Accepted Manuscript

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

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PII: S0959-6526(17)30233-0

DOI: 10.1016/j.jclepro.2017.02.029

Reference: JCLP 8955

To appear in: Journal of Cleaner Production

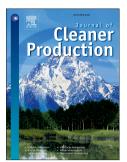
Received Date: 21 October 2016

Revised Date: 4 January 2017

Accepted Date: 3 February 2017

Please cite this article as: Suopajärvi H, Kemppainen A, Haapakangas J, Fabritius T, Extensive review of the opportunities to use biomass-based fuels in iron and steelmaking processes, *Journal of Cleaner Production* (2017), doi: 10.1016/j.jclepro.2017.02.029.

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1	Word count without references around 18 500 ACCEPTED MANUSCRIPT
2	Extensive review of the opportunities to use biomass-based fuels in iron and steelmaking
3	processes
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9	Keywords: Biomass, iron and steelmaking, CO ₂ reduction, life cycle assessment, economics, review
10	Highlights:
11	- The paper reviews the use of biomass-based reducing agents in iron and steelmaking processes
12	- Depending on the metallurgical unit process, biomass-based reducing agent could partly or
13	entirely replace fossil-based reducing agent
14	- CO ₂ emissions of steelmaking could be substantially lowered by using biomass-based reducing
15	agents
16	- The high price inhibits the shift from fossil-based reducing agents to renewable biomass-based
17	reducing agents
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