

## **SSAB Oxelösund's Green Revolution: Electric Arc Furnace to Slash Lead Times & CO<sub>2</sub> Emissions**

March 8, 2025

Synopsis: SSAB is leading the green transition in steel production with its plan to replace traditional blast furnaces with an electric arc furnace at the Oxelösund mill in Sweden. This change will reduce carbon emissions significantly while also shortening lead times for SSAB Zero™, its fossil-free steel, and meeting the increasing demand for sustainable products in Europe.

## **VFT Bio Fuels UG's Green Steel Initiative: Revolutionizing Vietnam's Industry with Sustainable Production**

March 8, 2025

Synopsis: VFT Bio Fuels UG, a German company, is set to invest in a \$3.1 billion green steel project in Ninh Thuận Province, Vietnam. The project aims to produce 1.1 million metric tons of green steel annually, employing cutting-edge closed-loop technology. This move will create thousands of jobs and contribute to a significant reduction in carbon emissions while serving both Vietnamese and European markets.

## **SteelUp! Phase Two: Shaping the Future of Steel Production at Belval Steel Mill**

March 8, 2025

Synopsis: The SteelUp! project, launched in December 2023, is transforming the Belval steel mill in Luxembourg into a cutting-edge steel production facility. This major brownfield modernization project involves critical upgrades to key systems, including electric furnaces, continuous casting, and vacuum degassing. These changes, combined with state-of-the-art innovations such as a centralized control room and robotic automation, are designed to improve efficiency, safety, and sustainability. By the end of 2025, these upgrades will help ArcelorMittal produce higher-value steel products, including those made from recycled steel.

## **Green Iron: Australia's Gateway to Economic Prosperity Amid Global Decarbonisation**

March 8, 2025

Synopsis: A groundbreaking report by Deloitte and WWF-Australia has revealed that producing "green iron" through renewable hydrogen offers Australia the best chance to stay competitive as the global steel industry decarbonises. Steelmaking, responsible for up to 9% of global greenhouse gas emissions, is facing immense pressure to reduce its carbon footprint. Australia, with its vast iron ore reserves and renewable energy potential, is well-positioned to lead in this green transition, but it must overcome several

challenges, including environmental concerns and the need for strategic governmental policies.

### **Pioneering the Hydrogen Future: Třinecké železářny's Hydrogen-Ready Pipes for Sustainable Energy**

March 8, 2025

Synopsis: Třinecké železářny's Tube Rolling Mill in Ostrava, Czech Republic, is making strides in developing hydrogen-ready pipes crucial for the storage and transportation of hydrogen gas. This innovative project, aimed at advancing hydrogen technologies, focuses on creating certified high-pressure pipes that will meet the growing demand for hydrogen energy infrastructure. With over 10 metric tons of pipes already produced and collaborative efforts with key research institutions, the company is actively positioning itself as a leader in the future hydrogen economy.

### **Liberty Steel's Landmark Role in UK's Carbon Capture Project with New Pipeline Production**

March 8, 2025

Synopsis: UK-based Liberty Steel Group has announced its subsidiary, Liberty Pipes Hartlepool, has commenced production of line pipes for the Teesside-based energy infrastructure project. This project, led by the Northern Endurance Partnership, aims to transport carbon emissions to a carbon capture storage facility in the North Sea. Scheduled for commercial operations by 2027, the project will play a significant role in reducing UK's carbon emissions.

### **Coal India & IIT Hyderabad Forge a Groundbreaking Partnership for Clean Coal Energy & Net Zero**

March 8, 2025

Synopsis: Coal India Ltd and IIT Hyderabad have entered into a pioneering partnership to establish a Centre of Excellence aimed at advancing Clean Coal Energy technologies and achieving Net Zero emissions. The collaboration, backed by a substantial grant, will focus on developing innovative solutions in carbon capture, energy efficiency, and the sustainable utilization of coal while aligning with India's net-zero commitments by 2070.

### **Rio Tinto Acquires Arcadium Lithium for \$6.7 Billion to Dominate Energy Transition Market**

March 8, 2025

Synopsis: Rio Tinto has successfully completed the acquisition of Arcadium Lithium for \$6.7 billion, positioning itself as a global leader in the energy transition materials sector. The acquisition includes the Rincon lithium project and aims to boost Rio Tinto's lithium

production capacity to over 200,000 metric tons of lithium carbonate equivalent annually by 2028. This move solidifies Rio Tinto's strategy to expand its presence in the rapidly growing market for lithium and other key materials for electric vehicles and renewable energy solutions.

### **[US Withdrawal from Coal-to-Clean JETP Deals Undermines Global Climate Efforts for Developing Nations](#)**

March 8, 2025

Synopsis: The United States has withdrawn its support from the Just Energy Transition Partnerships transition from coal to clean energy. This move, which affects countries like South Africa, Indonesia, and Vietnam, signals a disruptive shift in climate finance and raises concerns about the US's commitment to global climate goals.

### **[US Withdrawal from IPG Agreement Strikes a Blow to Global Coal-to-Clean Energy Transition Plans](#)**

March 8, 2025

Synopsis: The United States has withdrawn from a major climate agreement, which involved pledges to help countries like South Africa, Indonesia, and Vietnam transition from coal to renewable energy. This decision significantly reduces future investments and undermines efforts to curb climate change, particularly for countries that heavily rely on coal for energy.

### **[Biodiversity in Flux: Navigating COP16's Complexities, Compromises, & Challenges](#)**

March 8, 2025

Synopsis: COP16's reconvened biodiversity talks in Rome aimed to resolve unresolved issues from the 2024 conference in Cali. Key decisions focused on biodiversity funding, participation from local communities, and the global biodiversity framework. However, challenges remain with the funding gap, lack of inclusivity, and limited commitments. The path forward must address these issues and ensure meaningful action for biodiversity.

### **[Tropical Forests in the Americas Struggling to Adapt to Climate Change: A Wake-Up Call for Conservation](#)**

March 8, 2025

Synopsis: A major new study led by Dr. Jesús Aguirre-Gutiérrez from the University of Oxford reveals that tropical forests in the Americas are not adapting quickly enough to climate change, jeopardizing their crucial role in biodiversity conservation and climate regulation. The study, involving over 100 scientists and spanning hundreds of forest plots from Mexico to southern Brazil, highlights the slow pace of adaptation, the varying

survival strategies of tree species, and the increasing risks posed by climate change. It calls for urgent conservation actions and further research to bolster the resilience of these vital ecosystems.