H.J. Heinz

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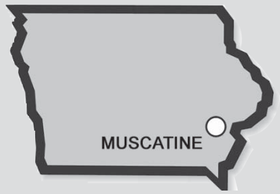

H.J. Heinz USA manufactures food products for both retail and food service markets. Established in 1869, the H.J. Heinz Company today is an enterprise with over 110 major locations worldwide. Selling nearly $3.3 billion annually worldwide in 140 countries, H.J. Heinz is the most international U.S.-based food company with leading brands on six continents. Synonymous with ketchup, H.J. Heinz produces more than 1.4 billion bottles of the condiment annually. The Muscatine facility currently employs approximately 250 employees in the pro-

Project Background

H.J. Heinz is committed to improving its environmental performance and does so largely through its Environmental Management System. As part of this commitment to continuous improvement, the Muscatine facility has identified several waste reduction opportunities. Objectives of this project involve reductions in utility use (heat recovery and reduced boiler demand), environmental emissions (reduce emission points through process modifications) and ultimately production costs through optimization and design implementation (water reduction) on several production lines.

Incentives to Change

H.J. Heinz USA is a company that is dedicated to continuous improvement and reducing the impact of production on the environment through efficient use of utilities, raw materials and packaging. Awarded "Best Environmental Program" for the 2006 fiscal year, the Muscatine facility clearly strives not only to comply with corporate principles established in its environmental policy, but to exceed them. This project, while reducing the environmental impact associated with production, also reflects Heinz's dedication to productivity, energy recovery and reduction in water use.

Results

Deaerator Conversion
Updating equipment in the deaeration system will improve efficiency as well as potentially eliminate 5 regulated emission points.

Heat Recovery via Product Cooling
Process steps involve heating product. Production equipment generates heat, which is currently dissipated, and this can be recovered to reduce natural gas use by $120,000 annually.

Process Utility Conservation
Additional process modifications, with potential pollution prevention benefits, are still under investigation.

Water Conservation
Implementing water conservation opportunities to control water flow will have an economic savings of $2,500.

Air Pollutants Diverted in Tons

	Total for all sectors
SO2	0.48
CO	0.90
NOX	0.54
VOC	1.1
LEAD	0.0
PM	0.43

Green House Gases Diverted in Tons (CO2 Equivalent)

	Total for all sectors
CO2	1,513.0
CH4	75.7
N2O	116.6
CFCS	2.2

Project	Annual Cost Savings	Environmental Results	Status
DEAERATOR CONVERSION	$71,000	Removal of 5 Emission points 80,000 therms 7,000,000 gallons water	Recommended
HEAT RECOVERY VIA PRODUCT COOLING	$120,000	136,000 therms	Recommended
PROCESS UTILITY CONSERVATION	Further investigation required		
WATER CONSERVATION	$2,500	6,800,000 gallons	Implemented