

OFFICE OF ENERGY EFFICIENCY

“Catalyzing the natural linkage of energy, economics and environment”

SUCCESS STORY: *Integrated Manufacturing Assessments*

*Job retention and community vitality are growing concerns for cities, towns, and villages across Ohio. There is a hidden arsenal of opportunities lurking within manufacturing plants – the potential to become more robust and develop a better economic base for the community. The **Integrated Manufacturing Assessment** brings energy, productivity and waste reduction together into a powerful planning and implementation tool – all with the goal of improving a manufacturer’s competitiveness.*

SNAPSHOT: *Plastic Injection Molding*

★ MEASURE

Raised light levels from 22 to 65 foot candles by painting all exposed wall and ceiling surfaces a light color and relamping.

Cost: \$250,000 **Annual Savings:** \$40,000

Simple Payback: 51/2 years

“We found our customer satisfaction escalated after implementing the recommendation. A more satisfied customer, coupled with worker efficiency, gave us more benefits than the 51/2 year payback shows. We’re continuing with the integrated plan as we generate other improvements in our operation.”

Quote from Plant Manger

An **Integrated Assessment Approach** usually begins with top management looking for ways to increase the bottom line. A team, which includes the experts and staff, is built within the plant. After an initial plant survey and analysis of cost centers, specific areas of the plant may be targeted for further evaluation. A project is implemented with evaluation in mind.

SNAPSHOT: *Metal Casting*

★ MEASURE:

Interruptible Rate and Peak Shaving

Cost: \$2,500 **Annual Savings:** \$90,000

Simple Payback: 31/2 months

★ MEASURE:

Compressed Air Systems Replacement

Cost: \$20,000 **Annual Savings:** \$8,000

Simple Payback: 21/2 years

★ MEASURE:

Foundry Sand Reuse

Cost: \$0 **Annual Savings:** \$50,000

Simple Payback: Immediate

★ MEASURE:

Annealing Furnace Improvements

Cost: \$26,000 **Annual Savings:** \$18,000

Simple Payback: 11/2 years

“With an interruptible demand, we went to the minimum to operate the plant, saving 1050KW per month. We ran cost and replaced the air compressor instead of repairing the old one. The sand now goes to our landfill for reuse instead of our paying to have it hauled away!”

Quote from Plant Manager

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