
Plant Lighting Retrofit Project Summary Industrial Facility Retrofit Showcase Owensboro, KY Facility



Quick Facts:

- Total project cost: \$70,755.47
- Matching American Recovery and Reinvestment Act Funds: \$35,377.74
- 9.25 month payback on HHC investment (including grant and tax incentives)
- 31% overall increased lighting quality (measured average 32 foot candles before, 42 after)
- Calculated Annual Environmental Sustainability Impact:
 - ✓ \$31,617.96 annual savings in lighting costs.
 - ✓ 445,323 kWh reduction
 - ✓ 35 MMBtu/yr in natural gas savings
 - ✓ 1,387 MTCO_{2e} reduction
 - ✓ 1,345 research and contracted labor 'green' hours

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Hausner Hard-Chrome, Inc.

Developers of H. H. CHROMESEAL®
Locations in Illinois and Kentucky



Summary

On Friday, March 2, 2012 Gov. Beshear announced Hausner Hard-Chrome (HHC) as one of four companies selected to receive American Recovery and Reinvestment Act (ARRA) funding through the Kentucky Cabinet for Economic Development (KCED). With the help of the Kentucky Pollution Prevention Center (KPPC) with the University of Louisville and Equipment Depot, HHC partnered with the Kentucky Cabinet for Economic Development to receive this funding to retrofit their plant lighting for energy conservation purposes. The results include: a reduction in utility usage and cost and the associated carbon footprint, production of 'green' jobs, a safer working environment, and improved equipment reliability. These grant funds played a critical role in bringing this project to completion within the desired timeline.

About HHC

HHC is a fourth generation family owned plating and industrial coatings company that has its roots in 1930's Germany. There are now Facilities in Elk Grove Village, IL and Owensboro, KY. Our partnership with KPPC has allowed HHC to leverage technical resources available through KPPC and share ideas with other manufacturers in KPPC's Kentucky Energy Alliance as we pursue environmental sustainability (ES) improvements.

Project overview

This project began with the ES assessment for HHC provided by KPPC as one of several improvement opportunities described in the report revealing real saving opportunities. Some of the topics considered were energy efficiency, fixture type, light quality, life expectancy, and overall reliability. KPPC made HHC aware of Kentucky's Industrial Facility Retrofit Showcase grant solicitation as well. We then proceeded to develop a plan that would provide the right lighting replacement for the right return on investment. Our lighting vendor was experienced with grant reimbursement projects and provided the necessary info. We found that the replacement lighting retained 94% of its start-up light quality for the duration of its life, while the old fell from 71% to 52% through its life. It has a 20% increased life expectancy, reducing labor and production conflicts in limited accessibility areas. It's instant-on versus delayed start, and is 31% more candles and brighter white color providing a safer work environment and improved morale. These products are American made as well. All the installation work was completed in February, 2012, and the following electric bill reflected the improvement. The old fixtures were donated to a not-for-profit, subsidized, special needs employment facility, reducing their operation costs as well. The new fixtures were sized and installed as a one to one replacement for installation efficiency, with some actually being eliminated as a result of increased light quality. Better lighting provided at less cost equals tremendous results!

Closing

HHC is very thankful for this partnership with the Kentucky Cabinet for Economic Development. We are promoting the benefits of this project on HHC, KPPC, and Equipment Depot websites, along with multiple industry websites, magazines and societies. Investing in these projects will provide permanent savings and benefits for the Company and the community. HHC continues to offer mentoring to other facilities locally and throughout KY, and looks forward to future opportunities to partner with the State of Kentucky to improve our environment.

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Before

Transformer Room

After



Before

Machine Shop

After

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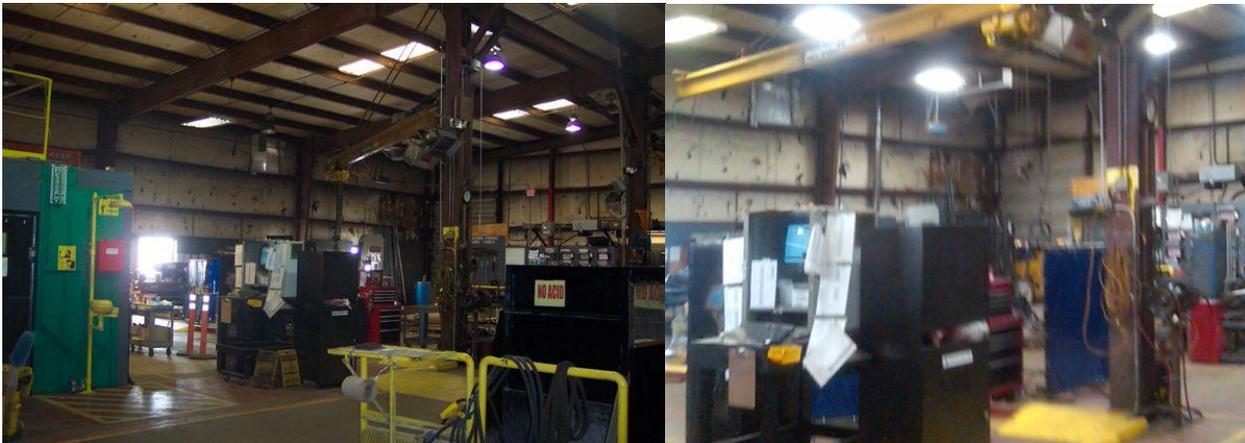
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Before

Polishing Area

After



Before

Fixturing Area

After

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