



Project Information Sheet

Recycling steel making solid wastes for added value Energy Efficiency building products (REWASTEE)

Programme area:	First Application and market replication projects
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Website:	www.rewastee.eu (To be available soon).
Benefits (max. 150 characters incl. space):	Introduction into the market of an innovative multifunctional building material coming from an efficient and cost-effective steelmaking waste management.
Keywords:	EAFD, steelmaking, waste
Sector:	Recycling, Buildings and Green Business
Type of solution	Product and technology
Duration:	01/07/2014 – 31/12/2016
Budget:	€ 1.387.287 (EU contribution: 50%)
Contract number:	ECO/13/630286

Summary

REWASTEE project aims at the industrial validation, market deployment and replication of a developed technology for recycling steelmaking wastes to be used for manufacturing multifunctional building products that couples acoustic insulation and enhanced thermal inertia.

In most developed countries insulation and related energy saving products are expected to rebound after falling in 2008 and 2009 due to housing market collapses in several countries. Additionally, government efforts to reduce energy consumption will lead to the adoption of new building codes and increased energy saving standards.

REWASTEE offers an alternative for the inertization, stabilization and valorization of steelmaking waste (particularly Electric Arc Furnace Dust - EAFD), and thus reducing the economic costs associated with steel wastes while at the same time a better use of resources and raw material is achieved.

Although deployment of REWASTEE recycling and production technology targets Spanish market at first instance, it will be replicated at industrial scale in Italian, French and UK markets, establishing the optimal business model for the technology and REWASTEE products commercialization.

Expected and/or achieved results

- Reduction of environmental impact of the steel sector, using tons of waste diverted from landfills (7.10⁵ ton of CO₂ equivalent per year could be potentially avoided as a result of REWASTEE project results).



- Introduce into the market an innovative building material and set up the industrial methodology required for the efficient processing of steelmaking waste and their reintegration in productive chain. Current capacities allow producing a minimum of 40.000 m²/month (max. up to 120.000 m²/month), contributing to enhance efficiency in buildings and reduce carbon footprint through the introduction of alternative building products.
- REWASTEE expect to manage over 2000 ton of EAFD during the project and up to over 9.000tn two years after the project in Spain, Italy, France and UK.
- Reduce the economic cost for steelmaking sector associated to waste management up to 4-5M€.

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