Kalmar's Strategic Partnership with SSAB to Revolutionize Green Steel Production in Oxelösund

April 3, 2025

Synopsis: Kalmar Corporation has formed a significant partnership with SSAB, a leading Swedish steelmaker, to support SSAB's green steel production at its Oxelösund mill. As part of this collaboration, Kalmar will supply five Super Gloria reachstackers, designed to transport scrap steel to electric arc furnaces, a key element of SSAB's transition to zero-emission steel production. In addition to the reachstackers, Kalmar will provide comprehensive service support to ensure continuous operations, contributing to the efficiency and sustainability of SSAB's decarbonization efforts.

Węglokoks to Receive PLN 50 Million for Solar Power Plant at Huta Pokój

April 3, 2025

Synopsis: Polish coal company Węglokoks has secured a loan of PLN 50 million from the National Fund for Environmental Protection and Water Management as part of the National Recovery Plan. This investment will fund the construction of a solar power plant with energy storage on the grounds of the Huta Pokój steel plant in Ruda Śląska, aiming to improve energy efficiency and reduce reliance on traditional energy sources. The move is part of Węglokoks' ongoing efforts to modernize its operations and foster sustainable development.

Ferrexpo's Bold Decarbonization Strategy: Transitioning to Biofuels, Electrifying Vehicles, & Embracing Hydrogen for a Cleaner Future

April 3, 2025

Synopsis: Ferrexpo, a leading producer of iron ore pellets, is taking significant steps toward decarbonization. The company has reduced the carbon intensity of pellet production by 32% in 2023 compared to 2019, setting ambitious targets for a 50% reduction by 2030 and net-zero emissions by 2050. Its comprehensive decarbonization strategy focuses on transitioning to biofuels, electrifying mining vehicles, phasing out fossil fuels, and incorporating hydrogen-powered barges into its operations.

Fortescue Metals Group Proposes Ambitious 644 MW Solar Farm to Decarbonize Iron Ore Operations

April 3, 2025

Synopsis: Fortescue Metals Group has unveiled plans for the Turner River Solar Hub, a massive 644 MW solar farm in Western Australia aimed at decarbonizing its iron ore mining operations in Port Hedland. This development is part of a broader strategy to achieve 2-3 GW of renewable energy by 2030, helping the company reduce 2.4 million

metric tons of emissions without relying on offsets. The project is undergoing public consultation until April 3, 2025.

Vale to Receive $1 Billion from Alianca Energia JV Deal with GIP

April 3, 2025

Synopsis: Brazilian mining giant Vale has agreed to sell a 70% stake in its renewable energy subsidiary, Alianca Energia, to the U.S.-based investment firm Global Infrastructure Partners. This deal, valued at approximately $1 billion, also includes the consolidation of two energy assets: the Sol do Cerrado solar plant and the Risoleta Neves hydro power plant. The transaction marks a significant step in Vale's energy business transformation and will strengthen its renewable energy portfolio.

EU Proposes Three-Year Compliance Period for Automotive CO_2 Emission Targets

April 3, 2025

Synopsis: The European Commission has proposed a change in how the automotive industry meets CO_2 emission targets for 2025, 2026, and 2027. Rather than assessing annual performance, the proposal allows manufacturers to meet the targets over a three-year period. While this provides flexibility for carmakers, environmental groups argue it may delay the shift to electric vehicles. The change is meant to balance industry challenges and EU decarbonization goals, but its success depends on future agreements from the European Parliament and member states.

Air Liquide's Hydrogen Steel Pipelines & 300-Bar Filling Station Transform Clean Energy in China

April 3, 2025

Synopsis: Air Liquide's cutting-edge advancements in hydrogen fuel cell technology, coupled with innovative steel pipeline developments, are reshaping the clean energy landscape in China. The company's focus on overcoming the technical challenge of hydrogen embrittlement and introducing the first 300-bar hydrogen filling station in China sets the stage for a sustainable, zero-emission future. These efforts are catalyzed by strong governmental support, offering new possibilities for the growth of hydrogen as a major clean energy resource.

Hydrogen's Future in Steel Pipelines: Unraveling the Complexities of Clean Energy Transport

April 3, 2025

Synopsis: As hydrogen gains traction as a clean energy source, researchers at the University of Saskatchewan are working on overcoming significant challenges in transporting hydrogen through steel pipelines. One key concern is hydrogen

embrittlement, where hydrogen makes steel brittle, potentially causing dangerous failures. With the global push toward zero-emissions by 2050, ensuring the safety and efficiency of hydrogen transportation through pipelines is crucial for future energy systems.

TSUNEISHI Unveils Japan's First Hydrogen Dual-Fuelled Tugboat with Green Steel for a Sustainable Future

April 3, 2025

Synopsis: TSUNEISHI Shipbuilding has successfully launched Japan's first hydrogen dual-fuelled tugboat, marking a significant milestone in the country's maritime decarbonization efforts. Equipped with hydrogen-powered internal combustion engines and a green steel hull, the tugboat aims to reduce carbon emissions while maintaining high operational performance, thus supporting the maritime industry's shift toward cleaner energy.

ChloroPlant to Build Malaysia's First Green Hydrogen Plant: A Transformative Move in Clean Energy

April 3, 2025

Synopsis: ChloroPlant, a South Korean clean energy company, has secured a contract to build a 10-megawatt (MW) green hydrogen plant in Sarawak, Malaysia, valued at around $17 million. This plant, which is set to come online in 2026, will utilize advanced European electrolysis technology for hydrogen production. Following its first phase, further expansions, including a green hydrogen container distribution network targeting South Korea and Japan, are planned. This project aligns with Malaysia's broader energy transition goals, aiming for 2 million metric tons of hydrogen per year by 2030.

Third Derivative Launches Industrial Innovation Cohorts to Decarbonize Cement, Steel & Chemicals

April 2, 2025

Synopsis: Third Derivative has introduced its Industrial Innovation Cohorts to accelerate the decarbonization of the cement, steel, and chemicals industries. Aimed at addressing the challenges posed by these sectors, which together account for over half of global carbon emissions, this initiative offers a platform for startups to develop innovative solutions that can reshape the future of heavy industry.

Councillors Advocate for Nationalisation of British Steel to Save Jobs Amid Crisis

April 2, 2025

Synopsis: Councillors in North Lincolnshire have supported calls for the nationalisation of British Steel to safeguard jobs following the company's announcement of potential

closure of two blast furnaces in Scunthorpe. The closure could result in the loss of up to 2,700 jobs, and the government's talks with Chinese owners, Jingye, have broken down. The proposal for nationalisation has gained traction as a last resort if a deal cannot be reached.

ArcelorMittal Poland & E.ON Unveil Cutting-Edge Heat Recovery System for Sustainable Steel Production

April 2, 2025

Synopsis: ArcelorMittal Poland, in collaboration with E.ON Polska, has successfully launched an advanced heat recovery system at its Dąbrowa Górnicza steelworks. This new system is already operational and generating substantial energy savings while contributing to the reduction of CO_2 emissions by 56,000 metric tons annually. The project plays a significant role in enhancing energy efficiency, recovering 117 GWh of energy per year, and furthering the company's sustainability goals.

RE-Powering India's Heavy Industries: 20 GW Today, 24/7 Tomorrow

April 2, 2025

Synopsis: India's heavy industries, including steel, cement, and aluminium, are increasingly turning to renewable energy to slash costs and reduce emissions. The green energy open access regime has unlocked a 20 GW solar market potential for these sectors. However, transitioning to a fully renewable-powered future, especially a 24/7 renewable energy model, presents both significant opportunities and challenges. This report, crediting Ember, explores the feasibility, costs, and the roadmap for heavy industries to shift towards a greener, more sustainable energy future.

Australia's Coal Mining Emissions Paradox: Rising Production, Dwindling Emissions

April 2, 2025

Synopsis: Australia's coal mining industry has experienced a paradox where coal production has significantly increased, yet fugitive emissions have dropped to a record low. This anomaly is due to factors such as the aging and closure of underground mines, the shift towards surface mining, and changes in emissions reporting methodologies. The paradox raises questions about the accuracy of emissions data and its implications for Australia's climate goals.

Italy, France, Slovakia Urge Simplification and Expansion of Carbon Border Adjustment Measure

April 1, 2025

Synopsis: Italy, France, and Slovakia are pushing the European Commission to simplify the Carbon Border Adjustment Measure to reduce administrative burdens and enhance

effectiveness. Their proposals aim to provide clearer guidelines for businesses, improve transparency, and address emerging challenges related to carbon leakage and emissions reporting. The countries suggest several regulatory changes to ensure EU businesses remain competitive while reaching climate targets.

India's Steel Sector Faces Competitive Threat as Europe Tightens Carbon Rules & Carbon Costs Surge

April 1, 2025

Synopsis: India's steel industry, the second-largest in the world, is confronting significant challenges in 2025 as Europe enforces stricter carbon regulations. These regulatory changes, particularly the European Union's Carbon Border Adjustment Mechanism, could lead to increased carbon costs for Indian steel producers. Given that Europe is a major export destination for Indian steel, accounting for 25% of exports, the industry must adapt quickly to avoid high carbon penalties that could threaten its global market position.

Revolutionizing Sustainability: SSAB, Outokumpu & Alfa Laval Join Forces to Cut Emissions at Laakso Hospital

April 1, 2025

Synopsis: SSAB, Outokumpu, and Alfa Laval have formed a groundbreaking partnership to reduce emissions at Helsinki's Laakso Joint Hospital by incorporating low-emission steel into Alfa Laval's plate heat exchangers. The collaboration is set to cut the product's carbon footprint by up to 60%, contributing significantly to the hospital's energy-efficient and sustainable cooling system.

Hyundai Steel & Ford Forge Path to Carbon-Reduced Auto Steel: A Breakthrough in Emissions

April 1, 2025

Synopsis: Hyundai Steel has successfully completed a quality verification for carbon-reduced automobile steel plates in collaboration with Ford Otosan. The innovative steel, produced through a hybrid process, reduces carbon emissions by 20% compared to traditional methods, marking a significant step towards sustainability in the automotive industry.

European Commission Evaluates Energy Legislation Overhaul to Reduce Industry Burdens

April 1, 2025

Synopsis: The European Commission is considering adjustments to EU energy legislation, aiming to simplify rules and reduce bureaucratic burdens on industries.

These changes could be part of a broader effort to ease regulatory constraints, particularly for small and medium-sized businesses. The proposal is expected to be revealed in April or May 2025 and may include simplifying renewable energy laws and energy efficiency directives.

Green Gold Revolution: Angang Steel & Bengang Steel's Strategic Alliance to Dominate Recycling Market in Benxi

April 1, 2025

Synopsis: Angang Steel Co. and Bengang Steel Plates have forged a joint venture called Green Gold (Benxi) Recycling Resources Co. Ltd. in Benxi City, focusing on the recycling of renewable resources like scrap metal and non-metallic waste. The project, with a capital structure of 49% Green Gold and 51% Bengang Steel Plates, aims to revolutionize the recycling industry while boosting Angang Steel's market strength in resource management. This venture also highlights a strategic shift toward sustainability in the steel sector.