

■ Exhibition Place - Toronto, Canada



# Exhibition Place

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Presentation to  
LightSavers Symposium  
Low Carbon Lighting

October 7, 2008

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## Exhibition Place

- Local Board of City of Toronto – Board of Governors of Exhibition Place
- Contributes all annual profits to the City
- Canada's largest entertainment venue - attracting 5.2 Million visitors annually to over 350 events & 100 trade show events
- 192 acres (77 hectares) with 51 acres (20 hectares) of parkland
- Regional/Local transit services site at multiple stops
- 6700 parking spaces & 348 bicycle parking (indoor & surface)
- 22 buildings/structures - 8 designated by Ontario Heritage Act



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## Location - Aerial View



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## Exhibition Place

- 12 permanent long-term tenants – entertainment businesses
- BMO Field – home of the MLS Toronto Football Club
- Ricoh Coliseum – home of the AHL Toronto Marlies
- Direct Energy Centre – completed in 1997 – 99,900 sq. metres contiguous floor space – 6<sup>th</sup> largest in North America
- Allstream Centre – under construction and opening in September 2009 – LEED Silver Certification
- Home of the annual Canadian National Exhibition (CNE) – 130<sup>th</sup> year



## Sustainable Practices

- Energy Production
  - Location of first city-sited Wind Turbine
  - 100 kilowatt Photovoltaic Project – largest in Canada
  - Tri-generation System installed Direct Energy Centre
  - Geothermal System installed Press Building
  
- Energy Efficiencies
  - Roofs, HVAC, windows
  - Lighting
  - Approx. \$13.7 million over last 3 years on energy retrofits
  
- Energy Reduction
  - Reduced energy use by 13.4% since 2005 across the grounds & 33% in the buildings controlled directly by Exhibition Place



## Lighting Initiatives



- 1882 – First fair in North America to be electrically lit
- 2006 - Commenced program to replace & upgrade 1,900 fixtures & add lighting controls
- 2008 - Installation of “intelligent” Integrated Lighting System in underground garage
- Financial feasibility - combine quick pay-back lighting projects with longer pay-back HVAC replacements

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## LED Projects

- December 2007 - Holiday Season Display as part of the City's Festival of Lights
- 15,840 LED lights on the 21 foot high chandelier used only 205 watts - equivalent to 25 strings of older incandescent lights



## LED Projects



- 2006 – Street lights on Princes' Boulevard
- Partnership with greenTbiz through TAF funding & Electromega
- 12 luminaires installed around the Automotive Building & 4 in the parking lot by Stanley Barracks.
- Pilot project to evaluate LED in a roadway application
  - Over 60% energy savings, resulting in reduced GHG
  - Reduced maintenance costs
  - Light levels are less but adequate
  - Public consultation resulted in favourable opinion with respect to light quality
  - Crime Prevention Through Environmental Design Safety & Security input was favourable

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## LED Projects

- Footpath at east bridge to Ontario Place near Stanley Barracks
- 2 poles with 4 beta / RUUD luminaires of approximately 60 watts each
- An informal survey of CNE attendees & vendors suggest that they were impressed with the technology & light levels



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## LED Projects

- “Top of the Bank” pathway (1.3km) running along the southern perimeter of the grounds
- Testing LED lights with intelligent lighting control package
- 70 lighting fixtures – replace 65 with LED & renew remaining 5 with new bulbs & ballasts for existing high pressure sodium light fixtures
- Potential – City of Toronto has 90 km of paved pathways & over 1,000 light standards
- Benefits
  - Reduces energy use & GHG
  - Public experience of LED lighting
  - Comparative assessment between LED lights & HPS
- Status – seeking funding from Federation of Canadian Municipalities & the City’s Better Building Partnership
- \$700,000



## Key Factors

- Partnerships with Private Sector
- Funding support
- Decorative Lighting – product available & competitive
- Exterior Lighting – product available
- Interior Lighting
  - Lead time
  - Educate designers/architects
  - Design with LED in mind

## Wrap Up

# THANK YOU

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