



Guardian Lima Looks Out for Energy Savings

Efficiency upgrades improve output and save money

Guardian Lima, LLC, a leading ethanol production facility, runs around the clock—so it's vital that production be as efficient as possible. With a goal of reducing the kWh used per gallon of ethanol produced, they sought the expertise of AEP Ohio and Energy Management Solutions, Inc. (EMS). Together, they identified and then quantified savings opportunities. "Downtime is never really an option for these guys," stated Gary Swanson, EMS President. EMS developed a "shortlist" of recommendations to lower the plant's overall operating cost related to production with as little downtime as possible.

Guardian Lima set about implementing the recommended energy-saving measures in all eight sections of its plant, taking advantage of incentives provided by the AEP Ohio Process Efficiency and Self-Direct Programs. "The process improvements resulted in a new plant record in ethanol production—a 12 percent increase," continued Swanson.

Not only did Guardian Lima lower its production costs and conserve energy, but it also experienced another positive side effect. Their actions helped the company do its part to reduce greenhouse gases.

"The process improvements resulted in a new plant record in ethanol production."

— Gary Swanson
President
Energy Management Solutions, Inc.

Project brief:

Upgrade:

Production process improvements

Annual energy savings:

\$1,194,528

Incentives paid:

\$655,676

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



Guardian Lima's energy-saving process improvements benefit production and the ozone layer



An AEP Company