

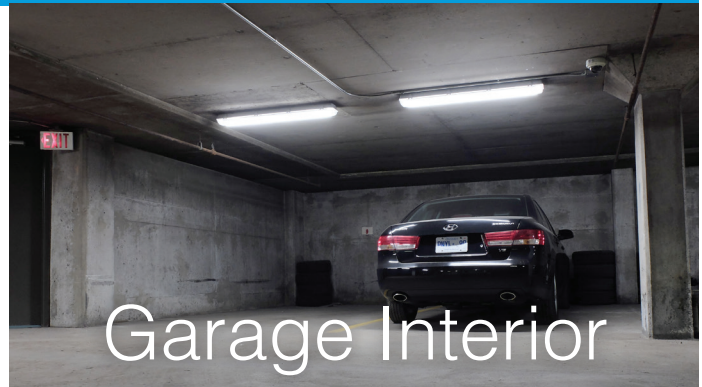
# Apartment Building and Garage

Operating Cost Savings: \$53,600 over 5 years

Goal: minimize electricity costs and update garage lighting fixtures



Exterior



Garage Interior

- Project**
- Lobby and basement of 17-story, 200-unit building and adjacent 3-story parking garage
  - Conversion of fluorescent to LED

- Before**
- Energy usage: 97,000 kWh annually
  - Initial equipment: 341 T8 and T12 fluorescent tubes in single and double strip fixtures

- After**
- Energy usage: 33,000 kWh annually
  - Upgraded equipment: 171 weatherproof integrated LED fixtures and 77 LED tubes

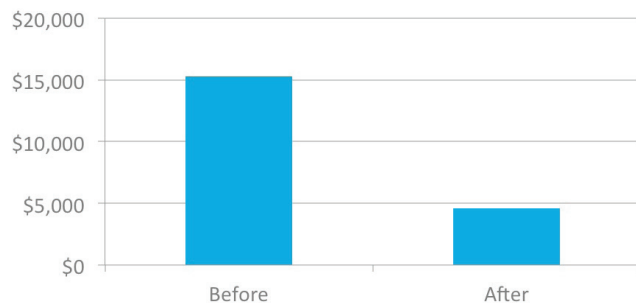
- Annual Electricity Savings**
- 64,000 kWh (66%)

- Simple Payback**
- 2.8 years (includes cost of replacing all garage fixtures)

- 5-Year Projected Cash Savings**
- \$53,600

- Government Rebates Realized**
- \$2,000

## Annual Operating Expense Before and After



## Summary

- 70% operating cost savings for lighting (electricity use, bulb and ballast changes)
- Replacement of all garage fixtures with new weatherproof integrated LED fixtures
- Lifespan of LED bulbs and fixtures: 50,000 hours
- First year operating cost savings \$10,700

## Head Office

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CASE STUDY 4-1