



**FEATURED PROJECT**

# Washington State Steel Manufacturing Plant

## Ally's Lighting Retrofit Helps Steelscape Meet Their Sustainability Objectives

Steelscape is a steel manufacturing company with locations in Washington and California. As a producer of Energy Star and LEED approved metal roofing products, Steelscape fosters a workplace culture and business philosophy based on safety and environmental stewardship. When they wanted to improve the lighting at their Washington facility, they turned to Ally for the project's audit, design and turnkey implementation.

After a comprehensive audit, Ally determined that a LED lighting retrofit with sensor controls would save Steelscape tens of thousands of dollars annually in energy costs, while improving occupant comfort and streamlining lighting maintenance.

### LED Lights and Sensors

By replacing the existing metal halide and fluorescent lights with more efficient LED lighting and sensor-based controls, Ally was able to improve lighting quality throughout the facility while reducing annual utility costs by nearly \$70,000. To extend fixture life, Ally used industrial-grade frames and chassis that are designed to resist corrosion in heat and steam rich environments.

### Implementation Plan

With numerous assembly line configurations, multiple cranes moving in and out of the facility, and ceiling heights soaring up to ninety feet in places, project layout and implementation was of critical importance. In order to streamline ongoing maintenance, Ally used the same lighting systems throughout the facility with configuration modifications as needed. To account for extreme ceiling height, Ally used wireless controls, which allows for greater distance between sensors and fixtures. Finally, the selection of LED lights, which have significantly longer lifespans (up to 100,000 hours) than other options, reduces maintenance risks associated with constantly having to work on lights positioned at extreme heights.

### Utility Costs Financing Offset

Nearly half of the project was financed by utility rebates and incentives, while the rest was offset by the savings generated by improved efficiency. In just under three years, the project will have paid for itself in saved utility costs, with a total of nearly \$500,000 of cash flow freed up over the first ten-year period.

### Featured Project by the Numbers

Annual Energy Savings  
**>1.2 Million kWh**

10-Year Positive Cashflow  
**>\$500,000**

Annual Cost Savings  
**\$70,000**

Utility Rebates and Incentives  
**\$160,000**

Upfront Investment  
Simple Payback  
**<3 Years**



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