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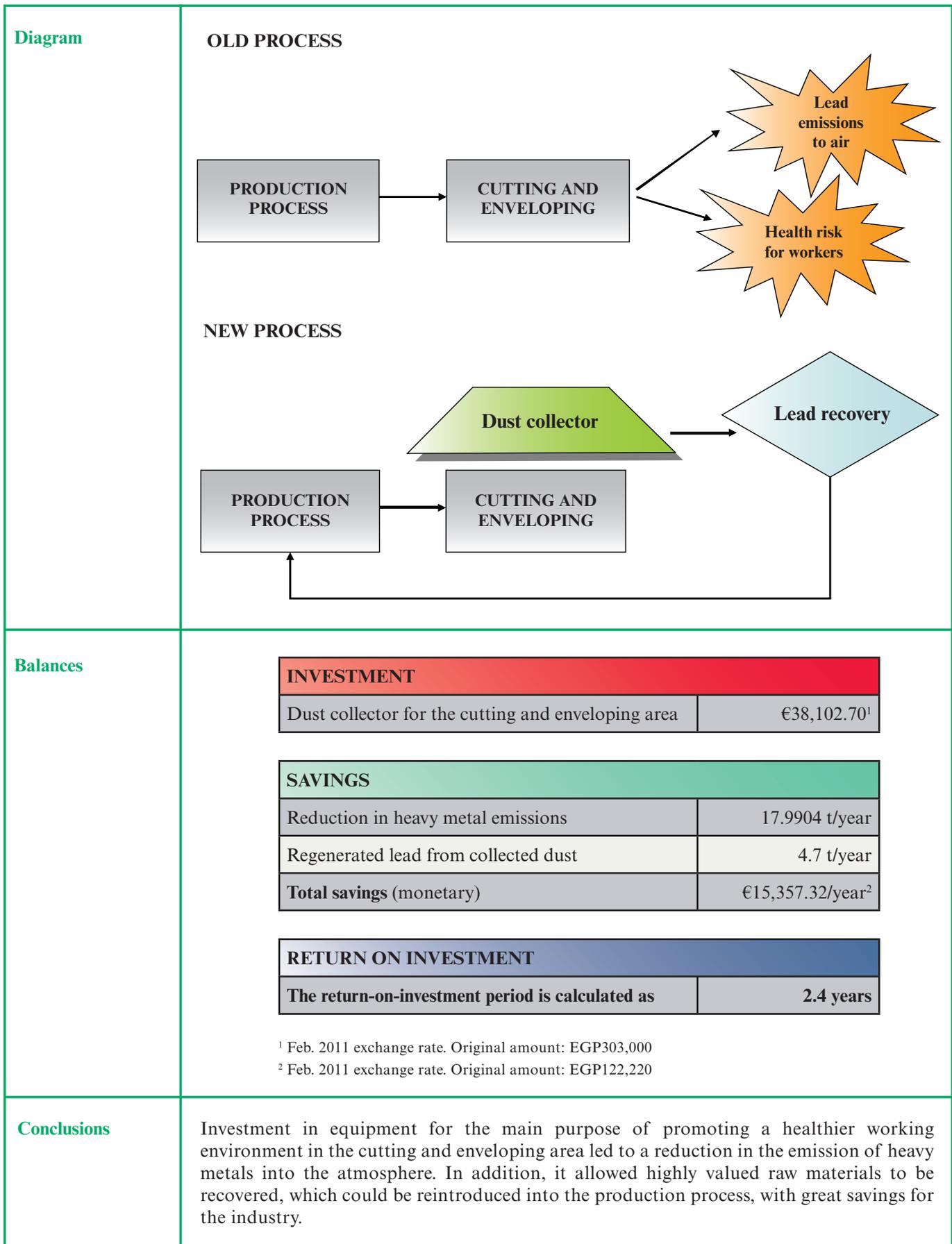


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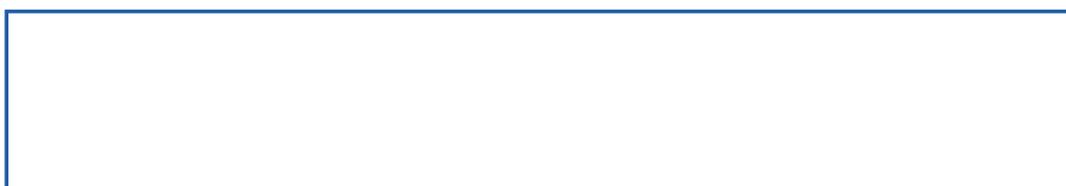
Pollution Prevention Case Studies

Installation of a Dust Collector in a Battery Manufacturing Facility

Company	<p>Chloride Egypt (Information provided by Eng. Ahmed Kamal & Eng. Adel Taha from the Environmental Compliance Office and Sustainable Development, ECO-SD)</p>
Industrial sector	<p>Manufacture of batteries and accumulators ISIC Rev. 4 no. 2720 (International Standard Industrial Classification of All Economic Activities)</p>
Environmental considerations	<p>The manufacture of batteries implies the use of several products that can be hazardous to workers and the environment, such as heavy metals, acids and other chemical products.</p> <p>The main factory gas emissions are acid vapours, lead or lead-oxide emissions, and CO₂ emissions from fuel combustion. In addition, the generation of potentially toxic solid waste includes: lead and lead alloy scrap, lead oxide dust, and packaging materials.</p> <p>For this reason, it is important to implement clean production measures to reduce and control the exposure limits both for workers and the surrounding environment.</p>
Background	<p>Chloride Egypt is an Egyptian joint-stock company established in 1982 and is a leading company in manufacturing several types and models of batteries, such as car batteries, solar batteries, industrial batteries—both acidic and alkaline, standby batteries and UPS.</p>
Summary of actions	<p>In the area of cutting and enveloping, the main pollutant is the lead dust coming from the dry basting, which affects the health and safety of the workers.</p> <p>The actions carried out consisted in:</p> <ul style="list-style-type: none"> - Installation of a dust collector system. <p>Installing a dust collector would control the dust emission and help in improving the working conditions and reducing health hazards for workers. In addition, the collected dust will be used to regenerate lead, which will lower consumption of the raw material.</p>



NOTE: This case study seeks only to illustrate a pollution prevention example and should not be taken as a general recommendation.




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