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Blast Furnace CO₂ Emissions: A Techno-Economic Assessment

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Decarbonization is a key strategic objective for the steel industry. Despite the growing interest in DRP-EAF steelmaking, BF-BOF steelmaking is anticipated to remain dominant due to its efficiency, economic benefits, and constraints associated with DRP-EAF. Therefore, it is essential to focus on reducing CO₂ emissions from blast furnaces. This paper provides a detailed techno-economic assessment of the most effective and immediate strategies to achieve significant reductions in BF CO₂ emissions.

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