



Towards zero emissions in European ferrous foundries using inorganic binder systems

GREEN CASTING LIFE

Total amount	7 162 398 €
EU Co-funding	4 297 732 €
Duration	09/2022-02-2026



Objectives

The LIFE project 6 European flagship ferrous foundries will implement at industrial scale the inorganic binder system on their production process implying major changes, starting with selection of the suitable inorganic binder system, changes in processes and investments in new equipment.

In parallel different sand reclamation methods will be demonstrated. Based on the results obtained, the foreseen techniques will present an outstanding knowledge for BAT technologies participating to tackle environmental problems and to produce greener products to European market.

Actions

- Full scale implementation and validation of tailor-made inorganic binders in 6 flagship foundries in Estonia, Finland, Italy, Poland and Spain
- Foundry sand reclaimability and reuse tests
- Piloting actions in 15 follower pilot foundries in Europe
- Training Workshops in partner countries and effective dissemination activities

Expected results

- Experiences and know-how from 6 flagship foundries for implementing inorganic binders in their production
- Emission reduction by 80-95% (VOC, PM, NO_x, SO₂...)
- Indoor air quality improvement by 70% (CO, PM, phenols, formaldehyde, VOC...)
- Feasible reclamation methods for each flagship foundries
- Step-by-step implementation plans for flagship foundries for the full-scale implementation of inorganic binders



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