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Direct Feed Power Supply to enhance power quality and EAF KPI

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Decarbonizing steelmaking is one of the greatest challenges facing our industry today. Electrifying steel production is a pivotal step in reducing CO₂ emissions. Over the coming years, the installed base of high-power EAF is expected to grow significantly, which will affect power quality but also EAF performances. To address these challenges, GE Vernova has developed an innovative solution.

The Direct Feed system, connects directly to the grid, enabling precise and highly stable electrode current regulation.

Design of the Direct Feed system will be presented with performance results derived from simulations and on-site measurements. Key outcomes, including improvements in EAF flicker reduction and operational performance, will be highlighted.

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