Feralpi Drives Sustainable Steel Production with €170 Million Green Loan

February 26, 2025

Synopsis: Feralpi, an Italian steel manufacturer, has secured a €170 million sustainability-linked loan to boost its low-emission steel production capabilities. The loan, sourced from a consortium of major banks, will help the company achieve its ambitious environmental goals as part of its 2022-2026 business plan. This investment supports Feralpi's commitment to reducing CO2 emissions while expanding its production of green steel products, setting the stage for greater industry leadership in sustainability.

Çolakoğlu Metalurji Joins Global Steel Climate Council to Propel Green Steel Innovation

February 26, 2025

Synopsis: Çolakoğlu Metalurji, a leader in sustainable steel production, has joined the Global Steel Climate Council (GSCC) to contribute to the development of low-carbon steel production standards. This new membership reinforces the company’s commitment to reducing emissions and adopting cleaner, safer processes in its steel production, aligning with global sustainability efforts and climate goals.

Transforming Steel Production: The Role of Cobalt Catalysts, Hydrogen, and Renewables in Reducing Carbon Emissions

February 26, 2025

Synopsis: Steel production, essential for modern infrastructure and economic progress, is one of the largest contributors to global carbon emissions, producing over 3.7 billion metric tons of CO2 annually. However, the industry is on the verge of a green revolution. Hydrogen-based direct reduction of iron, combined with green hydrogen, cobalt-based catalysts, and renewable energy, offers a promising path to decarbonize steelmaking. Research led by Prof. Arnab Dutta from IIT Bombay is advancing technologies that could significantly reduce the carbon footprint of steel production, making the process cleaner and more sustainable.

GRP Pioneers Zero Carbon Steel Production in Asia with Revolutionary Deal for Sustainable Hot Rolled Coils

February 26, 2025

Synopsis: Gunung Raja Paksi Tbk (GRP), Indonesia's largest privately owned steel manufacturer, has signed a landmark multi-million-dollar deal with Primetals Technologies to become Asia's first supplier of zero carbon endless hot rolled coil (eHRC) to Europe. This partnership integrates the innovative Arvedi ESP technology, enabling GRP to produce steel with zero direct carbon emissions by 2027. GRP’s

transition to low-carbon steel production is poised to meet EU carbon border adjustment requirements and bolster its competitive advantage in the global market.

SSAB & Fassi Forge Path Toward Sustainable Cranes with Fossil-Free Steel Partnership

February 26, 2025

Synopsis: SSAB and Fassi have partnered to deliver cranes with minimal carbon emissions by utilizing fossil-free steel. This collaboration focuses on steel production using both iron ore and recycled scrap, significantly reducing CO2 footprints in Fassi's hydraulic and truck-mounted cranes. The deal marks an advancement in sustainability and innovation, highlighting SSAB's commitment to reducing the environmental impact of steel production.

Radius Recycling: Pioneering Low-Carbon Steel for a Sustainable Future in Infrastructure

February 26, 2025

Synopsis: Radius Recycling, a major North American manufacturer of recycled metal products, is revolutionizing steel production with its low-carbon steel products. By sourcing most of its feedstock from its own recycling operations and using carbon-free hydroelectricity to power its electric arc furnace, Radius is making significant strides in reducing energy consumption, water usage, and overall carbon emissions, providing essential steel products for infrastructure projects.

Wales' Steel Future Shaped by Investment and Green Opportunities

February 26, 2025

Synopsis: During a recent visit to Port Talbot, Welsh Conservative politicians Darren Miller and Samuel Kurtz met with Rajesh Nair, CEO of the steelworks, to discuss the future of the £1.25 billion investment in the steel industry. The discussions focused on sustainability, economic growth, and the role of steel in the UK's future economy, with specific emphasis on emerging opportunities such as floating offshore wind and the Celtic Freeport. The politicians underscored the need for a diverse, skilled workforce and an environment that supports both manufacturing and business development in Wales.

Xugong Automobile Manufacturing Secures USD 881 Million for Pioneering New Energy Heavy Trucks

February 26, 2025

Synopsis: Xugong Automobile Manufacturing, a leading Chinese manufacturer of new energy trucks, has raised CNY6.4 billion (USD881 million) to drive technological

innovation in the new energy heavy-duty truck sector. With backing from 30 investors, including major Chinese state-owned entities, the company aims to strengthen its market position, targeting a future public listing and expanding its market share in the electric, hydrogen-powered, and hybrid vehicle sectors.

Revolutionizing Green Hydrogen: The POF-STO Photocatalytic System Breakthrough

February 26, 2025

Synopsis: A novel POF-STO system for hydrogen production has been developed, offering significant improvements over conventional photocatalytic and photoelectrochemical systems. By combining strontium titanate (STO) with polymer optical fibers (POF), the system reduces energy losses, eliminates the need for complex electrochemical setups, and provides stable hydrogen production across different water chemistries, even in seawater. This advancement is set to play a key role in the shift to green hydrogen, offering a scalable and cost-effective solution for sustainable energy production.

CPI: Decarbonizing India's Steel Industry: Leveraging Transition Finance for a Sustainable Shift

February 25, 2025

Synopsis: India's steel sector, a pillar of the nation's economic growth, is also one of the largest industrial emitters of carbon. This article delves into how Transition Finance can support the gradual decarbonization of India's steel industry by funding emission-reduction strategies and facilitating the adoption of low-carbon technologies in a sector that is hard to decarbonize fully.