



Alberta, Canada

CASE STUDY

VALLEY VIEW MANOR

CHALLENGE

The Valley View Manor facility in Rimby faced rising electricity costs due to outdated compact fluorescent (CFL) lighting fixtures. These fixtures consumed excessive energy and required frequent maintenance, leading to increased operational expenses. Additionally, the lighting quality was not optimal for residents, affecting comfort and visibility.

SOLUTION

Radiance Energy conducted an in-depth energy audit and proposed a complete LED retrofit using 5" LED Retrofit Kits FH 15W to replace the existing CFL 4-pin (2-in-1) 18W wall sconces. The upgrade offered:

- 66.55% energy savings
- Annual reduction of 32,009 kWh in electricity consumption
- Improved lighting quality with a color temperature of 4000K
- Longer-lasting LED fixtures with minimal maintenance requirements

PROJECT SUMMARY

- Annual Cost Savings: \$3,921 in the first year, growing due to rising electricity rates
- ROI: 3.5 years
- 10-Year Net Savings: \$49,317
- Sustainability Impact: Significant reduction in energy consumption and carbon footprint

The total project cost was \$14,427, with financing options available, ensuring affordability for the housing foundation. This upgrade modernized lighting across the facility, improving safety, comfort, and efficiency for residents and staff.

