



**Partners in Pollution Prevention Intern:** Sarah Wallis

**Major:** Mechanical Engineering

**School:** University of Nebraska – Lincoln

### **Company Background**

Geist was founded in 1948 and began by providing power and telecommunications hardware management equipment to rapidly growing business markets. Over 60 years later, Geist now designs and manufactures intelligent hardware and software for the four cornerstones of data center management: Power. Cool. Monitor. Manage. Geist has 14 locations in the USA, one location in China, and three locations in Europe. Geist's headquarters in Lincoln, NE include a 65,200 square foot manufacturing facility. With more than 320 employees worldwide and customers across six continents, Geist continues to grow and lead in the production of data center monitoring products.



### **Project Description**

In 2014, Geist sought assistance through the Partners in Pollution Prevention (P3) Program in order to become a more environmentally friendly company. Specifically, Geist tasked Sarah Wallis with analyzing the power strip assembly operations with a goal of reducing material usage, energy and waste, to study the CNC punch press operations, and to investigate the current incoming and outgoing packing materials for replacement, reuse and enhanced recycling.

### **Pollution Prevention Benefits**

The recommendations listed below will allow Geist to become a more environmentally friendly company by conserving energy and resources. In addition, many of the suggestions will allow Geist to save money, thus shortening their payback period.

### **Results**

The benefits and results are shown in the following table.

Description	Cost Savings	Solid Waste Reduced	CO <sub>2</sub> e Reduced
General		6,600 lbs/yr	11 MT/yr
Power Strip Assembly Operations	\$250 /yr	25,500 lbs/yr	27 MT/yr
Punch Press Operations & Powder Coat Oven	\$12,000 /yr		97 MT/yr
Compressed Air & Lighting	\$11,000 /yr		93 MT/yr
<b>TOTAL:</b>	<b>\$23,250 /yr</b>	<b>32,100 lbs/yr</b>	<b>228 MT/yr</b>