

LED lighting leads to a more eco-friendly organization

The Challenge

The Operations Centre needed to reduce the waste produced and the energy used by the fluorescent lighting fixtures currently in use. Fluorescents contain mercury and are expensive to dispose. Fluorescents also use twice the watts of LED.

The Solution

- **ENERGY SAVINGS:** Fluorescents use 20-95 watts per compared to LEDs which use 12-19 watts per
- **COST SAVINGS:** Fluorescents have a lifespan avg of 10,000 hours compared to 50,000-100,000 hours per LED
- **Hazardous Waste Reduction:** Fluorescents contain mercury and cost on avg .80 cents per to be disposed. LED lights are fully recyclable

Lights Replaced.
1,804 4-foot tubes,
402 2-foot tubes,
110 pot lights

TOTAL SAVINGS = \$1,065,529 + 27,792 WASTE + 82,274,696 Kwh

Measurable Outcomes

	Description		
Challenge	Reduce environmental waste and energy use impacts		
Solution	Transition Lighting from Fluorescent to LED		
	Fluorescent	LED	Cost and energy savings/waste reduced
Bulb Purchase Costs (25 yr)	\$505,950	\$130,188	\$375,762
Waste Disposed-bulbs (25 yr)	34,740	6,948	27,792
Cost of Disposal (25 yr)	\$27,792	\$0	\$27,792
Energy used kWh (25 yr)	13,234,900	4,960,204	8,274,696
Energy Cost at 0.08 per kWh (25 yr)	\$1,058,792	\$396,816	\$661,975

About the Property

Building name
6300 Operations Centre

Located
6300 Steeles Ave, Woodbridge

GFA
6606 Sq ft

Building type
Office