

## ABSTRACT

This project aims at searching the information on Waste minimization (WM) techniques, a kind of Environmental Management System (EMS), and its advantages when implementing it to the production process in Steel Mill, Siam United Steel Public Co., Ltd.

Waste Minimization is a part of Pollution prevention and Environmental management that is primarily focused on the production process. Waste Minimization means any source reduction or recycling activity undertaken by a generator that results in the reduction of total volume or quantity of hazardous waste, the reduction of toxicity of hazardous waste that is either generated or subsequently treated, stored, or disposed. Such activity must be consistent with the goal of minimizing present and future threats to human health and the environment.

The reason why I chose to do this topic is that environmental issue is a big concern for doing business or as trade barrier. Customers are highly aware of the environmental and natural resources. This can cause the business to pay attention to save the environment. Investing in WM in some cases may require for a huge amount of money. Many businesses hesitate to invest in WM because they see only the expense. They overlook to the advantages of investing in WM. Siam United Steel Co., Ltd. invested in WM and they can gain competitive advantages in terms of financial concerns and company image. They can gain more profit margin and improve productivity

Since WM can be achieved by using through many techniques such as Recovery Process, Recycling, Reuse or whatever so called, the objectives usually focus on protecting the environment. It will be different in the way of implementing. Investing in WM will be huge, but it is worth to investing for save our environment.