



Owner:
Toronto Botanical Garden

Architect:
Montgomery Sisam
Architects Inc.

Our Services:

- Sustainable Design Facilitation
- Energy Efficiency Consulting
- LEED® Consulting & Certification
- Green Education Program Design

Status:
LEED-NC Silver Certified
Completed 2006

The George and Kathy Dembroski Centre for Horticulture at the Toronto Botanical Garden, Toronto, Ontario A Celebration of Natural Beauty



PHOTO CREDIT TOM ARBAN AND MONTGOMERY SISAM

The Toronto Botanical Garden (TBG) celebrates natural beauty through popular horticultural and environmental programs and renowned ornamental gardens. An extensive addition to the TBG includes the “George and Kathy Dembroski Centre for Horticulture,” a 755 m³ glass pavilion that houses offices, educational spaces, and a retail store. About one-half of the Centre was an existing, energy-

inefficient building. Despite this, the new Centre and the existing building combined operate at an annual energy savings of 30%. A green education program makes full use of the innovative building features. The program is a fitting complement to the TBG’s purpose: to inspire passion, respect and understanding of gardening, horticulture, the natural landscape, and a healthy environment.

LEED® Project Facts

Gross Floor Area: 755 (m²)
Energy Density: 253 (kWh/m²)

Category	% Performance
Water Savings	
Irrigation	100 %
Indoor Use	26 %
Energy Cost Savings	
Energy Density Savings:	30 %
Waste Diversion	
Recycled Content	30 %
Regional Content	35 %
Daylighting	100 %
Views	100 %

LEED® Silver

Notable Features

- Green vegetated roof
- Landscaping materials with high reflectivity or high permeability
- Rainwater cistern to supply water for irrigation
- Energy-efficient building envelope
- High performance windows
- Energy recovery on ventilation system
- Occupancy sensors control lighting and ventilation
- Low-VOC finishes and carpeting
- Exceptional daylighting and outdoor views
- Green education program including self-guided tours and interactive computer kiosk



26%
Energy Savings



26%
Indoor Water Savings



30%
Raw Materials Savings