



Ojibway Nature Centre

sustainability • efficiency • energy • resources • quality • innovation

LEED SILVER

OJIBWAY NATURE CENTRE



The **Ojibway Nature Centre** provides education programs, park and wildlife management services, and public information. The centre is open seven days a week.

Nature centre staff are responsible for Ojibway Park, Tallgrass Prairie Heritage Park, Black Oak Heritage Park, and Spring Garden Natural Area totaling 244 hectares or 604 acres. The adjacent Ontario Prairie Provincial Nature Reserve adds 105 hectares or 230 acres.

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LEED CERTIFIED

What is LEED?



Administered through the Canada Green Building Council (CaGBC), LEED is a third party certification program and an internationally accepted benchmark for the design, construction and operation of high-performance green buildings. LEED promotes a holistic approach to sustainability by recognizing performance in six key areas of human and environmental health.

SIX KEY AREAS

OF HUMAN AND ENVIRONMENTAL HEALTH



1 SUSTAINABLE SITES

2 WATER EFFICIENCY

3 ENERGY & ATMOSPHERE

4 MATERIALS & RESOURCES

5 INDOOR ENVIRONMENTAL QUALITY

6 INNOVATION & DESIGN PROCESS

1 SUSTAINABLE SITES



- Rain water from the roof is diverted to the Matchette Road pond and the bird viewing water feature
- Reflective white TPO roof membrane is used to reduce heat loss in the winter and heat gain in the summer
- Living green roof was installed and covers approximately 30% of the roof area

2 WATER EFFICIENCY



Drought-tolerant plant material was used for landscaping; there is no irrigation system

A **tertiary sewage system** was used, reducing potable waste water by 100%

Potable domestic water is reduced by 30%

3 ENERGY & ATMOSPHERE



The building achieves a
22 % reduction
in design energy cost
relative to ASHRAE
(American Society of Heating, Refrigerating & Air-Conditioning Engineers)
reference building

4 MATERIALS & RESOURCES

Features innovative reuse of granite sets, cut granite blocks that once covered the road bed of the Ambassador Bridge.



These granite sets were:

- Salvaged in 1970 during repaving works of the bridge
- Given to the City for use in parks
- Used inside for feature walls and for the fireplace
- Prominently used on the exterior wall

MATERIALS & RESOURCES CONT

Construction **Materials = 20%** Recycled **Content**



Eastern white cedar, a sustainable lumber from Ontario, was used for exterior cladding and interior finishing

Regional **Materials = 52%** of construction materials were regionally extracted and manufactured

5 INDOOR ENVIRONMENTAL QUALITY



Use of low-emitting VOC adhesives, sealants, paints and coatings

Use of non-formaldehyde adhesives for plastic laminate

Use of low-emitting VOC carpeting

6

INNOVATION & DESIGN PROCESS



Ecological Responsibility

- The overall construction program emphasized ecological responsibility. This held especially true with the decommissioning of the “former” nature centre and picnic shelter
- Local Habitat ReStore salvaged doors and windows, building materials, plumbing and electrical fixtures.
- Fieldstone from the fireplace and construction rubble was recycled for the construction of a snake hibernaculum
- Metals and other recyclables were properly handled according to **LEEDs** strict protocols for proper management of construction debris

The LEED Certification Plaque



A plaque will be displayed inside the Ojibway Nature Centre to acknowledge the LEED Silver certification. This unique plaque is made from non-virgin glass and wood reclaimed from “waste” industrial off cuts. The glass is cut using a high-powered water jet and etched using continually recycled medium. The wood mount is left unstained and natural, giving each plaque a unique character and ensuring the manufacturing process remains free of chemicals.

MEASURING SUCCESS

310% increase

VISITORS

750% increase

PROGRAM PARTICIPATION

760% increase

RENTALS

320% increase

REVENUE



From 2010 (old facility) to 2011 (new facility)

LEED PARTNERSHIPS



Canada 

 Ontario

 **WINDSOR**
THE CITY OF
ONTARIO, CANADA

 **WINDSOR**
THE CITY OF
ONTARIO, CANADA

 parks & facilities
WINDSOR



Ojibway Nature Centre



Mayor Eddie Francis and Windsor City Council cordially invite you to celebrate Ojibway Nature Centre's Silver LEED Certification

WED FEB. 13, 2013 10 a.m. – 11 a.m.

This energy efficient state-of-the-art facility has earned recognition for the sustainability of its design and construction - - the first Corporation of the City of Windsor building to earn LEED recognition.

