

SAIL Durgapur Steel Plant's Groundbreaking Trial: Bamboo Biochar for Carbon-Neutral Steelmaking

March 1, 2025

Synopsis: SAIL Durgapur Steel Plant has initiated India's first-ever industrial-scale trial using bamboo biochar as an alternative to coke breeze in the sintering process. This pioneering trial aims to reduce CO₂ emissions and fossil fuel usage in steel production, positioning biochar as a crucial player in the decarbonization of the steel industry.

CPI: Scaling Transition Finance: Unlocking the Future of Green Steel in India's Industrial Decarbonization

March 1, 2025

Synopsis: India's iron and steel sector is the largest industrial source of carbon emissions in the country and plays a crucial role in the country's economic development. With increasing demand for steel and a growing need to reduce carbon emissions, India faces the challenge of decarbonizing its steel production. This article highlights a discussion paper that presents a comprehensive strategy to scale transition finance for India's iron and steel sector, offering actionable recommendations for developing a green industrial transition framework to meet India's net-zero emissions target by 2070.

US Steel Industry's Bright Future: EAF Steelmakers Poised to Lead in Decarbonization & Competitiveness

March 1, 2025

Synopsis: A recent study by Laplace Conseil reveals that electric arc furnace steelmakers in the U.S. have access to sufficient domestic scrap to produce nearly all the steel the country needs, reducing the reliance on blast furnaces. EAF steel production already constitutes 70% of the U.S. steel output and is expected to rise to 90% by 2040, with significant benefits for competitiveness and environmental sustainability.

Blastr Green Steel Partners with Aurora Infrastructure to Drive Sustainable Steel Production in Finland

March 1, 2025

Synopsis: Blastr Green Steel has signed a Memorandum of Understanding with Aurora Infrastructure for a build, own, and operate agreement to support the electricity distribution facilities for Blastr's planned steel plant in Inkoo, Finland. This collaboration is a significant step in advancing Blastr's low-carbon steel production process, which aims to reduce CO₂ emissions by 90% compared to traditional steelmaking methods.

Acerinox's Decarbonization Journey: Innovations in Sustainability & Eco-Excellence

March 1, 2025

Synopsis: Acerinox is pushing forward its commitment to decarbonization through a series of ambitious steps outlined in its 2024 Decarbonization Plan. With a focus on energy efficiency, renewable energy, and emission reductions, the company has set more ambitious goals, aiming for a 45.3% reduction in Scope 1 and 2 emissions by 2030. In addition, Acerinox launched EcoACX®, a sustainable product that offers a 50% reduction in CO₂ emissions, exemplifying the company's commitment to the environment. By aligning its goals with science-based targets, Acerinox is setting a new benchmark for sustainability in the stainless steel industry.

Tata Steel Pioneers EV Deployment in Coal Mines for Carbon Cuts & Cost Reduction

March 1, 2025

Synopsis: On February 28, 2025, Tata Steel Limited launched a new initiative to deploy electric vehicles at its Ramgarh coal mines as part of its efforts to reduce carbon emissions and lower operational costs. Initially, 36 EVs have been introduced to the mines, with significant reductions in emissions already achieved. The company is also trialing the use of LNG-based dump trucks across several mining locations to further cut its carbon footprint.

Pioneering Sustainability: Rio Tinto's Groundbreaking Biofuel Trial Powers Pilbara Iron Ore Operations

March 1, 2025

Synopsis: In a significant move towards sustainability, Rio Tinto has completed its first biofuel trial in Australia, using renewable diesel across its Pilbara operations. The trial, conducted in collaboration with Neste and Viva Energy, aimed to reduce carbon emissions and explore alternative energy solutions for its mining, rail, and port operations. This initiative is part of Rio Tinto's broader goal to achieve a 50% reduction in Scope 1 and 2 emissions by 2030 and reach net zero by 2050.