

THE PROJECT

THE MAIN TARGETS OF THE SESCO PROGRAM

- The validation of the recycled ceramics as TESM,
- The identification of the proper refractory internal structure,
- The control of the formation of the proper structure during elaboration,
- The optimization of the storage modules geometries at both lab. and industrial scales,
- The balance of the LCA analysis of the whole proposed approach.

IMPACTS OF SESCO IN TERMS OF SCIENTIFIC AND INDUSTRIAL ISSUES

SCIENTIFIC

- Control of microstructures by mean of the working conditions under crystallization,
- Design of innovative advanced thermal energy storage modules for high temperature applications,
- Design of innovative hybrid concentrating solar reactors for inorganic wastes melting.

INDUSTRIAL

- Development of alternative and sustainable thermal energy storage systems for CSP and ACAES,
- Development of new low-cost waste treatment processes with reduced energy consumption,
- Enhancement of industrial waste treatment activities by improving the final product markets.

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