

# **North America Electric Power Transmission and Distribution Equipment Market By Product (Cables & Lines, Switchgear, Transformers, Insulators & Fittings, Others), By Sales Channel (Direct Channel, Indirect Channel), By Country, By Competition, Forecast and Opportunities 2020-2030F**

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## **Abstracts**

### Market Overview

The North America Electric Power Transmission and Distribution Equipment Market was valued at USD 87.05 billion in 2024 and is projected to reach USD 121.59 billion by 2030, growing at a CAGR of 5.73% during the forecast period. This market encompasses equipment critical for transporting electricity from generation sites to end users, including transformers, circuit breakers, switches, cables, and other infrastructure components. Growth in this sector is being fueled by increasing electricity demand due to population growth and rapid urbanization. To meet these needs, governments and utilities are making substantial investments in modernizing outdated infrastructure and expanding grid capabilities. The rising share of renewable energy sources in the power mix is driving upgrades to grid systems, enabling better integration of variable energy generation. The adoption of smart grids and energy storage technologies is enhancing reliability and operational efficiency. Furthermore, regulatory initiatives supporting clean energy transitions are accelerating the deployment of advanced power distribution equipment. With continued innovation, infrastructure investment, and sustainability goals, the North America market is on a strong trajectory toward modernization and resilience.

### Key Market Drivers

## Growing Demand for Reliable Electricity Supply

The rising demand for dependable electricity supply is a primary driver of the North America Electric Power Transmission and Distribution Equipment Market. Urbanization, industrial growth, and a rising population across the U.S. and Canada are putting increased pressure on existing grids. These networks, many of which were built decades ago, are being pushed beyond their intended capacity. In response, utilities are investing in grid modernization projects, with a strong focus on upgrading infrastructure in urban hubs. The adoption of smart grid technologies is enhancing real-time monitoring and facilitating quicker responses to outages. Additionally, the growing integration of renewable energy sources like wind and solar requires sophisticated grid components capable of managing intermittent power flows. Equipment such as transformers, switchgear, and smart meters are seeing heightened demand as utilities work to ensure grid stability and efficiency. Climate change-related weather events have further emphasized the need for resilient grid infrastructure. With both public and private sector backing, the move toward grid enhancement is expected to continue at a rapid pace, supporting long-term market growth.

## Key Market Challenges

### Aging Infrastructure and Maintenance Challenges

A critical challenge in the North America Electric Power Transmission and Distribution Equipment Market is the aging infrastructure. Many transmission lines, substations, and transformers across the U.S. and Canada are nearing or have exceeded their designed operational lifespan. These outdated systems are increasingly prone to failures, leading to higher maintenance costs and reduced reliability. The current infrastructure often lacks the capacity to accommodate the increasing load driven by economic growth and rising electricity consumption. Additionally, the integration of modern energy solutions—such as electric vehicle charging networks and renewable sources—requires advanced systems incompatible with legacy components. Utilities face major financial and logistical hurdles in undertaking these large-scale upgrades. Securing funding and navigating regulatory approvals further slow down modernization efforts. As a result, delays in infrastructure replacement increase the risk of power disruptions and hamper the market's ability to meet evolving energy demands efficiently. Overcoming these challenges will require substantial investment and strategic planning over the coming years.

## Key Market Trends

### Transition to Smart Grids for Enhanced Efficiency

The shift toward smart grids is a major trend transforming the North America Electric Power Transmission and Distribution Equipment Market. Smart grids incorporate digital communication and automation to optimize electricity flow and enhance grid reliability. These systems utilize smart meters, sensors, and advanced control technologies to monitor power usage and grid conditions in real-time. This facilitates faster fault detection, improved energy distribution, and enhanced responsiveness during peak demand periods. Additionally, smart grids empower consumers with tools to monitor and manage their electricity consumption, aligning with broader energy conservation goals. The growing deployment of smart grid infrastructure supports the integration of renewable energy and energy storage solutions, ensuring greater grid flexibility and sustainability. Backed by favorable government policies and utility investments, the trend toward digitalized, intelligent grid systems is accelerating. The adoption of smart grid technologies is expected to reduce operating costs, increase reliability, and play a pivotal role in modernizing North America's energy infrastructure.

## Key Market Players

General Electric Company

Siemens AG

Eaton Corporation plc

Schneider Electric SE

ABB Ltd.

Mitsubishi Electric Corporation

Toshiba Corporation

Hitachi, Ltd.

## Report Scope:

*North America Electric Power Transmission and Distribution Equipment Market By Product (Cables & Lines, Switch...*

In this report, the North America Electric Power Transmission and Distribution Equipment Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

North America Electric Power Transmission and Distribution Equipment Market,  
By Product:

Cables & Lines

Switchgear

Transformers

Insulators & Fittings

Others

North America Electric Power Transmission and Distribution Equipment Market,  
By Sales Channel:

Direct Channel

Indirect Channel

North America Electric Power Transmission and Distribution Equipment Market,  
By Country:

United States

Canada

Mexico

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the North America Electric Power Transmission and Distribution Equipment Market.

### Available Customizations:

North America Electric Power Transmission and Distribution Equipment Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

#### Company Information

Detailed analysis and profiling of additional market players (up to five).

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