

MIT: The World's First Industrial-Scale Plant Promises a Carbon-Free Future

Updated on: Jan 10, 2025

Synopsis: Stegra, a Swedish startup, is constructing the world's first industrial-scale plant dedicated to green steel production, a cleaner alternative to traditional steelmaking that promises to significantly cut carbon emissions. With steel production accounting for around 8% of global carbon emissions, this breakthrough could be pivotal in the fight against climate change, with major implications for the steel industry and global sustainability efforts.

China's Steel Industry: Low-Carbon Transformation Meets New Energy Demands

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Synopsis: China's steel industry is adapting to a phase of reduced output and optimized capacity. While steel demand in traditional sectors like construction is declining, industries like new energy, high-end equipment manufacturing, and photovoltaics are driving growth. Technological upgrades and low-carbon practices have become central to the industry's development, with a focus on increasing manufacturing demand and sustainability.

Sparc Hydrogen: Advancing Green Hydrogen Production with Breakthrough Photocatalytic Water Splitting Technology

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Synopsis: Sparc Technologies, in collaboration with Fortescue Limited and the University of Adelaide, is progressing to Stage 2 of their joint venture focused on the production of low-cost green hydrogen through an innovative technology called photocatalytic water splitting. This advanced technology eliminates the need for renewable electricity and costly electrolyzers, offering a revolutionary solution to the challenges facing the green hydrogen industry. The Stage 2 activities will include the construction of a pilot plant, expected to be operational by mid-2025, to demonstrate the technology's capabilities under real-world conditions.

Solar Steel's Groundbreaking 2P Solar Tracker Project to Boost Clean Energy in Spain

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Synopsis: Solar Steel has announced a deal to supply 27MW of its advanced 2P solar trackers, TracSmarT+2P Compact, for Spain's first project using this technology. The solar park, set to be operational by 2025, will support over 40,000 solar modules, prevent 13,000 metric tons of CO2 emissions annually, and create a significant local economic impact.

Fortescue & Baowu Steel Forge Green Iron Partnership to Decarbonize Global Steel Industry

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Synopsis: Australia's Fortescue Metals Group has entered into a partnership with China Baowu Steel, the world's largest steelmaker, to advance green iron technology. This collaboration aims to tackle challenges in decarbonizing the global steel industry, with Fortescue's green iron project in Western Australia leading the charge.

Marubeni Invests in Altilium's EV Battery Recycling Expansion to Strengthen Supply Chains

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Synopsis: Marubeni, a Japanese trading company, has invested \$5 million into British EV battery recycler Altilium as part of its Series B funding round. This investment follows a prior Series A funding from SQM, emphasizing the growing importance of recycling critical minerals like lithium and cobalt amidst rising electric vehicle sales. Altilium, aiming to process 24,000 EV battery packs annually by 2026, is helping reduce dependency on China for these essential materials.

Swiss Steel Group Introduces 11SMn30+BX: Pioneering Lead-Free Steel for a Sustainable Future

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Synopsis: The Swiss Steel Group has unveiled its groundbreaking lead-free machinable steel, 11SMn30+BX, which replaces lead with boron to meet the growing demand for environmentally friendly industrial solutions. This innovation highlights the group's commitment to sustainability, precision, and efficiency in steel production.