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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

https://marketpublishers.com/r/N3E7418397D1EN.html
Date: May 2025
Pages: 120
Price: US$ 4,000.00 (Single User License)
ID: N3E7418397D1EN

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 t%li%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 t%li%end users, including transformers, circuit breakers, switches, cables, and other infrastructure components. Growth in this sector is being fueled by increasing electricity demand due t%li%population growth and rapid urbanization. T%li%meet these needs, governments and utilities are making substantial investments in modernizing outdated infrastructure and expanding grid capabilities.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 t%li%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

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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 t%li%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 t%li%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 t%li%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 t%li%failures, leading t%li%higher maintenance costs and reduced reliability. The current infrastructure often lacks the capacity t%li%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 t%li%meet evolving energy demands efficiently. Overcoming these challenges will require substantial investment and strategic planning over the coming years.

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Key Market Trends

Transition t%li%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 t%li%optimize electricity flow and enhance grid reliability. These systems utilize smart meters, sensors, and advanced control technologies t%li%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 t%li%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 t%li%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:

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In this report, the North America Electric Power Transmission and Distribution Equipment Market has been segmented int%li%the following categories, in addition t%li%the industry trends which have als%li%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.

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Available Customizations:

North America Electric Power Transmission and Distribution Equipment Market report with the given market data, TechSci Research offers customizations according t%li%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 t%li%five).

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