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RAPID DRY Project final results



On the 31st of December 2022 the LIFE Rapid Dry Project has officially ended, and it is now possible to assess its outcomes and the overall performance.

From the point of view of the industrial results, the new technologies introduced by the Rapid Dry project on the dryer have allowed to **reduce the duration of drying cycles of traditional ceramic bodies from 14 to 8 hours.**

This brings several benefits. Indeed, it allows ceramic manufacturers to increase production volumes, since more drying cycles can be performed in a day. Moreover, **the reduction of the necessary time for each cycle leads to a reduction of both gas and electricity consumption of about 67% and 86% respectively.**

This aspect is directly linked to positive environmental and economic results of the technological innovation.

The reduction of energy consumption allows to achieve **a decrease in GHG emissions of about 68%** when considering the entire lifetime of a dryer (considered to last 30 years), significantly improving the environmental impact of the drying process. On the other hand, it also implies **a reduction of production costs, where savings can be achieved of on average 28%** (again calculated on the lifetime of a dryer).



The Rapid Dry project didn't focus only on the development of a new dryer but also on **the improvement of slip formulations**, to further optimize the drying process and increase the positive achievements obtained through the innovative equipment.

Thanks to the use of recycled ceramic scraps and the modification of the rheology and grain size of the formulated materials, it **has been possible to further reduce the duration of the drying cycles to 7 hours** and to add also the saving of virgin raw materials to the positive environmental results of the project.

Considering these outcomes, it can be said that the Rapid Dry project has been able to take another step forward on the path towards sustainability of the ceramic production sector, successfully started by the LIFE Sanitser and LIFE Economick projects closed in the past years.

RAPID DRY final event in Civita Castellana



The Rapid Dry project's final event took place on the **6th of October 2022** in Civita Castellana, hosted by SETEC.

The event offered the opportunity to meet stakeholders and to show them the final results of the project. Moreover, it allowed to discuss several aspects of the dryer's technologies and to provide relevant information that can be crucial when deciding whether to buy a new dryer.

The event also included a **visit to the dryer prototype** to show its features and functioning.

Partners



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