

Automatics & Machinery Company, Inc | Longmont, CO



Powered by: **PACE EnergySmart Longmont Commercial Efficiency Matching Grant Program**

Originally, we just wanted a better lighting system for our warehouse. The warehouse high bay lights left dark areas and an inconsistency in light coverage. So, we investigated and discovered new brighter & energy saving lights. These lights are more than 3 times the lumens at 20% of the energy usage. VERY IMPRESSIVE.

This turned into a discussion which lead us to Mary Wiener, Business Sustainability Specialist with the EnergySmart program. To say that she was helpful would be grossly understating what she brings to the table.

We proceeded with retrofitting the entire warehouse and office for slightly more than what we expected to pay for the warehouse. This process was relatively painless and added a new and improved look. Our customers are impressed, employees are thrilled with the clarity and brightness throughout, reading the computer screens is less stressful, and we are saving money! Part of this great experience also has to be attributed to Energy Solutions Unlimited who coordinated the electrician and installation.

Steve Beck, President Automatics & Machinery Company, Inc., Longmont CO 80501

Overview

Automatics & Machinery Co., Inc. owns and occupies the 18,000-square-foot office and warehouse space located on Martin Street in Longmont. Lighting in the office area was provided by T12 fluorescent fixtures, incandescent track and recessed can bulbs, and a few T8 fixtures. The warehouse space was lit by metal halide high-intensity discharge (HID) fixtures and a variety of T12 fixtures. Exterior lighting was provided by HID pole and wall-mount fixtures and a number of recessed CFL bulbs in the front soffit. The office space is heated and cooled by roof-top units and the warehouse space is heated by a series of radiant tube heaters. The heating and cooling were controlled by two non-programmable thermostats in the office area and five nonprogrammable thermostats in the warehouse. In the warehouse, there is a roof-top fan and two smaller ceiling fans for moving air in the summer months but there were still thermal comfort issues.

Project Description

Automatics & Machinery did a complete lighting retrofit project of the office area and warehouse that included replacing incandescent Exit signs with LED exit signs, replacing metal halide recessed and spot lights with LED and CFL lighting, retrofitted T12 lamps to T8 lamps, replaced 400 watt metal halide fixtures with 6 lamp T8 fixtures, and installed 20 watt LED wall pack on the exterior of the building. Additionally, they installed six Airius Thermal Equalization fans in the warehouse and one in the office reception area.

Lighting Upgrade

- **Replace incandescent fixtures with CFL's and LEDs**
- **Replace all T12s with T8s**
- **Replace 400-watt metal halide with 6-lamp T8 fixtures**
- **Replace incandescent exit signs with LED**

Project Cost:	\$20,268
Rebates and Incentives	\$12,068
Project Cost After Rebates:	\$8,200
Annual Energy Cost Savings (At current energy prices):	\$2,445
Simple Payback (Including incentives, at current energy prices):	3.4 years

Install 7 Airius Thermal Equalizer Fans (6 in warehouse and 1 in office reception area)

Project Cost:	\$5,124
Rebates and Incentives	\$854
Annual Energy Cost Savings (At current energy prices):	\$901
Simple Payback (Including incentives, at current energy prices):	4.1 years
Lbs CO2 savings per year	14,311



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