

## **Decoding the 2050 Roadmap: BloombergNEF's Forecast on Emissions & Energy Transition**

March 17, 2025

Synopsis: BloombergNEF has estimated the investments and technological advancements required to meet global decarbonization goals by 2050. The study highlights the critical need for advancements in carbon capture and storage technologies and electrification of transport, which accounts for over 50% of the energy sector's emissions today. This article explores the projections laid out by BNEF, the challenges of transitioning to a net-zero economy, and the investments needed to overcome these obstacles.

## **China's Green Steel Revolution: The Birth of the Electric Arc Furnace Steel Sub-Association**

March 17, 2025

Synopsis: In February 2025, China's China Iron and Steel Association officially launched the Electric Arc Furnace Steel Sub-Association in Shijiazhuang, Hebei Province. This move is part of China's push to enhance sustainable steel production, focusing on increasing EAF steel output, reducing carbon emissions, and improving steelmaking efficiency. The sub-association aims to address challenges in the industry while promoting a greener, more efficient future for China's steel sector.

## **Europe's Green Steel Market: Modest Demand Amid Steady Premiums & Carbon Footprint Variations**

March 17, 2025

Synopsis: While the European green steel market remains relatively quiet with low demand, premium prices for low-emission steel are holding steady. Prices for green steel, defined by a low carbon footprint, continue to range from €200-300 per metric ton for the lowest emissions products. A breakdown of premiums reveals how carbon footprints influence market pricing, and the sector is seeing growing inquiries from Nordic countries and Spain.

## **Queensland's \$450 Million Green Steel Plant: Pioneering Sustainable Steel Production**

March 17, 2025

Synopsis: A transformative \$450 million green steel plant in Toowoomba, Queensland, will produce 350,000 metric tons of steel rebar annually, with advanced technology from Italian manufacturer Danieli that reduces carbon emissions by 85%. This project will significantly contribute to sustainable steel production, benefiting the local economy and the environment.

## **CBAM's Strain on India's Smaller Steel Players: Decarbonization or Disadvantage?**

March 17, 2025

Synopsis: The European Union's Carbon Border Adjustment Mechanism could hinder the decarbonization efforts of smaller steel producers in India due to financial and technological constraints. A recent study warns that, without adequate support for small and medium-sized enterprises, the transition to low-carbon steel could lead to a divided industry, with larger firms advancing while smaller ones lag behind.

## **Ternium's Groundbreaking Steel Plant: Leading Decarbonization in the Automotive Industry**

March 17, 2025

Synopsis: Ternium is setting a new standard in steel production with its first natural gas-based direct reduction plant and electric arc furnace. The plant will produce all grades of steel required for the automotive industry, while minimizing CO<sub>2</sub> emissions per metric ton of steel, marking a major step in decarbonizing heavy industries.

## **Brazil's Path to Carbon Neutrality: A \$6 Billion Investment by 2050**

March 17, 2025

Synopsis: Achieving carbon neutrality by 2050 could cost Brazil \$6 billion, according to BloombergNEF. This investment would be directed toward emission reduction technologies, such as carbon capture and storage, with the largest challenge being the electrification of transport, which currently makes up more than half of the country's energy sector emissions.

## **Jindal Stainless Ltd's Bold Decarbonization Commitment: Leading the Steel Industry to Net Zero**

March 17, 2025

Synopsis: Jindal Stainless Ltd is taking significant strides towards reducing its carbon footprint by committing to achieve net zero emissions by 2050, ahead of India's national target of 2070. The company has set ambitious mid-term goals, including a 50% reduction in carbon emissions. This article delves into JSL's sustainability goals, its challenges, and the steps it's taking to meet these targets, while also seeking government support to reduce ore and energy costs in the steel sector.

## **Swiss Steel Group Clinches EcoVadis Gold Medal: A Triumph in Sustainable Steel Production & Responsibility**

March 17, 2025

Synopsis: Swiss Steel Group has been awarded the prestigious EcoVadis gold medal, a recognition of its exemplary commitment to sustainability, environmental responsibility, and social ethics. This honor highlights the company's leadership in the steel industry, showcasing its focus on green steel production, carbon footprint reduction, and ethical business practices, positioning it among the top players in global sustainability.