



****Press Release****

Title: TRANSZEROWASTE: REVOLUTIONIZING IRON ORE UPGRADING AND RECYCLING WITH EU FUNDING

TransZeroWaste, an innovative research program at the forefront of iron ore upgrading and mill scale recycling, is proud to announce its launch. Supported by the EU Horizon-CL4-2022-TWIN-TRANSITION-01 program under grant agreement No 101091960, this initiative represents a significant advancement in sustainable materials management and supports the EU's transition towards a circular economy.

The global demand for high-quality iron ores and the imperative to abandon carbon-intensive sintering processes in the future necessitate the development of novel technological approaches. TransZeroWaste addresses these challenges by pioneering innovative solutions for upgrading low-grade iron ores and efficiently recycling iron containing by-products of steel production like e.g. mill scale, dust and sludges to replace today's BF-BOF-related recycling via sinter plant.

Key Objectives of TransZeroWaste:

1. Upgrading low-grade iron ore by combining it with iron-rich by-products;
2. Development of innovative techniques to produce high-quality pre-material for decarbonised future production routes;
3. Separation of disturbing components from byproducts to replace scrap;
4. Development of the technological basis and digital tools supporting the transition towards zero waste in the European steel industry.

TransZeroWaste aims to contribute significantly to the upgrade of 27 million tons per annum of materials and the reduction of greenhouse gas emissions from sinter plants by 4.3 to 9.9 million tons of CO₂ per annum. By combining low-grade iron ore with iron-rich by-products and separating disturbing components from by-products to replace scrap, TransZeroWaste seeks to create a win-win situation that enhances sustainability and resource efficiency in iron and steel production. With transformation from BF-BOF-steel making to low CO₂-Hydrogen-based DR-EAF production, current highly efficient recycling routes via sinter plant will be cut-off. Therefore, these need to be replaced by new TransZeroWaste-technologies to still comply with the EU's Net-Zero-Waste goal.

This groundbreaking research program aligns closely with the objectives of the Clean Steel Partnership, further emphasizing its significance in driving the steel industry towards a more sustainable and circular future.

To learn more about TransZeroWaste and its innovative actions, please visit <https://transzerowaste.eu/about/>.



For media inquiries, interviews, or additional information, please contact the project's coordination **Sébastien Zinck** at (+352) 275 888 5118 or sebastien.zinck@list.lu .

About TransZeroWaste:

TransZeroWaste is a pioneering research program funded by the EU Horizon-CL4-2022-TWIN-TRANSITION-01 program, under grant agreement No 101091960. Led by a consortium of leading institutions and organizations, TransZeroWaste aims to revolutionize iron ore upgrading and recycling practices, driving the transition towards a circular economy and sustainable materials management.

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