



Press-Release

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UC3[®] Technology exceeds expectations in improving Blast Furnace efficiency

UTIS, the developer of the patented UC3[®] Technology for optimizing combustion efficiency through hydrogen, in collaboration with CSN Inova and CSN (Companhia Siderúrgica Nacional), one of Latin America's largest steel producers, has achieved a major milestone: the successful completion of the first global application of UC3[®] Technology in the steelmaking sector. This pioneering project is focused on enhancing blast furnace efficiency while significantly reducing CO₂ emissions.

By achieving more efficient combustion of BFG (Blast Furnace Gas), the UC3[®] technology enabled an average of 7% increase in the stove blow temperature of the Blast furnace. These results not only enhance the operational stability of the blast furnace but also significantly reduce fuel consumption (coke rate).

The solid results achieved validate the continued application of UC3[®] Technology in blast furnaces and in other identified unit operations within the steelmaking process.

UTIS and CSN are collaborating to expand testing and evaluate the potential for large-scale implementation of UC3[®] Technology across all stages of steel production, as well as in the cement industry. This initiative reflects both companies' commitment to advancing the energy transition and fostering a more sustainable industrial future, with a strong emphasis on reducing carbon emissions.

"We are thrilled with the progress of our collaboration with CSN, which now extends to steelmaking processes as well. Our goal is to optimize steel production while significantly reducing carbon emissions, paving the way for a more sustainable future for the industry," says Paulo Gonçalves, CEO of UTIS.

<https://www.csn.com.br/>

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