



Upgrading of low-quality iron ores and mill scale with low carbon technologies

Research for novel technological approaches



TransZeroWaste Showcases Innovation at ESTEP Spring Dissemination Event 2025

The TransZeroWaste project proudly participated in the ESTEP Spring Dissemination Event 2025, held on June 5–6 in Kraków, Poland. Organized by the European Steel Technology Platform (ESTEP), this key industry event brought together experts, researchers, and innovators from across Europe to share progress on decarbonisation, digitalisation, and workforce transformation in the steel sector.

Representatives from TransZeroWaste joined fellow Horizon Europe and Clean Steel Partnership projects to present ongoing work and discuss innovative approaches for reducing the environmental footprint of steel production.

A Platform for Circular and Decarbonised Steel

At the core of TransZeroWaste's presence was the project's commitment to developing breakthrough technologies that enable the reuse of industrial by-

products, turning waste into value. During the event, our team shared insights into how the project:

- Supports higher circularity in steel production by targeting material reuse at scale
- Uses Life Cycle Assessment (LCA) to measure environmental performance of emerging technologies
- Builds a decision-support platform to help steel producers evaluate new technologies across environmental, circularity, and economic dimensions

The event provided a valuable forum for dialogue with policymakers, industry leaders, and research peers—particularly on how data-driven sustainability tools like those developed by LIST, the project coordinator, can accelerate real-world impact.

Industrial Synergies: Visiting Ogniochron

Participants also had the opportunity to visit the Ogniochron factory in Andrychów—a key example of steel circularity in practice. The facility, a major European manufacturer of fire extinguishers, uses advanced sheet metal forming and joining techniques while minimizing production waste and energy consumption.

For TransZeroWaste, the visit highlighted the industrial relevance and application potential of the project's innovations—especially in areas where deep-drawn steel and low-waste processing intersect with circular economy principles.

With over 13 EU partners, TransZeroWaste benefits from a diverse and committed consortium working together toward a climate-resilient steel industry. Events like the ESTEP Spring Dissemination are vital in aligning research with real market needs and ensuring that breakthroughs reach the production floor.





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