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Hydrogen kilns within three years: SITI B&T research looking towards the energy transition

Making thermal machines efficient: the recipe foresees a strong energy saving immediately and the replacement of fossil fuels within three years.

SITI B&T Group research accelerates by focusing strongly on **new hydrogen-based technologies** to accompany ceramic producers towards the energy transition. The start of a process of gradual replacement of traditional methane with a **hydrogen-based gas** blend will further reduce the use of fossil fuels and atmospheric emissions.

SITI thermal machines are already **Hydrogen Ready**, that is, ready for the first levels of a hydrogen mix from the distribution network. In 2021, a project for the development of thermal machines running off a strong blend of traditional fuels and hydrogen was launched through which SITI B&T sets itself a very ambitious goal: to make available to its customers an **eco-friendly and carbon free firing technology within the next three years.**

In the meantime, with the considerable increase in methane gas costs, it is vital for ceramic producers to think about how to **reduce energy consumption in the shortest possible time**, in order not to lose competitiveness and profitability. A pioneer of the energy theme in the ceramic machinery sector, SITI B&T Group is now able to offer solutions that make the processes of thermal machines more efficient. The best-in-class **Titanium kilns** guarantee energy performance of absolute excellence, with a **reduction in fuel consumption of more than 30%**.

One of the **major European manufacturers** believed in SITI B&T's innovation by replacing an existing traditional kiln with a Titanium double channel kiln, which allowed it to drastically reduce consumption and **immediately save over 700,000 Euro** annually.

Since its launch on the market, more than **100 Titanium kilns have been installed at the world's leading ceramic producers**, of which more than half in Europe and the rest throughout the world, including Brazil, Central America, Russia and Asia.

To immediately obtain energy savings for a wide range of working kilns, even very old ones, SITI B&T also offers customers the range of **Vulcan burners**, which allow savings on methane gas consumption from 8% to 10% compared to the installed technology.

Thanks to continuous investments in R&D (5% of annual turnover) and numerous invention patents, SITI B&T Group confirms itself as a **pioneering technological partner**, able to lead the sector towards new technological horizons with the utmost attention to the theme of sustainability.

SITI BT Group

SITI-B&T Group, listed on the AIM Italia stock market since March 2016, is a manufacturer of complete plants for the world ceramic industry with a strong presence in all global markets. It delivers outstanding technological solutions and innovative services with a special focus on energy efficiency and respect to the environment. The Group boasts 23 companies, 17 of which are branches abroad in 12 different countries and on 4 continents, each year it invests 4% of its turnover in Research and Development, most of which is carried out in the modern bt-LAB in Formigine, main location of scientific laboratories and the four pilot lines of the different technologies.

It offers customers a complete personalised service including technical assistance with installation, maintenance and modernisation of production lines.

SITI-B&T Group operates through the following business units: "Tile" (complete plants for tile production), Projecta Engineering and Digital Design (digital decorating machines and digital graphic design projects), Ancora (surface finishing systems for ceramic products), Diatex (cutting and grinding tools), "B&T White" (complete plants for sanitaryware) and "B&T Quartz" (complete lines for agglomerated quartz).

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