



DELIVERABLE D6.2

Document details

WP6 – Dissemination Activities

Pre – Defined Task: Contribution to information and dissemination events upon request related to eco-innovation or other relevant EU programmes.

Task Leader: NTUA / WP Leader: NTUA

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Table 1. Reviews

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1 INTRODUCTION

D6.2 is associated with a pre-defined task according to which additional information material associated with STEP must be contributed to events organized by EASME upon request. The material would have to be in the quality and form specified by EASME. NTUA as the leader of the dissemination activities work package is responsible for this deliverable.

2 INPUTS TO ADDITIONAL COMMON INFORMATION MATERIAL RELATED TO ECO-INNOVATION ACTIONS.

In November 2015, after communication and upon request from EASME for products that can be considered to be at the core of the STEP Eco-innovation project, the two versions of the STEP poster (Figs. 1-2) as well as a sample of resin pots (Fig. 3) of 1 kg weight, were sent to Brussels for an exhibition event aiming to bring to life CIP Eco-innovation projects. The posters were sent with respect to presenting the project’s scope, objectives and eco-innovations and also providing an indicative overview (through photos) of the industrial module developed within the STEP framework, i.e. the microwave oven used for the curing of resins. The industrial module is a big machine which practically corresponds to the first eco-innovation of the project. Similarly, the eco-friendly resin corresponds to the second eco-innovation of the project.

Stone Technology for Eco-Efficient Production

SCOPE

STEP aims at demonstrating the industrial feasibility of an **innovative technology** for the resin curing process of natural stone flat products. The optimum performance of the process is achieved using an **eco-resin free of volatile organic compounds (VOCs)**.

ECO-INNOVATIONS

- > **New in-line processing system** for fast and continuous resin curing of semi-finished products to replace kilns based on natural gas.
- > Development and industrial validation of **new water-based resins** from nano-composites with zero emission of **VOCs**.

CONSORTIUM

ceinnmat, AIDICO, AMI, TECNICAS REUNIDAS, LASKARIDIS, UNIVERSITAT POLITÈCNICA DE VALÈNCIA, qmc

OBJECTIVES

STEP pursues the implementation of two **eco-efficient technologies** in the natural stone sector to reach economic, environmental and sustainable benefits in the market of construction products. It seeks **to overcome** certain traditional limitations of this productive sector: **high energy costs, low utilization of the raw materials and emission of VOCs**.

BENEFITS

STEP will contribute to achieve significant benefits for the natural stone sector in terms of **efficiency, productivity and use of raw materials**, as well as in **health and safety** aspects for the employees of the production lines.

Co-funded by the Eco-innovation Initiative of the European Union

www.step-stone.eu

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Fig.1: STEP poster (1st version) submitted to EASME dissemination event

STEP CHALLENGES

STEP, an eco-innovative technology for natural stone flat eco-friendly product and eco-efficient processing.

STEP CHALLENGES

Integrated system in natural stone using fast and safe processing with high energy efficiency and environmental friendly:

- Waterborne resin with high industrial performance.
- Cool microwave furnace for eco-efficient processing

ECO-RESIN

0% VOCs waterborne eco-friendly resin suitable for microwave

COOL MICROWAVE FURNACE

Safe cool electrical eco-efficient modular on continuous flow microwave for stone flat products.

SELECTIVE HEATING SAVING ENERGY

→

→

HOMOGENEITY

BENEFITS OF STEP

STEP is contributing to the upgrade of natural stone sector in terms of efficiency, productivity and use of raw materials, and in improvement of health and safety as well.

- High raw material yield
- High productivity ratio and low maintenance
- High quality natural stone
- Stone product with ECO-LABEL

Co-funded by the Eco-innovation Initiative of the European Union

www.step-stone.eu

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Fig.2: STEP poster (2st version) submitted to EASME's dissemination event



Fig.3: Photo of resin pots submitted to EASME's dissemination event