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PREVENT BOTTLENECKS AND OPTIMIZE LADLE AND CRANE LOGISTICS FOR AN EAF-BOF MELT SHOP

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In the transition to green steelmaking, hybrid steel plants incorporating both EAF and BOF technologies face several critical logistical challenges. Different tap-to-tap times, variations in steel chemistries and temperatures, the positioning of new equipment, and integration with existing plant infrastructure significantly impact ladle logistics. Inefficient ladle flow and overutilized cranes can cause delays at both the BOF/EAF and casters, but these issues can be mitigated. In this paper, we present the main challenges and solutions based on simulation work with six European integrated steel plants undergoing this transformation.

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