

Europe's Steel Industry on the Brink: A Call for Bold Trade Defense & Green Innovation

February 28, 2025

Synopsis: The European steel industry faces growing challenges from global competition and environmental pressures. A newly signed non-paper emphasizes the need for a comprehensive approach, including stronger trade defense instruments like the Carbon Border Adjustment Mechanism. It warns that the decline of traditional blast furnace production could lead to the loss of 150,000 jobs by 2030 if no action is taken to preserve and innovate the sector.

CISA Establishes EAF Steelmaking Division to Propel China's Sustainable Steel Future

February 28, 2025

Synopsis: In a strategic move to boost sustainability in steel production, the China Iron and Steel Association has launched a new Electric Arc Furnace Steel Division. This division, officially unveiled on February 28, aims to overcome challenges such as steel scrap shortages and develop China's EAF steel sector to meet ambitious carbon reduction goals. CISA's efforts will foster policy development, enhance industry collaboration, and support the country's broader green transformation in steel manufacturing.

HYBRIT's Revolutionary Hydrogen Gas Storage Pilot: Redefining the Future of Fossil-Free Steel Production

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Synopsis: HYBRIT's pilot hydrogen gas storage facility in Luleå, Sweden, marks a pivotal achievement in the world's transition to fossil-free steel production. Successfully demonstrating that hydrogen gas can be stored for large-scale industrial use, this technology offers substantial reductions in hydrogen production costs (up to 40%) and is a critical piece in the decarbonization of the steel industry. With the potential to transform steelmaking, the project sets the stage for a cleaner, more sustainable industrial future.

USITC Report Reveals Detailed Greenhouse Gas Emissions Intensities for US Steel & Aluminum Industries

February 28, 2025

Synopsis: The U.S. International Trade Commission has released a comprehensive report requested by the U.S. Trade Representative regarding the greenhouse gas

emissions intensities of the U.S. steel and aluminum industries. This report, Greenhouse Gas Emissions Intensities of the U.S. Steel and Aluminum Industries at the Product Level, focuses on emissions data for 2022, breaking down GHG emissions across various product categories in both industries. It provides crucial insights into the factors driving emissions and the methodologies used for calculating the estimates.

Port Talbot's Green Steel Future: Tata Steel's £1.25bn Electric Arc Furnace Decision Looms

February 28, 2025

Synopsis: Tata Steel's proposal to build a state-of-the-art electric arc furnace at Port Talbot marks a pivotal moment in the UK's green steel transition. The £1.25 billion project, which aims to produce millions of metric tons of steel through recycling scrap, is up for approval in February 2025. With the shift from traditional blast furnaces to greener electric arc technology, this project promises a more sustainable future but also brings job reductions and significant changes to the industrial landscape.

EraLow by Eramet: The Low-CO₂ Manganese Alloy Transforming Steel Decarbonization

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Synopsis: Eramet introduces eraLow, a breakthrough low-CO₂ manganese alloy brand designed to reduce carbon emissions in the steel industry. This innovative product offers steelmakers an immediate solution to enhance their sustainability goals, supported by advanced production processes and a transparent, traceable supply chain.

SSAB Unveils Groundbreaking Hardox® Wear Plate with Virtually Zero Fossil Carbon Emissions at Bauma 2025

February 28, 2025

Synopsis: SSAB introduces Hardox® 450 made from SSAB Zero™ steel, a revolutionary wear plate that combines superior performance with virtually zero carbon emissions. This innovative product, showcased at Bauma 2025, is set to transform industries like construction, mining, and quarrying by offering an environmentally sustainable solution without compromising on quality or durability. SSAB's fossil-free steel manufacturing process is a significant leap toward achieving sustainability goals while reducing the carbon footprint of heavy equipment.

Kardemir Çelik's Green Power Ambitions: Solar & Wind Projects in İzmir to Boost Sustainability

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Synopsis: Kardemir, a prominent Turkish steelmaker, is advancing with its environmental sustainability goals by investing in a solar power plant and an unlicensed wind power plant project in Aliğa, İzmir. With a combined investment of TRY 78.31 million (\$2.15 million), the projects aim to enhance the company's energy efficiency while supporting Turkey's transition to green energy.

Trina Green Hydrogen Launches Revolutionary Electrolyser with Enhanced Efficiency & Reduced Costs

February 28, 2025

Synopsis: Trina Green Hydrogen, a subsidiary of Trina Solar, has unveiled its groundbreaking second-generation electrolyser, which promises significant improvements in hydrogen production efficiency. With a 30% increase in current density and a 30% reduction in equipment investment, this new product is set to make large-scale green hydrogen production more accessible and cost-effective. Trina Green Hydrogen aims to play a pivotal role in the growing global hydrogen market, particularly in the Middle East, as demand for sustainable energy solutions soars.