

**Owner**  
Large Auto Manufacturer

**Location**  
Ohio, USA

**Contract Type**  
Lighting Retrofit

**Contract Amount**  
\$5,425,000

**Electrical Contractor**  
FSG

**Energy Savings**  
\$915,714 Annually

**Number of Fixtures Replaced**  
10,272

**Annual kWh Reduction**  
13,469,574



*As the project progressed, you could see the previous yellow-tinged lighting side-by-side with the new brighter, whiter energy efficient LED lighting.*

## LARGE AUTO MANUFACTURER Ohio, USA

When one of the largest auto manufacturers in the U.S needed to retrofit its 2.4 million square foot transmission assembly plant, they trusted FSG to get the job done.

### CHALLENGE

When a large auto manufacturer announced in 2014 that they were upgrading all of their existing lighting to new more efficient LED lighting, the challenge quickly became how to execute such a large scale project with minimal disruption to production schedules and facility operations. Contractors for this project had to be able to work under tight deadlines and in restrictive environments where production was happening 24 hours a day, 7 days a week. Add to this the necessity to maintain confidentiality and an adherence to the kind of prudence required when working around high end research and development projects and it quickly became clear that only a select few contractors would be able to make this project a reality.

### SOLUTION

FSG has been working with companies and corporations of all size and scale for more than 35 years. With a proven track record of performance in the most challenging environments, FSG was chosen as one of the few contractors that the auto manufacturer could partner with to execute this monumental project. FSG worked to procure the right products and develop timelines and procedures that would not only work for the customer, but ultimately help them accomplish the project more efficiently and effectively than originally thought possible.

**Facility Solutions Group**  
37689 Schoolcraft Road  
Livonia, MI 48150



# What is the environmental impact?

What effect does 13,469,574 kWh savings have on the environment?

It's equivalent to...

Greenhouse gas emissions:



**3,493 tons**

of waste recycled instead of landfilled every year

CO<sub>2</sub> emissions:



**1,082 homes**

energy use for one year

Carbon sequestered:



**11,807 acres**

of U.S. forests preserved from conversion to cropland every year



All figures taken from the EPA's Greenhouse Gas Equivalencies Calculator 10/17

FSG has performed energy reducing projects for over a dozen automotive manufacturing sites for the past five years, converting primarily to LED lighting and control systems. FSG's participation in these various customer programs has contributed over \$5 million annually in energy savings.

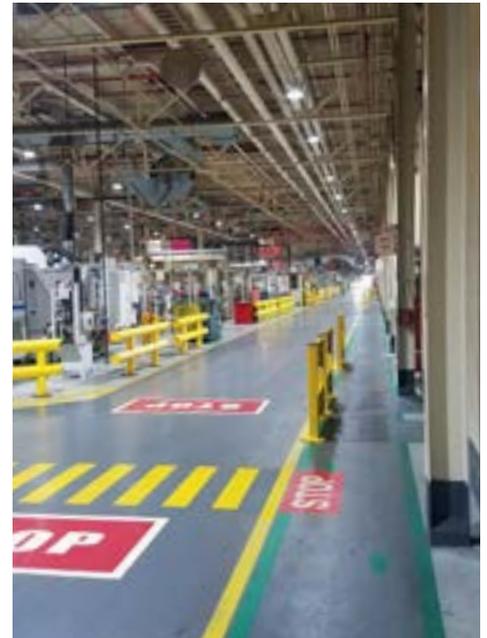
## ADDITIONAL BENEFITS

In the end, FSG was able to complete the project and deliver the results the customer was looking for. Results of this project included:

- Better quality lighting
- Reduced energy consumption
- Reduced maintenance costs
- Improved working environment
- Better color rendering
- Additional savings due to reduction of lost productivity when lights recycle



*Before the LED retrofit.*



*After LED retrofit*

