Electrical Enclosures - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 120 pages | Mordor Intelligence

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Report description:

The Electrical Enclosures Market size is estimated at USD 8.11 billion in 2025, and is expected to reach USD 10.96 billion by 2030, at a CAGR of 6.2% during the forecast period (2025-2030).

Owing to the increasing power and industrial infrastructure, the need for protection of the workplace and workforce is also increasing, which has led to the adoption of safety standards for the equipment in the industries. It has made electrical enclosures a crucial element in industrial and residential applications.

Key Highlights
- Global energy consumption continues to grow significantly, as electricity demand is increasing as the trend for an ever-connected world accelerates. According to BP, Iceland has the largest per capita electricity consumption worldwide, averaging 52.98 megawatt-hours per person in 2021. It is due to the presence of energy-intensive industries in the country. Such instances are further driving the demand for electrical enclosures.
- Power generated from solar and wind sources uses sensitive electrical components and batteries that, if exposed to the elements, cause a system failure. Therefore, the energy generation sector uses electrical enclosures significantly for safety purposes.
- The acceptance of industrial and factory automation allows the entry of more mechanical, electromechanical, and solid-state devices, components, and controls that need to be enclosed for safety and aesthetic purposes, thereby driving the market growth. As a result, many countries have implemented stringent safety regulations globally, and this parameter is significantly driving the growth of the electrical enclosures market.
- For instance, the Construction Safety Alliance of Maine, SafetyWorks, and the Workplace Safety and Health Division of the Maine Department of Labor joined forces in August 2022 to promote workplace safety and health and inform construction employers and

workers in the state about safety and health risks.The alliance will safeguard workers by lowering and minimizing exposure to construction-related risks like falls, injuries from being struck by objects, electrocution, and getting entangled in or between machinery and vehicles.
- The market is witnessing various developments as fabricators, and tier suppliers continue to develop composite solutions for protective battery enclosures. For instance, in March 2022, Mexico-based automotive tier 1 Katcon developed a multi-material toolbox for cost-effective, scalable EV battery enclosure design.
- The Coronavirus pandemic complicated the situation of the adoption of electrical enclosures in various sectors. It has changed the standard operating procedure by bringing in unique challenges of social distancing and contactless operation. Organizations were forced to limit their workforce and deal with the increasing demand. With the shutdown of several industries, the market witnessed a negative impact. Although, with the ease of restrictions and the opening of industries at full capacity, the market has started to gain traction.

Electrical Enclosures Market Trends

Energy and Power End-User Industry to Hold a Significant Share

- Environmental issues related to fossil fuels and nuclear energy are prompting a rise in alternative energy sources, such as solar and wind energy. Solar and wind energy are considered safe, pollution-free renewable energy. Countries around the world are embracing this technology.
- Power generated from solar and wind sources uses sensitive electrical components and batteries that, if exposed to the elements, cause a system failure. Therefore, the energy generation sector uses electrical enclosures significantly for safety purposes.
- Wind and solar energy equipment require seismic protection, EMC shielding, electronics cooling, security, resistance to corrosion, and integration of power conversion and multi-component systems, which are achieved using electrical enclosures.
- As electrical enclosures are deployed to protect the electrical and electronic components and systems of solar, wind, and electrical power plants, government regulations also support the adoption of renewable energy sources, thereby boosting the demand for electrical enclosures.
- Regions are coming up with various initiatives to produce renewable energy sources, further fueling the demand for electrical enclosures. For instance, in August 2021, the Indian Government proposed a set of rules, "Draft Electricity Rules, 2021," for promoting renewable energy through green energy open access. The proposed rules aim to push for faster adoption of renewable power by addressing various concerns related to the green energy sector.

North America Is Expected To Witness Significant Growth Rate

- The growing industrial automation and smart home integration are expected to drive the electrical enclosures market significantly in this region, mainly due to the United States being an early adopter of industrial automation.
- About 61% of electricity generation was from fossil fuels in 2021. About 19% of the energy from fossil fuels was from nuclear energy, and about 20% was from renewable energy sources. The U.S. Energy Information Administration estimates an additional 49 billion kWh of electricity generation from small-scale solar photovoltaic systems in 2021. The regulating bodies in the region have been the prime players in stimulating the demand for electrical enclosures.
- There is a significant penetration of smart homes in North America owing to growing security concerns and awareness of energy conservation. The technological advancements in smart devices and the adoption of those devices into many households are expected to act as opportunities for the electrical enclosures market, owing to the consumer behavior of having a clean

environment.
- The increasing establishment of such plants and the stringent rules associated with them are expected to drive the electronic enclosures market exponentially in the North American region. The U.S. Department of Energy (DOE) recently announced USD 61 million for ten pilot projects to deploy new technology for transforming thousands of homes and workplaces into energy-efficient buildings.

Electrical Enclosures Industry Overview

The electronic enclosure market is moderately fragmented. Industry 4.0 and the increasing energy consumption in different regions provide opportunities in the electronic enclosures market. The players in the market are adopting major strategies, like product innovations, mergers and acquisitions, and strategic partnerships, to widen their product portfolio and expand their geographical reach. Some of the players in the market are ABB Ltd, Emerson Electric, and Schneider Electric SE, among others.

In July 2022 - Schneider Electric announced the launch of PrismaSeT S, a new series of enclosures that makes the installation of electrical distribution in commercial and industrial buildings equivalent to residential in terms of installation but more resistant to hard applications. PrismaSeT S supports Schneider Electric's initiative for being more sustainable by using parts of recycled plastic materials in its manufacturing process.

In March 2022 - Magna International Inc. announced that the company is expanding its battery enclosures operations in Canada to support new business from Ford Motor Company. The new 170,000-square-foot facility is expected to generate up to 150 new jobs and produce battery enclosures for the Ford F-150 Lighting.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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