



Lighting Upgrade Case Study

CASE STUDY: Hewitt Parking Garage

Lighting Upgrade Reduces Energy Consumption and Improves Light Quality



Situation

JLL/Hewitt Associates were using inefficient lighting in their parking garages which was wasting energy and producing substandard light.

Solution

LightSource Unlimited replaced the 150W High Pressure Sodium lighting with more efficient T-5 vapor proof fixtures that offered significant energy savings along with improved quality of lighting.

Benefits of Upgrade

The overall annual energy consumption was projected to be reduced by 61%, resulting in an annual savings of \$73,586. The existing amperage readings were at 502 amps combined. The new amperage readings are now at 179 amps, which equates to a 64% reduction realized while increasing foot candle readings from 23 to 28. Additionally, the quality of light was improved by raising the CRI from 22 to 85 and annual maintenance costs were reduced by using lighting products with increased lamp life from 24,000 to 36,000 hours and do not require special disposal.



Financial Benefits

- Reduce Energy Consumption **61%**
- Annual Savings **\$73,586**
- Simple Payback **1.7 years**
- ROI **60%**

Environmental Impact

- Green House Gases Removed (CO2) **1,236,735 lbs.**
- kW Hours Saved Every Year **737,732 kWh**

The equivalent of removing 105 cars from the road or planting 131 acres of trees.



Before



After

