

# AUTOMOTIVE FACILITY CASE STUDY

## AT A GLANCE

Building Type: Manufacturing  
Sector: Private  
Taxpayer Type: Owner  
Location: Elkhart, IN  
Service: Production  
Tax Incentive: §179D  
Total SF: 141,080



## PROJECT OVERVIEW

This privately owned manufactory was designed and constructed using high energy-efficient technologies, Cooper lighting LED Fixtures, Trane gas-powered electric Roof Top Units (RTUs), and Powrmatic air turnover units.

Making the correct capital improvements on your building can be essential to the amount of energy cost savings you will achieve. Improved indoor air quality (IAQ), occupant wellness, and lower maintenance costs are just a few other benefits associated with the correct systems. The construction measures made on this warehouse allowed them to achieve a significant **51% in energy cost savings**.

**The successful implementation and upgrade to various systems have made the designer of the EECBP eligible for a §179D Tax Deduction of \$756,188.80**

## ENERGY MODELING PARAMETERS

| PARAMETER         | REFERENCE BUILDING MODEL       | PROPOSED BUILDING MODEL                  |
|-------------------|--------------------------------|--|
| Interior Lighting | 90.1-2007 minimum requirements | 0.51 W/SF                                |
| Envelope          | 90.1-2007 minimum requirements | Wall R-19 / Roof R-30                    |
| HVAC              | 90.1-2007 minimum requirements | Trane RTU 13 SEER , 80% AFUE & Powrmatic |

## SYSTEMS OVERVIEW

### LIGHTING

Upgraded: NO  
Previous Tech: N/A  
New Tech: LED  
New Brand: Cooper Lighting



### HVAC - HEATING

Upgraded: NO  
Previous Tech: N/A  
New Tech: Heating Air  
Turnover Unit  
Brand: Powrmatic



### HVAC - COOLING

Upgraded: NO  
Previous Tech: N/A  
New Tech: Gas-Fired RTU  
Brand: Trane



## EPACT2005 AND §179D COST BENEFIT ANALYSIS

|                                       |                     |
|---------------------------------------|---------------------|
| TOTAL BLDG SQ. FOOTAGE                | 141,080             |
| TAX BRACKET                           | 30%                 |
| TOTAL ASSUMED SQ FOOT DEDUCTION       | \$5.36              |
| TOTAL DEDUCTION:                      | \$756,188.80        |
| <b>§179D TAX DEDUCTION CASH VALUE</b> | <b>\$226,856.64</b> |

Walker Reid is a licensed professional engineering firm who specializes in performing §179D studies. Through our extensive experience we have been able to refine our processes to maximize financial benefits while reducing our clients internal costs and efforts.

As industry leaders, Walker Reid, actively participates in numerous national organizations related to both energy efficiency and specialty tax services. Our staff of experienced engineers and advisers are well versed in a variety of energy and tax related policies. Additionally, our engineers are trained and certified energy raters who come prepared to perform accurate site audits and energy analysis.



### Contact me to get more info:

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