



E3: ECONOMY - ENERGY - ENVIRONMENT
SUPPORTING MANUFACTURING LEADERSHIP THROUGH SUSTAINABILITY

Founded in 1973, Plastic Molding Technology, Inc.

based in El Paso, Texas has been providing custom and insert molded products for the electronic, medical, automotive and consumer appliance industries. Strategically situated on the border with Mexico near one the largest land commerce ports in the world, PMT Inc. has built a solid reputation as one of the leading injection molding companies in the USA. PMT is a TS 16949 registered company and ships to customers worldwide.

PMT employees are committed to excellence, by empowering people to think and communicate ideas that benefit both the customer and the company.

The Situation

PMT recognized the importance of responding quickly to their customers as business conditions changed over the past few years. Whether their customer requirements number in the millions or merely in pre-production quantities, PMT pays close attention to the details their customers demanded. Recent customer surveys challenged PMT to address new areas on their score cards which included sustainability issues and reduction goals for energy, water and solid wastes. PMT staff had recently conducted a plant wide energy audit, but was looking for a way to link their reduction projects into their management system. Then they were contacted by TMAC.

The Solution

PMT and TMAC had crossed paths several times over the years. TMAC recently contacted PMT about an EPA grant-funded

The Solution (cont)

opportunity to deliver an onsite training program to assist PMT staff in understanding how to identify all types of wastes, including Lean, energy and environmental wastes. TMAC and PMT also partnered with New Mexico State University's Institute for Energy & the Environment (IEE) for the delivery of the E3 onsite project.

Value stream mapping (VSM) proved to be a valuable tool and foundation to demonstrate the importance of integrating the wastes of Lean with the additional wastes of energy, water, materials and solid waste.

The E3 training included classroom time followed by walks of the production floor as a cross-functional team including quality, maintenance, managers and production staff identified various wastes They followed the product's flow throughout the entire facility.

Impact:

- \$54,000 in cost reductions
- 40,000 gallons of water reductions
- 56 tons of solid waste reductions
- 126 tons of CO2 reductions
- 187,725 kWh reductions
- \$200,000 new sales

Customer:
PMT
<http://pmtinc.com>

County:
El Paso

Industry:
Plastics

NAICS:
333249

TMAC Services
E3 Assessment

Who to contact:
TMAC Specialist
Conrad Soltero
(915) 204-3525

success
story



The team discovered boxes were moving back and forth from packaging, and the warehouse was waiting up to an hour before items were advanced in the flow system. Employees were also double-handling materials which accounted for over 15 minutes of time which occurred 4 times per day.

The team also identified over 13 compressed air leaks to be repaired. This will not only save money, but the electrical savings translate into CO2 reductions.

Additionally, the team questioned the use of colored labels which could be replaced with a lower cost white label. Everything within the plant was questioned by asking “are we using the minimum amount necessary?” and “how is this adding value to our customers?”



Results

- **Projected \$6,000 annual savings from eliminating compressed air leaks**
- **Projected \$200,000 in new sales from satisfied customers**

Beyond immediate cost savings, PMT recognized that the E3 training would now give them the information needed to help get additional points on their customers' score card, helping them secure new sales. PMT commented that they were “very impressed with the delivery of this training and was looking forward to working with TMAC and New Mexico State University in the future.”

“By participating in the E3 program, PMT management expects to have greater cooperation with customers and suppliers on mutually beneficial clean production, green packaging and shared environmental objectives. PMT would like to give special thanks to the U.S EPA and TMAC for sponsoring this work and helping fund this project.”

Charles A. Sholtis
CEO, PMT



Take the first step to a more successful future!
Contact TMAC today for your free mini-assessment.
Call 800-625-4876 or visit our website at www.tmac.org