Zinc from Secondary Sources

**EZINEX**® Process

**Title:** Zinc Extraction from EAF Dust with EZINEX® Process

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**Abstract:** The Italian company Engitec Impianti has developed a new electrochemical technology for the treatment of Electric Arc Furnace (EAF) flue dust generated in steel mini-mills. This process is based on a new and completely different concept from the Waelz technology applied at present and allows, due to its modular nature, for an erection on the steel producer’s site.

Engitec Impianti spent US$ 700,000 constructing a 500 t/y throughput pilot plant at Pittini Group’s Ferriere Nord mini-mill in Osoppo, Italy in order to demonstrate the process capabilities and obtain the data for a commercial plant design. The paper describes the pilot plant performances and the engineering criteria for a commercial unit of 10,000 t/y throughput.

The feasibility study demonstrates a pay-back period of 3-4 years for the economical plant.