



CASE STUDY

Metrosphere Light Corp.
**Energy Performance: Fujifilm
 Canada PHASE ONE**



191,748 kWh
 Annual Electricity
 Savings

56%
 Annual Electricity
 Reduction

56%
 Annual Electricity
 Cost Savings

FUJIFILM
 CANADA

M E T R O S P H E R E
 L I G H T C O R P .

LAMBERT Smart Energy

starenergy

Metrosphere Light Corp in partnership with **Lambert Smart Energy** developed a solution to complete a lighting initiative to power a **Fujifilm Canada's** head office and warehouse.

Metrosphere Light Corp is a full-service LED lighting company which offers you a complete LED product line to quickly improve the efficiency of your building. Compared to traditional lighting options, LEDs are more durable, longer lasting, greener, and can significantly reduce energy costs.

Lambert Smart Energy is a valuable resource for helping Commercial & Industrial clients in choosing and implementing energy related solutions to fit their business, improve the bottom line and improve carbon footprint.

Fujifilm Canada is working to shrink its carbon footprint and water footprint, use natural resources and packaging materials more efficiently, and minimize waste generation and environmental risk. Together we are contributing to sustainable development by making business decisions that take the environment into account.

Fujifilm Head Office and Warehouse Lighting Technology Initiative PHASE ONE

FUJIFILM Canada Inc. completed the installation of a new warehouse lighting system which reduced future power consumption by 56%. The installation of the new lighting system promises improved energy savings, significant emissions reductions and an enhanced work environment.

The Fujifilm facility at 600 Suffolk Court in Mississauga Ontario was lighted by a total of 300 fluorescent fixtures, with each one containing four (4) F54W T5 linear fluorescent lamps – totaling 1200 lamps.

These were replaced with 1200 linear LED lamps during the week ending June 24th, 2016. The rated wattage of the fluorescent lamps was 54 watts per lamp whereas the replacement LED lamp is rated at 25 watts as per manufacturer's specs.

*All energy savings were confirmed independently through a monitoring & verification protocol (using temporary Circuitry Pulse Data Loggers) and was carried out by the energy engineering firm of **Star Energy Solutions**, one of **Lambert Smart Energy's** affiliated solutions partners. The cost of installing the loggers and utilizing them for three weeks to establish baseline lighting attributed energy usage pre project and post project, was \$3,000. This cost was not passed on to Fujifilm Canada.*

CASE STUDY

Fujifilm Canada

Energy Performance

PHASE ONE - WAREHOUSE

PHASE ONE project cost approximately \$58,000 and saves the company \$32,000 (56%) a year.

Warehouse & Operations



"We had two objectives when we were considering upgrading our warehouse lighting-

- 1: Improve the light quality; and
2. Reduce our energy costs.

Working under the guidance and knowledge of John Lambert from **Lambert Smart Energy**, we achieved both objectives using the **Metrosphere** LED bulbs and their expertise and are very satisfied with the results."

Brian Boulanger,
Executive Vice President
Fujifilm Canada

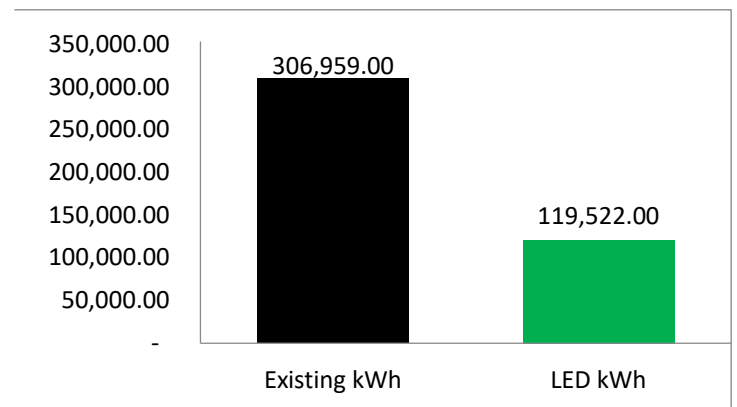
"Best of all, I am no longer constantly getting up on a lift, 30 feet in the air to replace burnt out bulbs."

Doug Gaughan,
Facility Manager
Fujifilm Canada

"The installation with Metrosphere went smoothly and they followed up and ensured that the local utility rebate (incentive) was delivered expeditiously. I will be moving to Metrosphere supplied LED bulbs in the offices now as well, based on the early indication of costs savings that we are seeing in the warehouse."

Brian Boulanger,
Executive Vice President
Fujifilm Canada

ANNUAL ELECTRICITY KWH SAVINGS



CASE STUDY**Fujifilm Canada**

Energy Performance

PHASE TWO - OFFICES

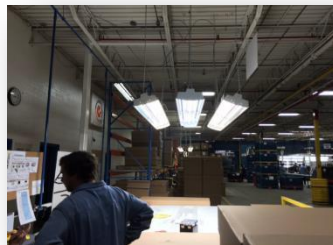
**PHASE TWO (Offices) Project Cost
\$75,351 Saves the company additional
\$62,260 (64%) /yr.**

PAYBACK OF PROJECT	14 MONTHS
INVESTMENT	\$93,363
REBATE	\$18,012
NET INVESTMENT	\$75,351
ENERGY SAVINGS	63.66%
TOTAL SAVINGS PER YEAR	\$62,260
TOTAL SAVINGS FOR 5 YEARS	\$311,300



INCLUDES INSTALLATION, ENVIRONMENTAL REMOVAL OF 3552 FUORESCENT LAMPS, WASTE CONTAINER RENTAL, ELECTRICAL SAFETY AUTHORITY (ESA) INSPECTION FEES

Metrosphere Light Corp was instrumental in helping Fujifilm Canada's employees select the right color temperature for the office space by installing LED lamps in several areas ranging from 2700K to 4000K prior to the project commencing.



FujiFilm Canada is a progressive minded company that is doing its part to conserve the environment and sustain its reduced levels of waste to landfill. Fujifilm Canada completed its ISO14001 Registration Audit in December 2016.



For additional information on this project please contact Eli Klein, Metrosphere Light Corporation (eli@metrosphere.ca) or John Lambert at Lambert Smart Energy (john@lambertsmartenergy.com)