



# AG Implement Manufacturer GOES GREEN!

## THE CHALLENGE

Faced with increasing utility costs and higher manufacturing and overhead expenses, this company was looking for ways to cut costs and become more sustainable, as well as be more environmentally friendly. Power quality problems also plagued this facility causing repeated downtime events and added replacement costs. Along with what seemed like annual energy cost increases from the utility company, this facility was also being assessed a monthly penalty for inefficiently using the energy they were being delivered.

## TEC SOLUTION

TEC utilized its holistic approach to energy savings and efficiency improvements by installing a full Voltage Conditioning System throughout their electrical grid to eliminate the power quality issues and protect their equipment, Intelligent Motor Controllers on the fixed speed motors that had varying loading conditions, Power Factor Correction Units on the applicable motors and compressors, SmartCool Units on their air conditioners, and a full, state of the art LED Lighting Package both indoor and outdoor to round out the optimization package. There were two goals with this project:

1. To fix the power quality issues
2. To reduce expenses and become more sustainable

*"Our energy savings are right on target, we haven't had any power problems since install, and our utility penalty has been eliminated. We are very happy!"*

*- Facility Engineer*

## RESULTS:

### FACILITY TYPE:

AG Implement Manufacturer

### LOCATION:

North Dakota

### BASELINE ENERGY EXPENSE:

\$181,000

### ANNUAL REDUCTION IN ENERGY USE:

16%

### PROJECTED PAYBACK:

20.1 Months

### GREEN IMPACT:

Annual KWh Savings = 271,104

Cars Removed = 23

Trees Planted = 767



**TOTAL ENERGY CONCEPTS**