

SEASI: Unveiling the Hurdles & Pathways to a Decarbonised Steel Industry

March 20, 2025

Synopsis: The steel industry, a major player in global construction and industrial sectors, faces immense challenges in reducing its carbon emissions. As the sector struggles with the high cost of green hydrogen, market competition, and regulatory delays, efforts to transition from carbon-heavy blast furnaces to cleaner technologies like electric arc furnaces remain slow. This article explores the obstacles hindering the decarbonisation of steel and outlines potential solutions for revitalising the industry's transformation.

Thyssen Questions Feasibility of Ambitious Green Steel Plant Plans Amid Hydrogen Shortage

March 20, 2025

Synopsis: Thyssenkrupp's CEO, Miguel Lopez, has raised doubts about the viability of the company's plans for a €3 billion green steel plant in Duisburg. Due to the uncertainty surrounding the availability of green hydrogen, which is essential for the plant's operation, Lopez highlighted the risks associated with the project's profitability. While the federal government and North Rhine-Westphalia are heavily investing in the project, the lack of adequate hydrogen infrastructure may delay or even hinder the realization of this environmentally-friendly steel production facility.

Blastr Green Steel's Low-Emission Steel Mill Project: ELY Center's Environmental Assessment Paves the Way for Future Development

March 20, 2025

Synopsis: Blastr Green Steel's ambitious project to create a low-emission steel mill in Inkoo, Finland, has reached a significant milestone with the issuance of the reasoned conclusion from the Uusimaa Centre for Economic Development, Transport, and the Environment (ELY Center) on its Environmental Impact Assessment (EIA). This step allows the project to move forward into the permitting phase, which brings Blastr closer to making a final investment decision for the development of an environmentally sustainable steel plant.

Mission 0 House Secures Vital Five-Year Funding to Lead Green Manufacturing Revolution

March 20, 2025

Synopsis: Mission 0 House, a collaborative research initiative aimed at eliminating greenhouse gas emissions in manufacturing, has secured its first long-term funding of nearly 100 million SEK for the next five years. Spearheaded by Polestar and Lindholmen Science Park, this initiative brings together academia and industry experts to develop

emission-free production methods, with five prominent Swedish universities joining the effort.

ESL Shipping & SSAB Forge Robust Partnership for Fossil-Free Sea Transports in the Baltic

March 20, 2025

Synopsis: ESL Shipping and SSAB have extended their long-term cooperation for the transportation of SSAB's raw materials, including their new fossil-free sponge iron, produced with HYBRIT technology. This multi-year contract, covering an estimated 6–7 million metric tons annually, reflects both companies' shared commitment to sustainability. ESL Shipping's fleet modernization, which includes vessels capable of running on green methanol and hydrogen-based E-fuel, plays a key role in advancing this collaboration, significantly improving energy efficiency and reducing emissions in the shipping industry.

Sheffield Forgemasters Revolutionizes Concrete with Recycled Steel By-Product to Slash Carbon Emissions by 30%

March 20, 2025

Synopsis: Sheffield Forgemasters has made a significant advancement in sustainability by incorporating a recycled steel by-product, Ground Granulated Blast Furnace Slag (GGBS), into its concrete for a new forging line project. This innovation reduces carbon emissions by 30%, making the construction process more eco-friendly. The initiative is part of the company's £900 million recapitalization to bolster UK defense manufacturing.