

## **Forging a Greener Future: SMS Group & Ansteel Group Commit to Carbon Neutrality**

*Updated on: Jan 27, 2025*

*Synopsis: On January 16, SMS group and Ansteel Group signed a Memorandum of Understanding to advance collaboration on green steel technologies, focusing on carbon peak and neutrality goals. This partnership aims to support the sustainable development of the global steel industry by innovating low-carbon solutions and promoting environmental responsibility.*

## **Tata Steel Safety Alert: Extinction Rebellion Protesters Breach Facility in Hazardous Demonstration**

*Updated on: Jan 27, 2025*

*Synopsis: Nine activists from Extinction Rebellion (XR) entered a hazardous area at Tata Steel Nederland, disrupting operations and prompting an emergency response. Tata Steel has emphasized the danger of the protest's location and its commitment to a greener steel future through its Green Steel plan.*

## **HYBRIT's Triumph: Honoured with Prestigious GAEA Award at the World Economic Forum**

*Updated on: Jan 27, 2025*

*Synopsis: HYBRIT, a pioneering fossil-free steel initiative, was awarded the World Economic Forum's GAEA 'Moving Force in Business' Award. This recognition celebrates its groundbreaking approach to sustainable steelmaking, showcasing its potential to transform global industries by reducing carbon emissions through the use of hydrogen and renewable electricity.*

## **Spain's Pedro Sánchez Champions ArcelorMittal's Future Amid Global Geopolitical Shifts**

*Updated on: Jan 27, 2025*

*Synopsis: At the World Economic Forum in Davos, Spanish Prime Minister Pedro Sánchez reaffirmed the government's commitment to ArcelorMittal's operations in Spain, addressing the company's future amid the global economic challenges and geopolitical tensions. Sánchez's discussions with top executives of ArcelorMittal highlight Spain's growing investment appeal and its role in supporting industrial innovation and sustainability.*

## **Tosyali Holding's \$1 Billion Solar Investment: A Green Revolution in Steel Production**

*Updated on: Jan 27, 2025*

*Synopsis: Tosyali Holding, a leading Turkish steelmaker, is set to invest nearly \$1 billion in solar energy across eight provinces in Türkiye. This initiative aims to power its steel production with renewable energy, significantly reducing its carbon footprint and contributing to the global green steel movement.*

## **Hydrogen Horizons: SSAB's Role in Revolutionizing Steel Production with Green Gas**

*Updated on: Jan 27, 2025*

*Synopsis: SSAB is taking part in the EU-funded TWINGHY project to explore hydrogen as a cleaner alternative to natural gas in steel reheating furnaces. By developing a digital twin technology to optimize the hydrogen combustion process, this collaboration aims to reduce CO2 emissions and promote sustainable energy practices in the steel sector.*

## **Revolutionizing Steel Production: ArcelorMittal Fos-sur-Mer Cuts CO2 Emissions with New Ladle Furnace**

*Updated on: Jan 27, 2025*

*Synopsis: ArcelorMittal's Fos-sur-Mer site has successfully implemented a new ladle furnace that will increase recycled steel usage, cut CO2 emissions by 10%, and enhance steel production efficiency. This milestone project, ordered to SARRALLE, marks a significant step in the company's commitment to energy transition in the steel industry.*

## **GCP Pioneers Clean Steel with \$300M Renewable Power Project in Arkansas**

*Updated on: Jan 27, 2025*

*Synopsis: Green & Clean Power has raised approximately \$300 million to build a 105 MW solar farm and 160 MWh battery energy storage system in Arkansas. This renewable power will supply 40% of the energy needed by Hybar, a steel rebar mill focused on sustainability, aiming to drastically reduce its carbon footprint.*

## **Pioneering Greener Wind Parks: Tata Steel's Innovation for Sustainable Wind Turbines**

*Updated on: Jan 27, 2025*

*Synopsis: Tata Steel Nederland is pioneering research into constructing more sustainable wind turbine towers by using thinner steel plates that are just as strong. This collaboration with research institutions aims to reduce steel usage, increase competitiveness, and extend the lifespan of wind towers, contributing significantly to the green transition.*

## **Unveiling the Tides: Bayesian Neural Networks in Estimating Ecological Footprints & Blue Economy Sustainability in G20 Nations**

*Updated on: Jan 27, 2025*

*Synopsis: This study explores the link between ecological footprints and the blue economy's sustainability in G20 countries. Using advanced Bayesian neural networks, the research evaluates how human activities like greenhouse gas emissions, economic growth, and population dynamics impact the blue economy while focusing on preserving marine resources.*

## **Philippines' First GFRP Manufacturing Plant Paves the Way for Sustainable Construction**

*Updated on: Jan 27, 2025*

*Synopsis: GFRP Philippines Manufacturing Corp has launched the first large-scale production facility for Glass Fiber Reinforced Polymer in the country, offering a lighter, stronger, and more affordable alternative to steel for the construction industry. This innovation promises to revolutionize construction projects, especially in flood-prone and coastal areas.*

## **Why Natural Carbon Sinks Shouldn't Count Toward Emission Targets: A Critical Warning**

*Updated on: Jan 27, 2025*

*Synopsis: A new study warns against counting natural carbon sinks like forests and oceans in emission reduction targets for achieving net zero. While these natural processes help stabilize global warming, relying on them without addressing the root*

*causes of emissions, such as fossil fuel use, could lead to continued warming after net zero is reached.*