



Metal Casting

Save millions by improving operating efficiency and productivity

BestPractices
ASSESSMENT SUMMARY

Industrial Technologies Program
ENERGY EFFICIENCY AND RENEWABLE ENERGY, U.S. DEPARTMENT OF ENERGY

\$36 Million in Savings Identified in AMCAST Assessment

AMCAST and its partners applied a systematic plant-wide assessment (PWA) methodology to identify energy and cost saving opportunities at the corporation's facility in Wapakoneta, Ohio. The team initially identified \$3.6 million in savings opportunities resulting from increased energy and productivity efficiencies with a payback period of 3 months. Additional savings opportunities surfaced as plant personnel were implementing the initial recommendations, and the total saving opportunities have grown to nearly \$6 million.

Encouraged by these savings, AMCAST has replicated the PWA methodology at five plants throughout the corporation and introduced projects from the assessment into its other plants. AMCAST's strategy is

succeeding; company-wide saving will reach nearly \$36 million over the next several years.

The Wapakoneta facility spends millions of dollars and uses energy-intensive processes in its production of low-pressure aluminum castings for automotive suspensions. The team focused the assessment on all energy-intensive plant systems, including furnaces, boilers, electrical equipment, compressed air, fans, and pumps. Scrap reduction also resulted in increased productivity.

DOE funded the assessment at \$75,000 and required at least a matching amount from Anchor. The table below highlights the overall savings opportunities identified.

AMCAST Assessment Savings Identified	Annual Savings
Corporate-wide savings	\$36 million
Wapakoneta plant savings realized	\$6 million
Wapakoneta electrical energy savings	671,907 kWh
Wapakoneta natural gas savings	9,146 MMBtu

Project Partners

- AMCAST Industrial Corporation
Wapakoneta, OH
- Capital Surini Group International
- Edison Materials Technology Center
- Miami Valley Diagnostics
- Ohio Department of Development
Office of Energy Efficiency
- University of Dayton

To conduct your own Plant-Wide Assessment:

For technical details, visit:
www.oit.doe.gov/bestpractices/factsheets/amcast.pdf

Or, contact:
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Respond to annual PWA solicitations:
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