

# **Electrical Enclosure Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Type (Wall-Mounted, Floor-Mounted/Freestanding, and Others), By Material Type (Metallic, Non-Metallic), By Application (Industrial Control Systems, Energy & Power, Telecommunications, Oil & Gas, and Others), By Region, By Competition, 2020-2030F**

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## **Abstracts**

### Market Overview

The Global Electrical Enclosure Market was valued at USD 9.07 billion in 2024 and is projected to reach USD 14.21 billion by 2030, growing at a CAGR of 7.61% during the forecast period. Electrical enclosures are essential protective housings used to shield electrical components from external threats such as dust, water, chemicals, and physical damage. These enclosures ensure the safety and operational reliability of electrical systems across industrial, commercial, and residential environments. Their applications span numerous sectors including energy, manufacturing, construction, telecommunications, transportation, and oil & gas. Available in both metallic and non-metallic variants, electrical enclosures come in multiple configurations such as wall-mounted, floor-standing, and custom types, offering tailored protection for equipment like circuit breakers, control panels, and wiring systems. The market's expansion is supported by the growing focus on automation, safety regulations, and the increasing complexity of electrical infrastructure worldwide.

### Key Market Drivers

#### Increasing Demand for Industrial Automation and Smart Infrastructure

The expanding implementation of automation across manufacturing and process industries is a key driver of the electrical enclosure market. As smart technologies like Industrial IoT, robotics, and AI gain momentum, the need to house and protect critical electronic systems becomes paramount. Electrical enclosures serve to protect these systems from environmental stress, electrical interference, and unauthorized access. Sectors such as automotive, food and beverage, pharmaceuticals, and heavy equipment manufacturing are driving the demand for robust and corrosion-resistant enclosures capable of withstanding extreme conditions. The rising deployment of modular and scalable factory setups also supports the growth of customized and flexible enclosure solutions that align with Industry 4.0 trends and facilitate seamless integration of control and communication devices.

## Key Market Challenges

### Fluctuating Raw Material Costs and Supply Chain Disruptions

A key challenge for the electrical enclosure market is the unpredictable cost of essential raw materials like steel, aluminum, and copper. These fluctuations impact manufacturing expenses and pricing strategies, thereby affecting overall profitability. High material costs can deter end-user purchases, particularly in price-sensitive markets. Simultaneously, global supply chain issues—driven by factors such as geopolitical tensions, logistical delays, and trade regulations—add further complexity. These disruptions result in inconsistent material availability, delayed production schedules, and increased operational costs, putting pressure on manufacturers to optimize inventory and maintain product delivery timelines.

## Key Market Trends

### Rising Adoption of Smart and Modular Electrical Enclosures

The market is witnessing a clear trend toward smart and modular electrical enclosures that accommodate digital transformation in industries. These next-generation enclosures integrate real-time monitoring, thermal regulation, and predictive maintenance capabilities, supporting high-efficiency operations and reducing system downtime. IoT-compatible and sensor-enabled enclosures are increasingly favored in industries where operational transparency and remote diagnostics are essential. Modular enclosures, which offer greater design flexibility, are becoming popular for their scalability and ease of installation, especially in expanding or frequently reconfigured

industrial and commercial environments. These advanced systems are contributing to higher safety compliance, energy efficiency, and streamlined equipment maintenance.

### Key Market Players

Schneider Electric SE

ABB Ltd.

Eaton Corporation plc

Rittal GmbH & Co. KG

Hubbell Incorporated

nVent Electric plc

Legrand SA

Siemens AG

Hammond Manufacturing Ltd.

Adalet (Scott Fetzer Company)

### Report Scope:

In this report, the Global Electrical Enclosure Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Electrical Enclosure Market, By Type:

Wall-Mounted

Floor-Mounted/Freestanding

Others

Electrical Enclosure Market, By Material Type:

Metallic

Non-Metallic

Electrical Enclosure Market, By Application:

Industrial Control Systems

Energy & Power

Telecommunications

Oil & Gas

Others

Electrical Enclosure Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Electrical Enclosure Market.

## Available Customizations

Global Electrical Enclosure Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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