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Green DRI-based EAF steelmaking –Feedstock, Design and Operational Results

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To comply with tomorrow's more stringent committed environmental targets for steelmaking, the world witness one of the most fast-paced transitions in the history of steelmaking. DRI-based EAF route will play a crucial role in transforming green steel production thanks to its carbon footprint, which is significantly lower than a blast furnace, while still ensuring the highest product quality. In this presentation, an overview of dynamics of steel scrap market, and the need for ore-based metallics as reliable EAF feedstock is presented. Moreover, a rough guide of the main design criteria for DRI-based EAFs is overviewed. Finally, some actual operational results for cold and hot DRI-based EAFs from Primetals Technologies will be presented.
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