

The Dawn of 2025, Part 13: Harnessing the Winds & Sun

Updated on : Jan 23, 2025

Synopsis: As the steel industry strives to decarbonize its operations, the adoption of renewable energy sources such as solar, wind, and green hydrogen is critical to its transformation. While these sources offer long-term sustainability benefits, the path to their full integration is laden with technical, financial, and infrastructural challenges. Understanding the hurdles, as well as the opportunities, can help the steel industry transition successfully toward greener production methods in 2024 and beyond.

Explosion at Braeburn Alloy Steel Plant Injures 3, 2 Critically: A Shocking Incident in Lower Burrell

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Synopsis: On January 22, 2025, an explosion at Braeburn Alloy Steel's plant in Lower Burrell injured three workers, with two critically injured. The incident occurred around 11:57 a.m., and emergency crews responded promptly. The cause of the explosion remains under investigation, but no damage to the facility has been reported. Braeburn Alloy, a 125-year-old company, processes various metal alloys, including steel, and has faced challenges, including a bankruptcy filing in 2022.

North Yorkshire Firm Fined £250,000 After Worker's Tragic Death in Unprotected Machinery Incident

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Synopsis: A North Yorkshire company, Cleveland Steel and Tubes Ltd, was fined £250,000 after a tragic incident in November 2022, where a worker became trapped in unguarded machinery while handling a five-tonne steel pipe. Despite efforts from colleagues and paramedics, the worker died at the scene. The company pleaded guilty to failing to properly guard dangerous machinery.

America First Trade Policy: A Deep Dive into Steel & Aluminum Tariffs, Their National Security Implications

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Synopsis: President Trump's administration has launched a new review of steel and aluminum tariffs under the America First Trade Policy. The investigation could lead to changes in tariff restrictions based on national security concerns, which could significantly impact the economy and industries reliant on steel and aluminum imports.

AISI's 2025 Steel Strategy: A Bold Blueprint for Strengthening America's Industrial Backbone

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Synopsis: The American Iron and Steel Institute has released a comprehensive set of policy recommendations for 2025 aimed at bolstering the US steel industry. Focusing on trade, tax reforms, and regulatory changes, the blueprint seeks to address challenges such as foreign unfair trade practices, encourage innovation, and foster investment. AISI stresses the pivotal role of steel in US national security, infrastructure, and the economy, urging policymakers to safeguard the industry's future competitiveness.

Steel Consumption to Surge 3% in 2025, Supported by Economic Stimulus & Growth in China

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Synopsis: In 2025, Thailand's steel consumption is expected to rise by 3%, aided by government stimulus measures and the growing Chinese economy. Despite challenges in recent years, the steel market is poised for recovery, with increased demand from the construction sector and a slowdown in Chinese steel exports.

Electricity Crisis Forces German GMH Group to Halt Green Steel Production Amid Soaring Costs"

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Synopsis: Germany's GMH Group has been forced to stop producing green steel after electricity prices soared to €400/MWh, making operations unsustainable. The company

cited systemic issues in the country's energy policy, including the abandonment of nuclear power without sufficient alternative infrastructure, as the primary cause of the crisis. The spike in electricity costs is not only impacting GMH Group but also other industrial companies across Germany.

Ann Joo Ordered to Pay Amsteel MYR 11.98 Million Over Disputed Supply Contract

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Synopsis: The High Court of Malaysia has ruled that Ann Joo Resources must pay MYR 11.98 million (\$2.7 million) in damages to Amsteel Mills due to a supply contract dispute. While other claims were dismissed, both companies have filed appeals against the court's ruling.

Tosyalı Holding's Bold Expansion Plans: Strengthening Steel Investments in Europe & Africa

Updated on : Jan 23, 2025

Synopsis: Tosyalı Holding, a leading Turkish steel producer, is ramping up its investments across Europe and Africa. At the World Economic Forum in Davos, the company's Chairman, Fuat Tosyalı, revealed plans to acquire new assets in Europe, strengthen its operations in Africa, and diversify its production across the globe. Tosyalı aims to enhance its steel production capacity, aiming to become one of the top 20 steel producers worldwide by 2030, all while focusing on sustainable development and global value chains.

Exstream II: Danieli's Next-Gen Cooling System Boosts JSPL's Steckel Mill

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Synopsis: JSPL has once again partnered with Danieli, this time to implement the advanced Exstream II cooling system at their Steckel mill in Raigarh, India. This cutting-edge technology will significantly improve the cooling capabilities, enabling the production of high-quality plates with varied mechanical properties and enhanced efficiency.

INOX Air Products Unveils Largest Air Separation Unit at SAIL's Bokaro Steel Plant

Updated on : Jan 23, 2025

Synopsis: INOX Air Products Limited has successfully commissioned its largest air separation unit at Steel Authority of India Limited's Bokaro Steel Plant. The new unit, which boasts a capacity of 2,150 metric tons per day, is a significant milestone for both INOXAP and SAIL.

Baku Steel Company Earns Prestigious API Certification for Excellence in Oil & Gas Products"

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Synopsis: Baku Steel Company has successfully passed the audit for the American Petroleum Institute certification, earning the API Spec Q1 standard. This milestone enhances the company's position in the Caucasus region as a top producer of high-quality seamless steel pipes for the oil and gas industry.

SAIL & IIT(ISM) Dhanbad Forge Alliance to Revolutionize Steelmaking and Mining Tech

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Synopsis: Steel Authority of India Limited and IIT(ISM) Dhanbad's TEXMiN Foundation have entered into a transformative collaboration to drive technological innovations in mining and metallurgy. The partnership focuses on developing futuristic technologies, workforce training, and skill development to meet the demands of a rapidly evolving industry.

Valin Steel Predicts Significant Decline in 2024 Net Profits Amid Industry Struggles

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Synopsis: Valin Steel has forecasted a sharp 55-67% decline in its 2024 net profits, amounting to between Yuan 1.7-2.3 billion (\$234-316 million), as the steel industry faces significant challenges due to high production costs, low demand, and other market pressures.

Hyundai Steel's 2024 Financial Performance: Navigating Challenges & Strengthening Global Growth

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Synopsis: Hyundai Steel reported a decline in 2024 sales and profits, attributed to weaker construction conditions and increased imports of cheaper steel materials. The company plans to focus on profitability by expanding its high-value product offerings and strengthening its steel business. Hyundai also aims to grow its global presence, including investment in a U.S. steel mill and expanding infrastructure in India.

Steel Dynamics Posts \$17.5 Billion in Sales in 2024 Amidst Import Pressures & Strategic Growth

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Synopsis: Steel Dynamics reported impressive performance in 2024, with net sales of \$17.5 billion and annual steel shipments reaching 12.7 million metric tons. Despite challenges from rising steel imports and pricing pressures, the company delivered strong financial results, increased shareholder returns, and made strategic investments, positioning itself for continued growth in 2025.

China's Coking Coal Imports Surge to Historic Levels in 2024, Setting New Records

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Synopsis: In 2024, China saw a significant increase in coking coal imports, reaching a record high of 121.7 million metric tons, marking a 19.7% rise from 2023. This surge is largely attributed to increased shipments from key suppliers such as Mongolia and Russia. Despite a drop in December imports, China's overall coking coal purchases for the year hit an all-time high, while its annual exports of coke saw a notable decrease.

Fortescue Metals Breaks Records with Historic Shipments, Lower Costs, & Safety Triumphs in FY25

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Synopsis: Fortescue Metals Group achieved outstanding results in Q2 FY25, setting a new record in iron ore shipments, lowering costs, and making significant strides in safety and decarbonization. With 49.4 million metric tons shipped in the quarter, the company delivered 97.1 million metric tons in H1 FY25, its highest half-year total ever. Despite challenges from wet weather, Fortescue managed cost reductions and continued to progress its zero-emission fleet transition while maintaining a strong cash balance of US\$3.4 billion.

Turkey-China Trade Shift: New MFN Rates Impact Steel Exports Starting January 2025

Updated on : Jan 23, 2025

Synopsis: Starting January 2025, China will impose Most Favored Nation customs duty rates on certain steel products from Turkey due to the lack of a free trade agreement between the two countries. However, some products will benefit from temporary reduced rates for 2025, offering a unique opportunity for Turkish exporters.

Revolutionizing Materials: High-Performance Plain Carbon Steels via 3D Printing"

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Synopsis: Recent advancements in metal 3D printing have made it possible to produce high-performance plain carbon steels that rival the mechanical properties of ultra-high-strength alloys. This breakthrough leverages the rapid cooling properties of 3D printing to create steels with superior strength, impact resistance, and homogeneity, while simplifying alloy compositions. This innovation offers a sustainable and cost-effective solution for manufacturing strong, durable materials without the complexity of traditional alloys.

Electrochemical Breakthrough: 2,2-Dithio Bisbenzothiazole as a Sustainable Mild Steel Corrosion Inhibitor

Updated on : Jan 23, 2025

Synopsis: This study explores the potential of 2,2-Dithio Bisbenzothiazole, a sustainable corrosion inhibitor, in protecting mild steel from corrosion in low pH environments like 1 M hydrochloric acid. DBBT shows high inhibition efficiency, making it a promising eco-friendly alternative in industrial applications.