

Green Steel Market CAGR 60.2% Size, Share, Trends, Growth, and Forecast 2024-2031 | Ansteel Group, ArcelorMittal

Green steel market is estimated to be valued at USD 4.33 Bn in 2024 and is expected to reach USD 117.13 Bn by 2031, exhibiting (CAGR) of 60.2% from 2024 to 2031

BURLINGAME, CA, UNITED STATES,
November 5, 2024 /EINPresswire.com/

-- The global Green Steel Market Report offers a comprehensive analysis from 2024 to 2031, encompassing all significant aspects. It assesses both current and future market opportunities within the Green Steel industry. This market is distinct from

product types, manufacturers, applications, and geographical locations. The report evaluates the Green Steel market based on key manufacturers and regional segments. Additionally, it includes supplier data such as revenue, costs, gross profits, business overviews, distribution channels, and insights from interviews, providing consumers with a deeper understanding of the competitive landscape.

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The "Green Steel" report, featuring a forecast from 2024 to 2031, provides a professional analysis for businesses based on historical data and future market opportunities. This report includes an evaluation of key producers in the enterprise sector, an assessment of marketing traders or distributors, development trends, production analysis, consumption volume and price analysis, as well as sales and market popularity. A concise overview of the Green Steel industry included in the report covers enterprise data analysis, policy evaluations, definitions, specifications, applications, and classifications.

Future opportunities of Green Steel Market:



Green Steel Market Overview

1. **Rising Demand for Sustainable Construction and Infrastructure Projects:** As global construction and infrastructure projects ramp up, the demand for sustainable building materials is expected to soar. Green steel, which is produced using hydrogen or electric arc furnaces powered by renewable energy, offers a much lower carbon footprint compared to traditional steelmaking processes. With increasing pressure from governments, investors, and consumers to reduce carbon emissions in the building sector, the green steel market is positioned to benefit from a growing preference for eco-friendly construction materials. This is particularly true in regions like Europe, North America, and parts of Asia, where sustainability standards are becoming more stringent and public awareness of environmental impact is rising.

2. **Technological Innovations in Low-Carbon Steel Production:** The green steel sector is set to benefit from ongoing technological advancements that make low-carbon steel production more efficient and economically viable. Innovations like hydrogen-based direct reduction (DR) processes and electric arc furnaces (EAF) are revolutionizing the way steel is made. Hydrogen-based steelmaking, for instance, uses hydrogen as a reducing agent instead of carbon (which produces CO₂), thus significantly lowering emissions. Companies investing in or adopting these new technologies will be able to position themselves as leaders in the green steel market. As these technologies scale up and become more cost-competitive, the cost of green steel will decrease, enabling wider adoption across industries.

3. **Government Policies and Carbon Pricing Mechanisms:** Governments around the world are introducing more aggressive policies aimed at decarbonizing industries and meeting net-zero targets. Carbon pricing mechanisms, carbon taxes, and emission trading systems are all being implemented to penalize high-emission steel producers and incentivize the adoption of cleaner technologies. For instance, the European Union's Carbon Border Adjustment Mechanism (CBAM) is designed to impose tariffs on imported steel that does not meet specific carbon standards, creating a clear financial incentive for foreign producers to adopt green steelmaking practices. In markets where such policies are being introduced, demand for green steel will likely increase, offering a significant growth opportunity for companies that transition to cleaner, more sustainable production methods.

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Detailed Segmentation and Classification of the report (Market Size and Forecast – 2031, Y-o-Y growth rate, and CAGR):

□ By Type:

- By Process Type: Electric Arc Furnace (EAF), Basic Oxygen Furnace (BOF), and Direct Reduced Iron (DRI)
- By End-Use Industry: Construction, Automotive, Machinery, and Others (Shipbuilding,

Appliances, etc.)

□ By Regions and Countries

- o North America
- o Europe
- o Asia-Pacific
- o South America
- o Middle East & Africa

□ Following are the players analyzed in the report:

- Ansteel Group
- ArcelorMittal
- Boston Metal
- China Baowu Group
- Cleveland-Cliffs
- H2 Green Steel
- Nippon Steel Corporation
- Nucor Corporation
- Steel Dynamics Inc.
- United States Steel Corporation
- Jindal Stainless Limited
- Swiss Steel Group

□ Green Steel Market Study Objectives Are:

- Investigate and analyze the current status and future projections of the global Green Steel market, focusing on production, revenue, consumption, and historical data.
- The report details key manufacturers in the Green Steel sector, including their production, revenue, market share, SWOT analysis, and development strategies for the upcoming years.
- The Green Steel report categorizes data by regions, product types, manufacturers, and applications.
- Evaluate the market potential and advantages of the global Green Steel landscape, including opportunities, challenges, constraints, and risks.
- The Green Steel report highlights significant trends, driving forces, and influencing factors on both global and regional levels.
- Conduct a strategic analysis of each submarket, examining individual growth trends and their contributions to the overall Green Steel market.
- The report assesses competitive developments such as expansions, partnerships, new product launches, and acquisitions within the Green Steel market.

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□ Major Advantages of the Green Steel market Report:

- This report offers market leaders and newcomers precise revenue estimates for the overall Green Steel market and its key subsegments, with forecasts extending from 2024 to 2031.
- Stakeholders can utilize this report to enhance their understanding of the competitive landscape, allowing them to strategically position their businesses and formulate effective go-to-market strategies.
- The report equips stakeholders with important insights into Green Steel market dynamics, delivering a thorough analysis of key drivers, restraints, challenges, and opportunities, along with projections for future market developments.

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