



# White Paper CONNECTION

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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 of industrial electric motors, we know that when times are good and the upgrades have paid off, the savings can be significant. When times are bad, the savings for every unit produced more than make up for the cost of the upgrade. These cost reductions can come from obvious places like replacing old equipment with energy-saving equipment, enhancing lighting systems, and upgrading building envelopes. 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 \$1.3 million upgrade at the Norwood plant, one motor manufacturing facility. The upgrade included a renovated test facility and improved infrastructure. The improvements included continuously operating manufacturing facilities, which required significant attention to even greater cost savings upgrades that are dramatically impacting the bottom line.

Continuous improvements keep profits growing. Upgrades are often considered for almost any plant, despite the age. The Norwood plant, for example, was built in 1957 and has been in continuous operation since. The plant's mission is to support a global customer base with a variety of products and services. The improvements also included upgrading test equipment to enable faster and more reliable tests. The upgrades 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 the new \$202,000 and a testing department investment of \$100,000.

In total, the improvements are saving the Norwood facility \$1.346,000 annually in energy costs and have reduced its footprint three-fold. Additionally, the plant's carbon footprint has been reduced by 12,000 tons

Test equipment first improvement All of the plant's test equipment was replaced with state-of-the-art variable frequency drives and generators to increase test productivity. The original 100-hp magnetized water dyne used for load testing was replaced with a 100-hp variable frequency drive and a variable frequency drive 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Outdated voltage generators were replaced with low voltage and medium voltage models that facilitate speeds ranging up to 6,000 rpm. The original 100-hp magnetized water dyne was replaced with a 100-hp variable frequency drive and a variable frequency drive with an active front end that feeds surplus power back to utility grid.

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