



Parking Garage Kansas City, MO.

About the Client

Zimmer Real Estate Service is one of the premium property management companies in Kansas City. They are committed to sustainable business solutions and minimize operating costs and maximize the full value of their properties.

Project Cost/Savings...

Total Cost: \$25,412

Rebates & Incentives: \$18,985

Net Price: \$6,427

Annual kW Savings: 22,687

Annual Energy Savings: \$2,357

Projected R.O.I.: About 2 years



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Project Features...

About the Project

Replaced energy consuming end-of life HPS technology with premium T8 and LED technology.

75% reduction in kWh consumed.

73% of project cost offset by rebates and tax deductions.

Savings

Cut demand usage in half.

Reduced greenhouse emission by 42,005 pounds of carbon dioxide. Equivalent to annual greenhouse emissions from 2,136 gallons of gasoline consumed or the electricity usage of 3 homes.

Annual utility and maintenance savings of more than \$3,000

About Worldwide Energy..

As commercial energy efficiency experts, we help our clients minimize utility expenses with energy efficiency lighting, efficient heating & cooling, and building envelope solutions.

Our efforts focus primarily on the areas that provide the greatest utility cost savings and where financial incentives create a rapid return on investment.

Worldwide Energy offers a total turnkey solution; utility rebate and Federal EPCAct filing services (provided at no additional charge); complete design & installation services; recycling and project financing. Our services usually have a 2 year or less return on investment.

Project Objectives:

- Reduce annual operating expense
- Reduce energy consumption
- Enhanced lighting atmosphere
- Improved aesthetics and image of the building
- Increased safety for patrons
- Rapid return on investment
- Professional installation within a limited time frame

The Parking Structure Solution:

Common lighting issues in parking garages include dark shadowy areas, poor light quality and continued maintenance expense. Properly illuminated parking structures create an inviting environment, which creates a sense of security for both pedestrians and drivers.

For this 30,000 square feet 2-level parking garage we implemented a one for one replace of 33 HPS fixtures with high-intensity fluorescent (HIF) vapor-tight fixtures. The project included installation of daylight/motion sensors around the perimeter of the 2nd floor.

This lighting upgrade was completed within 3-days with minimal disruption to the building occupants.

Recommendations & Benefits

Better Visual Acuity – the specified lamps will result in significantly higher lumen maintenance, more uniformity of illumination, and 30% higher color rendering index (CRI).

Reduced Maintenance, Repair and Replacement Expenditures – with warranties of 5-years on the ballast, and 36-months on the lamps and a 55,000 hour lamp life the results will be lower maintenance costs.

Indirect Utility Expense Reduction –the specified fixtures will reduce peak demand charges.

Photos

