

PROJECT OBJECTIVES

The RAPID DRY project aims to **optimise** the **DRYING PROCESS OF CERAMIC CAST PIECES** thanks to a

REDUCTION OF ENERGY
CONSUMPTION AND CO₂
EMISSIONS



MITIGATING
CLIMATE CHANGE



REDUCTION OF PRIMARY RAW
MATERIALS CONSUMPTION



RECYCLING CERAMIC WASTE
AND
DECREASING
MINERAL MINING



The project will also reduce **PRODUCTION COSTS**

- **INCREASING THE COMPETITIVENESS** of the European ceramic industry on international markets
- **INCREASING THE EU CERAMIC INDUSTRY MARKET SHARE** in the high-end segment, avoiding carbon leakage

LIFE RAPID DRY project



28 MONTHS
DURATION



2020/06/01
START



2022/09/30
END

LIFE19 CCM/IT/001243
LIFE PROJECT

PARTNERS



www.setecsr.it



www.lceengineering.eu

RAPID DRY



WITH THE CONTRIBUTION OF THE LIFE
PROGRAMME OF THE EUROPEAN UNION
LIFE19 CCM/IT/001243

RAPID DRYING OF CERAMICS

REDUCING ENERGY CONSUMPTION AND CO₂ EMISSIONS WHILE PRESERVING PRODUCT QUALITY

www.rapid-dry.eu

The **RAPID DRY project** objectives will be achieved by means of

- **A CHAMBER DRYER** that optimises currently available techniques in a very cost effective way
 - Introducing a **software** managing all drying parameters and avoiding waste of energy
 - Installing **fans and cones** to improve the recirculation of the air flow and guarantee a homogeneous air distribution on the pieces to be dried
- **MODIFIED CERAMIC BODIES** (fire clay and vitreous china) to optimise the drying curve while preserving excellent performance in quality and resistance.

This will be achieved thanks to a **new slip formulation**, which also includes **recycled raw materials**, thus saving primary resources.



FINAL RESULTS



DRYING CYCLE

shorter than
8 hours



THERMAL CONSUMPTION

is only
98 kcal/kg
with respect to 288 kcal/kg
of traditional dryers



ELECTRICAL CONSUMPTION

is only
0.003 Kwh/kg
with respect to 0.019 Kwh/kg
of traditional dryers