

LED LIGHTING CASE STUDY

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Red Apple Market, Poulsbo, WA

The Situation

The Red Apple Market in Poulsbo, WA is a locally owned grocery store that focuses on value and customer service. The store is lit with fluorescent lights that, due to the cost of power, were expensive to operate, required maintenance, and needed new T8 fluorescent tubes on a regular basis. The owners of this grocery store were very interested in the benefits of converting the fluorescent tubes to *Plug and Play Plus* LED tubes from LED Light Technology because the LED tubes would produce substantial and long-term savings for the store.

The Solution

Because of their interest in lowering their operating expenses, improving the overall quality of the store lighting, and realizing the benefits of the very long rated life of LED Light Technology's LED tubes, the owners of the Red Apple Market considered a financial scenario that would produce an immediate 52% reduction in lighting power consumption, eliminate all maintenance expenses, lower their carbon footprint, and improve color rendering in the store.

The LED tubes would not change color, would not flicker, and would not require any maintenance. The new LED tubes were directly connected to house power. Therefore, installing the new *Plug and Play Plus* tubes was no different than re-lamping the store and bypassing the existing ballasts.

LED Light Technology proposed to convert the fluorescent tubes to *Plug and Play Plus* LED tubes. The new LED tubes do not require any maintenance and the store lighting would improve because all of the light from the LED tubes would be directed towards the merchandise.

The proposed payback period was 17 months. After a rebate from Puget Sound Energy was applied towards the capital expense, the payback period was 10 months. The net capital expense to convert the grocery store to LED tubes was approximately \$5,400.

Installation of the LED tubes was on a one-for-one basis and no new conduit or wiring was required to install the new, innovative *Plug and Play Plus* LED tubes.

The Result

Over \$30,000 in total savings.

Electricity savings of over \$3,800 per year.

Over \$6,200 in annual savings.

Eliminated maintenance labor and expenses.

Owner's return on investment of over 560%



After



Before



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Red Apple Market, Bremerton, WA

The Situation

The Red Apple Market in Bremerton, WA is a locally owned grocery store that focuses on value and customer service. The store is lighted with fluorescent lights that, due to the cost of power, were expensive to operate, required maintenance, and needed new T8 fluorescent tubes on a regular basis. The owners of this grocery store were very interested in the benefits of converting the fluorescent tubes to *Plug and Play Plus* LED tubes from LED Light Technology because the LED tubes would produce substantial and long-term savings for the store.

The Solution

Because of their interest in lowering their operating expenses, improving the overall quality of the store lighting, and realizing the benefits of the very long rated life of LED Light Technology's LED tubes, the owners of the Red Apple Market considered a financial scenario that would produce an immediate 45% reduction in lighting power consumption, reduce maintenance expenses, lower their carbon footprint, and improve the lighting in the store.

The LED tubes would not change color, would not flicker, and would operate with the existing ballasts. If or when a ballast would fail the LED tubes would be connected directly to house power. Therefore, converting to the new *Plug and Play Plus* tubes was no different than re-lamping the store.

LED Light Technology proposed to convert the fluorescent tubes to *Plug and Play Plus* LED tubes. The new LED tubes would reduce maintenance and the quality of the store lighting would improve because all of the light from the LED tubes would be directed towards the merchandise.

The proposed payback period was 12 months. After a rebate from Puget Sound Energy was applied towards the capital expense, the payback period was seven months. The net capital expense to convert the grocery store to LED tubes was approximately \$7,200.

Installation of the LED tubes was on a one-for-one basis and no new conduit or wiring was required to install the new, innovative *Plug and Play Plus* LED tubes.

The Result

Over \$70,000 in total savings.

Electricity savings of over \$7,800 per year.

Over \$13,000 in annual savings.

ROI of over 900%

Light levels increased by over 36%



After



Before

