Fastmarkets: The Evolving Green Steel Premiums in Europe: Flat Steel vs. Long Steel in the Era of Decarbonization

April 11, 2025

Synopsis: As Europe intensifies its efforts to combat climate change, the steel industry is undergoing a significant transformation, focusing on reducing carbon emissions. This shift towards decarbonized steel, known as green steel, has prompted the introduction of premiums for products with lower carbon footprints. However, the adoption of these premiums varies significantly between the flat steel and long steel sectors. This article provides an in-depth look at how green steel premiums are evolving in Europe, the challenges involved, and the distinctions between the two steel production methods.

JFE Steel to Build High-Efficiency Electric Arc Furnace for Carbon-Neutral Steelmaking in Japan

April 11, 2025

Synopsis: JFE Steel Corporation has announced plans to construct a large-scale, advanced electric arc furnace at its Kurashiki facility in Japan, aiming to support the nation's goal of carbon neutrality. With government support, the furnace will be capable of producing around 2 million metric tons of steel annually and is expected to begin operations by 2028. The project involves integrating hydrogen and other innovative technologies to reduce carbon emissions in the steelmaking process.

Stegra Gains EU Innovation Fund Backing for Groundbreaking Green Steel Revolution

April 11, 2025

Synopsis: Stegra, a cutting-edge cleantech company, has secured vital support from the EU Innovation Fund to develop a next-generation green steel mill in northern Sweden. This €250 million investment will enable Stegra to revolutionize steel production using green hydrogen and green iron technologies, aiming to reduce CO_2 emissions by up to 95%. The project highlights the EU's commitment to accelerating decarbonization in high-emission industries, particularly steel manufacturing.

Greensteel Australia Partners with Danieli for Hydrogen-Powered Rolling Mill in Landmark Sustainable Steel Project

April 11, 2025

Synopsis: Greensteel Australia has entered into a partnership with Danieli to construct a groundbreaking 600,000-metric ton per year rolling mill powered entirely by green hydrogen. This facility, set to be completed by late 2026 in New South Wales, aims to produce zero-emission steel and establish a new global benchmark for sustainable steel manufacturing.

Green Hydrogen to Revolutionize Steel Production in India: Transformative Path to Decarbonization

April 11, 2025

Synopsis: India is taking significant strides toward decarbonizing its steel industry with the launch of the Whitepaper on Green Hydrogen. Released by the India Green Steel Coalition, the paper outlines how green hydrogen can revolutionize steel production by significantly cutting CO_2 emissions. The paper emphasizes hydrogen's growing importance as a sustainable alternative, positioning India as a global leader in green energy solutions. With strategic investments and supportive policies, this initiative promises to transform India's steel sector into a cleaner, more efficient industry.

Germany's Deutsche Bahn Faces Challenges in Low-Emission Steel Rail Procurement

April 11, 2025

Synopsis: Germany's Deutsche Bahn is lagging behind other European countries in procuring low-emission steel rails for its rail infrastructure, despite its ambitious climate neutrality goal by 2040. The company's slow progress is contrasted by the success of Saarstahl Rail, a German steelmaker that has secured a significant contract with France's SNCF for low-emission steel. With Deutsche Bahn's demand for high quantities of sustainable steel, its sluggish procurement process has raised concerns among industry leaders.

From Tradition to Transformation: Hammerwerk Erft Commits to Green Power Premium Steel from GMH Gruppe

April 11, 2025

Synopsis: Hammerwerk Erft, a well-established forging company, has taken a giant leap towards sustainable production by using Green Power Premium Steel from Georgsmarienhütte GmbH, a subsidiary of GMH Gruppe. This partnership marks the beginning of a greener future for forging, with Green Power Premium Steel reducing CO_2 emissions by up to 98%. The transition to sustainable steel is a key part of the company's commitment to climate neutrality, representing a crucial step in forging industry innovation.

ArcelorMittal's Beam in LUGA Festival: A Symbol of Sustainability and Innovation

April 11, 2025

Synopsis: ArcelorMittal Luxembourg, through its Foundation, is providing a special beam manufactured in Differdange for the "Water Forum" installation at the LUGA Festival. This innovative structure, made from XCarb™ steel, will be used in a natural water purification garden designed to revitalize the Alzette Valley. The installation aims to

showcase both environmental responsibility and architectural creativity. Once the exhibition concludes, the beam will be either reused or recycled in line with ArcelorMittal's eco-responsible approach.

Forging a Greener Future: Setting Recycled Steel Content Targets Under the ELV Regulation

April 11, 2025

Synopsis: A comprehensive study highlights the importance of boosting the use of recycled steel in the EU automotive industry. It suggests setting clear recycled-content targets, 30% by 2030 and 40% by 2035, to foster a more sustainable, circular economy. The study underscores the technical and economic feasibility of these targets and addresses key challenges, such as copper contamination, which is crucial for achieving high-quality recycled steel for automotive production.

Sheffield's Steel Waste Heat to Power Low-Carbon District Heating Network

April 11, 2025

Synopsis: A new partnership between E.ON UK and Sheffield's stainless steel manufacturer Marcegaglia will harness waste heat from the city's steel melting processes to power up to 500 local buildings through a low-carbon heating network. This initiative supports Sheffield's efforts to decarbonize and bolsters its role as a leader in sustainable industrial innovation.

Sunsure Energy Secures Groundbreaking 11 MWp Solar PPA with JSL Super Steel in Uttar Pradesh

April 11, 2025

Synopsis: Sunsure Energy has signed a significant 11 MWp Power Purchase Agreement with JSL Super Steel, a subsidiary of Jindal Stainless Ltd. The deal will help JSL's Ghaziabad facility reduce its conventional energy consumption by 40%, while sourcing solar power from Sunsure's 49 MWp project in Augasi, Uttar Pradesh. The arrangement is expected to save 12 million kilograms of carbon emissions annually, promoting sustainability in the steel industry.

Gonvarri Solar Steel's Strategic Role in Energyear Spain: TracSmarT+1P Tracker Unveiled

April 11, 2025

Synopsis: Gonvarri Solar Steel, a leader in designing and supplying photovoltaic solar trackers and fixed structures, participated as a key sponsor at Energyear Spain. The company unveiled its new TracSmarT+1P solar tracker, which boasts significant upgrades aimed at enhancing solar plant performance and efficiency. The tracker's

innovations include reduced assembly times, an extended range of motion, and improved safety features. Gonvarri's participation in Energyear Spain also featured a roundtable discussion focusing on maximizing profitability and innovation in the competitive solar market.

US Sets Ambitious Multi-Pollutant Emissions Standards for 2027+ Light-Duty & Medium-Duty Vehicles

April 11, 2025

Synopsis: The U.S. Environmental Protection Agency has introduced new multi-pollutant emissions standards for model years 2027 and beyond, targeting significant reductions in tailpipe emissions for light-duty and medium-duty vehicles. These standards aim to cut carbon dioxide emissions by 50% for light-duty vehicles and 44% for medium-duty vehicles, compared to 2026 levels. In addition to CO_2 reductions, the new rules introduce stringent limits for criteria pollutants like nitrogen oxides (NOx) and particulate matter (PM). The EPA expects the regulations to result in health benefits and climate benefits of billions annually by 2055.