



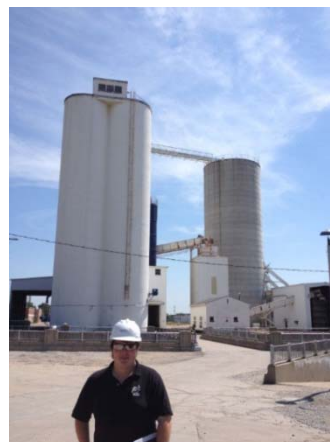
GAVILON

Project Overview

Intern: Alex Sellers

Major: Biological Systems Engineering

School: University of Nebraska–Lincoln



Company Background

Gavilon is a global company that offers extended services to the grain, fertilizer, and energy industries in areas such as origination, storage, transportation, marketing, and risk management. The company currently employs 2,000 employees at 300 separate locations in six continents, with the world headquarters being located in Omaha, NE. They became privately held in 2008.

Project Description

During the summer of 2012, Partners in Pollution (P3) interns Alex Sellers and Lais Speranza were asked to assist Gavilon in furthering their sustainable development initiatives. Their projects focused specifically on analyzing and reducing energy and waste consumption and reducing environmental impact. Facilities analyzed included the grain elevator at Grand Island, the liquid fertilizer manufacturer at Hastings, and the dry fertilizer manufacturer at St. Joseph, MO.

Pollution Prevention Benefits

Several pollution prevention recommendations were made and analyzed within the report. These suggestions were designed to reduce solid waste production, minimize energy consumption, reduce greenhouse gas emissions, and reduce environmental impact by changing or adding current processes within Gavilon's facilities.

Results

Table 1 below provides a concise overview of possible benefits at each facility analyzed.

Table 1. Potential Benefits of P2 Opportunities

<u>Facility</u>	<u>Tangible Benefits</u>	<u>Intangible Benefits</u>
Grand Island	\$70,732/year, 295,633 kWh/year, 45,000 lbs solid waste/year	352.3 MTCO ₂ E/year greenhouse gas emissions
Hastings	\$34,216/year, 28,453 kWh/year, 9,785,000 gal water/year	371.1 MTCO ₂ E/year greenhouse gas emissions
St. Joseph	\$1,722/year, 6,714 kWh/year	6.4 MTCO ₂ E/year greenhouse gas emissions
Total: \$106,700/year, 330,800 kWh/year, 9,785,000 gal water/year, 45,000 lbs solid waste/year, 730 MTCO₂E greenhouse gas/year		