The Implementation of a Cleaner Production Program in a ISO 14001 certified Steelmaking Company

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Abstract

About 90 to 95% of metallic alloys produced in whole world are steel, at the same time the impact to the environment from this production can be high. This work intends to discuss how a cleaner production program implemented in an already certified ISO 14001 steelmaking company can contribute to processes and products in a more environmentally sustainable steel.

As the cost of end-of-pipe technologies and disposal in the industrial landfill has grown fast, the pollution prevention and minimization of waste generation became a more attractive investment. However, all collaborators from the steel plants must be aware of cleaner production to incorporate this knowledge in process and product projects, and participating as responsible to achieve better performance of the process in a continuous way.

Keywords: iron and steelmaking process, cleaner production, waste minimization.