

Park Lane Gallery, Kirkland, WA

The Situation

The Park Lane Gallery is a cooperative fine art gallery in Kirkland, WA where artists exhibit fresh work on a monthly basis. Each month the track lights are reconfigured to illuminate the new exhibits and layouts. Two of the gallery managers, Larey McDaniel and Gary Hamburg, were very intrigued in the economical and technical benefits of converting the track lights from incandescent bulbs to LED bulbs. The halogen bulbs failed too often, over-heated the gallery, and the bulbs produced UV light, which can create surface heating and can damage fine art. In addition, the gallery managers wanted to explore the possibility of making the gallery “greener” while changing the quantity of each light bulb type to improve the overall lighting.

The Solution

Because of their overall interest in LED-based lighting, both Larey and Gary considered the financial scenarios offered by LED Light Technology that would produce a 61% reduction in the electrical load for the gallery’s lighting, increase bulb life, eliminate UV light, and would lower their HVAC expenses.

Equipmco proposed to convert the existing bulbs to *Energy Star* approved LED bulbs, from LED Light Technology. The rated life of the bulbs would increase from approximately 2,000 hours to 50,000 hours or more than 22 years.

After applying a per-bulb rebate from Puget Sound Energy, the payback period was less than 9 months and maintenance expenses would be eliminated for over 22 years. The net project cost to the gallery was approximately \$1,680.

Installation of the bulbs would be on a bulb-for-bulb replacement basis. No new wiring or conduit was required to install the LED bulbs.

The Result

Over \$2,300 per year in total savings.

Bulb replacement costs were lowered by at least \$330 per year.

Lighting maintenance expenses were eliminated for at least 22 years.

The gallery reduced their carbon footprint by over 390 pounds per year.

Return on investment of 3,800%



Solution Overview

Company: Park Lane Gallery

Profile: Cooperative fine art gallery in Kirkland, WA

Challenge: Convert the incandescent lighting in an art gallery to energy efficient, PAR20 and PAR30, LED bulbs from LED Light Technology.

Solution: New LED bulbs from LED Light Technology reduced annual power consumption by 61%

Result: A dramatic reduction of overall lighting expense, a ROI that was 3,800% and overall savings of over \$2,300 per year.

EQUIMCO

Representatives for LED Light Technology

