

The Dawn of 2025, Part 12: Hydrogen-Powered Steel: Decoding the Future of Green Steel Production

Updated on : Jan 22, 2025

Synopsis: Hydrogen-based steel production offers a revolutionary approach to decarbonizing the steel industry. While the potential for a green, hydrogen-powered future in steelmaking is immense, the journey is fraught with challenges. From scaling up green hydrogen production to overcoming infrastructure hurdles and navigating financial, technological, and geopolitical complexities, the path to a sustainable steel industry requires collective effort. This article delves into the challenges and opportunities surrounding hydrogen use in steel production, with a focus on technological innovations, cost implications, and global efforts to develop a hydrogen-based economy.

Australia's Metallurgical Coal & Iron Ore Challenges: A Shift Towards Green Steel Technologies

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Synopsis: The Australian government's approval of new metallurgical coal projects comes at a time when demand for coal and iron ore is declining. While immediate benefits may be seen, long-term global shifts in steelmaking toward greener, low-emission technologies, such as green hydrogen-based steel, may alter Australia's role in the global market. With China's declining steel demand and growing international competition in green steel production, Australia faces tough decisions about its future in the coal and iron ore industries.

Chubu Steel Plate Co Faces Steam Explosion at Nagoya Facility, Operations Halted

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Synopsis: Chubu Steel Plate Co reported a steam explosion at its Nagoya plant on January 21, 2025. Fortunately, no casualties occurred, but the company has suspended operations for necessary safety checks.

Inferno Engulfs Steel Manufacturing Plant in Conception Bay South, Destroying Facility

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Synopsis: A steel manufacturing plant in Conception Bay South was completely destroyed by a fire on Monday night. The blaze, which started just before 7 p.m., led to a large-scale firefighting response and was complicated by high winds. Fortunately, no injuries were reported, as all employees had left the building earlier in the day.

Canada's Defiant Stand: Trudeau's Response to Trump's Tariff Threats on Steel, Energy, & Resources

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Synopsis: Prime Minister Justin Trudeau has firmly stated that Canada will "fight back" against the 25% tariff threat imposed by President Donald Trump, set to take effect on February 1. Trudeau emphasizes Canada's valuable resources, including steel, critical minerals, and energy, as key components in the global economy. In response, Canada is ready to take action, potentially imposing tariffs on U.S. products in retaliation.

Trump's America First Trade Policy: A Bold Step for US Steel Industry, Says AISI CEO

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Synopsis: Kevin Dempsey, CEO of the American Iron and Steel Institute, praised President Trump's America First Trade Policy, highlighting its focus on national security, fair trade practices, and reinforcing tariffs on steel to protect US manufacturers.

CSPA Advocates for Unified North American Trade Approach in Response to US Inaugural Address

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Synopsis: The Canadian Steel Producers Association issued a statement following the inauguration of the new US President, supporting many of the trade policies outlined,

particularly in addressing global steel overcapacity and unfair trade practices. CSPA emphasized the importance of continued US-Canada alignment to tackle trade challenges, particularly those posed by China, and ensuring secure supply chains across North America.

CSN Initiates \$260 Million Revamp of Blast Furnace at Volta Redonda Plant to Boost Production

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Synopsis: Brazilian steel producer CSN has begun a scheduled maintenance and upgrade of its Blast Furnace number two at the Volta Redonda plant in Rio de Janeiro, with an estimated cost of \$260 million. The project will extend the furnace's lifespan by eight years and is expected to impact the company's pig iron production in 2025.

Whyalla Steelworks Roars Back to Life with Successful Rolling Mill Restart

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Synopsis: The Whyalla Steelworks in South Australia has successfully reached another milestone by restarting its Rolling Mill, completing the final phase of its steel production operations. This marks a significant recovery for the facility as it continues its journey towards full operational capacity.

Marcegaglia UK Expands Production Capabilities with New Electro-Welded Stainless Steel Tube Lines

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Synopsis: Marcegaglia UK has expanded its manufacturing capabilities at the Oldbury site, now producing electro-welded stainless steel tubes alongside its existing carbon steel tube production. This expansion enhances the company's commitment to offering a wide variety of high-quality steel products for numerous industries, from food and dairy to automotive and oil & gas.

Telford's FSP Reaches New Heights: Environmental Investments Propel Growth

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Synopsis: Fabweld Steel Products, a leading UK steel fabrication company, is seeing positive results from significant environmental investments. By introducing a nitrogen generator and upgrading its laser systems, FSP has reduced costs, boosted production capacity, and strengthened its sustainability efforts as it works towards a Net Zero future.

Kocaer Çelik's \$750 Million Investment Plan to Strengthen Global Competitiveness by 2030

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Synopsis: Kocaer Çelik, a leading Turkish steelmaker, plans to invest \$750 million by 2030, focusing on expanding its high value-added product portfolio, developing green steel production, and enhancing global distribution channels.

Chhattisgarh Steel Giant Real Ispat Powers Sustainability with ABB's Cutting-Edge Tech

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Synopsis: Real Ispat and Power Ltd in Chhattisgarh, India, has partnered with ABB to enhance energy efficiency and reduce emissions in steel production. Through innovative technologies like high-efficiency motors and Variable Frequency Drives, RIPL has achieved significant energy savings, reducing their carbon footprint while maintaining competitiveness.

British Steel Unveils £26 Million Manufacturing Centre to Revolutionize Forklift Truck Industry

Updated on : Jan 22, 2025

Synopsis: British Steel has launched a new £26-million service centre in Skinningrove, North East England, to become a leading supplier of forklift truck mast profiles globally. The new facility will significantly boost production capacity and precision.

Triple-S Steel Implements INVEX Software Across Key Locations, Enhancing Operations a& Efficiency

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Synopsis: Triple-S Steel has successfully deployed INVEX metal enterprise software across its Mass Hansen and Nexcoil flat-rolled metal service centers in California and Arizona. This implementation streamlines operations, improving inventory management, order tracking, production planning, and shipping functions.

USA Steel Production Surges in Early 2025

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Synopsis: For the week ending January 18, 2025, U.S. domestic raw steel production saw a slight increase of 0.9% compared to the same week in 2024. Despite a slight dip from the prior week, overall production levels show positive growth year-to-date.

Italian Steel Production Declines 5% in 2024 Amid Global Challenges & Domestic Shifts

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Synopsis: In 2024, Italian steelmakers saw a 5% drop in steel production compared to 2023, producing 20 million metric tons. While long product output slightly declined, flat products suffered a larger decrease, affected by weak automotive demand and high levels of imports.

AMKR's Steel Surge: 72% Increase in Production Amid Struggles to Break Even

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Synopsis: In 2024, ArcelorMittal Kryvyi Rih achieved a significant 72% increase in rolled steel production despite facing numerous operational challenges. The company struggled to break even due to factors like electricity shortages, high energy prices, and

logistical difficulties. CEO Mauro Longobardo highlighted the ongoing impact of the war and other external challenges on the company's competitiveness.

EU Direct Reduced Iron Imports Surge by 7.2% in 2024 Amid Changing Global Dynamics

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Synopsis: In January-November 2024, the EU imported 2.53 million metric tons of direct reduced iron, marking a 7.2% increase compared to the same period in 2023. While Russia remains the largest supplier, shipments from countries like Venezuela and Libya showed notable growth.

Aceros Arequipa Reports Strong Q4 2024 Performance with 37% EBITDA Growth & Record Net Profit

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Synopsis: Aceros Arequipa, a leading Peruvian steel producer, posted impressive financial results for Q4 2024, showing a significant increase in net profit, sales, and EBITDA. The company saw growth driven by better operational performance, improved subsidiary results, and lower financial expenses.

Ramkrishna Forgings Posts 21% Profit Growth in Q3 FY24-25, Boosted by Strong Domestic Sales

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Synopsis: Ramkrishna Forgings Limited reported strong financial performance for the third quarter of fiscal year 2024-25, with a 21% increase in net profit, driven by a rise in domestic sales volume and operational revenue growth.

Turkey Seeks Resolution as Syria Imposes 300% Tariff on Turkish Products

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Synopsis: Turkey is actively negotiating with Syria to address the newly imposed 300% import tariff on Turkish products, which could significantly impact trade, especially steel exports, following Syria's reconstruction plans.

Vietnam Implements Anti-Dumping Duties on Steel & Wind Tower Imports from Asia

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Synopsis: Vietnam's Ministry of Industry and Trade has announced new anti-dumping measures targeting imports of pre-stressed steel wire and wind towers from Malaysia, Thailand, and China. Businesses can apply for duty exemptions through official channels.

Rustic Elegance Meets Modern Function: UniCote LUX Cladding Transforms North Bellarine Aquatic Centre

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Synopsis: The North Bellarine Aquatic Centre in Drysdale, Victoria, is a community-driven project that brings wellness and recreation to local residents. The innovative use of UniCote LUX cladding in Corten Red not only enhances the centre's rustic charm but also ensures durability and functionality, setting the stage for a vibrant future.

Steel Safety Under Fire: Navigating Corrosion and Fire Risks in Oil & Gas

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Synopsis: The oil, gas, and petrochemical industries face significant threats from fire and corrosion risks, jeopardizing lives and assets. A Jotun report highlights the importance of fire protection coatings and corrosion management to safeguard critical steel structures and prevent catastrophic incidents.