

Global Onshore Wind Turbine Scrapping and Recycling Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Onshore Wind Turbine Scrapping and Recycling market size was valued at USD 30 million in 2023 and is forecast to a readjusted size of USD 275.8 million by 2030 with a CAGR of 37.2% during review period.

Wind turbines are made up of many materials that have substantial salvage value at the end of its operational life and are recyclable. In fact, 80-94% of a wind turbine's mass consists of easily recycled materials, such as steel / iron (approximately 88% of a turbine's mass), aluminum (approximately 0.7%), and copper (approximately 2.7%). Other wind turbine components such as blades, nacelle covers and rotor covers are made of up composite materials, mostly fiberglass and carbon fiber, which, while nontoxic and safe, are more difficult to process for other purposes. However, these components make up roughly only 8% of a wind turbine's total mass.

In addition, as described more below, the wind energy industry and other partners are expanding options to recycle and reuse even these historically tougher to process materials. While wind energy projects are expected to operate for 20 to 35 years, individual wind turbine components like rotor blades and covers may need upgrading or replacing sooner because of normal wear from exposure to the elements, or improvements in technology.

The major global manufacturers of onshore wind turbine scrapping and recycling are HJHansen Recycling Group, Schnitzer Steel, Belson Steel, Veolia, Stena Recycling, Carbon Rivers, and Fengnuo Environmental, etc. The largest producer is HJHansen Recycling Group, with a market share of 15.71%. Global onshore wind turbine



scrapping and recycling production regions are mainly located in North America, Europe, China, Japan and so on. The consumer markets are mainly located in North America, Europe, China, etc., with Europe having the largest market share at 85.73%. In terms of its product category, mechanical processes has the highest market share of over 99%. In terms of its application, the steel&iron industry is its top application area, accounting for 54.07% of the market share, followed by copper industry and permanent magnet industry, with 29.7% and 10.53% respectively.

The Global Info Research report includes an overview of the development of the Onshore Wind Turbine Scrapping and Recycling industry chain, the market status of Steel & Iron (Mechanical Processes, Thermal Processes), Copper (Mechanical Processes, Thermal Processes), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Onshore Wind Turbine Scrapping and Recycling.

Regionally, the report analyzes the Onshore Wind Turbine Scrapping and Recycling markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Onshore Wind Turbine Scrapping and Recycling market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Onshore Wind Turbine Scrapping and Recycling market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Onshore Wind Turbine Scrapping and Recycling industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Treatment Method (e.g., Mechanical Processes, Thermal Processes).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges



influencing the Onshore Wind Turbine Scrapping and Recycling market.

Regional Analysis: The report involves examining the Onshore Wind Turbine Scrapping and Recycling market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Onshore Wind Turbine Scrapping and Recycling market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Onshore Wind Turbine Scrapping and Recycling:

Company Analysis: Report covers individual Onshore Wind Turbine Scrapping and Recycling players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Onshore Wind Turbine Scrapping and Recycling This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Material (Steel & Iron, Copper).

Technology Analysis: Report covers specific technologies relevant to Onshore Wind Turbine Scrapping and Recycling. It assesses the current state, advancements, and potential future developments in Onshore Wind Turbine Scrapping and Recycling areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Onshore Wind Turbine Scrapping and Recycling market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation



Onshore Wind Turbine Scrapping and Recycling market is split by Treatment Method and by Material. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Treatment Method, and by Material in terms of value.

by Male	rial in terms of value.	
Market segment by Treatment Method		
ſ	Mechanical Processes	
-	Thermal Processes	
-	Thermo-chemical Processes	
Market segment by Material		
;	Steel & Iron	
(Copper	
,	Aluminum	
I	Permanent Magnet	
(Composites	
Market	segment by players, this report covers	
I	HJHansen Recycling Group	
;	Schnitzer Steel	
I	Belson Steel	
,	Veolia	

Stena Recycling



Carbon Rivers

Fengnuo Environmental

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Onshore Wind Turbine Scrapping and Recycling product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Onshore Wind Turbine Scrapping and Recycling, with revenue, gross margin and global market share of Onshore Wind Turbine Scrapping and Recycling from 2019 to 2024.

Chapter 3, the Onshore Wind Turbine Scrapping and Recycling competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Treatment Method and application, with consumption value and growth rate by Treatment Method, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024.and Onshore Wind Turbine Scrapping and Recycling market forecast, by regions, treatment



method and material, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Onshore Wind Turbine Scrapping and Recycling.

Chapter 13, to describe Onshore Wind Turbine Scrapping and Recycling research findings and conclusion.



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