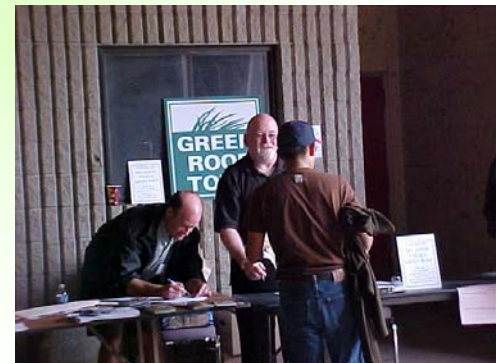




Exhibition Place

The Board of Governors of Exhibition Place



2004 ENVIRONMENTAL PLAN

- ✿ **PRINCIPLE – THE PROMOTION OF SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL INITIATIVES**

OBJECTIVES

- ✿ **Be a leader in use of innovative energy-efficient technologies**
- ✿ **Achieve net energy self-sufficiency by 2010**
- ✿ **Reach 80% waste diversion by 2010**
- ✿ **Incorporate sustainable principles in procurement & capital works policies**
- ✿ **Adopt an annual “environmental” capital budget**



ENERGY EFFICIENT TECHNOLOGIES



- ✿ 2002 – Location of first city-sited Wind Turbine
- ✿ 2004 – Demonstration Green Roof on historic Horse Palace & 2009 capital budget for Green Roof on West Annex
- ✿ 2003 – Hydrogen Fuel Cell demonstration – hydrogen refueling station & 4 hydrogen vehicles
- ✿ 2006 – 100 kilowatt Photovoltaic Project – largest in Canada
- ✿ 2007 – Tri-generation System installed Direct Energy Centre - providing 60% of energy needs
- ✿ 2007 – LED Demonstration Project for 16 street & parking lights
- ✿ 2007 – 7.5 kilowatt combination Solar Thermal/Photovoltaic project
- ✿ 2007 – Permeable asphalt demonstration project in Stadium parking lot
- ✿ 2007/08 – Geothermal plant to heat & cool Press Building
- ✿ 2008 – Installation of “intelligent” Integrated Lighting System in underground garage

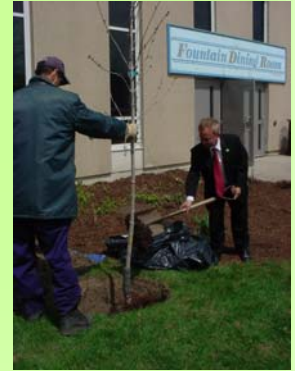
ENERGY EFFICIENCY RETROFITS

- ❁ 2005/06/07 – Replacement of single-paned windows in various buildings (13,160 sf)
- ❁ 2006 – Lighting retrofits/controls - Direct Energy Centre (1357 fixtures), Better Living Centre (488 fixtures)
- ❁ 2006/07 – HVAC replacement in Queen Elizabeth Building
- ❁ 2007 – Music Building Roof Replacement with R20 insulation
- ❁ 2008 – Renovation of Automotive Building to meet LEED standard
- ❁ 2008/09 – HVAC replacement in the Coliseum Complex



SUSTAINABLE OPERATIONS AND DEVELOPMENT

- ✿ 2004 – Introduced S-M-A-R-T Program to encourage employees to use public transit, carpool, bicycles
- ✿ 2005 – Conversion of all equipment to biodiesel
- ✿ 2005/06 – Developed “Green Fleet” program – hybrid/electric
- ✿ 2006 – Achieved 62% waste diversion - goal of 80% by 2010
- ✿ 2006 – Site of New Mobility Hub
- ✿ 2007 – Approved “Green Procurement Policy”
- ✿ 2007 – RFP for hotel development required compliance with City Green Standard
- ✿ 2006/07 - Adopted an annual “environmental” capital budget
- ✿ 2007– Internal Energy Reduction Policy - reduce annual energy consumption by One Megawatt
- ✿ Tree Planting – annual expenditure of \$50,000 increasing to \$75,000 in 2008



PUBLIC OUTREACH OF “SUSTAINABILITY” GOAL

- ❁ Innovation Zone in Direct Energy Centre focusing on energy conservation
- ❁ Green Walking Tour
- ❁ Green Doors Open
- ❁ CNE “Green Day” & environmental displays
- ❁ Booklet on Environmental Program – joint project with George Brown design program
- ❁ Participation in “Bike to Work” week celebrations
- ❁ Presentations to various organizations



PUBLIC OUTREACH OF "SUSTAINABILITY" GOAL

Received numerous awards –

- **Outstanding Achievement: Innovation in Business Solutions**, International Association for Exhibition Management (IAEE)
- **Innovation Award**, Trade Show Executive Magazine
- **Solar Photovoltaic Project of the Year**, 2006 Solar Awards: Canadian Solar Industries Association
- **Gold Award for Facility Management**, Recycling Council of Ontario
- **Environmental Achievement Award**, Green Toronto Awards
- **Silver Award for Sustainable Technology**, Recycling Council of Ontario
- **Bronze Award for Facility Management**, Recycling Council of Ontario
- **Environmental Award**, GT French & Cascades



2004 - 2007 OBJECTIVES



Capital commitment = \$7.5 Million

**Production/reduction in energy use = 15.0 Million
kilowatt-hours annually**

Displacement of CO₂ = 11,533 tonnes annually

Reduction of SO_x = 14,460 kilograms annually

Reduction of NO_x = 10,242 kilograms annually

Waste diversion = 70%

ENERGY SELF-SUFFICIENCY 2008 - 2010 OBJECTIVES

GOAL

December 31, 2010 – Net Energy Self-Sufficiency

- 2007 Action Plan suggested shortfall of approximately 2.3 Megawatts to meet Goal
- 2008 – Construction of a One Megawatt Photovoltaic System
- Require financial partners – Toronto Atmospheric Fund, FCM, City ERP, Better Buildings Partnership, private corporations

