

White Paper CONNECTION

Actual Title of the White Paper is the Headline Shown Here

Author Name | *Title of the Author*

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Rust Belt Plant goes green, saves \$1.3 million annually

Reducing operational costs through constant plant upgrades is a big contributor to profits, in good times and bad. As a leading manufacturer, Siemens understands that when times are good and the upgrade have paid for themselves, the savings are calculated every year. When times are bad, the savings for every unit produced is multiplied when volume returns to normal. These cost reductions can come from obvious places, including replacing outdated and energy-wasting equipment, enhancing lighting systems, and optimizing processes. In any case, taking a hard look at ways to cut energy costs is always worth the effort.

For example, in 2007 Siemens completed a \$30 million upgrade of its Norwood, Ohio motor manufacturing facility. The upgrade included a renovated test facility and helped increase annual capacity by 50% to 5,000 motors, ranging from 200 HP to 18,000 HP.

Continuous plant improvements should be considered for almost any plant, despite the age. The Norwood plant, for example, was built in 1998 and is one of the nation's oldest continuously operating manufacturing facilities. In 2008, the plant turned its attention to energy cost saving upgrades that are dramatically impacting the bottom line.

The upgrade included an expansion to the existing 350,000 square foot plant, bringing the total square footage to 520,000, included

In the overall annual savings was a utilities infrastructure upgrade in that saved \$200,000 and a testing department improvement that saved \$288,000.

In total, the improvements are saving the Norwood facility \$1,340,000 annually in energy savings and have helped raise profits three fold. Additionally, the plant's carbon footprint has been reduced by 12,200 tons annually.

Test equipment first improvement
 All of the plant's test equipment was replaced, some more than 50 years old, with state-of-the-art Siemens variable frequency drives and generators to increase test productivity and reliability. An antiquated water pump used for load testing was replaced with Siemens SIMOVERT™ medium voltage variable frequency drives with an active front end that feeds surplus power back to utility grid.

Outdated voltage generators were replaced
 with low voltage and medium voltage models that facilitate specific tests up to 6,000 volts. A 5,000 kVA generator was added to test the large 50-hc motors up to 18,000 HP.

The improvements also included upgrading testing vibration and efficiency software to enable tests to start, stop, and load test motors remotely. This increased safety and productivity over the manual operation by XX%.

White paper

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