



Project Overview

Pfizer, Inc. (Pharmaceutical Industry)
Lincoln, NE

Intern: Afton Thumser
Major: Biochemical Engineering
School: University of Iowa

The Company

With 2004 revenues of \$52.5 billion, Pfizer is one of the nation's leading pharmaceutical manufacturers. Founded in 1849 by Charles Pfizer and Charles Erhart, Pfizer focus is the research and development of both human and animal health treatments (www.pfizer.com).

The Pfizer Global Manufacturing (PGM) facility in Lincoln, Nebraska, located on the northwest outskirts of Lincoln, specializes in animal health products. The Lincoln Pfizer production facility employs approximately 800 people and is one of Lincoln's largest industrial employers.

Project Descriptions

There were multiple pollution prevention (P2) projects performed in the summer of 2005. These projects include:

- Developed Resource Conservation Bright Ideas Program,
- Conducted EcoStores and release reduction education,
- Directed fiber drum and used bucket reuse,
- Established recycling in VMRD (Veterinary Medicine Research & Development) & DSM (Drug Substance Manufacturing),
- Set up glass bottle recycling,
- Conducted waste assessment of Pfizer Omaha, and
- Reassessed previous intern's work.

Pollution Prevention Benefits & Results

There were both tangible and intangible benefits resulting from the P2. These benefits are summarized in Table 1.

Table 1. Tangible and Intangible Benefits of P2 Opportunities

P2 Opportunity	Intangible Benefit(s)	Tangible Benefit(s)
Resource Conservation Ideas	<ul style="list-style-type: none"> • P2 education to all via <i>Weblinc</i> portal • P2 awareness boost • Upholds Pfizer corporate image 	
EcoStores & Release Reduction Education	<ul style="list-style-type: none"> • Awareness of deconstruction methods for engineering colleagues • Encourages green engineering • Informs of release information 	
Pfizer Omaha waste assessment	<ul style="list-style-type: none"> • Increased P2 awareness at Omaha facility 	<ul style="list-style-type: none"> • Potential 33.6 tons cardboard/year waste diverted from landfill • \$2808 in annual savings
Fiber drum and used bucket reuse		<ul style="list-style-type: none"> • 19.8 tons/year diverted from landfill or recycled • \$1428 in annual savings
Nalgene bottle recycling	<ul style="list-style-type: none"> • Enhance interdepartmental teamwork 	<ul style="list-style-type: none"> • 6.2 tons/year diverted from landfill • \$235 saved
Glass bottle recycling	<ul style="list-style-type: none"> • Build employee teamwork 	<ul style="list-style-type: none"> • 19.5 tons/year diverted from landfill • \$752 saved

The total quantified benefits from the 2005 projects include **79.1 tons waste diverted/year and an annual cost savings of \$5223.**