



## Conservation Voltage Reduction Case Study - Grocery



### Savings Summary

53,508 kWh Saved per Year

14 kW Peak Demand Reduction

\$5,176 PF Surcharge Savings

\$7,030 Energy Savings

\$12,206 Total Financial Savings

Loblaws Wholesale Club location on 5335 Kingsway, Burnaby has been saving energy with Legend's Power Voltage Optimization system since 2009. Legend recently completed a no-cost system upgrade at this location to ensure that the building is achieving the maximum savings. Following the system upgrade an updated measurement and verification process to measure the achieved saving was completed. The annualized results of the M&V process are below.

Measurement	Bypass (0% Reduction)	Optimized (6% Reduction)	Measured Savings
Energy - kWh	1,891,490	1,837,982	53,508 kWh
Power - kW	259	245	14 kW
Power Factor - %	83%	87%	4.0%
PF Surcharge - \$	\$10,856	\$5,680	\$5,176
Energy Bill - \$	\$120,622	\$113,592	\$7,030

Measured Energy Usage by Day – July 2015  
Bypass Voltage vs. Optimized Voltage

