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**Background**

Thermo King is located in Hastings, Nebraska and is a subsidiary of Ingersoll Rand that specializes in transportation temperature control. Thermo King manufactures thermal units and air conditioning units for trucks, buses, shuttles, and rail cars. The key processes at Thermo King are sheet metal and tubing fabrication, welding, powder paint application, assembly of units, material management, and shipping and receiving. The facility has over 400 employees and is one of the largest employers in the area.

**Project Description**

The main goal of this summer project was to document the various waste streams that result from Thermo King’s activities and to identify opportunities to reduce waste and the costs associated with it. Other pollution prevention opportunities related to energy and process improvement presented themselves throughout the summer and were further investigated as well.

**Pollution Prevention Benefits**

The table below illustrate the opportunities to reduce waste in Thermo King

**Table 1.** Pollution Prevention Benefits

<b>P2 Opportunity</b>	<b>Cost Savings (\$/yr.)</b>	<b>Energy Saving (kWh/yr.)</b>	<b>Waste Reduced Annually</b>	<b>GHG Reduction (MTCO2e/yr.)</b>
Switching paper towel dispensers to electric hand dryers	\$2,540	-	2,500 lbs.	0.2
Reusable Soldering cloths	\$5,000	-	1,400 lbs.	0.01
Turning fans and pumps off, replacing leaks	\$800	40,000	-	-
Common nest for bus parts	\$40,000	-	30,000 lbs.	1,080
<b>Total</b>	<b>\$48,340</b>	<b>40,000</b>	<b>33,960 lbs.</b>	<b>1,080</b>