The Dawn of 2025, Part 24: India’s Green Steel Struggle

Updated on: Feb 3, 2025

Synopsis: India’s steel industry, which is the world’s second-largest producer of steel, is facing significant challenges in reducing its carbon footprint. Despite ambitious climate pledges, the sector remains heavily reliant on coal-based production methods, which make it one of the most carbon-intensive industries in the country. India’s current and planned steel expansions could exacerbate these emissions, making it harder to meet its long-term climate goals. The government’s green steel roadmap sets a course for decarbonization, but its implementation remains under scrutiny due to lenient standards and the slow adoption of cleaner technologies.

Gerdau Partners with Be8 to Pioneer Biofuel Use in Mining Operations

Updated on: Feb 3, 2025

Synopsis: Brazilian steelmaker Gerdau has partnered with energy company Be8 to test BeVant® biofuel in its mining operations in Minas Gerais. The aim is to replace diesel fuel and reduce carbon emissions in Gerdau’s generators and vehicle fleet, contributing to sustainability efforts in Brazil’s steel sector.

Jica Supports Bangladesh's Green Steel Revolution with Eco-Friendly BSRM Plant

Updated on: Feb 3, 2025

Synopsis: The Japan International Cooperation Agency has funded a new environmentally friendly steel plant in Bangladesh, set to reduce steel imports, create jobs, and contribute to sustainable development goals. The plant will increase local steel production capacity and feature cutting-edge technologies for energy efficiency and environmental protection.

Tiangang’s Bold Leap Toward Low-Carbon Steelmaking: Revolutionizing Emissions Reduction

Updated on: Feb 3, 2025

Synopsis: Tiangang, a leading Chinese steelmaker, has taken a groundbreaking approach to reducing its carbon emissions through innovative practices such as harnessing residual gases for power generation, installing photovoltaic panels, and upgrading to energy-efficient machinery. The company’s efforts reflect China's broader low-carbon transition goals for the steel industry.

Revolutionizing Green Hydrogen: Stainless Steel Breakthrough Powers Sustainable Future

Updated on: Feb 3, 2025

Synopsis: Researchers at the University of Hong Kong have developed a new stainless steel material, SS-H2, that could drastically reduce costs and improve corrosion resistance in green hydrogen production. This innovation promises to make hydrogen energy more accessible and cost-effective, propelling the transition to a sustainable global energy future.

Razorback Delays Agreements & Eyes New Strategic Partnerships for Green Iron Future

Updated on: Feb 3, 2025

Synopsis: Magnetite Mines Limited has delayed the execution of binding agreements with JFE Shoji Australia for the Razorback Project, now set for the second quarter. This delay is due to additional due diligence. The project has attracted new interest from potential partners, with a focus on green iron and steelmaking.

EIB Invests €400 Million in Largest EU Offshore Wind Farm, Baltica 2

Updated on: Feb 3, 2025

Synopsis: The European Investment Bank has contributed €400 million to Poland's largest offshore wind farm project, Baltica 2. This investment will help build the 1.5 GW farm, located off Poland's Baltic coast, boosting the country's renewable energy capacity and supporting its energy transition goals.

Lhyfe Secures €11 Million Investment for Renewable Hydrogen Facility in Sweden

Updated on: Feb 3, 2025

Synopsis : C to build a renewable hydrogen production facility in Vaggeryd, Sweden. This plant will produce up to 4.4 metric tons of green hydrogen daily, contributing to Sweden's net-zero emissions goal and supporting hydrogen-powered transport and industrial sectors.