

LED LIGHTING CASE STUDY

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Paul Richards Clothing, Bothell, WA

The Situation

Paul Richards Clothing is a 33-year old, unique clothing store in Bothell, WA that sells high quality clothing, to men and women, with an emphasis on details and customer service. Paul and Catherine Desilet, the owners, were very interested in the economical and technical benefits of converting the store's flood lights from incandescent bulbs to LED bulbs. The old bulbs failed too often and over-heated the store during the summer months. In addition, the old bulbs would change color as they aged, which is not good for multi-colored, retail displays.

The Solution

Because of their interest in both saving money and in improving the color quality of his product displays, Paul and Catherine considered the financial scenarios offered by LED Light Technology that would produce a 70% reduction in the electrical load for the store's lighting, increase bulb life, eliminate UV light, lower their carbon footprint, and would lower their HVAC expenses.

LED Light Technology proposed to convert the store's existing bulbs to *Energy Star*, PAR30 LED bulbs, from LED Light Technology. The rated life of the bulbs would increase from 2,000 hours to 50,000 hours or more than 18 years.

After applying a per-bulb rebate from Puget Sound Energy, the payback period was approximately 8 months and maintenance expenses would be eliminated for over 18 years. The net project cost to the store was approximately \$2,700.

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

Approximately \$4,000 per year in total savings.

Electricity savings of about \$800 per year were achieved.

No lighting maintenance expenses for at least 18 years.

Reduced their carbon footprint.

Owner's return on investment of 2,500%



Solution Overview

Company: Paul Richards Clothing

Profile: High quality clothing store in Bothell, WA

Challenge: Convert the incandescent lighting in a clothing store to energy efficient LED bulbs from LED Light Technology.

Solution: New LED bulbs from LED Light Technology reduced annual power consumption by 70%

Result: A dramatic reduction of overall lighting expense, a ROI that was 2,500%, no new bulbs for 18 years, and overall savings of over \$4,000 per year.

EQUIMCO

Representatives for LED Light Technology

