

Owner:
Toronto Region
Conservation Authority

Architect:
Montgomery Sisam
Architects Inc.

- Our Services:**
- Sustainable Design Facilitation
 - Energy Efficiency Consulting
 - Mechanical/Electrical Design
 - LEED® Consulting & Certification
 - Building Commissioning
 - Building Energy Performance Measurement

Status:
LEED-NC Platinum Certified
Completed 2007

LEED® Project Facts

Gross Floor Area: 1095 (m²)
Energy Density: 134 (kWh/m²)

Category	% Performance
Water Savings	
Irrigation	100 %
Indoor Use	85 %
Energy Savings	
Renewable Energy	3 %
Waste Diversion	
Recycled Content	20 %
Regional Content	29 %
FSC Wood Content	52 %
Daylighting	97 %
Views	91 %

LEED® Platinum

**Toronto Region Conservation Authority, Restoration Services Centre
Ontario's First LEED Platinum Building
Vaughan, Ontario**



PHOTO CREDIT TOM ARBAN AND MONTGOMERY SISAM

The Toronto Region Conservation Authority (TRCA) received Ontario's first LEED Platinum designation for its Restoration Services Centre, a 1,095 m² combined office space and works garage. Exemplary energy performance—the project received all 10 LEED energy credits—is based on radiant heating, heat recovery on ventilation air, displacement ventilation, and a photovoltaic system. The Centre also performs well in

terms of water conservation: the water required for wastewater conveyance is reduced to zero. Fifty-two per cent of the wood used in the building is certified by the Forestry Stewardship Council. Workplace quality is achieved through the use of low-off gassing materials (including systems furnishings), the control of air contaminants, and abundant daylighting.

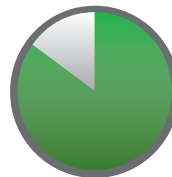
Notable Features

- Hybrid vehicle
- Low-flow fixtures, including waterless urinals and composting toilets
- Rainwater and surface drainage directed to irrigation pond
- Photovoltaic system
- Heating/cooling ducts integrated with slab-on-floor and insulation
- Heat pumps with slinky ground source loop
- 100% outdoor air ventilation system with heat recovery ventilators
- Basement ventilated by underground "earth tube" inlet
- Regionally extracted or manufactured materials: concrete, insulation, gravel, and landscaping materials
- Operable windows and lighting controls for perimeter spaces
- Building automation system with long term performance measurement
- GREENGUARD systems furniture



65%

Energy Savings



85%

Indoor Water Savings



20%

Raw Materials Savings