

LED LIGHTING CASE STUDY

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Villaggio Apartments, Kirkland, WA

The Situation

Villaggio on Yarrow Bay is a luxury, waterfront apartment complex in Kirkland, WA with an emphasis on quality and community. Sam Mullen, the Property Manager, was very interested in the economical and technical benefits of converting the lighting in each hallway from compact fluorescent (CFL) bulbs to LED bulbs. The CFL bulbs failed too often and replacement bulbs were a different color.

Additionally, the CFL bulbs would change color as they aged, which reduced the quality of the lighting in the hallways.

The Solution

Because of his interest in both saving money and improving the quality of the lighting in the hallways, Sam considered the financial scenario offered by LED Light Technology that would produce a 43% reduction in the electrical load for the hallway lighting, increase the life of the bulbs, eliminate all maintenance, lower the carbon footprint of the complex, and improve the overall quality of the lighting in the hallways.

LED Light Technology proposed to convert the A19 CFL bulbs to A19 LED bulbs, from LED Light Technology. The rated life of the bulbs would increase from 8,000 hours to 50,000 hours or almost 6 years of continuous operation.

With a rebate from Puget Sound Energy, the payback period was less than 9 months. Maintenance expenses would be eliminated for almost 6 years. The net project cost to the apartment complex was approximately \$4,000.

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

The Result

Over \$24,000 in total savings.

Electricity savings of over \$1,600 per year.

No maintenance expenses for almost 6 years.

Over \$5,600 in annual savings.

Owner's return on investment of 317%



Solution Overview

Company: Villaggio on Yarrow Bay

Profile: Luxury, waterfront apartments in Kirkland, WA

Challenge: Convert the CFL light bulbs in the hallways to energy efficient LED bulbs from LED Light Technology.

Solution: New LED bulbs from LED Light Technology reduced annual power consumption by 43% and paid for themselves in less than 9 months.

Result: A dramatic reduction of overall lighting expense, a ROI of 317%, no new bulbs or maintenance for almost 6 years, and overall savings of over \$24,000.

EQUIMCO

Representatives for LED Light Technology

