

EHV Transmission Market Set to Reach USD 9.5 Billion by 2034 Driven by Energy Demand and Infrastructure Growth

Discover insights into the EHV Transmission Market, highlighting key growth drivers, regional trends, major challenges, and emerging opportunities

VANCOUVER, BC, CANADA, August 28, 2025 /EINPresswire.com/ -- The global [Extra High Voltage \(EHV\) Transmission Market](#) is on track for steady growth,

fueled by rising electricity needs, infrastructure development, and the rapid shift toward renewable energy. Valued at USD 6.0 billion in 2024, the market is expected to expand to USD 9.5 billion by 2034, growing at a compound annual growth rate (CAGR) of 4.80% over the decade.



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Regional Highlights

Asia Pacific is projected to hold the largest share of the EHV transmission market throughout the forecast period, supported by rapid urbanization, expanding populations, and government investments in modern power infrastructure. The Middle East & Africa is expected to be the fastest-growing region, propelled by large-scale infrastructure projects and diversification of energy resources.

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Market Drivers

Infrastructure development and technological progress are at the core of this market's expansion. Governments around the world are investing heavily in strengthening power transmission networks. For example, the U.S. Department of Energy has allocated USD 13 billion for grid modernization projects, while China's Belt and Road Initiative plans to invest over USD 1 trillion in infrastructure projects, including electricity transmission, by 2030.

Technological advancements are reshaping the industry, especially with the adoption of digital substations. These systems increase reliability, reduce operational costs by up to 30%, and improve overall efficiency. Companies such as Siemens are introducing innovative digital substations that integrate smoothly with existing grids, helping utilities move toward smarter, more efficient networks.

The transition to renewable energy is also a strong driver. Policies like the European Union's Green Deal aim to achieve carbon neutrality by 2050, requiring large-scale upgrades to power infrastructure. Growing investments in renewable capacity—expected to rise by 15% annually—are pushing demand for modern EHV transmission solutions.

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Market Restraints

Despite its growth potential, the EHV transmission market faces hurdles. The installation of transmission lines is capital-intensive, with costs ranging from USD 1 million to USD 3 million per kilometer depending on terrain and technology. Such high costs are a challenge, especially for developing regions.

Environmental concerns also create resistance. Transmission projects can disrupt ecosystems and landscapes, leading to strict regulations and lengthy approval processes. In Europe and the United States, regulatory compliance can add up to 20% to overall project costs. In some cases, public opposition has caused delays of several years, as seen in Germany. These financial and environmental challenges remain major restraints for market expansion.

Segmentation Insights

By Product Type:

Overhead Transmission Lines dominate the market, valued at USD 3.5 billion in 2024, and are expected to reach USD 5.0 billion by 2034 (CAGR 3.6%). Their cost-effectiveness and ease of installation keep them the most widely used option.

Underground Transmission Lines are the fastest-growing segment, with a CAGR of 6.2%, rising from USD 1.2 billion in 2024 to USD 2.2 billion by 2034. Growth is driven by demand for reliable, less visually intrusive systems in urban settings.

Submarine Transmission Lines are smaller in size but vital for offshore wind projects, projected to grow from USD 0.5 billion in 2024 to USD 0.8 billion by 2034 (CAGR 4.8%).

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By Application:

Power Distribution leads with USD 3.0 billion in 2024, forecasted to reach USD 4.2 billion by 2034 (CAGR 3.5%). Urbanization and the spread of smart grids drive this growth.

Renewable Energy Integration is the fastest-growing segment, expanding at 7.0% CAGR from USD 1.0 billion in 2024 to USD 2.0 billion by 2034. Rising solar and wind projects require efficient transmission solutions.

Industrial Applications are expected to grow steadily from USD 2.0 billion in 2024 to USD 3.3 billion by 2034 (CAGR 5.0%), driven by manufacturing and mining demand for reliable power.

By End User:

Utilities represent the largest share, expected to grow from USD 4.0 billion in 2024 to USD 6.0 billion by 2034 (CAGR 4.2%). Demand is driven by infrastructure upgrades and renewable integration.

Industrial Sector is the fastest-growing end-user, forecasted to rise from USD 1.5 billion in 2024 to USD 2.6 billion by 2034 (CAGR 5.5%), due to growing energy needs in industries like petrochemicals and manufacturing.

Government and Municipalities will expand from USD 0.5 billion in 2024 to USD 0.9 billion by 2034 (CAGR 5.2%), supported by electrification projects and urban development.

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By Technology:

AC Transmission remains the largest segment, growing from USD 4.5 billion in 2024 to USD 6.5 billion by 2034 (CAGR 3.8%), largely due to its affordability and widespread use.

DC Transmission is the fastest-growing segment, set to double from USD 1.5 billion in 2024 to USD 3.0 billion by 2034 (CAGR 6.5%). Its efficiency in long-distance and renewable integration projects is fueling adoption.

Key Market Trends

Digital Substations: Expected to lower operating costs by 30% and increase system reliability by 25%.

Smart Grid Integration: Projected to expand by 20% annually, boosting demand for advanced transmission systems.

IoT in Grid Management: Enables real-time monitoring, enhancing efficiency and reliability.

Ehv Transmission Competitive Strategies & Notable Developments

- ABB
- Siemens
- General Electric
- Schneider Electric
- Hitachi
- Toshiba
- State Grid Corporation of China
- Mitsubishi Electric
- Alstom
- Prysmian Group

Ehv Transmission Market Segmentation

By Product Type

Overhead Transmission Lines

Underground Transmission Lines

Submarine Transmission Lines

By Application

Power Distribution

Industrial Applications

Renewable Energy Integration

By End User

Utilities

Industrial Sector

Government and Municipalities

By Technology

AC Transmission

DC Transmission

By Region

North America

Europe

Asia Pacific

Latin America

Middle East & Africa

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