



The REWASTEE Project kicks off at Fundació Privada Ascamm.

The meeting was attended by all consortium members.

Barcelona, 17th of July 2014

REWASTEE, which stands for *Recycling steel making solid **W**astes for added value into **E**nergy **E**fficiency building products*, is a 3 year project co-funded by the Eco-Innovation Initiative of the European Union. The project addresses the need for new environmental and cost-effective approaches to recycle steelmaking waste (particularly Electric Arc Furnace Dust – EAFD). In particular, this project removes EAFD from landfills and puts it instead into sustainable and high performance building products with thermal and acoustic benefits.

Europe is the second largest steel producer worldwide with a production of 168 million tons in 2012. Within Europe, Germany, Italy, France, Spain, and the United Kingdom are the top five steel producing countries accounting for 64.7% of EU steel production. 41.6% of EU steel is produced by electric furnaces generating 10-20 Kg of EAF dust (EAFD) per ton steel produced. EAFD is a well-known waste of the steelmaking industry and is considered a hazardous waste according to the European Waste Catalogue (EWC). Currently, EAFD steel producers either process the dust in a metal recovery facility or chemically stabilize it before sending to landfill (with no possibility of metal recovery). Presently, EAFD as a waste product has become a major concern from an environmental and economic point of view due to the high disposal cost.

The main target for REWASTEE is the industrial validation, market deployment and replication of a patented manufacturing process for the recycling of steelmaking EAFD wastes into multifunctional building products (**Figure 1**) that provide acoustic insulation and enhanced thermal inertia properties.



Figure 1. First REWASTEE multifunctional material (made of 70% EAFD).

The manufacturing and market deployment of REWASTEE materials will start in Spain followed by the identification and construction of opportunities in the Italian, French and UK markets. In doing so, business models and stakeholder relationships will be established for REWASTEE products across key European markets. In addition, project efforts will be concentrated on ensuring the market viability of the manufactured products in specific building applications, and in compliance with current European and country specific building codes.

Led by [Fundació Privada Ascamm](#) (Barcelona, Spain), the consortium is formed by 8 partners from four European countries, and it balances the active participation of: two SMEs (R2M Solution and TRIMDELSON), one Large Enterprise (FCC Construcción), two Catalan Universities co-patent holders (University of Lleida and University of Barcelona) and 3 leading research and technology development organizations (Building Research Establishment - BRE, Nobatek and ASCAMM).