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Advanced Dolime Injection Techniques for Enhanced EAF Steelmaking: Insights from a New Collaborative Trial by Lhoist and IntecoPTI

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As the steel industry continues to pursue greener practices, the injection of fluxes from sidewall panels into Electric Arc Furnaces (EAFs) has become state-of-the-art in the United States. However, this method remains underutilized in Europe. To address this gap, Lhoist, a leading flux provider, and IntecoPTI, an EAF equipment manufacturer, have developed a portable injection system designed to enhance the accessibility of this technology in Europe.

This study focuses on the introduction of injected dolime, examining its impact on raw material consumption, energy efficiency, foaming behavior, refractory lifespan, and overall productivity. An trial will be conducted in collaboration with a major steelmaker, utilizing dolime as the injected flux.

The paper presents the unique features of the injection system, evaluates its economic benefits, and discusses the anticipated outcomes of the trial. The findings offer valuable insights into the feasibility and advantages of integrating this flux addition method into the electric arc process, contributing to the steelmaking industry's ongoing efforts to adopt more sustainable and efficient practices.

Keywords: EAF, injection, dolime, foaming, CO2 reduction, trial

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