

# North America Electric Insulator Market Size and Forecast (2021-2031), Country Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Pin Insulator, Suspension Insulator, Molded Insulator, and Others), Material Type (Ceramic, Composite, Glass, and Others), Voltage (Medium, High, and Low), Application (Cable, Transformer, Switchgear, Busbar, Surge Protection Device, and Others), End User (Utilities, Industries, and Others), and Geography

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## Abstracts

The North America Electric Insulator market size is expected to reach US\$ 5.51 billion by 2031 from 3.48 billion in 2023, at an estimated CAGR of 5.9% from 2023 to 2031.

The North America electric insulator market is segmented into the US, Canada, and Mexico. The region is witnessing a rise in the demand for electricity owing to the economic and population growth. According to the International Energy Agency (IEA), in 2021, the total electricity production was 5,397,346 GWh, 19% of the global share. Also, as per the same source, natural gas is the largest source of electricity generation in the region, contributing ~36% of the total electricity generation. Similarly, hydropower, wind, and solar PV contribute 12.8%, 8.1%, and 3.1%, respectively, in the total electricity generation.

To increase electricity generation from renewable sources, the governments of various countries in the region are taking different initiatives. For instance, on 4th April 2024, the

US Department of the Interior announced an investment of US\$ 19 million to install solar panels over irrigation canals in Oregon, California, and Utah, which will simultaneously decrease the evaporation of critical water supplies and advance clean energy goals. Similarly, in September 2023, the government of Canada announced it would support the funding for 12 clean energy projects across Alberta. The funding for these projects has been provided through the Smart Renewables and Electrification Pathways Program (SREP). The program will invest ~US\$ 3.32 billion (CAD 4.5 billion) by 2035 for smart renewable energy and electrical grid modernization projects. Thus, such government initiatives in renewable electricity generation are expected to fuel the growth of the electrical insulators market in the region.

The North America Electric Insulator market analysis has been carried out by considering the following segments: type, material type, voltage, application, and end user.

Based on type, the North America electric insulator market is segmented into pin insulators, suspension insulators, molded insulators, and others. A pin insulator is widely used in power transmission lines and has a voltage capacity of up to 33 kV. This type of insulator is widely preferred because of its high mechanical strength, cost-effectiveness, good creepage distance, and easy maintenance. Also, it can be used on a high-voltage transmission line. Manufacturers that offer pin insulators include Aditya Birla Group, NGK Insulators, Ltd., and others; they offer pin insulators of mechanical strength of up to 10 KN and creepage distance of up to 1080 mm. Further, with the increase in the number of transmission line projects, the demand for pin insulators is also increasing. For instance, in October 2023, the Biden-Harris Administration announced US\$1.3 billion to build the nation's electric transmission and released a new study identifying critical grid needs. This increases the demand for electric insulators.

Moreover, factors such as the aging grid and transmission infrastructure propel the North America Electric Insulator market growth. Also, the expansion of transmission and distribution infrastructure is expected to bring new North America Electric Insulator market trends in the coming years.

Based on material type, the market is segmented into ceramic, composite, glass, and others. Ceramics (also known as porcelain) is made from inorganic, non-metallic materials by the action of heat. Ceramic is used in electric insulators due to its ability to sustain high temperatures. Also, it is a good thermal insulator, and it does not expand greatly when heated. The manufacturers that provide ceramics material-type insulators are Fujian Ruisen New Materials Co., Ltd., K-tech Ceramics; and Ortech Advanced

Ceramics, among others. Ceramic is the most commonly used material in overhead line insulators. It is used in every type of insulator, including shackle insulators, pin insulators, and suspension insulators. Due to their extreme temperature stability and dielectric properties, ceramic material-type electric insulators are highly preferred.

Hitachi Energy Ltd, Hubbell Inc., MacLean Power LLC, TE Connectivity Ltd, Lapp Insulators Group, Powertelcom; Power Grid Components Inc., Peak Demand Inc., Victor Insulators, Inc., and CK Composites Co., LLC are among the key players profiled in the North America Electric Insulator market report.

The North America Electric Insulator market forecast is estimated on the basis of various secondary and primary research findings such as key company publications, association data, and databases. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the North America Electric Insulator market growth. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the North America Electric Insulator market.

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