

PISTON AUTOMOTIVE CASE STUDY

\$204,000 In Annual Energy Savings
By Upgrading To LED Lighting

SCAN TO VIEW FULL CASE STUDY



Overview

The Safety Source LLC, an innovative Safety and LED lighting company, undertook a comprehensive LED retrofit upgrade for their client Piston Automotive. This project involved replacing various outdated fluorescent and metal halide fixtures with high-efficiency LED fixtures across different sections of Piston Automotive's facilities.

Project Objectives

Reduce Energy Consumption:

Significantly cut down on energy usage through the installation of efficient LED lighting. Implement network lighting and occupancy sensors.

Improve Lighting Quality: Enhance the overall lighting quality within Piston Automotive's facilities.

Environmental Impact: Lower the carbon footprint by reducing energy consumption.

Results

Energy Savings: The project achieved a 65% reduction in energy use across various lighting applications, with occupancy sensors helping to minimize energy consumption in low-traffic areas.

Lighting Quality: Switching to LED fixtures significantly improved lighting quality, enhancing visibility and comfort, and more than doubling light quality in some areas.

Cost Savings: The energy savings translated into **\$204,003.32** in annual energy cost savings for Piston Automotive. Additionally, annual maintenance costs were reduced by \$30,127.83, leading to **total savings of \$1,073,767.74 over five years.**

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Clinton Twp. Michigan



Environmental Impact

65% Carbon Reduction

Cars Removed From Road

Equivalency **261**

Number of Trees Planted

Equivalency **20,536**



Savings & Rebate

Annual Electricity Savings

\$204,003.32

Maintenance Cost Reduction

\$30,127.83

DTE Energy Rebate **\$183,120.00**



Rayback/ROI

<1 Month ROI

5 Year Warranty on Fixtures

Before



After

