

## Summary of Objectives

Objective	Baseline (2004)	Target
Methyl Chloride Stack Emissions	27,506 lb/year	Reduce methyl chloride stack emissions by 95% by 12/31/08.
Natural Gas Consumption	113,152 Dkthm/year	Reduce natural gas consumption by 10% by 12/31/06.
Wastewater BOD Loading	533,295 lb/year	Reduce wastewater BOD by 55% by 12/31/07.

### Methyl Chloride Stack Emissions

Since methyl chloride comprises more than 90% of the Evonik Goldschmidt Janesville facility's hazardous air pollutant (HAP) emissions, reducing these air emissions will greatly improve the facility's environmental performance. In 2006 Evonik Goldschmidt approved a \$2.3 MM project to reduce methyl chloride emissions. The project included the installation of a cryogenic condensation unit that is designed to recover  $\geq 95\%$  of the methyl chloride captured in the emissions control equipment. The installation was completed in late 2007 and is currently in the start-up/testing phase. Emission reductions will be reported in 2008.

### Natural Gas Consumption

The Evonik Goldschmidt Janesville site operates two natural gas fired boilers with maximum continuous heat inputs of 27.5 MMBtu/hr and 46.3 MMBtu/hr. In 2004, the plant consumed 113,152 Dkthm of natural gas. Through various projects and operational changes, Evonik Goldschmidt optimized the efficiency of these boilers and reduced the plant's natural gas usage by 7.0 % by the end of 2006 measured against the 2004 baseline.

### Wastewater BOD Loading

Due to the construction of a new manufacturing process, the Evonik Goldschmidt Janesville Plant unable to realize a BOD reduction in wastewater. In it place the Plant has elected to focus on an indexed reduction in electrical energy consumption.

### Electrical Energy

Since the base year 2004, the Evonik Goldschmidt Plant has increased production by 46% while over the same time period electrical energy consumption has increased by just 2.0%. This equates to 111 kilowatt hours/ton product in 2004 compared to 77 kilowatt hours/ton product in 2007.