

Boston Metal's Green Steel Revolution: Industrial-Scale Breakthrough with MOE Technology

March 13, 2025

Synopsis: Boston Metal has achieved a significant milestone in sustainable steel production with the successful commissioning of its multi-inert anode Molten Oxide Electrolysis (MOE) industrial cell. This breakthrough validates the scalability of MOE technology for producing green steel with zero emissions, revolutionizing the steel industry and paving the way for cleaner, more efficient steel production.

Magnum Mining & Wickers Group Pioneer Green Manufacturing with BioCombine Technology for Sustainable Future

March 13, 2025

Synopsis: Magnum Mining & Exploration Limited has entered into a groundbreaking partnership with the Wickers Group of Sweden to jointly develop BioCombine technology—a novel approach combining pulp production, bio-chemical processing, and green pig iron manufacturing. By leveraging existing Pulp and Paper industry technologies and HIs melt iron smelting, the collaboration aims to significantly reduce the carbon footprint of these industries while creating sustainable, high-value products. The partnership is set to transform eco-friendly manufacturing across Europe and North America.

Pacific Steel Partners with Danieli for Eco-Friendly MIDA Hybrid Minimill in Mojave

March 13, 2025

Synopsis: Pacific Steel Group has awarded Danieli a contract to build a state-of-the-art MIDA Hybrid minimill in Mojave, California, designed to produce rebar in an environmentally friendly manner. The facility, capable of producing 380,000 short tons per year (shtpy), will incorporate solar energy, advanced technologies like Q-One® digital power feeder, and robotic systems to reduce CO₂ emissions and increase efficiency.

ArcelorMittal's XCarb® Innovation Fund Rolls Out China's Third Accelerator Programme to Revolutionize Steel Decarbonisation

March 13, 2025

Synopsis: ArcelorMittal's XCarb® Innovation Fund has launched its third Accelerator Programme in China, partnering with Northeastern University's Energy and Environmental Materials Research Centre (E²MC) to support the next wave of breakthrough technologies for decarbonising steel production. The programme focuses on start-ups and early-stage companies in China, funding innovations in carbon capture, energy storage, and waste-to-value solutions, among other areas. The goal is to

find scalable, sustainable technologies that can help the steel industry meet net-zero emissions targets.

Algoma Steel's Electric Arc Furnace Project: A Bold Step Toward Sustainable Steel Production

March 13, 2025

Synopsis: Algoma Steel's transition to Electric Arc Furnace (EAF) technology is poised to transform its steelmaking processes, promising a 70% reduction in carbon emissions and an annual production capacity of 3.7 million metric tons. The project, which faced delays due to severe weather, is now set to achieve its first steel production by April 2025, reinforcing the company's commitment to sustainability and efficiency.

CBAM's Impact: Ukraine Faces \$2.7 Billion Loss in Investment by 2030 Due to EU Carbon Border Mechanism

March 13, 2025

Synopsis: Ukraine's economy is facing severe consequences from the European Union's Carbon Border Adjustment Mechanism (CBAM), which is set to result in \$2.7 billion in lost investments by 2030. This new carbon tax threatens to disrupt Ukraine's key trade relations, especially in sectors like steel and heavy industries, potentially leading to significant reductions in exports and GDP losses unless urgent measures are taken. The introduction of CBAM could reshape Ukraine's export landscape, with long-term economic repercussions expected to unfold over the next decade.

Fortescue Green Pioneer Navigates Toward a Sustainable Future with Ammonia-Powered Shipping

March 13, 2025

Synopsis: The Fortescue Green Pioneer, the world's first ammonia-powered, dual-fuel vessel, has docked in London as part of its global tour to fast-track the shipping industry's shift to green fuels. As the International Maritime Organization (IMO) considers historic regulations to reduce carbon emissions, Fortescue's innovative vessel advocates for ammonia as the primary fuel to decarbonize the sector by 2050. The visit highlights the urgent need for infrastructure and regulatory frameworks to adopt ammonia and other zero-emission fuels at scale.

Fortescue Zero Powers Formula E with Revolutionary Pit Boost Technology for Season 11

March 13, 2025

Synopsis: Fortescue Zero has been named the Official Pit Boost provider for the ABB FIA Formula E World Championship Season 11, introducing its groundbreaking 600kW ultra-

fast Pit Boost technology. This innovation gives teams a +10% increase in battery capacity within just 30 seconds, offering a significant performance boost during races. The technology is not only a game-changer in motorsports but also has real-world applications in electric vehicles and heavy industry sectors, showcasing the power of advanced battery technology.

EU's Strategic State Aid Framework: Powering the Clean Industrial Deal with Sustainability

March 12, 2025

Synopsis: The European Commission has initiated a consultation on the draft State Aid Framework (CISAF) to accelerate the Clean Industrial Deal. The framework supports critical projects in renewable energy, industrial decarbonization, and clean technologies, while ensuring EU competitiveness. Open for public consultation until 25 April 2025, the framework is set to be adopted in June 2025, facilitating sustainable investments across Europe through simplified State aid procedures.