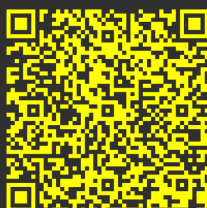


FLEX-N-GATE STAMPING CASE STUDY

\$23,000 In Annual Energy Savings
By Upgrading To LED Lighting

SCAN TO VIEW FULL CASE STUDY



Overview

The Safety Source LLC partnered with Flex-N-Gate Stamping to implement a strategic LED lighting upgrade at their production facility located in Warren, Michigan. The facility relied on legacy high-bay fluorescent lighting with no occupancy controls, resulting in excessive energy consumption, high operating costs, and inefficient lighting performance.

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 Flex-N-Gate Stampings facilities.

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

Results

Energy Savings: The project achieved a **67%** reduction in energy use across production areas, with network lighting controls that help to minimize energy consumption in low-traffic areas.

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

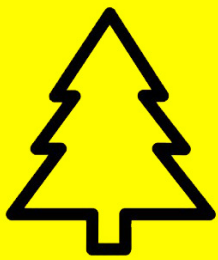
Cost Savings: The upgrade translated into **\$23,000** in annual energy cost savings for Flex-N-Gate, along with **\$32,271.36** in rebates. Additionally, annual maintenance costs were reduced by **\$5,800**, leading to **total savings of \$730,142.60 over twenty years.**

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Environmental Impact

67% Carbon Reduction
Cars Removed From Road
Equivalency 34
Number of Trees Planted
Equivalency **2,699**



Savings & Rebate

Annual Electricity Savings **\$22,853.37**
Annual Maintenance Cost Reduction
\$5,803.20
DTE Energy Rebate **\$32,271.36**



Rayback/ROI

<11 Month ROI
10 Year Warranty on Fixtures

Before



After



Litetronics LiteSmart App

Control is at your fingertips with the Litetronics LiteSmart App. With the app, all fixtures can be grouped based on the needs of the application. Adjustments can be made to brightness as well as occupancy sensing, daylight harvesting, and time scheduling. Custom scenes can be created to achieve various lighting configurations within a space.

