



Triumph Thermal Systems' Culture of Efficiency

A serious commitment leads to serious savings

Rethinking processes that have been in place for decades is a challenge, but for a long-running aerospace and defense manufacturing plant like Triumph Thermal Systems, the potential gains from transitioning to more energy-efficient operations were worth the effort.

It started with an ambitious goal to lower the Forest, Ohio plant's total energy consumption by 13 percent. To get there, team leaders motivated their peers to reduce their daily energy use. Second, they worked with AEP Ohio and solution provider Green Options to create energy savings through efficiency upgrades. "The process really took off like wildfire," stated Lance Blackburn, Triumph Thermal's Manager of Technical Services. "Everyone saw it as a challenge to succeed."

Low-and no-cost changes included horsepower reductions, an optimized well pump and formalized equipment shutdowns to drastically reduce unnecessary energy consumption. Capital projects included lighting and VFD upgrades within the manufacturing facility.

But Triumph Thermal didn't stop there. Currently, they are participating in the AEP Ohio Process Efficiency Program, installing efficient new heat treatment and curing ovens.

"Everyone saw it as a challenge to succeed."

— Lance Blackburn
Manager of Technical Services
Triumph Thermal Systems

Project brief:

Upgrade:

Lighting and VFD upgrades

Annual energy savings:

\$131,431

Incentives paid:

\$43,048

Note: The annual energy savings are calculated using an electric rate of \$0.08 per kilowatt hour (kWh).



Many energy efficiency upgrades were made to the Triumph Thermal Systems facility in Tiffin



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