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Extensive review of the opportunities to use biomass-based fuels in iron and steelmaking processes

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Highlights:

- The paper reviews the use of biomass-based reducing agents in iron and steelmaking processes
- Depending on the metallurgical unit process, biomass-based reducing agent could partly or entirely replace fossil-based reducing agent
- CO₂ emissions of steelmaking could be substantially lowered by using biomass-based reducing agents
- The high price inhibits the shift from fossil-based reducing agents to renewable biomass-based reducing agents

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