
Electrical Enclosure Market to Reach USD 13.95 Billion by 2032, at 6.56% CAGR | SNS INSIDER

The Market is expanding with demand for safe, durable housing for electrical components, driven by industrial automation and smart grid advancements.



Electrical Enclosure Market Size & Growth Analysis

AUSTIN, TX, UNITED STATES, February 17, 2025 /EINPresswire.com/ -- Market Size & Industry Insights

According to the SNS Insider Report,"The Electrical Enclosure market was valued at USD 7.91 billion in 2023 and is expected to grow to USD 13.95 billion by 2032, at a CAGR of 6.56% over the forecast period of 2024-2032."

As industrial automation is on the rise along with demand for energy-efficient solutions and due to stringent regulations regarding safety, the electrical enclosure market is moving at a high pace. Demand is also fuelled by the growing adoption of smart grids and renewable energy projects. Furthermore, the rise of IoT and Industry 4.0 technologies require sophisticated enclosures to contain sensitive electronics. Market growth is also driven by rapid urbanization and infrastructure development.

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SWOT Analysis of Key Players as follows:
- nVent (Eldon Holdings) (U.K.)
- Eaton (U.S.)
- Equipto Electronics Corp. (U.S.)
- Siemens (Germany)
- Rittal GmbH & Co. KG (Germany)
- Schneider Electric (France)

- Hammond Manufacturing Ltd (Canada)
- Hubbell (U.S.)
- Fibox (Finland)
- Saipwell Electric Co. Ltd. (China)

Key Market Segmentation:

By Type: The market share was dominated by the wall-mounted electrical enclosure segment in 2023, due to its wide use in residential, commercial, and industrial applications. They are more typically used to maximize space, as with these enclosures, which are easy to install and cheap. Wall-mounted enclosures are some of the most common enclosures used in industries such as telecommunications, energy, and automation, where they are widely used to protect electrical and electronic components from environmental factors.

The floor-mounted/freestanding segment is projected to have the highest growth rate during the forecast period 2024-2032. Industrial automation, smart manufacturing, and the growing demand for large enclosures to house complex electrical systems are driving this growth.

By Material: In 2023, non-metallic enclosures held the largest market share and are projected to continue this trend over the higher growth rate between 2024 and 2032. The lightweight properties of composites, as well as their resistance to corrosion and excellent insulating capabilities, have driven the expanding adoption of these materials. The need for non-metallic enclosures is driven by various industries like telecommunications, energy, and wastewater, among others, where enclosures are required to be durable in fast-moving, tough environments. This segment is also expanding owing to the increasing need for electrical enclosures in renewable energy developments and the growth of industrial automation.

By Application: The electrical enclosure market was led by the energy and power sector in 2023, owing to the strong emphasis on the need for reliable energy infrastructure as well as the integration of renewable energy sources. Electric electrical enclosures for transformers, switchgear, and circuit breakers are critical in protecting the equipment from the elements to provide efficiency in the generation and distribution of power as well as in application safety.

The industrial control systems segment is projected to register the highest compound annual growth rate (CAGR) during 2024-2032. The expected growth is primarily due to increasing automation and smart manufacturing technologies in various industries. With the modernization of factories and production facilities, there is a growing requirement for enclosures to protect sensitive control equipment, so they serve as one of the expanding applications of the enclosure.

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KEY MARKET SEGMENTS:

By Type
Wall-mounted
Floor-mounted/Freestanding
Others

By Material
Non-metallic
Metallic

By Application
Energy and Power
Industrial Control Systems
Telecommunications
Oil and Gas
Others

North America Leads in Electrical Enclosures 2023 While Asia Pacific Rises Fastest by 2032

In 2023, North America held the largest share of the electrical enclosure market owing to its robust industrial infrastructure along with the growing automation adoption in the region coupled with high safety regulation requirements. Factors contributing to this dominance included a well-established energy and power sector supported by positive regional energy consumption trends, increased investments in smart grid technology, and renewable energy projects. High-grade enclosures to safeguard electrical systems are extensively utilized in diverse sectors, including oil & gas, telecom, and manufacturing, augmenting demand as well.

The Asia Pacific region is expected to grow at the fastest CAGR from 2024 to 2032. The surge in demand for electrical enclosures tends to the effective rising industrialization, urbanization, and infrastructure development experienced among the nations namely China, India, and also Japan. Increase in power distribution investments, and government initiatives driving industrial automation moreover, the expanding renewable energy sector and rising adoption of safety standards in electrical installations are actions that also boost the demand for the market.

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Recent Developments:

-In August 2024, Siemens introduced the SIVACON 8MF1 series, the first industrial control cabinets made entirely from green steel, cutting CO□ emissions by 70% while maintaining full functionality.

-In March 2024, Rittal introduces the WMV enclosure with integrated cooling, corrosion protection, and a vented design for efficient heat dissipation, ensuring seamless in-field maintenance.

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