

North America Nonwovens for Energy Applications Market Forecast to 2031 - Regional Analysis - by Type (Titanium and Stainless Steel) and End User (Hospitals, Specialty Clinics and Others)

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Abstracts

The North America nonwovens for energy applications market was valued at US\$ 709.21 thousand in 2023 and is expected to reach US\$ 4,448.75 thousand by 2031; it is estimated to register a CAGR of 25.8% from 2023 to 2031.

Increasing Demand from Renewable Energy Sector Fuels North America Nonwovens for Energy Applications Market

The renewable energy sector is experiencing rapid growth due to widespread efforts to combat climate change and enhance energy security. According to the International Energy Agency 2023 report, the global renewable power capacity is expected to increase in the next five years, of which solar PV and wind energy accounted for 96% of power capacity, as their power generation costs are lower than fossil and non-fossil alternatives. Solar PV and wind energy capacity are forecasted to double by 2028 compared to 2022. The continuous growth in the economic attractiveness of renewable energy industry coupled with increasing government policy support, especially in the US expected to accelerate capacity growth in the coming years. As per the Global Wind Energy Council, in 2022, a new wind power capacity of 77.6 GW was connected to power grids worldwide, recording a total installed wind capacity of 906 GW and registering growth of 9% compared with 2021. Nonwoven separators are crucial in advanced battery technologies, as these separators improve safety, performance, and longevity for integrating renewable energy into the grid. Thus, the increasing demand from the renewable energy sector drives the North America nonwovens for energy applications market .

North America Nonwovens for Energy Applications Market Overview

The US marks the presence of several institutions and companies exploring nonwoven applications in the energy sector. Nonwovens are used in battery separators, as this material offers excellent mechanical strength, thermal stability, and chemical resistance. Nonwovens are used in fuel cells and supercapacitors. In October 2023, Florida Power & Light Company (FPL) announced the construction milestone for the clean hydrogen pilot project in Florida. NextGen Hydrogen Hub will help the company explore using clean hydrogen to offset the use of natural gas to run a conventional power plant. In June 2024, Honda advances its hydrogen strategy with the production launch of fuel cell electric vehicles in the US.

The emphasis on renewable energy has also spurred the utilization of nonwovens in wind energy components and fuel cell applications. As per the US Department of Clean Energy, the US National Clean Hydrogen Strategy and Roadmap explores opportunities for clean hydrogen to contribute to national decarbonization goals and provides highlights of hydrogen production, transport, storage, and utilization in the US. It offers a strategic framework for achieving large-scale production and utilization of clean hydrogen, examining scenarios for 2030, 2040, and 2050. Thus, the development in the electric vehicles industry, as well as green hydrogen technology, is expected to boost the demand for nonwovens for energy applications during the forecast period.

North America Nonwovens for Energy Applications Market Revenue and Forecast to 2031 (US\$ Thousand)

North America Nonwovens for Energy Applications Market Segmentation

The North America nonwovens for energy applications market is categorized into type, application, and country.

Based on type, the North America nonwovens for energy applications market is categorized into carbon fiber, titanium fiber, and others. The titanium fiber segment held the largest market share in 2023.

In terms of application, the North America nonwovens for energy applications market is segmented into battery, Fuel Cell Gas Diffusion Layer (GDL), PTL fuel, and wind energy. The Fuel Cell Gas Diffusion Layer (GDL) segment held the largest market share in 2023.

By country, the North America nonwovens for energy applications market is segmented into the US, Canada, and Mexico. The US dominated the North America nonwovens for energy applications market share in 2023.

Technical Fibers Products, Tex Tech Industries Inc, Freudenberg Group, SGL Carbon SE, Lydall Inc, AstenJohnson Inc, Hoftex Group AG, and Sandler AG are some of the leading companies operating in the North America nonwovens for energy applications market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the North America nonwovens for energy applications market.

Highlights key business priorities in order to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the North America nonwovens for energy applications market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth North America market trends and outlook coupled with the factors driving the North America nonwovens for energy applications market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

The List of Companies - North America Nonwovens for Energy Applications Market

Technical Fibers Products

Tex Tech Industries Inc

Freudenberg Group

SGL Carbon SE

Lydall Inc

AstenJohnson Inc

Hoftex Group AG

Sandler AG

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