

New England Energy Patented Motor Load & Lighting Solutions



CLIENT



**Miller Recycling
CORPORATION**

Project

This facility is comprised of 73,000 square feet of high bay warehouse, a high production baling system, is equipped with an on site truck scale, 3 additional floor scales, 10 loading docks, full 4 car railroad siding, maintenance area, office facilities, conference

The project consisted of 100- 400 watt HID fixtures, 52- T12 8' strip lights, 46- T8 3 Lamp prismatic 4' troffers, and 19- 2 U bend T8 2' troffers. The baling system contained 2- 3 phase 125 hp inductive motors.

Execution

All HID fixtures were replaced with 4 lamp T5 fixtures 20 of which contained motion sensors utilized for low traffic areas. The 4' 3 lamp troffers were retrofitted with 2 lamps, new ballasts, lamp sockets and reflectors. The remaining 2' troffers were retrofitted with 2 linear lamps, new ballasts, sockets, and reflectors.

Motors were analyzed and sized for the optimum amount of capacitance. These capacitors were then installed at the motor contactors to relieve the inrush current and reduce the I²R losses within the infrastructure.

The project was completed on schedule without any disruption to the work environment. In high traffic areas the work was completed before and after work hours to accommodate the business needs.

RESULTS

Previous Wattage Consumed:	167,590
Wattage Saved:	111,856
First Year Savings:	\$20,634
ROI:	9.8 Months

