

Success Stories



Project Details:

Location:

4435 Brownway Avenue
Cincinnati, OH 45209

Project Contact:

Tom Mendel
(513) 321-8404
tmendel@performanceplastics.com

Technologies:

Upgraded hydraulic injection molding equipment and energy efficient water heaters

Funding Source:

American Recovery and Reinvestment Act – State Energy Program

Incentives:

\$234,974

Total Project Costs:

\$433,652

Energy Impacts:

- Reducing electricity use by more than 115,000 kWh annually
- Expected to reduce energy usage by more than 80 percent

Economic Impacts:

- Saving more than \$13,000 a year in energy costs
- Jobs created or retained: 32.5 FTE's*

Environmental Impacts:

- Reduced CO₂ emissions by more than 260,000 pounds per year, which is equivalent to taking 24 cars off the road.

*Job creation numbers are based on direct jobs created or retained using Full-Time Equivalent (FTE) hours.

Performance Plastics, Ltd



Background:

Performance Plastics, Ltd., founded in 1982, is a manufacturer of high performance plastic parts for the medical, energy, aerospace/defense, industrial, electronic, and food and beverage industries. From its inception, the company has focused on the application of highly engineered plastics for the performance advantages they provide when producing intricate part geometries with extremely tight tolerances.

Challenge:

Performance Plastics needed to upgrade their injection molding machines to more efficient electric models. These new units would increase uptime of production and allow Performance Plastics to hire more employees.

Solution:

Performance Plastics replaced three hydraulically-actuated, plastic injection molding machines with newer, energy efficient electric models. The machines are being purchased from a local company and will reduce energy consumption by 50 to 80 percent while also producing parts up to 50 percent faster compared to the existing hydraulic machines. In addition, the six energy efficient water heaters heat up molds used for production quicker and safer while using less energy.

"We are very excited to have the state assistance for our purchase of these state-of-the art injection molding machine and high-efficiency heating units. We process plastic materials at very high temperatures. Maintaining and holding those temperatures will help us produce even more complex parts...so we can continue to grow our business while also saving money on energy costs."

-Ken Kelly, General Manager, Performance Plastics



Department of
Development

Community Services Division, Office of Energy
77 South High Street, 26th Floor, P.O. Box 1001, Columbus, Ohio 43216-1001
Phone (614) 466-6797 Fax (614) 466-1864 energy@development.ohio.gov

www.energy.development.ohio.gov