



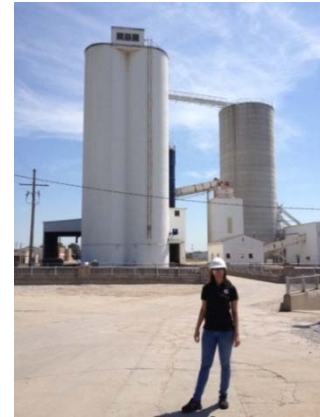
GAVILON

Project Overview

Intern: Lais Galileu Speranza

Major: Environmental Engineering

School: University of Nebraska – Lincoln



Company Background

Gavilon® is a commodity management firm with more than 300 facilities and regional offices and 2000 employees worldwide. The company connects producers and consumers of feed, food and fuel, providing origination, storage and handling, transportation and logistics, marketing and distribution, and risk management services.

Project Description

In the summer of 2012, Partners in Pollution Prevention (P3) program interns visited three Gavilon® facilities (Hastings NE, Grand Island NE, and St. Joseph, MO) to conduct technical assistance with the support of the Director of Environmental, Health and Safety, Brian Wanzneried.

Pollution Prevention Benefits

This report focuses on energy consumption, specifically the reduction in energy use by improving motors' efficiency. Other indirect benefits include:

- Decreased future maintenance costs;
- Reduced greenhouse gas emissions; and
- Improved company image.

Results

The pollution prevention benefits of implementing suggestions are summarized in Table 1 below. Recommended changes are highlighted.

Table 1: Potential Pollution Prevention Benefits and Results

P2 Opportunity	Annual Cost Saving	Annual P2 Benefits
Join a VFD Incentive Program and Install VFDs	\$ 4,090	Save: 26,128 kWh/yr Reduce GHG Emissions: 26.1 MTCO2E/yr
Replace Motors Immediately	\$ 7,656	Save: 73,605 kWh/yr Reduce GHG Emissions: 69.9 MTCO2E/yr
Replace Motors at Time of Failure	\$ 16,222	Save: 144,230 kWh/yr Reduce GHG Emissions: 137 MTCO2Eyr