ECONOMICK

WITH THE CONTRIBUTION OF THE LIFE
FINANCIAL INSTRUMENT
OF THE EUROPEAN COMMUNITY
LIFE15 CCM/IT/000104

Energy consumption and **CO**$_2$ and **NO**x emissions **M**inimised in an **I**ntermittent **C**eramic **K**iln

ECONOMICK kiln prototype has undergone a first run of firing tests at Ceramica Kerasan. The tests have been carried out between 3rd April 2018 and 30th July 2018. **3360** sanitary pieces were fired.

The results show significant improvements with respect to a traditional intermittent kiln, especially regarding CO_2 emissions, gas consumption, cycle's lenght, cold wall temperature. Further enhancements have been reached by installing **a probe for the optimization and control of oxygen** content within the chamber.

PRELIMINARY RESULTS ON SANITARYWARE FIRING

GAS CONSUMPTION

- Up to **-45%** **without probe**
- Up to **-50%** **with probe**

NO_x - CO_2 DIRECT EMISSIONS

- Up to **-45%** **without probe**
- Up to **-50%** **with probe**

TEMP. MAX COMBUSTION AIR
>350°

COLD FACE TEMPERATURE
<50°

SHORTER CYCLES
12h

REDUCED TEMPERATURE IN WORKING PLACES

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KERASAN