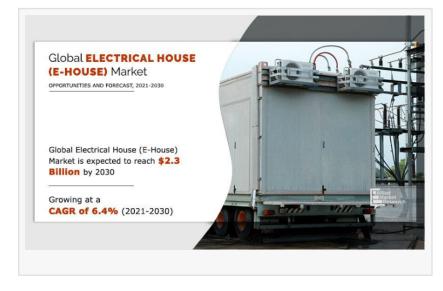


## Electrical House (E-House) Market to Reach \$2.3 Billion by 2030, Driven by Industrial Growth & Mobile Substation Demand

Rising Demand for Modular Power Solutions Propels Electrical House (E-House) Market Toward \$2.3 Billion by 2030

WILMINGTON, DE, UNITED STATES, July 23, 2025 /EINPresswire.com/ -- The Future of Modular Power: Electrical House (E-House) Industry Set for Strong Growth

According to a recent report by Allied Market Research, the global <u>electrical</u>



house (E-House) market size was valued at \$1.2 billion in 2020 and is projected to reach \$2.3 billion by 2030, growing at a CAGR of 6.4% during the forecast period. This surge is being driven by rising industrial activity, demand for flexible power solutions, and the growing adoption of renewable energy.



Global Electrical House
Market to hit \$2.3B by 2030
□□, fueled by mobile
substations & industrial
demand. CAGR of 6.4% from
2021–2030!"

Allied Market Research

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An Electrical House (E-House)—also known as a modular substation—is a compact, factory-built power distribution unit. It houses key components like low- and <u>medium-voltage switchgear</u>, digital control systems, and other auxiliary systems in a mobile or fixed container. Designed

for quick deployment and ease of transport, e-houses are increasingly used across sectors such as oil & gas, mining, chemical, railways, and utilities.

Key Drivers Behind Market Growth

The primary force behind the rising popularity of electrical houses is the growing demand for flexible and space-efficient power supply solutions. E-houses offer several benefits over traditional brick-and-mortar substations:

Faster deployment and reduced construction time

Cost-effective and scalable solutions

Easier maintenance and relocation

Reduced land use in dense or remote areas

These advantages make them ideal for both temporary and permanent power infrastructure projects, especially in emerging industrial zones.

Moreover, the shift toward renewable energy and decentralized power systems is boosting the demand for modular substations. E-houses are now being deployed in off-grid solar and wind energy setups to improve power distribution efficiency and minimize outages.

Market Segmentation: Insights by Type, Application, and Voltage

☐ By Type: Mobile Substations Lead the Way

The market is segmented into fixed and mobile substations. In 2020, mobile substations accounted for 60.6% of the global revenue share. This dominance is due to their widespread application in industries that require temporary or emergency power, such as oil & gas exploration and construction projects.

Mobile e-houses are increasingly being deployed to provide fast, reliable power in disaster-hit areas, rail infrastructure expansions, and defense applications. Their portability and rapid setup make them indispensable in time-sensitive environments.

☐ By Application: Industrial Sector Dominates

The industrial segment held a commanding 53.4% share in 2020. With the global rise in manufacturing and chemical processing, there's an increased need for reliable, high-capacity power systems. E-houses ensure continuous energy supply in large plants, refineries, and factories where downtime can result in significant losses.

The utility sector, though slightly smaller, is projected to grow due to aging grid infrastructure in developed nations and the rapid electrification of rural areas in emerging economies.

 $\hfill\square$  By Voltage: Medium-Voltage Systems Take the Lead

By voltage, the market is divided into low and medium segments. Medium-voltage e-houses captured 66.7% of the revenue in 2020. This is attributed to their use in infrastructure-intensive sectors like transportation and public utilities, especially in countries like India and China, which are actively expanding their railway and energy grids.

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Regional Outlook: Asia-Pacific Emerging as a Powerhouse

The Asia-Pacific region held the largest market share of 35.5% in 2020 and is expected to grow at the highest CAGR of 7.1% through 2030. Rapid industrialization, urbanization, and government investment in grid modernization are major drivers. Additionally, countries like China and India are promoting renewable energy integration, further accelerating demand for modular power solutions.

Meanwhile, North America and Europe are witnessing steady adoption of e-houses in smart grid projects, EV infrastructure, and offshore oil & gas facilities.

**Challenges and Opportunities** 

Despite the promising outlook, certain challenges persist. High maintenance costs and the need for skilled personnel to operate and troubleshoot E-House systems could hamper adoption, particularly in cost-sensitive markets.

However, these concerns are outweighed by growing opportunities:

Integration of IoT and digital monitoring systems for real-time diagnostics

Deployment in renewable grids to support clean energy transitions

Increased government funding for disaster recovery infrastructure

The demand for temporary and mobile power solutions in emergency and remote applications is expected to further fuel innovation and investment in the electrical house sector.

COVID-19 Impact: Temporary Setback, Long-Term Growth

The COVID-19 pandemic caused temporary disruptions across global supply chains and industrial operations. Projects were delayed or canceled, and sectors like oil & gas and construction saw a decline in activity. This impacted the e-house market, as many end-users postponed or reduced capital expenditure.

However, the post-pandemic recovery, driven by infrastructure stimulus packages, green energy investments, and manufacturing resurgence, is expected to re-energize the market.
Competitive Landscape
Major players in the electrical house (e-house) market include:
ABB
Siemens AG
Schneider Electric
General Electric
Eaton
TECO Corporation
BMarko Structures Inc.
Axis Solutions Pvt Ltd
Kasa Analgen
Panel Built Incorporated
These companies are focusing on modular innovation, smart grid integration, and strategic partnerships to enhance their market presence.
Enquiry Before Buying: <a href="https://www.alliedmarketresearch.com/purchase-enquiry/5708">https://www.alliedmarketresearch.com/purchase-enquiry/5708</a>
Conclusion
The Electrical House (E-House) Market is entering a high-growth phase, supported by rapid industrialization, demand for decentralized power, and renewable energy integration. With an expected valuation of \$2.3 billion by 2030, e-houses are set to play a pivotal role in modernizing power infrastructure across the globe.
☐☐ As industries and governments push for smarter, more efficient energy systems, E-House solutions are proving to be the reliable backbone of the future power grid.

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