



SPEND FOUNDRY SAND VALORISATION IN CONSTRUCTION SECTOR THROUGH THE VALIDATION OF HIGH-PERFORMANCE APPLICATIONS (LIFE ECO-SANDFILL)



ADMINISTRATIVE DATA

- Project Ref.: LIFE15 ENV/ES/000612
- Duration: 36M
- Start Date: 01/07/2016
- Total Budget: EUR 2,313,350
- EU Contribution: EUR 1,343,488
- Beneficiaries: IK4-AZTERLAN (ES) (Coord.)
ACCIONA (ES), ESTANDA (ES),
GAIKER-IK4 (ES), ONDARLAN (ES)

CONTACT DATA

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OBJECTIVES

- Demonstrate technical and economic feasibility of using reclaimed Spent Foundry Sand (SFS) as an eco-friendly fine aggregate in construction applications.
- Explore high quality reutilization of treated SFS in foundry sector for core and mould making.
- Contribute to “close to zero landfill” (reducing annual volume of SFS disposed of in landfills).



EXPECTED RESULTS

- ✓ Sand impurities removal (efficiency >90%), achieving environmental safety (leaching).
- ✓ Integration of innovative reclamation prototype in a foundry facility.
- ✓ Valorization of ca.1500 t SFS in the Basque Country (ES).
- ✓ High quality reutilization of treated SFS in foundry for core and mould making.
- ✓ Construction demos (embankments, mortars, CLSM), substituting (100%) virgin fine aggregates with reclaimed SFS.
- ✓ Development of Best Practices and Processing Methodology for chemical & green sand reclamation in construction applications.

