

# Plastics Resin Processing



## SEG's Continuous Energy Improvement Program:

- Program Charter drafted
- 10% energy savings goal established
- Integrated Lean Manufacturing Tools Value Stream Mapping & Kaizen Event
- Cross Functional Energy Team formed
- Energy Awareness program developed
- Regression Model reports Savings
- Employee engagement process defined



Strategic Energy Group works with manufacturing companies to reduce operating costs by adopting a continuous improvement process that focuses on energy efficiency.

This case study features one of the nation's leading high-performance plastics material manufacturer. The Northeast plant's annual total energy cost was \$2.8M. Energy savings goal was 10%. The plant worked with SEG for 12 months to adopt the Continuous Energy Improvement process.



### Annual Electric Cost:

- 13,455,250 kWh - \$769,000 annual spend



### Energy Scan Savings:

- "Shut it off" campaign
- Compressed Air system maintenance & repairs reduced electric spend \$12,000
- Rebuild bag house vents – \$22,000
- Repair 11 leaking dust collectors \$29,000 in electrical cost
- Energy Awareness campaign.



### CEI Performance Year 1

- Actual Savings: 1,097,021 kwh or 8.2%
- Saving Goal: 1,345,525 kWh or 10%
- Reduced Electric Spend by \$61,433