

Electrical House Market Growth Driven by Rising Industrial Demand & Mobile Substations

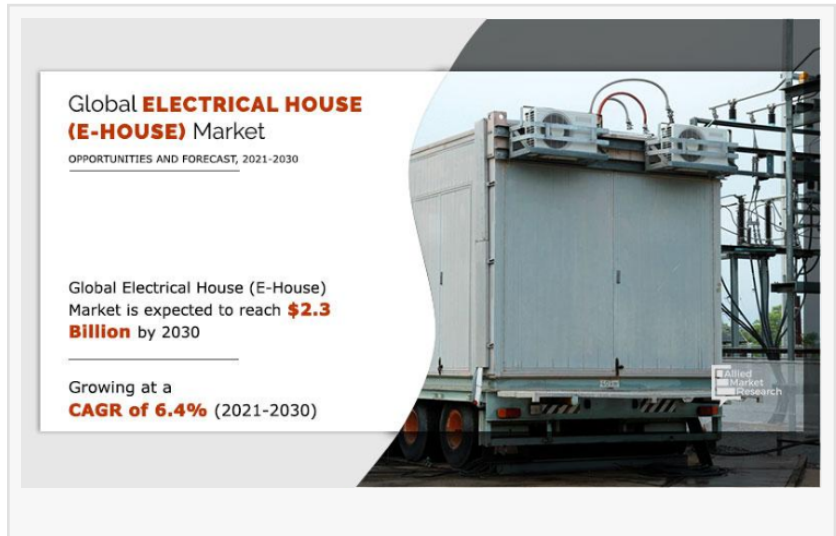
Global Electrical House Market Set to Reach \$2.3 Billion by 2030, Growing at 6.4% CAGR

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According to a new report by Allied Market Research titled, "[Electrical House Market](#) by Type and Application: Global Opportunity Analysis and Industry Forecast, 2021–2030," the

global electrical house market was valued at \$1.2 billion in 2020 and is projected to reach \$2.3 billion by 2030, growing at a robust CAGR of 6.4% from 2021 to 2030.



An electrical house (E-House) is a modular, integrated power substation designed for rapid deployment where interim or permanent power supply solutions are required. It integrates essential electronic components such as low- and medium-voltage switchgear, digital electronic systems, and auxiliary equipment in a compact metallic frame. E-Houses are widely used for power control and transmission across industries such as oil & gas, mining, railways, and chemicals.

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Global electrical house market to hit \$2.3B by 2030, driven by demand for mobile substations, industrial power supply, and Asia-Pacific growth.”

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Key Drivers of the Electrical House Market ☐☐

The demand for electrical house solutions is increasing, particularly driven by the advantages of

ease of installation, portability, and reduced space requirements. Compared to traditional concrete block and brick power substations, E-Houses offer a cost-effective solution that enables faster project execution. Additionally, they help reduce extended electricity outages in utility sectors, further boosting their adoption globally.

The growing focus on [renewable energy grids](#) and emission reduction strategies enhances the role of E-Houses in power transmission applications. Despite high maintenance costs and the need for specialized professionals, the market growth remains positive, supported by industrial expansion and infrastructure projects in developing regions.

Market Segmentation & Trends □□□

By Type

The mobile substation segment dominated in 2020 with a 60.6% share, primarily due to its use in sectors like oil & gas and automotive where temporary and flexible power solutions are critical.

By Application

The industrial segment led the market with 53.4% share in 2020. The surge in consumer goods manufacturing and the chemical industry has bolstered the use of E-Houses for efficient power supply in industrial applications.

By Voltage

The medium-voltage segment accounted for 66.7% share in 2020, driven by substantial government investments in expanding railway networks in countries like China and India. Medium-voltage E-Houses are widely preferred for power distribution in such large-scale projects.

Regional Insights □□

The Asia-Pacific region dominated the market in 2020, capturing 35.5% of the share and is projected to grow at the fastest CAGR of 7.1% during the forecast period. Expansion of electronics and energy sectors in Asia-Pacific, especially China, has led to rising E-House adoption for consistent power supply and renewable energy applications.

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North America and Europe follow, with growing industrial infrastructure and energy management needs driving steady adoption of electrical house solutions.

COVID-19 Impact Analysis ☐☐

The COVID-19 pandemic negatively impacted the electrical house market, primarily due to reduced activity in key sectors such as oil & gas, mining, and manufacturing. According to the National Bureau of Statistics of China, large-scale manufacturing production declined by 20% in March 2020 compared to the previous year, and profits fell by 66%. Lockdowns and travel restrictions stalled infrastructure projects, delaying demand for E-Houses.

However, as restrictions eased and economic activities resumed, the market is recovering gradually. The need for efficient, modular power solutions remains vital as governments focus on upgrading power infrastructure in the post-pandemic era.

Competitive Landscape ☐☐☐

Key industry players profiled in the report include:

ABB

Axis Solutions Pvt Ltd

BMarko Structures Inc.

Eaton

General Electric

Schneider Electric

Siemens AG

TECO Corporation

These players focus on innovative solutions, strategic partnerships, and expansion into emerging markets to maintain competitive positions in the global [electrical house industry](#).

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Future Outlook ☐☐

The electrical house market forecast indicates strong growth opportunities, especially in the mobile substation and industrial applications segments, both projected to grow at 6.5% CAGR through 2030. Increased global emphasis on renewable energy, electrification of industries, and infrastructural development will continue to drive demand for modular, scalable power solutions

like E-Houses.

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