

Global EHV Transmission Market Size Study & Forecast, by Range (800 kV – 1500 kV, 1500 kV – 3000 kV, and Above 3000 kV), Application (Subsea Transmission, Underground Transmission, Overhead Transmission), and Regional Forecasts 2025–2035

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Abstracts

The Global Extra High Voltage (EHV) Transmission Market is valued at approximately USD 17.87 billion in 2024 and is poised to grow at a CAGR of more than 5.00% during the forecast period of 2025 to 2035. As the global demand for efficient long-distance power transmission intensifies, the need for EHV infrastructure has become pivotal to modernizing power grids. EHV transmission systems, capable of transferring electricity over vast distances with minimal losses, are instrumental in ensuring energy reliability and sustainability. With the exponential rise in power generation from both conventional and renewable sources, particularly in remote areas, utilities and governments worldwide are increasingly shifting their focus towards robust EHV networks to bridge the gap between energy production and consumption centers.

In recent years, rising integration of renewable energy assets—especially offshore wind and solar farms—into national grids has underscored the significance of advanced EHV technologies. These high-capacity transmission lines are crucial to curbing transmission losses and accommodating bulk power flows over extended distances. Moreover, the surge in subsea and underground transmission initiatives across continents like Europe and Asia Pacific is accelerating the adoption of EHV systems. Technological advancements, such as high-temperature superconductors and real-time digital monitoring, are further enhancing transmission stability, efficiency, and responsiveness—opening new avenues for market expansion. Additionally, the global push toward energy decarbonization, coupled with investments in smart grid development, is reinforcing the need for reliable, scalable, and high-voltage

transmission infrastructure.

Regionally, North America commanded a substantial market share in 2024, fueled by strategic infrastructure upgrades, interconnection projects, and decarbonization mandates spearheaded by both federal and state governments. The United States continues to lead with initiatives aimed at reinforcing grid resilience against climate-induced disruptions while enabling smoother integration of renewables into its national transmission backbone. Meanwhile, the Asia Pacific region is projected to grow at the fastest pace over the forecast timeline, driven by energy access programs, rapid industrialization, and large-scale investments in grid modernization in countries such as China, India, and Japan. Europe also plays a vital role in the global landscape, with its cross-border energy transmission goals and transition toward a pan-European supergrid that can efficiently channel renewable energy across member states.

Major market player included in this report are:

Siemens Energy AG

Hitachi Energy Ltd.

General Electric Company

Toshiba Corporation

ABB Ltd.

Mitsubishi Electric Corporation

Schneider Electric SE

Bharat Heavy Electricals Limited (BHEL)

Prysmian Group

Nexans SA

Sumitomo Electric Industries, Ltd.

Sterlite Power Transmission Limited

NKT A/S

LS Cable & System Ltd.

TBEA Co., Ltd.

Global EHV Transmission Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast Period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players.

The detailed segments and sub-segments of the market are explained below:

By Range:

Global EHV Transmission Market Size Study & Forecast, by Range (800 kV – 1500 kV, 1500 kV – 3000 kV, and Above...

800 kV – 1500 kV

1500 kV – 3000 kV

Above 3000 kV

By Application:

Subsea Transmission

Underground Transmission

Overhead Transmission

By End-User:

Electric Utility Companies

Renewable Energy Developers

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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