

Wind Blade Recycling Market by Recycling Method (Mechanical Recycling, Thermal Recycling, Chemical Recycling), Blade Material (Glass Fiber, Carbon Fiber), End-Use Industry, and Region - Forecast to 2029

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Abstracts

The wind blade recycling market is estimated at USD 68,235 thousand in 2024 and is projected to reach USD 370,935 thousand by 2029, at a CAGR of 40.3% from 2024 to 2029. Carbon fiber OEMs based in China and Japan are focusing on reducing their carbon footprints by collaborating with wind blade recycler, and innovating in recycling wind blades.

“In terms of value, mechanical recycling accounted for the largest share of the overall Wind Blade Recycling market.”

In 2023, Mechanical recycling in wind blade recycling market have the largest market share due to its cost-effectiveness feature over other recycling processes. As of now, the mechanical recycling method has the highest Technology readiness level (TRL), which means that it can be used to recycle wind blades at commercial levels. Many companies use this method to recycle wind blade material and use them as fillers in cement.

“During the forecast period, the Wind Blade Recycling market in Automotive industry is projected to be the fastest growing region.”

During the forecast period from 2024 to 2029, the automotive industry is expected to be the fastest-growing end-use industry in the wind blade recycling market. The recycled wind blade material especially carbon fiber can be used in interior parts of vehicles. Carbon fiber recyclers are trying to extract virgin quality carbon fiber from wind blades

which can be sourced back to the automotive product manufacturers, which will help the OEMs to reduce their carbon footprints. Additionally, European countries have made it a mandate that around 25% of automotive material should be recycled material. Thus, as recycling technologies advance the demand for high-quality recycled material from wind blades will increase from the automotive industry.

“During the forecast period, the Wind Blade Recycling market in Asia Pacific region is projected to be the largest region.”

The growth of wind blade recycling in Asia Pacific is fuelled by the presence of a large number of wind installations in this region, especially China and India. A large number of wind turbines in China are expected to decommission in the coming decade, thus key players in wind blade recycling are trying to enter the Asia Pacific market. Major wind industry players like Goldwind and Chn Energy Investment Group from China have entered the wind blade recycling market.

This study has been validated through primary interviews with industry experts globally. These primary sources have been divided into the following three categories:

By Company Type- Tier 1- 55%, Tier 2- 25%, and Tier 3- 20%

By Designation- C Level- 50%, Director Level- 30%, and Others- 20%

By Region- North America- 25%, Europe- 50%, Asia Pacific- 20%, Middle East & Africa (MEA)-2%, Latin America- 3%.

The report provides a comprehensive analysis of company profiles:

Prominent companies include Veolia (France), Acciona (Spain), Stena Metal AB (Sweden), Vestas (Denmark), Iberdrola, S.A. (Spain), Makeen Energy (Denmark), Kuusakoski OY (Finland), Renercycle (Spain), Continuum (Denmark), Holcim Group (Switzerland), Alliant Energy Corporation (US), Plaswire Ltd (Ireland), Goldwind (China), Chn Energy Investment Group (China), and Enel SpA (Italy).

Research Coverage

This research report categorizes the wind blade recycling market By Blade Material (Glass fiber, Carbon Fiber), By Recycling Method (Mechanical Recycling, Thermal

Wind Blade Recycling Market by Recycling Method (Mechanical Recycling, Thermal Recycling, Chemical Recycling),...

Recycling, Chemical Recycling), End-Use Industry (Construction, Automotive, Electronic & Consumer Goods, and Other End-Use Industries), Region (North America, Europe, Asia Pacific, the Middle East & Africa, and Latin America). The scope of the report includes detailed information about the major factors influencing the growth of the wind blade recycling market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted in order to provide insights into their business overview, solutions, and services, key strategies, contracts, partnerships, and agreements. Service launches, mergers and acquisitions, and recent developments in the wind blade recycling market are all covered. This report includes a competitive analysis of upcoming startups in the wind blade recycling market ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall Wind Blade Recycling market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Rising number of decommissioned blades), restraints (High cost of recycling processes, Stringent regulatory environment), opportunities (Growing demand from automotive industries, Growing focus on recyclable resins), and challenges (Low technology readiness levels of recycling methods, Landfilling of wind blades is a cost-effective alternative to recycling) influencing the growth of the Wind Blade Recycling market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and service launches in the wind blade recycling market.

Market Development: Comprehensive information about lucrative markets – the report analyses the wind blade recycling market across varied regions.

Market Diversification: Exhaustive information about services, untapped

geographies, recent developments, and investments in the wind blade recycling market

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like Veolia (France), Acciona (Spain), Stena Metal AB (Sweden), Vestas (Denmark), Iberdrola, S.A. (Spain), Makeen Energy (Denmark), Kuusakoski OY (Finland), Renercycle (Spain), Continuum (Denmark), Holcim Group (Switzerland), Alliant Energy Corporation (US), Plaswire Ltd (Ireland), Goldwind (China), Chn Energy Investment Group (China), and Enel SpA (Italy), Gjenkraft AS (Norway), Kingo Wind (Denmark), Carbon River Inc (US), Global Fiberglass Solution (US), Wind Power Solutions, LLC (US), Refiber Aps (Denmark), Eurecum Gmbh & Co.Kg (Germany), Reviabile Energy (US), EDF Group (France), Neowa Gmbh (Germany), among others in the Wind Blade Recycling market.

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