



Voltage Management Applied to Grocery Retail

Loblaws Wholesale Club location at 5335 Kingsway, Burnaby, BC has been saving energy with Legend's Harmonizer™ voltage management system since 2009.

Legend recently completed a no-cost system upgrade at this location to ensure that the building is continuing to achieve 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.



By the Numbers

Category	Performance
Reduced Consumption (Annual)	53,508 kWh
Peak Demand Reduction	14 kW
PF Surcharge Savings	\$5,176
Energy Savings	\$7,030
Total Financial Savings	\$12,206

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%
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

